Finding Aid to the M.M. (Michael Maurice) O'Shaughnessy papers

Finding Aid written by Mary L. Morganti, in memory of Archivist, Linda Jordan, 1952-2001. Funding for processing this collection was provided by George A. Miller.

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URL: http://www.lib.berkeley.edu/libraries/bancroft-library
Language of Material: Italian
Contributing Institution: The Bancroft Library
Title: M.M. (Michael Maurice) O'Shaughnessy papers
Creator: O'Shaughnessy, M. M. (Michael Maurice), 1864-1934
Identifier/Call Number: BANC MSS 92/808 c
Physical Description: 125 linear feet, 20 boxes, 54 cartons, 42 volumes, 5 oversize boxes, 154 oversize folders, 52 tubes
Date (inclusive): 1882-1937
Abstract: The M. M. (Michael Maurice) O'Shaughnessy papers, 1882-1937, consist of materials relating to his career as a civil engineer, working first as a consultant in private practice, and later as City Engineer of San Francisco. The collection contains primary and secondary source materials both created and collected by O'Shaughnessy in the course of planning, conducting, and overseeing a large range of engineering projects, and later kept as part of his own private files. His writings include typescripts and published versions of many speeches, articles, and books by O'Shaughnessy—both in his role as City Engineer, and as a consulting engineer who was active at the national and local level in professional organizations and societies. With these are his engineering notes and notebooks, a collection of reference materials, and a small amount of personal and family papers.
Language of Material: Collection materials are in English, and a small amount of Italian
Physical Location: Many of the Bancroft Library collections are stored offsite and advance notice may be required for use. For current information on the location of these materials, please consult the library's online catalog.
Access
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Preferred Citation
[Identification of item], M.M. (Michael Maurice) O'Shaughnessy papers, BANC MSS 92/808 c, The Bancroft Library, University of California, Berkeley.
Additional Notes on Collection
Photographs integral to reports and textual records have been retained within the collection and noted in the container listing under the related folder. Notes follow the pattern: Includes photographs (supplementary or duplicate): # of prints and negatives. "Duplicate" indicates that other copies are found in BANC PIC 1992.058--PIC, and "Supplementary" indicates that duplicates were not found in BANC PIC 1992.048--PIC. Negatives for each file have been removed and housed separately in Box 20, in restricted freezer storage.
Title: O'Shaughnessy family papers, ca. 1920s-1980s
Identifier/Call Number: BANC MSS 2003/229 c
Separated Material
Some printed materials have been transferred to the book collection of The Bancroft Library.
Most photographs, unless integral to reports and mss files, have been transferred to the Pictorial Collections of The Bancroft Library (BANC PIC 1992.058--PIC)
Acquisition Information
The M. M. O'Shaughnessy papers were given to The Bancroft Library by Miss Elizabeth O'Shaughnessy on August 15, 1992. Two additional items (a report and survey map) were purchased from separate sources in 2002.
Processing Information
Biographical Information
Michael Maurice (M. M.) O'Shaughnessy was born in Limerick, Ireland, on May 28, 1864, the son of Patrick and Margaret (O'Donnell) O'Shaughnessy. One of nine children, he was educated in the public schools in Ireland, and attended Queen's
Maurice) O'Shaughnessy papers

On March 8, 1885, O'Shaughnessy sailed for America and ten days later reached New York City, then proceeded on to San Francisco, arriving on March 30, 1885. He began his career working as Assistant Engineer, first for the Sierra Valley and Mohawk Railroad (1885-1886) and later for Southern Pacific Railroad (1886-1888) at various locations throughout California. He began private consulting as a civil engineer in August 1888, and undertook the surveying and engineering of land developments in California, laying out a number of small towns. From 1890 to 1898, he was in general engineering practice in California, with an office in San Francisco. He served as Chief Engineer of the 1893 California Mid-winter International Exposition; was Chief Engineer for the Mountain Copper Company and built 12 miles of narrow-gauge railroad in Shasta, California in 1895; and completed projects for several corporations, including the Spring Valley Water Company. From 1899 to 1906, O'Shaughnessy was engaged in the design and construction of four large irrigation and hydraulic projects on about twenty sugar plantations in the Hawaiian Islands, including Olokele Aqueduct, Kauai; Koolau Aqueduct, Maui; and Kohola Aqueduct, Hawaii. From 1907 to 1912, he served as both Chief Engineer and Consulting Engineer for John D. and Adolph Spreckels' Southern California Mountain Water Company in San Diego, and completed the Dulzura Conduit and Morena Rock Fill Dam. Other work during this period included Throttle Dam (New Mexico), channel rectification on the Salinas River for Spreckels Sugar Company, Crocker-Huffman Dam on the Merced River, and development of the water works at Port Costa.

On September 1, 1912, O'Shaughnessy was appointed City Engineer by Mayor James Rolph, and received a yearly salary of $15,000—almost double that of his predecessor. He held the position for twenty years - until January 8, 1932, when a new City Charter was adopted that separated the ordinary work of the City Engineer from that of its public utilities, including the municipal water supply. On February 8, 1932, the newly formed Public Utilities Commission appointed him Consulting Engineer for Hetch Hetchy Water Supply, a position that he held until his death in 1934. Accomplishments during his tenure as San Francisco City Engineer include extensions of streets and sewers, design and construction of boulevards, tunnels, bridges, development of a high pressure fire system and fire alarm signal station, and municipally owned utilities, including a street railway system and water supply and hydro-electric power projects.

The major part of O'Shaughnessy's time and interest were occupied with the Hetch Hetchy Water Supply project. Former City Engineer Carl E. Grunsky had selected the Tuolumne River as the source of water for San Francisco, but there were lengthy delays due to opposition from many sources. O'Shaughnessy's immediate predecessor, Marsden Manson, kept the project alive, and following engineer John R. Freeman's report on the project in 1912, Congress approved President Wilson's grant of the federal lands to San Francisco. Construction work began in 1914 in the mountains and was finally completed in 1934, when water first reached reservoirs. The work required building a railroad, power plants and transmission lines, several storage dams and reservoirs, and an aqueduct. During the lengthy period of construction, O'Shaughnessy resisted attacks by numerous opponents of the project who sought to stop the progress of the work. In July 1923, the dam at Hetch Hetchy Valley was dedicated in his honor, and officially given the name, O'Shaughnessy Dam.

Throughout his career, O'Shaughnessy served as a consulting engineer for a wide variety of projects, including municipal, state and federal government endeavors, as well as corporate and private enterprise. Notable among these are water and power projects throughout California, including Strawberry Dam (Stanislaus River); Lower Otay, Barrett and El Capitan Dams (San Diego); Alpine Dam (Marin County); Bowman Dam (Yuba River); and Juncal Dam (Santa Barbara); and elsewhere in the U.S., including Skagit River, Seattle and Dixon River, Kentucky. He advised on municipal transportation systems, including street railways in Detroit, Michigan and Tacoma, Washington, and waterfront development in Portland, Oregon. He also served in an advisory capacity for Marin County Municipal Water District and as Acting Commissioner of the waters of Lake Tahoe for the Dept. of the Interior. O'Shaughnessy was called upon as an expert witness in several land valuation cases, and reported on his studies of earthquakes for the City of Santa Barbara, and on the St. Francis Dam failure.

M. M. O'Shaughnessy was elected a Member of the American Society of Civil Engineers on June 4, 1902, and was active in the San Francisco Section, serving as its President in 1920. He was a regular contributor to the publications of the Society, and in 1913 won the James Laurie Prize for his article on the construction of Morena Dam, the largest rock fill dam in the world. He was a member of the American Water Works Association, American Society of Military Engineers, American Society for Testing Materials, and the Seismological Society, and regularly lectured to engineering students at Stanford University, University of Santa Clara, and the University of California, Berkeley.

In 1890, M. M. O'Shaughnessy married Mary Spottiswood of San Francisco. They had four daughters (Margaret, Mary, Elizabeth, and Helen) and two sons (Francis J. and Maurice, who died in early childhood). In 1893, O'Shaughnessy built a summer cottage at 60 Summit Avenue, Mill Valley, which eventually evolved into a 3-story, 10-room home with a tennis court, barn, and gardens laid out by John McLaren, the designer of Golden Gate Park. In 1912, O'Shaughnessy purchased 2732 Vallejo Street as the family's San Francisco residence, although they continued to spend summers in Mill Valley. He was a member of the Commonwealth Club of California, University Club, Chit Chat Club, Presidio Golf Club, Save the
Maurice O'Shaughnessy papers
Finding Aid to the M.M. (Michael Maurice) O'Shaughnessy papers, 1882-1937, consist of materials relating to his career as a civil engineer, working first as a consultant in private practice, and later as City Engineer of San Francisco. The collection contains primary and secondary source materials both created and collected by O'Shaughnessy in the course of planning, conducting, and overseeing a large range of engineering projects, and later kept as part of his own private files. His writings include typescripts and published versions of many speeches, articles, and books by O'Shaughnessy—both in his role as City Engineer, and as a consulting engineer who was active at the national and local level in professional organizations and societies. With these are his engineering notes and notebooks, a collection of reference materials, and a small amount of personal and family papers.

Although O'Shaughnessy repeatedly claimed that all of his files perished in the 1906 San Francisco earthquake and fire, clearly a significant amount from prior to that event survived in other locations. Although little general correspondence from his private office was found, job files from 1889 to 1912 make up a significant portion of his records as a consulting engineer. His early projects are chiefly land surveys in northern California, but in 1899 O'Shaughnessy began work on an extended series of irrigation projects in the Hawaiian Islands for the sugar plantations of the California firms of Alexander & Baldwin, Hind, Rolph, & Company, and the Hawaiian Commercial & Sugar Company. The scrapbooks, correspondence and letter books, reports, notes, maps, plans and specifications, printed materials, and clippings found in those files provide detailed information about development on several islands, including Hawaii's Kohola Aqueduct, the scenery that is described in Jack London's Voyage of the Snark.

In 1906 O'Shaughnessy began work as a consulting engineer for John D. and Adolph B. Spreckels' Southern California Mountain Water Company, which was later sold to the City of San Diego. In much the same manner as he undertook projects and provided expert opinions or testimony for several cities in Marin County, he consulted for City of San Diego projects until 1934. O'Shaughnessy established similar long-term connections with many of his early clients, including George Rolph, the Spreckels, Crocker-Huffman Land & Water Company, and Archbishop Riordan of the Catholic Archdiocese of San Francisco, and they too continued to contract with him for various projects throughout his career.

O'Shaughnessy usually worked on several projects simultaneously, and often completed several smaller projects in a number of different locations during the course of a larger contract. Consulting Engineer Job Files (Series 1.3) include all projects for which he had an official role and was compensated, even if he only gave advice or however minor his input. Files related to projects on which he consulted as a professional courtesy to his fellow engineers or resulting from his particular interest in their work, are in Professional Consultations and Investigations (Series 3.4). Although O'Shaughnessy closed his general consulting office in San Francisco in September 1912, when he assumed the position of San Francisco City Engineer, he continued to consult for outside interests throughout his career, sometimes under the auspices of the City but more often on his own.

It is important to note that O'Shaughnessy's papers are his own private files, and should not be misconstrued as the official records of the City of San Francisco. They contain only limited, and often public, information about municipal projects documenting the growth and improvement of San Francisco's transportation, water supply, and power systems. While work during his tenure included Twin Peaks Reservoir, Stockton Street and Twin Peaks Tunnels, Ocean Beach Esplanade, Municipal Railway System, and numerous boulevards, streets and sewers, there is little information about the duties and daily operations of the City Engineer's office or projects.

Most thoroughly documented in the City Engineer Files are efforts to secure a reliable source of water for San Francisco. These include acquisition of the Spring Valley Water Company (Series 2.2.3), and construction of Hetch Hetchy (Series 2.4.1), described in 1924 as the largest and most complete water and power project ever contemplated by a municipality. Water stored in reservoirs in the Sierra Nevada is carried through 155.1 miles of mountain tunnels and pipes, across the San Joaquin Valley, through the Coast Range and under San Francisco Bay before entering Crystal Springs Reservoir, south of San Francisco. O'Shaughnessy wrote and spoke more about Hetch Hetchy than any other project. The City Engineer's Public Relations files (Series 2.3) include more than 100 statements, articles and speeches written for the general public; more technical papers presented at engineering conferences, and writings and his book are found in Professional Activities (Series 3.3).
A significant body of correspondence is found throughout the collection, including letters in files relating to specific jobs as well as those relating to his professional activities. The City Engineer General Correspondence Files (Series 2.1) are a particularly rich resource for insights into how projects were planned and completed, as well as O'Shaughnessy's role in regional and city politics. He had strong opinions on most issues and he freely expressed them in his letters, which often includes other interesting bits of information as well. For instance, in a February 1920 letter to a Detroit engineer (in connection with his consulting job), O'Shaughnessy mentions making preliminary studies for "a long span bridge here of almost unprecedented length...across the Golden Gate near Fort Point between San Francisco and Marin Counties." A February 23, 1916 letter (in Box 4: 2) includes lyrics to the song, "Dammin' Up the Stream," that relates to engineer J. Waldo Smith and the Ashokan Reservoir. In an exchange of letters with Stanford University's Bailey Willis, President of the Seismological Society of America, regarding the publication of articles on quake-proof construction, they discuss promoting a plan to "Make California Quake-proof."

O'Shaughnessy kept meticulous notes during project site and professional inspection trips, and this detail is repeated in his travel diaries and notes from excursion trips that are found in Personal and Family Papers (Series 5). The diary from his 1925 European trip that included stops in Chicago, New York, Ireland, London, Paris, Switzerland, Italy, and home via Boston and Montreal, chiefly recount visits to engineering structures. Descriptions of tunnels, dams, powerhouses, and street, road, railroad and bridge construction appear along with notes on museums, cathedrals, and ruins, and interesting methods of finance and city planning.

O'Shaughnessy was shrewd investor and acquired mining interests and real property in many of the locations in which he worked. His personal papers contain a significant amount of plans, leases, correspondence, and financial records relating to the early development of Mill Valley, particularly the "O'Shaughnessy block" in downtown. A few of his school notebooks from ca. 1882-1883, sympathy letters and tributes following his death, a remarkably small amount of personal and family correspondence, and records relating to the settlement of the estates of his sister and parents-in-law complete the collection. Personal papers created or collected by his wife, Mary Spottiswood and other family members, chiefly daughters Margaret, Mary, Helen, and Elizabeth, have been cataloged separately as BANC MSS 2003/229 c.

Formats represented include scrapbooks, correspondence, reports (both published and unpublished), notes and notebooks, maps, plans and drawings, specifications, contracts and agreements, minutes of meetings, legal and financial materials, print materials, clippings, and photographs. It should be noted that the collection is most likely incomplete: these are the files that survived a fire at the O'Shaughnessy Vallejo Street home in 1987. Although the records have been cleaned and flattened, and repaired as needed during processing, there still remains evidence of smoke and water damage.

**Subjects and Indexing Terms**

- Civil engineers--California
- Dam failures--California--Los Angeles County
- Dams--California
- Dams--Design and construction
- Flood control--California
- Irrigation--California
- Irrigation--Hawaii
- Irrigation engineering--California.
- Public works--California--San Francisco
- Street-railroads--California--San Francisco
- Water resources development--Law and legislation
- Water-supply--California
- Water-supply--California--Marin County
- Water-supply--California--San Diego
- Water-supply--California--San Francisco
- Hetch Hetchy Reservoir (Calif.)
- San Francisco (Calif.)--Water-supply
- Engineering drawings
- Maps
- Plans
- Photographs
Series 1: Consulting Engineer Files 1889-1933

Physical Description: Cartons 1-18; v. 1-23; Oversize Boxes 1-2; Oversize Folders 1-95; Tubes 1-30

Contents

When contacted by former clients for information relating to his early projects, O'Shaughnessy often claimed that all of his personal files perished in his office in San Francisco City Hall in the 1906 earthquake and fire. Clearly a significant amount from prior to April 18, 1906 survived, most likely because they were kept in files at his home in Mill Valley or in offices at projects located outside San Francisco. O'Shaughnessy continued to file correspondence and other information related to his early projects and on people connected to each project into the appropriate job file long after his own work on a particular project was completed. Much of the work he undertook was for established clients with interests in several locations.

Arrangement

Divided into 3 sub-series: General Correspondence and Office Files; Scrapbooks; and Job Files.

Subseries 1.1: General Correspondence and Office Files 1889-1912

Physical Description: Carton 1, folders 1-13

Contents

Contains an incomplete set of letterpress copybooks, a small amount of general correspondence, a ledger, and various memos and notes about the operation of O'Shaughnessy's consulting office. Projects referenced in letterbooks have been noted individually in the container list. General correspondence and office files have been assembled from stray documents found scattered throughout the collection.

Arrangement

Arranged chronologically.

carton 1, folder 1  "Letterbook No. 10" [No. 17], including: Tamalpais Land and Water Company; Millwood, Sausalito; Mill Valley; Paso Robles; San Mateo County; Durnham, Carrigan and Hayden Co. 1889-1890

carton 1, folder 2  "Letterbook No. 3," including: Paso Robles; Rosedale Raisin Vineyard; San Luis Obispo San Joaquin Railroad; Eureka Ranch; Fresno County 1891-1893

carton 1, folder 3  "Letterbook No. 4," including: Winslow; Shasta County: Iron Mountain Railroad and Balaklala Mine; Bonanza Mine; Eureka, Humboldt County; Paso Robles 1895-1897

carton 1, folder 4  "Letterbook No. 12," including: San Mateo; Tomasso Cresta Ranch; Pleasanton; Sunol; Montague; Honolulu; Wailaku; Kauai 1897-1900

carton 1, folder 5  Letterbook [kept by E. L. Cope], including: Barrett Dam; Southern California Mountain Water Company; Port Costa; Crocker-Huffman; Meloche, Raton; Mill Valley 1907-1910

carton 1, folder 6-7  General correspondence 1890-1912
carton 1, folder 8  Correspondence from Assistant, J. E. Pope 1896-1899
carton 1, folder 9  Correspondence from Associate, C. F. Nourse 1905 Jan.-May

carton 1, folder 10  Correspondence and statements from Vulcan Rock Co. 1907-1908

carton 1, folder 11  Financial ledger and notes 1887-1892

carton 1, folder 12-13  Advertisements and copyrights, office management, employees, insurance 1896-1908

Subseries 1_2: Scrapbooks 1891-1913

Physical Description: Carton 1, folders 14-17; v. 1-9; Oversize Box 1, folders 1-2; Oversize Folders 1-4

Contents

Consists of an incomplete set of scrapbooks, some numbered and some named, in which O'Shaughnessy pasted, and occasionally continued to file, original documents and clippings relating to his various projects. Some volumes are limited to one geographic area or topic, but many are labeled only "Private Scrapbook" and relate to a number of projects spanning several years. The contents of each volume have been noted, and generally complement the job files kept for each consulting project, as well as his work as San Francisco City Engineer.

Arrangement

Arranged chronologically.

carton 1, folder 14  "Scraps Book 2," including: Potrero Avenue; Market Street; Mill Valley; Santa Fe Railroad; Peninsula roadways; San Francisco railways ca. 1892

carton 1, folder 15  Loose items: Prospectus of the San Francisco and San Joaquin Valley Railroad [by the] Traffic Association of California; and Plat of Town’s Subdivision at Mowry’s Station, Alameda Co., Cal. 1893, n.d

volume 1  "Scraps Book 3," including: Paso Robles Road; waterworks; Mill Valley; mines; Market Street; railroads; surveys; sewers; Spring Valley Water Works; Arizona dam failure; real estate 1891

oversize 1, folder 1  Loose items: Township maps, San Luis Obispo [undated]

oversize 1 C  Loose item: Tamalpais Land Water Company, Map No. 5, showing Eastland and Millwood Lots, 1897 [1897]

volume 2  [Scrapbook], "General," including San Francisco streets, sewers, race tracks; San Joaquin Valley; Shasta County mines; San Mateo County; Mill Valley and Mt. Tamalpais; mines; railroads; power; Spreckels and Crocker families 1894-1902

General

[clippings mounted in unused stock certificate book of Pneumatic Supply Co., San Francisco]

oversize 2 B  Loose item: Map showing Lots No. 37, 38, 39, part of Rancho Soquel augmentation, Santa Clara Santa Cruz Counties 1897

oversize 1, folder 2  Loose item: Bill No. 297, published ordinance and specifications for street and sidewalk work, San Francisco 1901 Feb

volume 3  Private Scrapbook, "Hawaii," including: Hawaii; mines; San Francisco; Shasta and Trinity County mines and real estate; McCloud River; Sierra Railway; Marin County 1899-1905

volume 4  [Private Scrapbook], including: William Hammond Hall articles on Earthquake Fire, Hawaii; Marin County; Spring Valley Water Works; Clear Lake; San Francisco Water 1906 June

volume 5  Private Scrapbook, "San Francisco, Sept. 18, 1907," including: San Francisco Water; Spring Valley Water Works; Hetch Hetchy; Auxiliary Fire Protection System; San Diego; Southern Calif. Mountain Water Company; Oakland waterfront; Salt River Valley (Arizona); Los Angeles Aqueduct; Marin County; Mill Valley; Hawaii [1906-1910]
volume 6

Scrapbook [on Water], 1909-1910, including: Hawaii; Spring Valley Water Works; Hetch Hetchy; Oakland; Tevis Plans; Marin County; San Diego; South San Joaquin Irrigation District; Auxiliary Salt Water Fire System for San Francisco [1906]-1910

volume 7

Scrapbook, "Oil," including: Tamalpais Oil Company and several others operating in Bakersfield; oil lands in Calif.; water infiltration 1910-1913

carton 1, folder 16-17

Loose items: Correspondence, reports, printed material 1910-1913

oversize 3-4 B

Advertisements, prospectus, map 1910

volume 8

Scrapbook [on Water], including: Oakdale Irrigation District; South San Joaquin Irrigation District; Hawaii; Panama Pacific International Exposition (San Diego); Spreckels; Salt River Valley Water Users Association; Investments; rates [for] gas, lights and water; M.M.O'S. schedule of charges 1911-1912

volume 9

Private scrapbook, including: San Francisco Water, roads, San Diego, Hawaii, Spring Valley Water Company, Hetch Hetchy 1912-1913
Subseries 1_3: Job Files 1889-1933

Physical Description: Carton 1, folders 18-49; Cartons 2-18; v. 10-23; Tubes 1-30; Oversize Box 1, folders 3-30; Oversize Box 2, folders 1-15; Oversize Folders 5-95

Contents

Only a small amount of correspondence, reports, surveys, and maps remained to document consulting jobs during the years 1889 to 1899, when O’Shaughnessy began an extended series of irrigation projects in Hawaii. Those lasted until 1906, when he began work for the Southern California Mountain Water Company in San Diego. He usually worked on several projects simultaneously, and often completed several smaller projects in different locations during the course of a larger contract. O’Shaughnessy closed his general consulting office in September 1912, when he assumed the position of San Francisco City Engineer.

Scrapbooks, which provide a brief summary and overview for the larger consulting projects are filed first in Job Files. O’Shaughnessy sometimes marked these as his own “personal” or “private files,” but the term “scrapbooks” has been routinely substituted in the container listing to more consistently identify the many binders and portfolios assembled for most of his consulting jobs, beginning with Hawaii. Into these have been pasted or 3-hole-punched, pages of original correspondence, reports, notes, related supporting documentation, and clippings. These often supplement, but may also duplicate individual items such as letters and reports found elsewhere in Job Files.

O’Shaughnessy’s smaller projects are usually documented by only a small amount of correspondence, reports and notes, or possibly a drawing, plan or some maps. For these jobs—and following the scrapbooks from his larger or long-term projects—incoming and outgoing correspondence (filed chronologically) precedes any letterbooks that survived. Correspondence associated with individual job files is supplemented by that contained in letterbooks found in sub-series 1.1. Reports written by O’Shaughnessy are arranged chronologically and filed before those prepared by others that were retained for reference and consultation, followed by any relevant legal materials. Engineering notes found in a specific job file are included here, and are supplemented by the notebooks and notes found in Engineering Notes (sub-series 4.1).

Specifications, contracts, agreements, drawings, plans, and maps do not exist for every project. There may be some duplication between those filed flat in oversize folders and those rolled on tubes, due to the workflow of conservation cleaning needed for many of the drawings, plans and maps found in poor condition in the collection.

Financial materials are found for only a few projects, and include statements, reports, receipts, and payroll ledger sheets. O’Shaughnessy’s consulting engineer files conclude with print materials, including pamphlets, directly related to specific jobs and gathered in the course of his work, and newspaper clippings, usually concerning the progress or impact of each project.

Arrangement

Arranged chronologically, by initial date of consultation, and then by format in the following order: scrapbooks, correspondence, reports, notes, specifications, agreements, drawings and plans, maps, print materials, and clippings. Consulting Job Files are organized by project name—usually a location, property owner or name of company engaging his services, and the type of project. Folder headings as labeled or identified by O’Shaughnessy are used wherever possible. Since his folder notations were often cryptic, incomplete or missing altogether, information has been also supplied from evidence contained in the documents themselves. Within the Job Files is found the oldest document in the collection: an 1871 map of the Ranch Punta de Quentin, related to O’Shaughnessy’s work on a sewer system for the city of Larkspur, Marin County, California.

Santa Ysabel Hot Springs Land and Water Company

Print materials 1889

Map of subdivision of Santa Ysabel Rancho 1889 March

David Jacks Property, Monterey County, survey [1889 or 1890]
<table>
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<th>Carton Folder</th>
<th>Description</th>
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<td>1, 20</td>
<td>Tamalpais Land and Water Company, Mill Valley, Calif., street improvements and water supply reports Sept.-Oct 1890</td>
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<td>Tube 1</td>
<td>Sausalito Land and Ferry Co., map of lands 1889</td>
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<td>1, 21</td>
<td>Mt. Diablo, survey, reports 1891</td>
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<td>2</td>
<td>San Luis Obispo coal bunker inclined trestle, plans (1891-1893?)</td>
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<td>1, 22</td>
<td>Pleasanton Canal, Alameda Co. Report 1893 Agreement 1885</td>
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<td>1, 23-24</td>
<td>California Midwinter International Exposition, Branch Railroad, correspondence and specifications 1893-1894</td>
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<td>Children's Hospital, San Francisco, correspondence regarding survey for new addition 1895</td>
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<td>1, 26</td>
<td>City of San Mateo, survey for boundary line 1895</td>
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<td>1, 27</td>
<td>[Ocean View property owners vs. Pacific Coast Jockey Club], correspondence and petition 1895-1896</td>
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<td>1, 28</td>
<td>Iron Mountain Railway, Keswick, Shasta County - correspondence, notes, reports 1895-1899</td>
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<td>1, 29</td>
<td>P. F. Butler block, 13th Ave. J Street, survey 1896 Jan</td>
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<td>1, 30</td>
<td>Calvary Cemetery, San Francisco (Archbishop Riordan), masonry wall on Pt. Lobos Road - correspondence, agreement, specifications 1896</td>
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<td>1, 31</td>
<td>Greenbrae, [Calif.], road survey 1896 June Plans 1901</td>
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<td>1, 32</td>
<td>Academy of the Sacred Heart, Menlo Park - correspondence regarding survey, water supply 1896-1899</td>
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<td>1, 33</td>
<td>Holy Cross Cemetery, San Mateo Co. (Archbishop Riordan), correspondence, specifications regarding pumps 1896-1912</td>
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<td>1, 34</td>
<td>Holly Park Improvement Club, [San Francisco], proposal for sewer 1896 Nov</td>
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<td>1, 35</td>
<td>Wellman Estate Property, San Francisco, report 1897 Paulsen Hydraulic Mines, Trinity County Survey and report 1897 July-Aug</td>
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<td>1, 36-38</td>
<td>Map [undated]</td>
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<td>1, 39</td>
<td>Broken sewer, Army Street, San Francisco - report of inspection for George Nicholas 1897-1899</td>
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<td>1, 40</td>
<td>Humboldt and Trinity Toll Road Company - correspondence, reports 1897</td>
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<td>Mahoney Bros. Ranch, Santa Barbara, report 1897</td>
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<td>1, 42</td>
<td>Burlingame Park, San Mateo Co. - correspondence, survey, notes 1897-1898</td>
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<td>1, 43</td>
<td>Alexander Goldtree property, Merced, survey 1898 Jan Tobin, Martin Dimond property, San Francisco Survey 1898 Aug Map [undated]</td>
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<td>1, 44</td>
<td>Sausalito Water Supply (General John H. Dickinson) - correspondence, report 1899 Jan-Feb</td>
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- Kohala Ditch Company, Ltd. 1905-1906
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Leevining Creek Water Development Project, Mono County, Calif., (E. Pollitz Co., Col. J.F. Burgin)

Review of Proposition by N. C. Ray 1909-1910

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Bonnie Clare Mines, Nye County, Nevada, railroad survey and correspondence 1909
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Clear Lake Power and Irrigation Project, Lake County
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American Rolling Mill Co., Stark Rolling Mill Co. [1909-1910]
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Arizona Dam Design, Inspiration Copper Company, (W.H. Aldridge), correspondence 1911 March-April

Crocker Estate Company Moulton Irrigated Lands Co. Levees, Colusa
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Panama-Pacific International Exposition, San Francisco - statements regarding site selection 1911 April-June
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Report on engineering features of proposed water supply development...by A. R. Baker 1915 Nov
  Alpine Dam Studies by A. R. Baker 1916 March

Final report on engineering, Alpine Dam 1919 Jan
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<td>Water supply report 1916-1917</td>
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<td>Water Tank, Merced City Water Works Crocker-Huffman Land Water Co.</td>
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<td>City of Seattle (Washington)</td>
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<td>Correspondence 1918-1924</td>
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<td>Reports</td>
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<td>on Power Needs 1918 July</td>
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<td>on Sealing of the Cedar River Basin 1915-1918</td>
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<td>on Cedar River Project by Board of Engineers (Jacobs, Baldwin, Perin) 1912 May</td>
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<td>on Analysis of Flow of the Skagit River by B. H. Petley 1918 April</td>
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<td>Summary, Skagit River Project 1924</td>
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<td>Skagit River Plan 1918</td>
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<td>Maps, plans and drawings 1913-1917</td>
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<td>Specifications</td>
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<td>Standard Plans and Specifications of the City of Seattle, R. H. Thomson, City Engineer 1911 April</td>
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carton 14, folder 6 Cedar River Pipeline Replacement 1933
  Print Materials
    Biennial report of the lighting dept., Seattle 1914-1915
    USGS Water Supply Papers 313 419 1913-1916
    The Columbia Basin Reclamation Project by Willis T. Batcheller 1923
      March-April
      Maps [1918]
    Clippings 1918-1924
  Skagit River Project 1923-1924
  Lodi-Stockton Irrigation Project, Dry Creek, survey report 1918 Sept.-Nov
  Merced Irrigation District, (Crocker-Huffman Land Water Co., S. F. B. Morse)
    Correspondence 1919-1928
    Notes and clippings 1920-1922
    Map 1920
    Exchequer Dam
    Reports and print materials 1924-1926
      Includes photographs (supplementary): 6 prints
    Contracts, specifications and drawings 1924
    Plans and drawings 1924
    Detroit (Michigan) Street Railway System
      Correspondence 1919-1929
      Report 1919 Feb
      Notes [1919?]
    Maps, plans and drawings ca. 1919
    Map, plans and drawings ca. 1919
    Print materials 1920-1932
    Clippings 1919-1932
    Miscellaneous 1920, n.d
    Public Ownership League, Chicago, Illinois, Street Railway System,
      correspondence 1919 Feb.-March
    San Joaquin Light Power Corporation, Fresno, Calif. (B. F. Jackson), study of dam
      design
      Correspondence, article 1919-1920
      Maps, plans and drawings n.d
      Print materials: annual report 1912
    Snow Mountain Dam, Lake County (Snow Mountain Water Power Company vs. W.
      A. Kraner), testimony as expert witness
      Scrapbook, including notes and report 1919-1922
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<td>Maps, plans and drawings n.d.</td>
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<td>Appellant's points and authorities, reply brief, petition for rehearing, Case S.F. No. 10,221 1922-1923</td>
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<td>Tacoma Street Railways System, Tacoma, Washington</td>
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<td>14</td>
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<td>Report 1920 Feb</td>
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<td>14</td>
<td>37</td>
<td>Print materials</td>
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<td>14</td>
<td>38-40</td>
<td>Lighting and tax rate schedules 1919</td>
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<td>Map and train schedules 1918-1920</td>
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<td>Clippings 1921 Feb</td>
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<td>Correspondence, notes 1920 Nov., n.d</td>
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<td>14</td>
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<td>Notes 1920</td>
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<td>Bowman Dam, Nevada Irrigation District, Nevada County</td>
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<td>Scrapbook 1921</td>
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<td>Includes photographs (supplementary): 9 prints; (duplicate): 12 prints</td>
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<td>Reports</td>
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<td>14</td>
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<td>To F. H. Fowler, District Engineer, U.S. Forest Service, and H. A. Kluegel, Chief, Div. of Water Rights, Calif. Dept. of Public Works 1922 April</td>
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<td>Bowman-Spaulding Conduit, Check of Flume substructure 1926 Nov</td>
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<td>Inspection trips 1926-1927</td>
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<td>Contracts, specifications and proposals 1925 June</td>
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<td>Contracts, specifications and proposals 1926</td>
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<td>Clippings 1925-1927</td>
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<td>Reservoir for seminary near Los Altos, plans 1922-1923</td>
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<td>Petaluma Municipal Water District, gravity water supply</td>
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<td>12</td>
<td>Correspondence 1922-1924</td>
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<td>15</td>
<td>13</td>
<td>Contract 1922</td>
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<td>Brownshasta Farm, Sisson, Calif. (Caleb Ellison), study of plan for proposed dam and outlet pipe 1922 Aug</td>
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<td>15</td>
<td>15</td>
<td>Municipal Water District, Bakersfield, Calif., (Charles K. Badger)</td>
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<td>16</td>
<td>Correspondence 1923 July</td>
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<tr>
<td>15</td>
<td>17</td>
<td>Map [after 1917]</td>
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</tbody>
</table>
College of St. Joseph of Cupertino, near Mountain View

- Plans for sewer system 1923 July

Dix Dam, Kentucky, (Kentucky Hydro-electronic Co. Middlewest Utilities Co.)

- Scrapbook, including survey of Strawberry Dam, 1917-1923 1923 Aug.-1925
  - Includes photographs (supplementary): 30 prints

Correspondence 1925-1933

- Includes photographs (supplementary): 18 prints

Report on the Proposed Dix River Power Project Near High Bridge, Kentucky by L. F. Harza [1923]

- Includes photographs (supplementary): 6 prints

Notes [1925?-1928]

- Maps, plans and drawings n.d
- Print materials 1908-1925

Clippings 1925

Bay Street Reservoir, Santa Cruz, clippings 1923-1924

City of Stockton, Calaveras River Flood Control, (Frank J. Solinsky, Attorney), witness in reservoir condemnation cases

- Correspondence and notes 1924-1929

- Map and drawings n.d
- Engineering notes and print materials 1924-1929

Waterfront Development (Portland, Oregon)

- Scrapbook, bulkhead wall 1928-1931
  - General
    - Folder 17 includes photographs (supplementary): 2 prints; (duplicate): 18 prints (2 sets)
    - Folder 18 includes photographs (supplementary): 22 prints (2 sets), + 7 prints

Correspondence 1924-1932

- Reports
  - by Staniford, O'Shaughnessy Stevens, on the first unit of the proposed waterfront development 1924 Nov
- Clearances for Fixed Bridges Over Fairways of Ocean Ports by James H. Polhemus, The Port of Portland 1926
- Maps, plans and drawings n.d
- Progress plans 1928
- Plans, specifications and preliminary estimate for sewer construction 1925-1927
  - Computations for design of bulkhead wall for the Front Street sewer 1927 April
- Print materials
  - The Oregon System of Water Titles; 1912 April
  - Annual reports 1923, 1928
- Clippings 1924-1927
City of Santa Barbara, earthquake study visit
Correspondence and notes 1925 July
Report 1925 July
Includes photographs (duplicate): 24 prints (2 sets)

Print materials
The Santa Barbara Earthquake of June 29, 1925...by Arthur Alvarez 1925 Nov

Articles and clippings 1925-1934
Santa Barbara earthquake fault map and notes n.d

Carquinez Bridge Foundation Piers, Crockett, (George M. Rolph and California Hawaiian Sugar Refining Corp.)
Correspondence 1926-1928
Reports on foundations, drawings and extracts 1926 July
Proposals for fender protection scheme 1927
Notes 1926-1927
Plans and specifications 1924-1925
Plans and progress charts 1926-1927
Matson Navigation Company and California Hawaiian Sugar Refining Corporation vs. The American Toll Bridge Co., testimony of M. M. O'Shaughnessy 1927 May
Print materials 1927-1928
Clippings 1927
Feather River Canyon earthquake hazards study (Board of Fire Underwriters of the Pacific), report 1926-1927
Seneca Consolidated Gold Mines vs. Great Western Power Company (Warren Olney, Jr.), correspondence relating to court testimony 1927 June
Camp Far West Irrigation District, Chico, plans for dam, correspondence [1927]-1928 June
St. Mary's College, Moraga, plans for dam 1927-1929
Salt River Valley Water Users Association (Phoenix, Arizona), W. A. Kraner, Contract Engineer, and C.C. Cragin, Chief Engineer
Correspondence 1927-1930
Report, Developing Hydroelectric Power on Upper Salt River by W. A. Kraner 1927 Nov
Specifications and proposals, with map, Reclamation Service, U.S.G.S. 1904-1915
Los Angeles Aqueduct, St. Francis Dam Failure
 Scrapbook 1928 March-Aug
Includes photographs (supplementary): 38 prints and 2 negatives
Correspondence 1928 March-May
Reports
Los Angeles Aqueduct, People's Aqueduct Investigation Board, report on trip... Owens River aqueduct 1912 June
Includes photographs (supplementary): 80 prints
carton 16, folder 21

Report, v. 3-4 by Chester Loomis E. E. Shaffer 1912 Aug
	Includes photographs (supplementary?): 23 prints

volume 21
Published version of report (newsprint) 1912

Complete Report on Construction of the Los Angeles Aqueduct, Dept. of Public Service, City of Los Angeles, with plans 1916

General
[2 copies: variant notes and annotations]

Notes

Inspection trips 1927-1928

Copies of correspondence between L. S. Preston, Tunnel Superintendent and Wm. Mulholland, Chief Engineer, including "Record of L. S. Preston" 1909
On construction work by O. E. Clemens 1914 May

Specifications 1908

Print materials

Annual Report of the Los Angeles Aqueduct by Wm. Mulholland 1907

The Municipal Water Supply of Los Angeles by William Mulholland, reprint from Pacific Municipalities; and 1911-1913

Fluctuations from the Normal Temperature And Precipitation at Los Angeles... 1913

Pictorial History of the Aqueduct Times-Mirror Printing Binding House, for the Sixteenth Annual Convention of the League of California Municipalities, Venice, Calif., Oct. 6-11, 1913 1913

Proceedings, San Francisco Section, American Society of Civil Engineers; and 1928 June


Clippings 1908-1932

Clippings on construction 1908

Juncal Dam (Montecito County Water District), Santa Barbara

Scrapbook 1928

Includes photographs (supplementary): 16 prints

Scrapbook 1929 Jan.-June

Includes photographs (supplementary): 28 prints (2 sets) and 14 negatives; (duplicate): 8 prints; (supplementary ?): 2 prints

Scrapbook 1929 July-Dec

Includes photographs (supplementary): 12 prints; (supplementary ?): 4 prints (duplicate): 6 prints

Scrapbook 1930

Includes photographs (supplementary): 10 prints; (duplicate): 2 prints

Correspondence 1928-1934

Includes photographs, (supplementary): 6 prints; (duplicate): 6 prints

Reports
Finding Aid to the M.M. (Michael Maurice) O’Shaughnessy papers

BANC MSS 92/808 c  30

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<th>Juncal Arch Dam Design Stress Analysis Trial, Section J9 1929 March</th>
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<td>Main Juncal Damsite, North Abutment Ridge and Main Dam by Bailey Willis 1928 June</td>
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<td>Maps, plans and drawings n.d</td>
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<td>tube 30</td>
<td>Buell Reservoir Dam 1926</td>
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<td>Print materials relating to geology and rainfall 1930-1931</td>
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<td>carton 17, folder 9</td>
<td>Clippings 1928-1930</td>
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<td>Minnesota/Winnipeg River Land Valuation Case, (C.E. Berkman, Attorney) Correspondence 1929 Sept</td>
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<td>Report, J. T. Johnston, Winnipeg River Power and Storage Investigation 1915</td>
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<td>Print materials, Greater Winnipeg Water District - Aqueduct Construction Scheme; What It Is, What It Means 1918</td>
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<td>City of San Diego, El Capitan Dam</td>
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<td>Scrapbooks</td>
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<td>Controversy in San Diego Calif. over El Capitan and Mission Gorge Dams 1930-1931</td>
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<td>Controversy over El Capitan Dam 1933 May</td>
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<td>Includes photographs (supplementary): 23 prints</td>
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<td>carton 17, folder 17</td>
<td>Correspondence and clippings 1933-1934</td>
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<td>Includes photographs, (supplementary): 6 prints; (duplicate): 1 print</td>
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<td>Report, Geological and Engineering report on Proposed dam site by Marx and Tolman 1931</td>
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<td>Transcripts of Hearing, Office of the Mayor 1933 May</td>
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<td>Specifications 1932</td>
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<td>carton 17, folder 22</td>
<td>Clippings</td>
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<td>Scrapbook, San Diego wins decision...to start El Capitan Dam 1930 March</td>
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<td>Scrapbook on El Capitan Dam Site, with index 1931 Feb.-Aug</td>
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<td>carton 18, folder 2-6</td>
<td>Scrapbook on Controversy in San Diego Calif. over El Capitan and Mission Gorge 1931 Aug.-Oct</td>
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<td>carton 18, folder 7</td>
<td>Scrapbook on...Water Supply--El Capitan 1931-1933</td>
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<td>Scrapbook on San Diego 1934</td>
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<td>Gier Vineyard and Ranch Property, Napa (Brothers of the Christian Schools) - correspondence and report of survey 1930 May</td>
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<td>Water Supply Conditions for City of Santa Barbara, Citizen’s Water Committee</td>
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<td>Correspondence 1931-1933</td>
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<td>carton 18, folder 11</td>
<td>By M. M. O’S. 1931 March</td>
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<td>Includes photographs (2 sets), (duplicates in BANC PIC): 40 prints</td>
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Oversize 91 C
Carton 18, folder 12
Carton 18, folder 13
Carton 18, folder 14
Carton 18, folder 15
Carton 18, folder 16
Oversize 92 C-93 C

Carton 18, folder 17
Carton 18, folder 18
Carton 18, folder 19
Carton 18, folder 20
Carton 18, folder 21
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Carton 18, folder 23
Carton 18, folder 24
Oversize 94 B
Carton 18, folder 25
Carton 18, folder 26
Carton 18, folder 27
Carton 18, folder 28
Oversize 95 B

Plans 1931
A.E. Sedgwick, Geology and Hydrology - Santa Barbara and Vicinity 1930
May
Quinton, Code and Hill—Leeds and Barnard, Santa Barbara Financial Program for Water Development 1930 Sept
Notes [ca. 1931, n.d.]

Agreement 1931 Feb

Specifications, Gibraltar Dam and Accessories 1918

Plans - Gibraltar Dam and Mission Ridge Reservoir [1931], n.d

Print materials
Water Problems of Santa Barbara, Calif., by J. B. Lippincott 1905

Geology of...Santa Ynez River... by William S.W. Kew Richard N. Nelson 1919-1925

Clippings 1931 April-Oct

Nevada Irrigation District, Grass Valley, Dr. Carl Power Jones
Correspondence 1932 June-1933

Reports
Water Supply for Sacramento by Fred H. Tibbetts 1929 July

Financial Plan 1931

Notes and clippings 1932-1933

Lloyd Park, Atherton, San Mateo County, (J. B. Coryell)
Correspondence, report notes concerning condition of pavement sidewalks 1932 July-Aug
Includes photographs (supplementary): 11 prints

Plot plans n.d
St. Joseph's Orphan Asylum, San Francisco, report on drinking water supply 1932 Dec
Melone Ranch, Napa County, Water Resources Study
Correspondence, report, notes 1932 Dec.-1933
Print materials 1926-1932

La Honda Road Survey (San Mateo County)
Correspondence, notes, and related materials 1933 Jan.-Feb
Includes photographs (supplementary?): 1 print

Plans 1932
Series 2: San Francisco City Engineer / Public Utilities Commission Consulting Engineer Files 1909-1935

Physical Description: 45.65 linear feet; 25 cartons, 16 boxes, 18 volumes, 2 oversize boxes, 39 oversize folders, 20 tubes

Physical Description: Cartons 19-43; Boxes 1-16; v. 24-41; Oversize Boxes 3-4; Oversize Folders 96-135; Tubes 31-51

Contents

Consists of O'Shaughnessy's own "private" or "personal" files documenting his career as City Engineer, particularly his role in the growth and improvement of San Francisco's transportation, water supply, and power systems, as well as his last two years spent as Consulting Engineer for Hetch Hetchy Water Supply. He continued to correspond with many of the businessmen, public officials, and engineers with whom he'd worked in his private consulting practice, and collected reports and related materials from cities with similar situations and facing similar problems as San Francisco.

While these files are clearly not the official records of the City Engineer's office, and thus provide only minimal evidence of the routine operation of the department, they thoroughly illustrate the public relations component of the position and O'Shaughnessy's continued efforts to gain sustained support for city improvement projects.

Arrangement

Divided into 4 sub-series: General Correspondence, Administrative Files, Public Relations, and Project Files.

Subseries 2_1: General Correspondence 1912-1934

Physical Description: Boxes 1-12; Oversize Box 3, folders 1-4

Contents

Consists of O'Shaughnessy's personal copies of letters to and from business and social acquaintances, contacts and peers in city government, and elected and appointed officials throughout California, as well as his engineering colleagues and the general public. Correspondence directly relating to the completion of a specific project is filed with the project. Correspondence relating to arrangements for appearances and speeches, publication of articles, or in connection with his activities in several professional engineering organizations has been filed with the appropriate series or sub-series. The sub-series concludes with O'Shaughnessy's address books and Christmas card lists.

O'Shaughnessy's general correspondence "chron files" contain letters relating to topics well beyond his role as City Engineer, and include some of his most revealing and candid remarks and opinions about politics, city planning, and public works projects of the early 20th century. His lengthy explanations of his various engineering projects provide detailed information not necessarily found in the related job files. Includes letters of substance from other well-know engineers, such as Arthur S. Tuttle, William Mulholland, Joseph B. Strauss, and Robert Ridgway, along with documentation of O'Shaughnessy's ideas about the growth of San Francisco, and evidence of his longtime involvement with Marin County, California water supply issues.

Arrangement

Arranged chronologically.

Letters to and from M. M. O'Shaughnessy 1912-1914 Feb
Letters to and from M. M. O'Shaughnessy 1914 March-1915 June
Letters to and from M. M. O'Shaughnessy 1915 July-Dec
  Letter from J. A. Shaw, City of Manila, Sewer and Water Works 1915 Aug. 17

Letters to and from M. M. O'Shaughnessy 1916-1917
  Clippings from letter of July 25, 1917, from Fresno City Planning Commission 1917
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<td>Letters to and from M. M. O'Shaughnessy 1918-1919</td>
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<tr>
<td>box 6, folder 1-8</td>
<td>Letters to and from M. M. O'Shaughnessy 1920-1921</td>
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<td>General</td>
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<td>Letter of Aug. 26, 1920 includes photographs (supplementary): 3 prints of outlet conduits of dams near Dayton, Ohio</td>
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<td>Letter of March 21, 1921 includes photographs (supplementary): 1 print of Sam M. Nichols</td>
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<td>oversize 3, folder 2</td>
<td>Clippings from letter of Sept. 19, 1921, from J. A. L. Waddell 1921</td>
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<td>box 7, folder 1-8</td>
<td>Letters to and from M. M. O'Shaughnessy 1922-1923 June</td>
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<td>Letter of June 15, 1923 includes photographs (supplementary): 10 prints of Hetch Hetchy</td>
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<td>box 8, folder 1-9</td>
<td>Letters to and from M. M. O'Shaughnessy 1923 July-1924</td>
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<td></td>
<td>Letter of Nov. 7, 1924 includes photographs (supplementary): 3 prints, Gem Lake Dam</td>
</tr>
<tr>
<td></td>
<td>Letter of Nov. 20, 1924 includes photographs (supplementary): 2 prints of Pavana Dam, Italy</td>
</tr>
<tr>
<td>oversize 3, folder 3</td>
<td>Maps, plans, and drawings from letters of Jan. 9, 1922: Sutter Basin Co., George F. Maddock; Sept. 27, 1922: City of Norfolk, VA, Dept. of Public Works; March 24, 1924, Office of the Mayor, San Francisco 1922-1924</td>
</tr>
<tr>
<td>box 9, folder 1-8</td>
<td>Letters to and from M. M. O'Shaughnessy 1925-1927</td>
</tr>
<tr>
<td></td>
<td>General</td>
</tr>
<tr>
<td></td>
<td>Letter, ca. March 26, 1925 includes photographs (supplementary): 3 prints of concrete mixers</td>
</tr>
<tr>
<td></td>
<td>Letter of August 4, 1926 includes photographs (supplementary): 6 prints of Hetch Hetchy</td>
</tr>
<tr>
<td>oversize 3, folder 4</td>
<td>Plans and drawings from letters of Nov. 17, 1924, Office of the Mayor, San Francisco, attaching letter and sketch of plans by William P. Callaghan for proposed Bay Bridge; [ca. March 26, 1925], George Sexton, profiles of valves 1924-1925</td>
</tr>
<tr>
<td>box 10, folder 1-8</td>
<td>Letters to and from M. M. O'Shaughnessy 1928-1929</td>
</tr>
<tr>
<td></td>
<td>General</td>
</tr>
<tr>
<td></td>
<td>Letter of Dec. 13, 1928 includes photographs (supplementary): 1 print, Herbert Hoover with surveying squad, Stanford University, 1893</td>
</tr>
<tr>
<td>box 11, folder 1-9</td>
<td>Letters to and from M. M. O'Shaughnessy 1930-1932</td>
</tr>
<tr>
<td>oversize 3, folder 4</td>
<td>Plans and drawings from letter of June 8, 1932, to Cyril Tobin, Hibernia Savings Loan Society 1932</td>
</tr>
<tr>
<td>box 12, folder 1-4</td>
<td>Letters to and from M. M. O'Shaughnessy 1933-1934</td>
</tr>
<tr>
<td>box 12, folder 5-6</td>
<td>Address books 1915-1934</td>
</tr>
<tr>
<td>box 12, folder 7</td>
<td>Christmas card lists 1917-1927</td>
</tr>
</tbody>
</table>
Subseries 2_2: Administrative Files 1909-1935

Physical Description: Box 13; Cartons 19-33; v. 24-35; Tubes 31-44; Oversize Box 3, folders 5-20; Oversize Folders 96-109

Contents
Consists of materials either created or collected by O'Shaughnessy, used in the course of his administration of the Engineering Department, and later kept as part of his own private files.

Arrangement
Administrative Files have been further divided into Daily Appointment Diaries, General Office Files, Purchase of Spring Valley Water Company, and Committees.

2_2_1: Daily Appointment Diaries 1911-1933

Physical Description: Box 13; Cartons 19-23

Contents
Three bound volumes of cumulative diaries precede the daily appointment diaries O'Shaughnessy kept for each year. The bound volumes contain typed agendas that record meetings and calls, and also include handwritten notes; the yearly appointment diaries also contain clippings, notes, and pasted-in correspondence, which may supplement or duplicate letters found in General Correspondence, and Job or Project Files. There is no daily diary for 1929.

Arrangement
Arranged chronologically.

Daily appointment diaries (bound, cumulative) 1912-1928
Daily appointment diaries 1911-1918

Daily appointment diaries 1919-1923

Daily appointment diaries 1924-1926

Daily appointment diaries 1927-1928; 1930

Daily appointment diaries 1931-1933
Includes photographs (supplementary): 2 prints, dedication of Newark-San Lorenzo Pipe Line, Feb. 23, 1931; and 1 print, Muir Woods, March 21, 1933, with M.M.O'S., Eugene Heald, Ed Sneider

2_2_2: General Office Files 1912-1934

Physical Description: Cartons 24-28; v. 24-30; Tubes 31-42; Oversize Box 3, folders 5-11; Oversize Folders 96-105

Contents
Contains documentation and clippings about O'Shaughnessy's appointment as City Engineer, along with his private files relating to administration and work of the Engineering Dept., various municipal projects, travel, and related topics, such as bond elections and public controversies about city planning and San Francisco's water supply system. Includes scrapbooks, official publications and reports, notes, and correspondence, particularly from the Mayor's Office and Board of Supervisors, along with copies of legal case proceedings and opinions, financial reports, and clippings.

Arrangement
Arranged hierarchically.

Official bond, announcement of appointment 1912 Sept
Clippings regarding appointment 1912

Business cards, promotional blotters [1912-1934]
Finding Aid to the M.M. (Michael Maurice) O'Shaughnessy papers
Plan of...Proposed Street Changes in the...Burned District and Other Sections of San Francisco, Joint report of Committee on Extending, Widening and Grading Streets and Committee on Burnham Plans, Subcommittee of Committee of Forty, on the Reconstruction of San Francisco 1906 May Marsden Manson to the Mayor and Committee on Reconstruction on...Portions of the Burnham Plan....and Estimate of Cost; on Auxiliary Water Supply System for Fire Protection 1906 Oct., 1908 March

On Water Supply of San Francisco, 1900 to 1908 1908

On City of San Francisco...by National Board of Fire Underwriters, Committee of Twenty 1905 Oct

On City of San Francisco, National Board of Fire Underwriters, Committee on Fire Prevention 1910-1932

On High Pressure Fire Protection System for the City of Berkeley, J. J. Jessup, City Engineer 1913 May

On Vitrified Paving Brick by James M. Owens 1913 April

On Los Angeles Aqueduct Development and Power House Inspection by R. P. McIntosh 1919 Sept

On "Shannon" hydro-electric project, Deer Creek, Tehama County 1928 May

Audit, City of Los Angeles, Bureau of Power Light 1923-1926

General Industrial Conditions, San Francisco by Industrial Dept., S.F. Chamber of Commerce 1925 March 28

Plans for the Development of the Port of Alameda 1926

Bear Gulch Water Company, Hydraulic Div., excerpts and appraisal, H. A. Noble 1928-1929

Foundation Conditions, proposed Sunnyvale U.S. Dirigible Site, includes photographs (supplementary): 5 prints 1930

Urgent Importance of Taking Immediate Steps to Provide Airports for San Francisco by Charles Hobart Baldwin 1932

Earthquake Faults, City of San Francisco by Bailey Willis, Stanford University 1934

Annual Reports of the Park Commissioners 1910-1912, 1924

S.F. Playground Commission report 1923-1924

San Francisco, general information 1910s-1920s

Notes on projects 1916-1928, n.d

City projects 1910s-1920s

Maps 1924-1927

Panama Pacific International Exposition

Correspondence, clippings, print materials 1915

Exposition Preservation League 1916-1917

California Conference on City Planning 1915-1923

City planning 1916-1933

Articles, Los Angeles Times, Annual Midwinter Number 1921 Dec. 29

"The San Francisco Program" by Dr. B. M. Rastall 1921 April

Joint Committee of San Francisco Chamber of Commerce and Central Bureau of San Francisco Organizations, correspondence relating to Rastall's proposal 1921 Feb.-June
Finding Aid to the M.M. (Michael Maurice) O'Shaughnessy papers
carton 27, folder 1  Correspondence 1917-1919
  Demand, application for mandate, answers, hearing regarding request for
  Hetch Hetchy data, M. M. O'Shaughnessy's statements, background
  research, and testimony 1917-1918

print materials and clippings 1917-1918

San Francisco Bureau of Governmental Research - notes n.d
California State Irrigation Association, Col. R. B. Marshall [regarding the
"Marshall Plan"] 1920-1921
California Water and Power Act 1922

Water power 1914-1920s

U.S. Forest Service, rights of way, water power, power lines 1907-1918

Water rights and valuation 1912-1934

Water rates n.d
Water rates in various cities n.d

San Jose water supply 1913-1934

San Jose Water Works, addition to Cambrian Reservoir 1921

Turlock and Modesto Irrigation Districts 1921-1926

legal cases

Tulare Irrigation District, et al. vs. Lindsay-Strathmore Irrigation District;
and, Lindsay-Strathmore Irrigation District vs. Consolidated Peoples Ditch
Company and Elk Bayou Ditch Company, Points and Authorities 1923

Opinion of Judge in Miller Lux vs. Madera Irrigation District; and, San Joaquin
and Kings River Canal Irrigation Company vs. Madera Irrigation District 1932

Hetch Hetchy Bond Issues 1918-1932

Chart of construction progress for publicity 1931

Working notes 1912-1926

Travel

European trip, includes photographs (supplementary): 4 prints 1925 July-Oct

West Coast excursions 1925-1930

Panama Canal 1930 Dec

Western Pacific Railroad excursion, Northern California extension to Bieber
1931 Nov. 10

Elections 1915-1933

Civil Service Commission 1916-1926

Bureau of Engineering payroll, roster, list of jobs and requirements, salaries
1916-1934, n.d

County engineer proposal 1917

International Federation of Technical Engineers', Architects' and Draftmen's
Unions, Local No. 11 1926 March

San Francisco City Employees' Retirement System, Relief Fund 1924-1933

Finances 1915-1931
2.2.3: Purchase of Spring Valley Water Company 1909-1935

Physical Description: Cartons 29-32; v. 31-35; Oversize Box 3, folders 12-17;
Oversize Folders 106-108

Contents
Consists of O'Shaughnessy's scrapbooks, correspondence and notes, as well as reports and reference materials acquired, including court decisions, rate cases, and a mostly complete set of valuation reports and exhibits. Some of these materials predate his appointment as City Engineer. Includes printed materials relating to the history of the Spring Valley Water Company, and clippings concerning its acquisition by the City of San Francisco.

Arrangement
Arranged by format.

Scrapbooks
- Offer to Purchase S.V.W.Co. 1912-1914
- Statistics for S.V.W.Co. 1913-1921
- Calaveras Dam 1913-1916
- Campaign for Spring Valley Purchase, April 1915 1914-1915
- Purchase of S.V.W.Co. 1914-1915
- Spring Valley Purchase Campaign 1921
- [Water supply] ca. 1924-1932
- Uhl, re Hetch Hetchy and Spring Valley - correspondence and debates with Adolph Uhl, President of City Efficiency League 1927 July
- Correspondence 1913-1929
- M. M. O'S., prior to appointment as City Engineer 1909-1910
- "Complaints, resolutions, etc., as to inadequacy of S.V.W.Co. supply" 1915
- Calaveras Dam, including replies to inquiries of Adolph Uhl in letter of Feb. 17, 1915 1913-1928

Reports
- Calaveras Dam 1916-1932
- Map and drawing 1910-1933
- Construction plans 1913-1914
- Plans 1917
- Properties and Works of the Spring Valley Water Company, now in use supplying water to the ...City and County of San Francisco 1908 Jan. 1
- Properties and Works of the Spring Valley Water Company 1910 Jan
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>oversize 3, folder 14</td>
<td>List of exhibits [1901]</td>
</tr>
<tr>
<td>volume 32</td>
<td>Includes photographs (supplementary): 19 prints</td>
</tr>
<tr>
<td>carton 29, folder 22</td>
<td>The Future Water Supply of San Francisco; a Report to the ... Secretary of the Interior and The Advisory Board of Engineers of the U.S. Army by the Spring Valley Water Company 1912 Oct</td>
</tr>
<tr>
<td>oversize 107 C</td>
<td>Valuation of Properties..., Comparison of Judge Farrington's Valuation in the Rate Suit of 1903 with the Advisory Water Committee's Valuation of 1914 (#18 a) 1915 Feb. 16</td>
</tr>
<tr>
<td>carton 29, folder 23</td>
<td>Composite Profile, S.V.W.Co.'s System (#18b); Lake Merced Tract (#18 c) 1913 Dec.; 1913 Oct.-Nov</td>
</tr>
<tr>
<td>carton 29, folder 25</td>
<td>Notes on S.V.W.Co.'s System, Particularly Alameda Creek by M. J. Bartell (#18 e); 1913 Feb.; Progress Report, Hydrography of the Livermore Valley by M. J. Bartell (#18 f) 1913 April</td>
</tr>
<tr>
<td>carton 29, folder 26</td>
<td>Livermore Valley Well Measurements, 1911 to 1914, accompanying Report on Underground Water Supply of Livermore Valley, California by M. J. Bartell (#18 g) 1914 May</td>
</tr>
<tr>
<td>carton 29, folder 28</td>
<td>Water Yield of Calaveras Creek Drainage Area by M. J. Bartell (#18 j); 1914 July; Irrigating Plants on S.V.W.Co.'s Tract Near Pleasanton by M. J. Bartell (#18 k) 1914 July</td>
</tr>
<tr>
<td>oversize 107 C</td>
<td>Graphic Diagram, Levels Conduit Lines into San Francisco, S.V.W.Co. (#18 l) 1913 Dec</td>
</tr>
<tr>
<td>carton 29, folder 29</td>
<td>Analysis of Waters, S.F. Peninsular Supplies, by M. J. Bartell (#18 n); 1913 Nov.; Ground-Water Resources of the Niles Cone and Adjacent Areas, California, by W. O. Clark, U.S.G.S. (#18 o); 1915; Soil Survey of the Livermore Area, California, by H. L. Westover and Cornelius Van Duyne, U.S.D.A. (#18 p) 1911</td>
</tr>
<tr>
<td>working notes</td>
<td>Site inspection of Spring Valley Properties with Mayor James Rolph, Jr. and Matt Sullivan, Attorney 1913 March 28</td>
</tr>
<tr>
<td>carton 30, folder 1</td>
<td>Valuation ca. 1909-1915</td>
</tr>
<tr>
<td>carton 30, folder 2</td>
<td>Maps of properties n.d</td>
</tr>
<tr>
<td>oversize 3, folder 15</td>
<td>Map of properties, plans for distribution system 1913</td>
</tr>
<tr>
<td>oversize 108 C</td>
<td>Purchase 1914-1921, n.d</td>
</tr>
<tr>
<td>carton 30, folder 3</td>
<td>Proposal to purchase, voter information packet 1921</td>
</tr>
<tr>
<td>carton 30, folder 4</td>
<td>Court decisions</td>
</tr>
</tbody>
</table>
carton 30, folder 5  Alameda County Water District v. S.V.W.Co., typed transcript of deposition of M. M. O'S. 1915 Dec. 3
   General
   Includes report of inspection of Calaveras Dam, Sept. 12, 1916, with Geo. Elliott

carton 30, folder 6  Contra Costa Water Company vs. City of Oakland, Depreciation, Direct
   Testimony of J. H. Dockweiler, Consulting Engineer 1913 April

carton 30, folder 7  Pennsylvania Water Company Fair Rates Case, Decision of Judge Miller 1912
   July

carton 30, folder 8  City of Des Moines vs. Des Moines Water Company
   Testimony of Leonard Metcalf in the matter of Condemnation Proceedings 1913 July

carton 30, folder 9  Extracts from Documents 1912 Sept

/carton 30, folder 10  Rate Cases, 1907-1914, S.V.W.Co. vs. City and County of San Francisco, District
   Court of the United States, Northern District, Second Division, before Honorable H. M. Wright - Bills in Equity 1908

Oral Arguments
   Robert M. Searls for Defendants; and Edward J. McCutchen, Warren Olney, Jr., and A. Crawford Greene, for Complainants 1916

Abstract of Testimony regarding Lands 1916

Abstract of Testimony regarding Concrete, Earth Dams, Flumes, Pipe 1916

Abstract of Testimony regarding Brickwork, Concrete, Financial, Flumes,
   Land, Pipe, Reservoir Values, Tunnels, Earth Dams 1916

Abstract of Testimony regarding Buildings, Financial, Lands, Original Costs,
   Rights of Way, Water Rights, Rating Base, Reservoir Values 1916

Abstract of Testimony, General Index 1916

Report of H. M. Wright 1917 Oct

M.M.O’S.'s annotated copy 1917 Oct

Valuation by N. Randall Ellis, Valuation Engineer

Miscellaneous notes and memoranda, including: W. B. Lawrence, C. E.
   with index 1915-1916

Rate suit, list of exhibits and miscellaneous correspondence 1916

Exhibit 9: Plans of some important structures, excluding distribution pipe
   system 1913

Exhibit 11: Inventory of structures and lands of the S.V.W.Co. 1913

Exhibit 12: Normal capacities of plant, population, vital statistics, water
   consumption, pumping stations, equipment, assessed valuation 1913

Exhibits 92, 94, 97, 98, 100, 102-109, 109a, 111-114, 116-120, including:
   1915-1916

Value of Lake Merced lands in San Francisco and San Mateo Counties,
   1913, and Appraisal of land....in condemnation suit by Philip P. Paschel;
   Summary of Hazen's appraisal;
   Exhibits filed in case;
   Analysis of ...cost...riveted pipe by W. B. Lawrence; Dockweiler's analysis;
   Estimated reproduction cost of earthen dams and flumes by F. C.
   Herrmann;
   Memorandum regarding concrete, brick work, and excavation, including
   Crystal Spring Dam by Allen Hazen;
   Crystal Springs Dam, Dec. 1913, by J. B. Lippincott; City exhibits [by]
   Dillman, Dockweiler, Newman;
   Estimate, W. A. Bechtel, motor truck hauling to Crystal Springs Dam,
   testimony;
   Summary of costs, drum development, P.G. E.;
   Original cost and reproduction (1913), submerged pipelines by D.
   Dorward;
carton 31, folder 9
- Flumes by J. H. Dockweiler
- Exhibit 121: Appraisal of structural properties, analysis of riveted wrought iron pipe outside system by J. H. Dockweiler 1913

Exhibit 122-124BB, 131-140, including: 1914-1916
- Rights of way appraisal by F. A. Radle;
- Miscellaneous cost data by W. B. Lawrence;
- Financial exhibits by F. H. Muhlner;
- Report on Crystal Springs Dam by Herman Schussler;
- Notes on valuation of reservoir lands by George L. Dillman;
- Tunnels by J. B. Lippincott;
- Tabulation of...lands, riparian rights, rights of way outside of San Francisco and owned by S.V.W.Co. by J. J. Sharon;
- Gross reproduction cost of distributing pipe system, Dec. 1913;
- Roads, fences, transmission lines and Ravenswood wells;
- Study of Los Angeles Aqueduct overhead costs by Allen Hazen and J. B. Lippincott;
- Tunnels by Allen Hazen;
- Gross reproduction cost buildings outside of City

Exhibit 144, 146, 148, 149, 153-156, 159-162, 166, 168a, including: 1916
- Estimate reproduction cost...City reservoirs, Dec. 1913, by G. A. Elliott;
- Central Reservoir, Oakland, 1909-1910;
- City distribution pipe system, wrought iron pipe by G. A. Elliott;
- Central Reservoir contract, Peoples Water Co.;
- Overhead by Allen Hazen;
- Metcalf on overhead and interest during construction
- Methods of estimating depreciation by Allen Hazen;
- Study on depreciation by Leonard Metcalf;
- Metcalf's depreciation analysis on basis, 4% sinking fund based upon reproduction cost;
- Depreciation detailed computations, Dec. 1913, by Leonard Metcalf;
- Financial schedules by Allen Hazen;
- Lands in use, out of use, reserve;
- Pleasanton Ranch houses, gross reproduction estimates, Dec. 1913

oversize 3,
- folder 16

Exhibit 169: Rights-of-way by Chas. S. McDonald 1913

Exhibit 170-174, 177, 179, 180, 183, 184, including: 1916
- Original cost;
- Lands and structures out of use never used;
- Water rights by George G. Anderson;
- Water rights by F. C. Herrmann;
- Balance sheets, 1907-1914 by F. P. Muhlner;
- Depreciation and Obsolescence by J. M. Bailhache;
- Peninsula watershed lands and reservoir lands By J. J. Sharon;
- Deed, San Mateo Water Company, 1883;
- Appraisal of Pleasanton Ranch Houses, 1913, by M. G. Callaghan;

Exhibit 188, maps and hydrographic data [1914]

Exhibits 191, 192, 194, 195, 196, including: 1915-1916
- Value of water rights...as determined by sale or "market" value of mutual water company stock... by Charles H. Lee;
- Appraisal of physical property...buildings outside of city and flumes;
- Metcalf's analysis of Calaveras Dam cost;
- Working capital July 1915 by Leonard Metcalf;
- Earthquake losses in 1906, April;

- Cost of money;
- Development expense, going concern, going value by Leonard Metcalf;
- Metcalf's net or depreciated reproduction cost estimate of Dec. 1913;

Finding Aid to the M.M. (Michael Maurice) O'Shaughnessy papers
Value of property based upon bond and stock quotations, 1907-1915;
Metcalf's fair rating base and return;
Betterments, additions and abandonment, Metcalf, Sharon and Muhlner;
Metcalf and Sharon's comparison of Judge Farrington's rating base of
1903 with Metcalf's reproduction cost of 1907;
Metcalf's estimate of returns;
Dillman's summation of defendant's case, with tables by Ellis;
Net permanent improvements, real estate and new construction, 1904-1915;
Explanatory memorandum of expenditures for report to Secretary of the
Interior..., 1912-1913;
Average draft from Pleasanton wells, Sunol galleries and Alameda system
in million gallons daily;
Interest rates on loans by George Tourney;
Revenue and expenditures, revised;
Analysis of water of South Lake Merced;
S.V.W.Co. vs City County of San Francisco, average net return on common
stock, 1907-1914;
Cost of cutting and replacing pavements over mains;
Revised statement of revenue and deductions

Comparison of estimates by various engineers on valuation of S.V. works, including: 1913-1916
Crystal Springs Dam and structures;
Lake Merced reservoir drainage system and supply discharge pipes to
pumps;
Lake Honda supply mains and central pump force main;
Buildings outside the city of San Francisco;
Appraisal of city distribution reservoirs;
Comparison appraised value of Peninsula watershed lands;
Comparative estimate on tunnels by Hazen, Dockweiler and Dillman;
Appraisal of physical property, Niles Aqueduct;
Comparison of reproduction cost estimates with...Hazen on earth dams and flumes

Notes on valuation of Alameda Santa Clara County Lands of S.V.W.Co., by Parsons, McDonald Callaghan, appraisers for City 1914
Miscellaneous notes compiled by Dockweiler, including: Changes to
schedule, distribution system, pipe, Pilarcitos and San Andreas dams [1914]
Excerpts from testimony in other lawsuits, including Alameda County Water
District vs. S.V.W.Co., and Denver Union Water Co. vs. City County of Denver 1915
Report of cost and progress of laying c.i. water pipe in San Francisco by
S.V.W.Co. 1915
Daily construction reports in Richmond and Sunset Districts by S.V.W.Co. 1915

Rate Case exhibits 1918

Print materials
Relating to history of S.V.W. Co. 1913-1930
Annual reports to shareholders 1910-1914, 1917, 1926, 1929
Clippings 1903-1921
Clippings 1915
Miscellaneous ephemera 1916-1935
### Special Committees 1915-1934

**Physical Description:** Carton 33; Tubes 43-44; Oversize Box 3, folders 18-20; Oversize Folder 109

**Contents**
Contains files relating to two special committees to which O'Shaughnessy was appointed during his term as San Francisco City Engineer. Special Committee on East Bay Participation in Hetch Hetchy includes correspondence, meeting notes, reports, articles, and clippings relating to resolution of this issue which surfaced during the construction of Hetch Hetchy pipelines to the coast. Special Committee on a San Francisco Bay Bridge includes a scrapbook, correspondence, reports, notes, print materials, and clippings relating to the proposal for its construction. Of particular interest are files of correspondence and reports from previous investigating committees, including members of the San Francisco Commercial Club and Chamber of Commerce, as well as O'Shaughnessy's testimony before the U.S. Congress, Committee on Commerce.

**Arrangement**
Arranged chronologically by date of appointment to committee.

<table>
<thead>
<tr>
<th>Carton 33, folder 1-2</th>
<th>Special Committee, East Bay Participation in Hetch Hetchy</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Correspondence 1919-1928</td>
</tr>
<tr>
<td></td>
<td><strong>General</strong></td>
</tr>
<tr>
<td></td>
<td>Letter of Feb. 13, 1919 includes photograph (supplementary): 1 print of excursion showing Car with Mayor Bartlett and Berkeley City Council Members at Hetch Hetchy</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Carton 33, folder 3</th>
<th>Meetings 1924</th>
</tr>
</thead>
<tbody>
<tr>
<td>carton 33, folder 4</td>
<td>Lafayette Dam 1928-1931</td>
</tr>
<tr>
<td>carton 33, folder 5</td>
<td>San Pablo Dam 1921</td>
</tr>
<tr>
<td>carton 33, folder 6</td>
<td>Preliminary report on the Geology of the Claremont Tunnel by Carlton D. Hulin 1926</td>
</tr>
<tr>
<td>carton 33, folder 7</td>
<td>Notes and clippings 1918-1934</td>
</tr>
<tr>
<td>carton 33, folder 8</td>
<td>Articles, annual reports 1918-1933</td>
</tr>
<tr>
<td>carton 33, folder 9</td>
<td>Report on Water Supply, Richmond Municipal Water District 1916 Feb</td>
</tr>
</tbody>
</table>

**Special Committee, San Francisco Bay Bridge**

**Scrapbook:** "Transbay Bridge, San Francisco" 1926-1927

*Includes photographs (supplementary): 6 prints*

<table>
<thead>
<tr>
<th>Carton 33, folder 10</th>
<th>Correspondence 1922-1929</th>
</tr>
</thead>
<tbody>
<tr>
<td>carton 33, folder 11</td>
<td>Correspondence and reports of previous committees: S.F. Commercial Club</td>
</tr>
<tr>
<td>carton 33, folder 12</td>
<td>S.F. Chamber of Commerce 1916-1921</td>
</tr>
<tr>
<td>carton 33, folder 13</td>
<td>Correspondence and reports of various engineers and individuals 1915-1917</td>
</tr>
</tbody>
</table>

**Reports**

Board of Engineers, Transbay Bridge, San Francisco (Ridgway, Talbot Galloway) 1927

Board of Engineers, Transbay Bridge 1927

[Board of Engineers?], Summaries of Proposals [1927?]  
George S. Hill; Sydney W. Taylor, Jr.; Henry F. Grady [1925] n.d

"Victory Tube Project" by Sydney W. Taylor, Jr. and J. Vipono Davies 1925

Allan C. Rush 1927 March
Lochiel M. King; Raymond Concrete Pile Co., R. E. Sarryhne, includes photographs (supplementary): 12 prints 1927-1929
Hoover-Young Bay Bridge, Borings and Foundation Data 1930 July

Chicago (Strauss Controversy); Delaware; Hudson River, N.Y. 1926-1927

Studies 1926-1930
Maps, plans, and drawings 1924-1928
Congressional Bills and Hearings, S. 1762 1927-1928

Testimony of M.M.O'S, U.S. Senate, Committee on Commerce 1928 March 31
Notes on addresses and meetings 1928 Aug.-Sept

Notes 1932-1934

Engineering Notes
Miscellaneous 1917-1925, n.d

Clearances for Fixed Bridges over Fairways of Ocean Ports [after 1926]

Print materials
San Francisco-Oakland Cantilever Bridge by Charles Evan Fowler 1915
Civic League of Improvement Clubs and Associations of San Francisco 1921
Transactions of Commonwealth Club - "Transbay Transportation", "Bay Bridges," and Municipal Record, 1923 1922-1925
The City, issued by the San Francisco Bureau of Governmental Research 1927
Clippings 1926-1931
Clippings 1928-1930
Schedule of rates, Delaware Bridge Company n.d

Subseries 2_3: Public Relations 1912-1934

Physical Description: Cartons 34-35; Oversize Box 3, folder 21

Contents
Divided into 4 otherlevel: Statements, Speeches, Articles, and Civic Organizations. These files document O'Shaughnessy's role in keeping the press and the public informed about city improvement projects in progress or being planned. He often campaigned for bonds to finance improvement projects, and prepared statements for the press, made appearances, delivered speeches to a wide variety of organizations, and wrote articles for publication.

2_3_1: Statements 1912-1934

Physical Description: Carton 34, folders 1-4

Contents
Contains mostly typed statements and press releases written by O'Shaughnessy, often in response to events that would impact his projects or sometimes to garner public support. One folder of "letters to the editor" is filed at the end.
Arrangement
Arranged chronologically.
<table>
<thead>
<tr>
<th>carton 34, folder 1</th>
<th>Statements and press releases, including: 1912-1919</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Regarding office of City Engineer, ca. 1912]</td>
<td>Hetch Hetchy Water Supply [relating to McCloud River Scheme], Dec. 23, 1912</td>
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<tr>
<td>Post, &quot;Water Supply of Washington, D.C., New York, Chicago...&quot;, 1912</td>
<td>[Regarding address of H.T. Corey before Engineers Club, 1914, concerning water supply of San Francisco-Oakland Metropolitan District]</td>
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<tr>
<td>Present Water Supply of San Francisco, [1915]</td>
<td>[Permanent Improvements from the P.P.I.E., 1916?], given to Call</td>
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<tr>
<td>[Selection of Alameda for Naval Base Site in Preference to Hunters Point], Dec. 8, 1917</td>
<td>[Regarding completion of municipal projects following end of war], Nov. 22, 1918</td>
</tr>
<tr>
<td>[Dedication of U.S. Government Power Plant in Yosemite National Park], Sept. 11, 1918</td>
<td>&quot;Transportation West of Twin Peaks,&quot; Oct. 27, 1919</td>
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<td>[Report on Washington Trip], Oct. 30, 1918</td>
<td>carton 34, folder 2</td>
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<td>[The problem of building a bridge across the Golden Gate], Nov. 7, 1918</td>
<td>Statements and press releases, including: 1920-1924</td>
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<td>[Regarding claims of Messrs. Beckman and Linden, relating to location of Hetch Hetchy Dam], Jan. 2, 1920</td>
<td>&quot;Criticism of Proposed Charter Amendment No. 8-1/2,&quot; Nov. 1920</td>
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<td>&quot;Finance Bonds,&quot; 1922</td>
<td>&quot;San Francisco Advancement under Rolph Administration&quot; (not used), April 3, 1923</td>
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<td>[Tunnel Work on Hetch Hetchy Project], Nov. 28, 1923</td>
<td>&quot;The City's Water Supply from Hetch Hetchy,&quot; May 1931</td>
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<td>&quot;Co-operation in the Water Supply Development by the East Bay Cities,&quot; March 10, 1924</td>
<td>&quot;Examination of Hetch Hetchy Water Project,&quot; March 1926</td>
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<td>[Regarding the Cost of the Hetch Hetchy,] May 13, 1924</td>
<td>&quot;Transbay Pipeline from Irvington in Alameda County to San Francisco,&quot; Aug. 20, 1926</td>
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<td>&quot;Regarding East Bay Water Commission and Hetch Hetchy,&quot; Aug. 1924</td>
<td>&quot;Completion of Transbay Pipeline from Irvington in Alameda County to San Francisco,&quot; Aug. 21, 1926</td>
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<td>&quot;Examination of Hetch Hetchy Water Project,&quot; March 1926</td>
<td>&quot;Golden Gate Heights&quot; [relating to improvements], Jan. 10, 1928</td>
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<td>&quot;Transbay Pipeline from Irvington in Alameda County to San Francisco,&quot; Aug. 1926</td>
<td>[Regarding Market Street Congestion], response to letter published in the San Francisco Chronicle, March 28, 1929</td>
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<td>&quot;Need of City Reservoirs for San Francisco's Water Supply,&quot; May 1, 1930</td>
<td>&quot;Golden Gate Heights&quot; [relating to improvements], Jan. 10, 1928</td>
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<tr>
<td>&quot;San Francisco's Recent Engineering Accomplishments,&quot; May 5, 1930</td>
<td>[Regarding plans for Coast Range tunnels], response to letter published in the San Francisco Examiner, March 9, 1931</td>
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<tr>
<td>&quot;Mitchell Tunnel Explosion, Hetch Hetchy Project,&quot; July 1, 1930</td>
<td>&quot;Hetch Hetchy Water Supply,&quot; May 1, 1931</td>
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<td>&quot;...Trip thru Panama Canal,&quot; Jan. 5, 1931</td>
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Finding Aid to the M.M. (Michael Maurice) O'Shaughnessy papers
"O'Shaughnessy Answers S.M. Havenner Talk," San Mateo, Times, Sept. 8, 1931
[Regarding response of Rudolph Spreckels and William Kent to opposition to the Water and Power Act, 1931?]

Letters to the Editor 1920-1934

2.3.2: Speeches 1913-1934

Physical Description: Carton 34, folders 5-67; Carton 35, folders 1-8

Contents
Invitations to speak for which there are no written texts precede individual files for each appearance made by O'Shaughnessy. He frequently attended and presented prepared remarks or brief addresses at meetings of social clubs, municipal organizations, and schools; he seldom repeated the same speech. Files include correspondence related to scheduling each appearance, and notes or typescripts of his comments.

Arrangement
Arranged chronologically.

Invitations to speak 1913-1932

"The Hetch Hetchy: Its History," St. Mary's College, Oakland 1913 Feb. 4
"Effect of Topography on a City's Growth," Chit Chat Club 1914


["The City Engineer's Plans for Water Development"] - Commonwealth Club,
"The Bay Cities' Water Supply—What Shall We Do About It Now?" [1915 May 12]
"Recent Municipal Activities in San Francisco," League of California Municipalities 1915 Sept. 7
[Address on Planning in San Mateo County], Rotary Club 1916 Sept. 12

"Hetch Hetchy Source of Water Supply and Other Conditions Relating to the Water Problem of San Francisco," Oakland City Hall meeting regarding proposed Oakland Metropolitan Water District 1916 Oct. 6
"Hetch Hetchy Water Project," San Francisco Commercial Club 1917 March 10

[Address on current projects], Mission Promotion Association 1917 March 26


"Best Municipal Water Supply for the City of Sacramento" 1918 Jan. 15

[Address on Transportation Problems in San Francisco], Commonwealth Club 1918 Jan. 30
[Construction of Hetch Hetchy Dam], Commonwealth Club 1919 Nov. 15

[Address on the Hetch Hetchy Water Project], San Francisco Commercial Club, Ladies' Day Luncheon 1919 Dec. 13
"Reminiscences of Hawaii" 1920 Feb

"Address Before Berkeley Chamber of Commerce" 1920 Sept. 21

"Observations on a Trip from June 23rd to August 21st, 1920," Union League Club 1920 Sept. 29
"Naval Base, San Francisco Bay," Down Town Association 1920 Nov. 24
"Municipal Railways, San Francisco," Pacific Railway Club 1921 Feb. 9
"Observations on a Trip from June 23rd to August 21st 1920," Chit Chat Club 1921 July
[Address on water supply needs], Richmond Industrial Commission 1921 Oct. 13
[Address on progress of Hetch Hetchy project], Electrical Development League, Palace Hotel 1921 Nov
[Address to U.S.G.S. Association], Palace Hotel [ca. 1922]
"Present Status and Future Prospects of the Hetch Hetchy System," Commonwealth Club 1922 April 20
"Hetch Hetchy Water Supply for San Francisco" 1923 Jan. 2
"The Hetch Hetchy Project," Los Angeles City Club 1923 June 16
[Remarks at dedication of Don Pedro Dam] 1923 June 25
"Hetch Hetchy Water Supply for San Francisco" 1923 July 7
"Talk before the Student Body of the University of California" 1923 Oct. 19
"Hetch Hetchy Power: Remarks by M. M. O'Shaughnessy," Commonwealth Club 1923 Nov. 15
"Data on Hetch Hetchy Water Supply Project" 1924 March 1
"The Water Problem of the Bay Region," Soroptimist Club, Alameda County 1924 March 10
[Address on Water Problems in San Francisco], Photographers' Association of California 1924 July 28
[Address on the Hetch Hetchy Project], Public Spirit Club, San Francisco 1924 Dec. 3
[Address on projects in Merced and San Francisco], Rotary Club, Modesto 1925 April 21
[Address on some events of the past, present, and future of San Francisco], Downtown Association 1925 May 28
"Garbage Disposal," San Francisco Center of California League of Women Voters, St. Francis Hotel 1925 Oct. 3
[Address on San Francisco's development], Californians, Inc., Palace Hotel 1925 Nov. 5
"City Plans; Remarks by M. M. O'Shaughnessy," Commonwealth Club 1925 Nov. 19
"Water," California Medical Association, Oakland 1926 April 30
"Hetch Hetchy Power" [ca. 1928]
[Address on Municipal Railways in San Francisco] 1928 March 18
[Address on San Francisco's engineering projects], KTAB Broadcasting Association 1928 Nov. 5
'City Progress Report' 1928 Nov. 16; 1931 Nov. 4
"San Francisco A City of Achievement" 1928 Dec. 13
"Long Distance Transmission of Water," Water Supply Section, School of Citizenship and Public Administration, University of Southern California 1929 June 19

[Address on garbage disposal], K. F. W. I. 1929 Oct. 25

"Past, Present, and Future Roadways of San Francisco, Pioneer Society 1929 Nov. 22

Address on Present Railway Situation within the City of San Francisco, San Francisco Chamber of Commerce, Committee on Peninsula Traffic 1930 Feb. 28

"Address [on water supply affecting communities of Hillsborough, Burlingame, and San Mateo] before the combined Trustees and City Managers of Hillsborough, Burlingame, and San Mateo" 1930 April 16

"Twenty Minute Speech at Commonwealth Club, Municipal Ownership with 5-cent Fare: The City to Meet Deficits" 1930 May 15

"Industrial Water Power and Fuel Supply for San Francisco Bay District," California Real Estate Association, Hotel Leamington, Oakland 1930 June 7

"Special Projects by Special Financing," City Managers' Convention, Palace Hotel 1930 Sept. 24

"The Magnitude of the Highway Industry," Radio broadcast over station KROW (Oakland) for the American Road Builders' Association 1931 Jan. 10

"Inter-County Rapid Transit: Remarks by M. M. O'Shaughnessy," Commonwealth Club 1931 Oct. 16

[Address on San Francisco Municipal Projects: Sewers, Airport, Water Hetch Hetchy, Boulevards, Bay Bridge] 1931 Nov. 4

"Hetch Hetchy Water Supply," Judge Curtis D. Wilbur's Class, First Congregational Church 1932 April 24

"Address at Meeting of Tamalpais Conservation Club" 1932 Sept. 25

"Boosting our Motoring Bill by Billions," radio broadcast over station KYA, for the American Road Builders' Association 1932 Nov. 9

"Remarks by M. M. O'Shaughnessy," [regarding Central Water Project], Commonwealth Club 1933 Nov. 1

[Address on present and future roadways in San Francisco], Pioneer Society 1933 Nov. 22

"Address on Hetch Hetchy," Judge Wilbur's Sunday Morning Class, First Congregational Church 1934 Jan. 21

"Talk [on water from Hetch Hetchy] before the Electrical League," Palace Hotel 1934 Aug. 27

[Address at opening of power plant on the Tuolumne River], National Park Service n.d

"Ten Minute Talk at Hetch Hetchy Lodge" n.d

"Waterways," International Waterways Congress, San Francisco n.d

"L'enfant and Washington," Chit Chat Club n.d

### 2_3_3: Articles 1913-1934

**Contents**

Contains articles written by O'Shaughnessy for the general public, particularly the business and political community of San Francisco, and published in journals and newspapers such as *Municipal Record* and *Daily Journal of Commerce*, and other local newspapers. In contrast to articles written for his peers, these focus on general overviews and positive summaries describing the City Engineer's plans to improve San Francisco's transportation, water supply, and power systems, as well implement city beautification projects. One folder of articles by N. A. Eckart, Chief Assistant Engineer, and another of articles sent by publishers for O'Shaughnessy to review file at the end.

**Arrangement**

Arranged chronologically.
"Report on Extensions of Municipal Railways to Provide Transportation for the Panama-Pacific Exposition," Board of Public Works, San Francisco 1913 April 5
"Future Uses of Mount Tamalpais in Connection with Marin Water District," The Tamalpais Magazine, Tamalpais Conservation Club 1914 July
"The Proposed Purchase of the Spring Valley Water Company’s System," The San Francisco Star 1915 March
"Outline of the History of the Water Supply of San Francisco and Description of the Hetch Hetchy Water Supply Project" 1918 March
"Municipal Ownership in San Francisco" Berkeley Civic Bulletin, v. VI, no. 6 1918 March
"The Hetch Hetchy Project: Its Progress, Prospects and Possibilities," issued by the City and County of San Francisco 1919 Jan
"The Fate of the Five-Cent Fare: VI, The Municipal Street Railway in San Francisco," National Municipal Review, v. VIII, no. 9 1919 Nov
"The Hetch Hetchy Project: Its Progress, Prospects and Possibilities," issued by the City and County of San Francisco 1920 Jan
"The Hetch Hetchy Project," The Star 1920 June
"Recent Engineering Accomplishments of the City of San Francisco" 1921 Feb
"The $45,000,000 Hetch Hetchy Project," Pacific Street and Road Builder 1921 Sept
"The Hetch Hetchy Water and Power Project, The Municipal Railway," issued by the City and County of San Francisco 1921 Nov
"Hetch Hetchy Project and what it means to Bay Communities," Municipal Record 1921 Nov
"City Building," Daily News, San Francisco 1922 June 20
"San Francisco Water Supply Project," Scientific American 1922 July
"Progress on the Hetch Hetchy," San Francisco News Letter 1923 March 31
"City Engineer Makes Suggestions as to Disposal of Electric Power," Municipal Record, v. XVI, no. 14 1923 April 4
"The O’Shaughnessy Dam and its Dedication," and “The Hetch Hetchy Dam Completed,” Public Works, v. 54, no. 9 1923 Sept
"Construction of First Power Unit of Hetch Hetchy Water Supply Development" 1923
"City Engineer Outlines Plan for San Francisco Expansion," The San Francisco Journal 1924 March 26
"Gigantic Hetch Hetchy Tunnel Bore Completed," Associated Press 1925 May
"History of the Hetch Hetchy Water Supply," Bureau of Engineering of the Department of Public Works, City and County of San Francisco 1925 Oct

"Memorandum on European Trip," Municipal Record, vol. XVIII, no. 52; and "A City Engineer's Observation in Europe," The American City 1925 Dec.-1926


"$3,500,000 for Expansion of Transportation Facilities in San Francisco" 1927 March 5

"Our Bridge Problem," San Francisco Business 1927 March 9

"Highways and the Coming Bond Election," San Francisco Business 1927 Oct

"Hetch Hetchy Project" 1928 July 3

"San Francisco Will Soon Have One of Finest Water Systems in the West," Hydraulic Engineering , v. IV, no. 9 1928 Sept

"Twin Peaks Tunnel" 1929 May

"Results Justify Assessment Method of Transit Financing," Electric Railway Journal , v.73, no. 22 1929 Dec

"San Francisco Saving and Beautifying Great Highway with Ocean Beach Esplanade," [Western Cities?] 1930 Jan

"Hetch Hetchy Water Service Project," Pacific Municipalities, v. XLIV, no. 6 1930 June

"Problems of City Engineers," Western City 1930 Aug


"Hetch Hetchy Water and Power Project," Christian Science Monitor 1930 Sept

"Hetch Hetchy Project," Pacific Municipalities 1931 June

"Many Sources and Routes Sifted for Water Supply," San Francisco Chronicle 1931 June 3

"Hetch Hetchy Project," Municipal Record 1931 Oct

"Hetch Hetchy Project" 1931 Nov

"Hetch Hetchy Water Project," Municipal Record 1932 April

"Hetch Hetchy Project," Public Utilities Commission 1932 Sept

"Hetch Hetchy on Tap Soon," for First Issue of Progress 1932 Dec

"San Francisco's Hetch Hetchy Water Project," The Argonaut 1934 June

"General Project on Hetch Hetchy" n.d

"Streets and Boulevards," Journal of the Civic League of Improvement Clubs n.d

Correspondence with publishers regarding articles 1918-1928

Articles sent to M.M. O’S for review by publishers 1925

"Placing Concrete Lining in the Hetch Hetchy Tunnels," by W. F. Webb, for *Engineering News-Record*; and

2_3_4: Civic Organizations 1913-1934

Physical Description: Carton 35, folders 64-78

Contents

Includes correspondence, minutes of meetings, reports, notes, and printed material related to three community and politically influential organizations in which the City Engineer actively participated: Commonwealth Club of California, Down Town Association, and San Francisco Chamber of Commerce.

Arrangement

Arranged alphabetically by organization.

**Commonwealth Club of California**

Correspondence 1914-1934

Section on City Planning 1916-1928

Section on National Defense 1924-1932

Committee on Preservation of Exposition Buildings 1915

Sections on Water Power and Irrigation 1916-1934

Sections on Water Resources and Irrigation 1931-1934

Miscellaneous printed material 1916-1926

**Down Town Association 1915-1931**

**San Francisco Chamber of Commerce**

Correspondence and reports 1913-1929

Hetch Hetchy Excursion 1924 May 23-26

Trade Extension Tour to Mexico 1923-1924
Subseries 2_4: Project Files 1912-1935

Physical Description: Cartons 36-43; Boxes 14-16; v. 36-41; Tubes 45-51; Oversize Box 4, folders 1-18; Oversize Folders 110-135

Contents

O'Shaughnessy's project files contain only his own, personal and often annotated copies of materials related to the various projects he developed and administered as San Francisco City Engineer, a position which he held from 1912 to January 1932. A few files from his last 2 years of engineering work, in the role of Consulting Engineer, Hetch Hetchy Water Supply for the Public Utilities Commission, follow at the end.

Arrangement

Arranged chronologically by date projects began, and then by format in the following order: scrapbooks, correspondence, reports, notes, maps, plans and drawings, specifications, agreements, legal and financial materials, print materials, and clippings.

Project Files have been further divided by type of project: Hetch Hetchy, Tunnels, Municipal Railway, Boulevards, City Management/Water Supply, Waste Management, and Land Reclamation, according to the categories used in annual reports issued by the Engineering Dept.

2_4_1: Hetch Hetchy 1912-1934

Physical Description: Cartons 36-39; Boxes 14-16; v. 36-37; Tube 45; Oversize Box 4, folders 1-12; Oversize Folders 110-124

Contents

Chiefly contains scrapbooks, correspondence, and reports, including progress reports and site inspections; reports prepared by O'Shaughnessy precede those done by others. Also includes maps, plans and drawings, specifications, agreements and contracts, notes, legal materials, publicity, financial materials, and print materials, along with collected articles and clippings relating to development and construction of the Hetch Hetchy water supply system.

Arrangement

Arranged by format, and then chronologically.

Scrapbooks

"Dams" 1912-1918

"Hetch Hetchy" 1913-1927

"Current Issues" 1917-1918

"Placing Concrete by Compressed Air to the Aqueduct Tunnels" 1918

"O'Shaughnessy Dam Dedication" 1923 July

"Data on Power" 1907-1924

"Finances and the 1910 Water Construction Bond Fund" 1924

"Hetch Hetchy Power Contract" 1925 July-Sept

"Hetch Hetchy Project" 1926 May-July

"Tour of Stockton Territory" 1927 May

"Water Bonds" 1927

"Public Utilities Commission and Hetch Hetchy" 1931 Dec
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<th>Carton and Folder</th>
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<td>carton 36, folder 25</td>
<td>&quot;Series of Articles&quot; 1934</td>
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<td>carton 37, folder 4</td>
<td>Correspondence 1913-1934</td>
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<td>Correspondence and statements in response to Adolph Uhl controversy regarding Hetch Hetchy 1915</td>
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<td>carton 37, folder 6</td>
<td>Correspondence and statements relating to alternate Altamont Pass pipe route 1931</td>
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<td>Correspondence with M. W. Kellogg Co. regarding pipe 1923</td>
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<td>Correspondence regarding wood pipe 1931</td>
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<td>Memoranda 1909-1924</td>
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<td>Memoranda relating to power 1922-1923</td>
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<td>carton 37, folder 11-12</td>
<td>Reports</td>
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<td>carton 37, folder 11-12</td>
<td>Hetch Hetchy Water Supply of...San Francisco: Tentative Program of Construction, and Preliminary Estimate of Cost; and 1915 May 7 Discussion of a Proposed Plan for Disposing of the Hetch Hetchy Water Supply Bonds of 1910 1915 May 19</td>
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<td>carton 37, folder 11-12</td>
<td>Report to the Mayor, Board of Public Works and Board of Supervisors of San Francisco 1916 March; 1917 Jan</td>
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<td>carton 37, folder 11-12</td>
<td>The Water Supply of San Francisco, California Before, During and After the Earthquake of April 18th, 1906, and the Subsequent Conflagration.... by Hermann Schussler, Chief Engineer, Spring Valley Water Company 1906 July 23</td>
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<td>carton 37, folder 11-12</td>
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<td>box 16, folder 5</td>
<td>Report on Use of Water from Tuolumne River by Turlock Irrigation District, prepared for Percy V. Long, City Attorney ... by B. A. Etcheverry and Thos. H. Means 1915 Aug</td>
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<td>box 16, folder 6-7</td>
<td>Report on Use of Water from Tuolumne River by Modesto Irrigation District, prepared for Percy V. Long, City Attorney ... by B. A. Etcheverry and Thos. H. Means 1915 Aug</td>
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<td>carton 37, folder 13-14</td>
<td>Rainfall 1916</td>
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<td>carton 37, folder 15</td>
<td>Modesto District, Calif., groundwater conditions and alkali in soils 1916</td>
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<td>carton 37, folder 16</td>
<td>Abstract of Report of Wm. Mulholland and J. B. Lippincott on Estimates of the Cost of the Proposed Tunnels ... through the Diablo Range, Dec. 1912, [by Leslie W. Stocker] [1918]</td>
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<tr>
<td>carton 37, folder 17</td>
<td>Hydro-Electric Power Plants in Oregon and Washington by P. J. Ost and L. W. Stocker 1920 Sept</td>
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<td>carton 37, folder 18</td>
<td>[Report on Conditions at Pulgas Tunnel] by C. M. Taylor 1923 Dec</td>
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<td>carton 37, folder 19</td>
<td>[Report on evaluation of plans for Coast Range Division] by W. F. Durand 1928</td>
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<td>carton 37, folder 20</td>
<td>Report on the Water Supply of the San Francisco Peninsula—Daly City to Palo Alto, 1920 to 1928, with Population Estimates and Future Water Needs ...1930 to 1950, by M. J. Bartell 1929 Jan</td>
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<tr>
<td>carton 37, folder 21</td>
<td>[On rocks in the Hetch Hetchy tunnels] by Bailey Willis 1930 Nov</td>
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<td>carton 37, folder 22-31</td>
<td>Progress reports 1917-1925; 1932-1933</td>
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<td>oversize 4, folder 2</td>
<td>Construction progress 1916-1929</td>
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<td>Site Inspections 1912 Sept.-1933</td>
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<td>Site Inspections, Reports of Grand Jury Committee 1929-1930</td>
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<td>Plans 1922-1923</td>
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<td>carton 37, folder 61</td>
<td>Specifications</td>
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<td>carton 37, folder 62</td>
<td>Contract No. 61, proposal 1919</td>
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<td>carton 37, folder 63</td>
<td>Contract No. 70 [Pipe] for Outlet System 1919</td>
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<td>carton 37, folder 64</td>
<td>Steel pipe 1922</td>
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<td>carton 37, folder 65</td>
<td>Contract No. 95, Steel Bridge across Dumbarton Strait 1923</td>
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<td>carton 38, folder 1</td>
<td>Contract No. 122, Newark-San Lorenzo Pipe Line 1930</td>
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<td>carton 38, folder 2</td>
<td>Contract No. 142, Pipelines in Coast Range division 1933</td>
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<td>carton 38, folder 3</td>
<td>Agreements and contracts 1916-1925</td>
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<td>Notes</td>
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<td>On Hetch Hetchy [1920s]</td>
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Meeting of Conferences of water supply engineers 1916 April-June
Data on Ten Masonry Gravity Type Dams in the Atlantic Coast States
prepared by N. R. Ellis, Valuation Engineer, City Attorney's Office 1916 Aug
Engineering notes on construction, concrete, power 1913-1931

Engineering notes 1919-1922

Legal materials
Water rights 1915-1918, n.d
F. Rolandi vs. Hetch Hetchy Railroad 1916-1919
Testimony and proceedings before the Grand Jury regarding Hetch Hetchy
Project 1923 July
Testimony regarding Poopenaut Valley [ca. 1923]

O'Shaughnessy Dam Dedication, July 7, 1923
Correspondence, invitation, speech 1923 June-Sept

Excursions, publicity, printed ephemera 1923 June-Oct

Employees and work rules 1923-1930

Sign, "Notice! Public Water Supply—Do Not Pollute" 1929

Financial material 1920-1924, n.d

Print materials
Congressional Hearings 1913

Articles relating to Hetch Hetchy construction 1913-1934
Hetch Hetchy Water Supply editions of The Banner, Sonora 1920
Feb.-March

Articles relating to Hetch Hetchy power 1915-1929

Articles about Hetch Hetchy, published in Municipal Record 1922-1923

Articles about Hetch Hetchy 1923-1934

Articles about Hetch Hetchy, published in Paris and Saigon 1926

Articles relating to Yosemite National Park and Secretary of the Interior
1904-1923
Hetch Hetchy by Ray W. Taylor, San Francisco 1926

Chapman Valve Manufacturing Co., Catalog and Price list, No. 32, and
Bulletin No. 2 1909-1917
Miscellaneous 1916-1925

Clippings 1912-1934

Clippings 1913-1934

Scrapbook on Aqueduct Tunnel Gas Explosion, July 17, 1930, and Hetch
Hetchy Tunnel Cave-In, Jan. 9, 1931, Mitchell Tunnel East 1930-1931

Scrapbook on Tunnel Aqueduct Cave-in between Valle and Mocho, Coast
Range Division, Sunday, August 28, 1932“ 1932
2_4_2: **Tunnels 1912-1931**

- **Physical Description:** Carton 40, folders 1-26; v., 38; Tubes 46-48; Oversize Box 4, folder 13; Oversize Folders 125-129
- **Contents**
  - Contains correspondence, reports, notes, specifications, maps, plans, drawings, financial records, ephemera, printed materials, and clippings from three major tunnel projects, including the Stockton Street and Sunset Tunnels, plus Twin Peaks Tunnel which is the most thoroughly documented.
- **Arrangement**
  - Arranged chronologically by date project began.

**Stockton Street Tunnel**
- Tunnel specifications and request for proposal 1912-1913
- Tunnel waterproofing costs 1930
- Maps, plans and drawings 1914

**Twin Peaks Tunnel**
- Correspondence 1912-1931
- Correspondence with Twin Peaks Tunnel Property Owners Association 1911-1917
- Report to the Board of Supervisors 1913
- Report, *The Twin Peaks Tunnel Problem*, by Herbert Schussler 1911 June
- Progress reports 1916-1917
- Protests and objections 1913-1915, n.d
- Opening celebration 1917
- Notes 1912-1917, n.d
- Notes regarding cement and surface tests 1907
- Damage claims 1917-1918
- Residential Development Company of San Francisco vs. City Co. of SF, Petition to Distribute Funds remaining in Twin Peaks Ridge Assessment Fund 1928
- Specifications 1913
- Plans 1914
- Maps, plans and drawings 1912-1915
- Maps, plans and drawings ca. 1914-1915, n.d
- Ephemera n.d
- Christmas card n.d
- Financial material 1915-1917, n.d
- Print materials 1910-1920
- Clippings 1900-1917, n.d

**Sunset Tunnel**
- Notes of meeting with supervisors 1923 Nov
- Final Report on Construction by M. J. Bartell 1928 May
Assessment map 1927
Notes, plan and print materials 1927
Celebrations 1927 March-Dec
Sunset Tunnel and Railroad Carline celebration 1928 Oct
Plans for Fillmore Street tunnel 1913
Related engineering notes 1913, 1930

2_4_3: Municipal Railway 1912-1933
Physical Description: Carton 40, folders 27-34; Carton 41; v. 39; Tube 49; Oversize Box 4, folders 14-15; Oversize Folder 130

Contents
Contains 8 scrapbooks, correspondence, and reports that provide detailed information about the City Engineer's plans to acquire and unify the several street railways operating independently in San Francisco. Includes notes, specifications, maps, plans and drawings, printed reports and clippings related to construction. Much of the material also relates to his efforts on behalf of the City to raise bonds to finance the work.

Arrangement
Arranged by format.

Scrapbooks
Campaign for Municipal Railway Bonds 1913 Aug. [1914]
[Municipal Railway] 1914-1916
United Railroads 1916-1918
Street Railway Transportation and Public Ownership of Utilities 1921-1923
[Controversy relating to Delos F. Wilcox Study of Street Railway System] 1927
Data on Amendment 24, Street and Railway Franchises 1928
Valuation, Acquisition and Unification of Street Railways in San Francisco 1929
Election Campaign Material on Charter Amendment no. 35 1930 Nov
Correspondence 1913-1929
Correspondence and reports to Board of Supervisors and Harbor Commissioner 1912-1930
Reports
Preliminary Reports, no. 1-3, by Bion J. Arnold, Consulting Engineer 1912
Feb.-March
Map, unified system ... and distribution of population n.d
Street Railways 1911-1932
Elevated Ferry Terminal 1913
Market Street 1916-1921
Olympic Club Slides, includes photographs (supplementary): 6 prints 1924 April
Municipal Railway Extensions 1926
carton 41, folder 14
San Francisco Rapid Transit 1931

Index [to 375+ page report] 1929

Working Notes
Operations and financial 1912-1928

Extensions and purchases 1902-1929

Trolley cars 1909-1911, n.d

Miscellaneous notes 1919, n.d

Miscellaneous notes 1915-1929, n.d

Specifications
Geary Street Railroad 1910

Street Cars-Car Bodies 1913

Construction of the Church Street Line 1915 Oct

Electric Cables and Splicing Materials 1917 March

Construction of the Twin Peaks Tunnel Line 1915 Oct

Copper Trolley Wire 1918 July

Union Street Line Relocation 1918 Oct

Wood Ties 1919 Jan

Track Special Work 1919 Nov

Automobile Bus Bodies 1920 March

Maps, plans and drawings 1910-1927

Plans, proposed Market Street subway 1911

Related engineering notes
Chicago and New York subways 1912-1931

Print materials
Germany 1916

Financial reports, Municipal Railway of S.F. 1914-1931

Relating to Street Railways in S.F. Bay Area 1916-1933

Separation of the Central Pacific and the Southern Pacific Railroads 1922

Market Street Railway Company 1924-1931, n.d

Effect of Fare Changes on Street Railway Operations in California, California Railroad Commission 1929

Clippings 1915-1932, n.d
2_4_4: Boulevards 1915-1935

Physical Description: Carton 42, folders 12-32; Oversize Box 4, folder 16

Contents
Contains general information, chiefly correspondence and notes, about O'Shaughnessy's plans to improve roads and construct boulevards to enhance travel to and within San Francisco. Construction of the Ocean Beach Esplanade is most thoroughly documented, while only a small amount of materials relate to his other boulevard projects.

Arrangement
General information and major projects precede individual street projects, which are arranged alphabetically.

Principal boulevards and Good Roads projects 1915-1919

Boulevard Bond issue 1927-1928

Ocean Beach Esplanade, Section A, includes photographs (supplementary): 10 prints; Section B, includes photographs (supplementary): 10 prints; Section C, includes photographs (supplementary): 7 prints; (duplicate): 7 prints 1915-1928

Correspondence 1916-1929

Public Comfort Station plans 1919

Construction and Improvements; National Industrial Recovery Act Projects 1929-1933

Bureau of Engineering "Right of Way Dept." 1928-1930

Engineering notes 1924-1926

Map 1926

Note cards, general information 1926, n.d

Alemany Boulevard to Junipero Serra [1935]

Army Street n.d

Baker's Beach Road (Lincoln Blvd.), S.F. Presidio 1928

Bayshore Boulevard 1928-1930

Bernal Cut 1927, n.d

Harding Boulevard slide 1932

Junipero Sierra and Nineteen Avenue extension 1928

Pulgas Road (Redwood City) grading specifications 1925

Rincon Hill regrading 1923

Sunset Boulevard Specifications, Section B 1930

Willard St., Belmont Ave., Edgewood Ave. regrading 1915
2_4_5: City Maintenance—Water Supply 1913-1931

Physical Description: Carton 42, folders 33-39; Oversize Folders 131-132

Scope and Contents
Includes a small amount of correspondence and reports relating to wells and other potential sources available to supplement the City's supply of water, including plans for an auxiliary system for fire protection.

Wells - correspondence and reports 1913-1918

Reports
Source and Purification of Water Supply for P.P.I.E. by E. C. Eaton, includes photographs (supplementary): 22 prints 1915 July
Review of Filter Plant in Water Works of Presidio ... by Charles Gilman Hyde 1915 Aug
Map and plans 1908
Wells No. 620 630, Fire Dept. Lot, Sunset District—Specifications 1915

Auxiliary System for Fire Protection 1911-1931

Maps, plans and drawings 1910-1921
Print materials, clippings 1914-1915, n.d

2_4_6: Waste Management 1913-1933

Physical Description: Carton 42, folders 40-43; Carton 43, folders 1-7; Oversize Folders 133-134

Scope and Contents
Contains reports, statements, plans, specifications, printed materials, and correspondence concerning the problems of waste management, and the City Engineer's recommendations for sewage disposal and the use of refuse incinerators. Includes materials relating to campaigns for sewer bonds to finance the necessary work, a table showing typhoid cases to illustrate the need for sanitary treatment of waste.

Baker Beach outlet sewer report [1915?] - 1922

Specifications 1913

Golden Gate Park sewage plant 1916, n.d

Sewer systems
Plans and specifications 1885-1922
Map n.d
Print materials 1910-1933
Sewer bond materials 1908-1928
Table of typhoid cases [after 1926]
Refuse incinerator - correspondence and statements 1923-1930
Islais Creek refuse incinerator, report of 30 Days trial 1914
Refuse incinerator recommendation 1929
Suit of M.M.O's vs. The Daily News 1923
2_4_7: Land Reclamation 1925-1933

- Physical Description: Carton 43, folders 8-16; Tubes 50-51; Oversize Box 4, folder 17; Oversize Folder 135
- Scope and Contents
  Contains correspondence, minutes of meetings, reports, and maps relating to two proposed projects: Islais Creek and South Basin Canal. Also includes materials relating to bonds, legal issues, specifications, notes and clippings, and financial reports.

- Islais Creek
  - Correspondence 1927-1933
  - Assessment Commissioners minutes of meetings 1927-1933
  - Reports, includes photographs (supplementary): 2 prints 1925-1931, n.d

- South Basin Canal 1929-1930
  - Map n.d
  - Maps n.d
  - Bonds 1930-1931
  - Henry A. Whitley vs. Islais Creek Reclamation District 1930-1931
  - Notes and clippings 1926-1931
  - Specifications for Rock Bullhead Wall in Trench 1930
  - Financial reports 1930-1932, n.d

2_4_8: Public Utilities Commission, Consulting Engineer Files 1932-1934

- Physical Description: Carton 43, folder 17-30; v. 40-41; Oversize Box 4, folder 18
- Scope and Contents
  When his position as City Engineer was eliminated through reorganization in 1932, O'Shaughnessy was relegated to the role of Consulting Engineer, Hetch Hetchy Water Supply, and his office and files were removed from City Hall to 425 Mason Street. There is one folder containing memoranda and detailed reports of “inspection trips” taken by car, often with one of his daughters, to view water projects throughout California and the Pacific Northwest. The bulk of the files concern his study of the Central Valley Project of the State Water Plan Association, and includes correspondence, reports and background information, notes, print materials, and clippings.

- Memoranda and reports of trips 1932-1934
- Central Valley Project, State Water Plan Association
  - Correspondence 1933-1934
  - Report, "Importance ... to ... Los Angeles Industrial Area," by George W. Dowrie 1933 Dec
  - Background information 1931-1932
  - Notes 1933
  - Print materials
    - Regarding bond measure 1933
Regarding Roosevelt's National Recovery Program for California 1933

Analysis, interpretation, and other published statements 1933

Article, “Central Valley Project,” published in The Argonaut 1934 June

Report to legislature 1931

Sacramento River Basin 1929-1931

San Joaquin River Basin 1931
Salt water problem 1928-1930

Irrigation laws 1909-1931

Clippings 1933-1934

Brochures: "Behind Your Faucet," published by the Public Utilities Commission n.d

Series 3: Professional Activities 1897-1935

Physical Description: Cartons 44-48; Box 17; v. 42; Oversize Box 5, folders 1-8; Oversize Folders 136-142

Scope and Contents
Divided into 4 sub-series: Biographical Information, Professional Organizations, Writings, and Professional Consultations and Investigations. Contains O'Shaughnessy's own statements about his accomplishments as well as comments by others about his life and career, along with files relating to his participation in numerous engineering organizations. Contains drafts and published copies of his writing for the engineering profession, consisting chiefly of articles, and a book, a translation, and a few contributions to works by others. The series concludes with materials O'Shaughnessy gathered during visits to projects of fellow engineers.

Subseries 3_1: Biographical Information 1897-1935

Physical Description: Carton 44, folders 1-2; Oversize Box 5, folders 1-3

Contents
Contains several versions of O'Shaughnessy's own biographical and professional record statements submitted in support of his candidacy for membership in professional organizations. Also includes obituaries, as well as articles and clippings noting honors and tributes awarded throughout his career, plus a few cartoons and caricatures of M. M. O'Shaughnessy.

Arrangement
Arranged hierarchically.

Biographical and professional record 1897-1933
Honorary doctoral degree, University of San Francisco 1930

Obituaries and tributes 1934
Obituaries, honors and tributes 1934-1935, n.d

Caricatures and cartoon sketches 1917-1919, n.d
Subseries 3_2: Professional Organizations 1900-1934

Physical Description: Carton 44, folders 3-62; Carton 45; Carton 46, folders 1-5; v. 42; Oversize Box 5, folders 4-5; Oversize Folder 136

Contents

O'Shaughnessy was active in national, regional, and local engineering associations, societies, and clubs. He frequently presented technical papers and published articles describing both current and past projects, commented on papers written by his peers, served on committees, and organized inspection trips and outings for fellow engineers. Files relating to professional organizations are followed by invitations to speak to various engineering societies outside the San Francisco area and to engineering students at several universities, as well as honorary appointments to state boards and commissions. Includes correspondence, organizational materials, minutes of meetings, typescripts and published versions of articles and speeches, reports, notes, membership rosters, maps, photographs, printed material, and newspaper clippings.

Arrangement

Arranged alphabetically by name of organization, and then hierarchically. Files relating to national organizations or to local sections and chapters appear first, depending on O'Shaughnessy's level of participation, as reflected in his papers.

carton 44, folder 3
American Association of Engineers - correspondence 1917-1929
American Association of Engineers, San Francisco Chapter and East Bay Club
Correspondence 1918-1924
Tenth Annual convention, San Francisco 1924 June
Reports of Special Committee on Hetch Hetchy Power, and Committee on Public Affairs 1924

American Institute of Mining and Mechanical Engineers - correspondence 1922-1923
American Society for Testing Materials 1916-1933
American Society of Civil Engineers, San Francisco Section
Organization and Bylaws 1905
Meeting proceedings 1916-1934

Correspondence 1915-1924

Papers presented by M. M. O'Shaughnessy
"Some Observations, Professional and Otherwise, Made in Connection with a Recent Journey East," Palace Hotel 1916 April 18
"The Tunnels of San Francisco" 1917 Oct. 16

[Acceptance speech as President] 1920 Feb. 17

"Water Resources Investigation of the State" 1922 June
"Hetch Hetchy Water Supply Construction Plans," Hotel St. Francis 1925 June 23
"Hetch Hetchy Water Supply Project" 1926 Dec

"Recent Construction on the Hetch Hetchy Project," including text of talk by L. W. Stocker, Chief Civil Engineer, Hetch Hetchy Water Supply 1932 June 21
Inspection trips and excursions
Twin Peaks tunnel and Ocean Esplanade 1916 June
Mare Island Navy Yard, Vallejo 1919 May
Alpine Dam, Marin Municipal Water District 1920 May
Special excursion over Hetch Hetchy Project 1920 June

Colusa and points on the Sacramento River 1921 April 2-3

Caribou Development of the Great Western Power Company, Lake Almanor and Feather River [with the Engineers' Club of San Francisco?] 1921 April 16

San Pablo Dam, East Bay Water Company 1921 Oct

Includes photographs (duplicate): 9 prints

Mare Island Navy Yard and Milliken Dam 1923 March, 1923 Oct

Excéquér Dam of the Merced Irrigation District and Pleasant Valley Bridge of Yosemite Rail Road, includes photographs (supplementary): 15 prints

Stockton Dam, Calaveras Cement Plant, and Pardee Dam, includes photographs (supplementary): 12 prints 1930 April


Plans, includes photographs (supplementary): 10 prints 1929

San Joaquin Pipe Line, and Coast Range Tunnel, with East Bay Section 1931 Oct., 1931 Dec

Resolution regarding M. M. O'Shaughnessy as City Engineer of San Francisco 1930 Aug

American Society of Civil Engineers, (N.Y.)
Correspondence 1910-1933

Sub-Structure Engineering Committee 1931-1932

Papers presented by M.M. O'Shaughnessy

"Construction of the Morena Rock Fill Dam, San Diego County, California" 1911 Dec. 20

"Final Discussion of Paper on Morena Rock-Fill Dam 1912

The Water System of the Southern California Mountain Water Company" 1912 April 19

"Construction Progress of the Hetch Hetchy Water Supply of San Francisco, California" 1922 Dec

"Ocean Beach Esplanade, San Francisco, California" 1924

Discussions on papers presented by others

Correspondence 1914-1933

"The Reconstruction of the Stony River Dam," by F.W. Scheidenhelm [1917]-1920

"Hydraulic Fill Dams," by Allen Hazen 1920

"Multiple-Arch Dam at Gem Lake on Rush Creek, California," by Fred O. Dolson and Walter L. Huber [1925]

"Problems in Concrete Dam Construction," by Arthur S. Bent [1926]

"Historic Review of the Development of Sanitary Engineering in the U.S. ... a Symposium," by George W. Fuller, et.al. [1927]


carton 44, folder 49
"The Plan of Boston, Massachusetts: A Capital City," by Arthur C. Comey
1933 March
"High Dams on Pervious Glacial Drift," by Edward W. Burd 1933 April

International Engineering Congress, San Francisco
Correspondence 1913-1915
Papers presented by M. M. O'Shaughnessy - "Irrigation in the Hawaiian Islands" 1904 Oct
Discussions on papers presented by others
"City Planning," by Nelson P. Lewis [1915]
"London Traffic in 1913," by Albert Stanley [1915]
"Streets," by George W. Tillson [1915]
"Utilities," by A. C. Humphreys, and "Public Utilities," by Edward Willis [1915]

Fall meeting, San Francisco
Correspondence and lists of members and guests, including reprint of "Plant and Program on the Hetch Hetchy Dam," from Engineering News-Record, v. 89, no. 12 1922 Oct. 4-8
Hetch Hetchy Water Supply Excursion 1922 Oct. 5-8
Annual convention, Pasadena - Presidential Address: "Historical Notes on Engineers and Engineering Activities In California," by C. E. Grunsky 1924 June
Annual convention, Yellowstone National Park - correspondence and printed material, includes photographs (6); prints taken by Daniel W. Mead 1932 July
Membership endorsements 1910-1932

Forms and information 1905-1932
Print materials 1914-1934

American Society of Mechanical Engineers - correspondence 1916-1929
American Water Works Association
Correspondence, meetings 1916-1932
Articles by M. M. O'Shaughnessy
"The Hetch Hetchy Water Supply of the City of San Francisco" 1922 Sept
"Prevention of Pollution of Watersheds" 1924 Aug
"San Francisco Water Supply Progress" 1928 June
"Power Plant Aids Water Department" 1928 Sept
"Solving Problems as They Are Met in a Great Water Supply Project" 1929 June 19
"Moccasin Dam of San Francisco Hetch Hetchy System" 1929 Aug
"San Francisco Buys a Water System" 1930 April
"Emergency Measures Avert Water Shortage in San Francisco" 1931 May
"San Francisco's Water Supply" 1931 May
"Hetch Hetchy Water Supply" 1933 May

American Water Works Association, California Section - first annual meeting, San Francisco 1920
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<th>Carton</th>
<th>Folder</th>
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<tr>
<td>45,</td>
<td>17</td>
<td>Correspondence and reports 1918-1929</td>
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<td>45,</td>
<td>18</td>
<td>California Association of Civil Engineers - constitution, by-laws, rules and regulations 1900</td>
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<td>45,</td>
<td>19</td>
<td>Committee on Arch Dam Investigation</td>
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<tr>
<td>45,</td>
<td>20</td>
<td>Background information, outline of work, references, and list of members 1922-1924</td>
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<td>45,</td>
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<td>Correspondence 1922-1924</td>
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<td>45,</td>
<td>22-25</td>
<td>Correspondence, memoranda and reports 1926-1933</td>
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<td>45,</td>
<td>26-31</td>
<td>Letters of April and July 1926 includes photographs (supplementary): 2 prints</td>
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<td>32</td>
<td>Sub-committee on Construction and Tests, Stevenson Creek Test Dam</td>
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<td>33</td>
<td>reports and minutes of meetings 1926-1927</td>
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<td>45,</td>
<td>34</td>
<td>Plans 1928</td>
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<td>45,</td>
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<td>Engineering notes 1926</td>
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<td>45,</td>
<td>36</td>
<td>Arch dams study 1924, n.d</td>
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<td>45,</td>
<td>37</td>
<td>Cain Formula, Kramer Curves; Cain Formula, Fowler Curves 1927</td>
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<tr>
<td>45,</td>
<td>38</td>
<td>Report, vol. 1, published in <em>Proceedings of the American Society of Civil Engineers</em> 1928 May</td>
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<tr>
<td>45,</td>
<td>39</td>
<td>Report on Repairing and Strengthening of the Lake Pleasant Multiple Arch Dam 1927</td>
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<tr>
<td>45,</td>
<td>40</td>
<td>Report on Emigrant Creek Dam, Talent, Oregon, by F. A. Noetzli S. M. Cotton 1929</td>
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<tr>
<td>45,</td>
<td>41</td>
<td>Articles and clippings 1919-1929</td>
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<tr>
<td>45,</td>
<td>42</td>
<td>Sub-committee on Model Tests, conducted by the Bureau of Reclamation at the University of Colorado, J. L. Savage, Chairman, et. al. 1931 June</td>
</tr>
<tr>
<td>45,</td>
<td>43</td>
<td>Engineers' Club of San Francisco</td>
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<td>45,</td>
<td>44</td>
<td>Correspondence, notices and rosters 1914-1932</td>
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<td>45,</td>
<td>45</td>
<td>Address on &quot;The Water Supply of San Francisco&quot; 1914 Aug. 5</td>
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<tr>
<td>45,</td>
<td>39</td>
<td>Engineer's Luncheon Club, Oakland, Calif.</td>
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<td>40</td>
<td>Correspondence relating to address on &quot;Engineering Problems of a Great City&quot; 1922 Nov. 16</td>
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<tr>
<td>45,</td>
<td>41</td>
<td>Address on &quot;The Transbay Bridge&quot; 1929 Oct. 18</td>
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<tr>
<td>45,</td>
<td>42</td>
<td>The Pacific Association of Consulting Engineers - constitution and by-laws, correspondence, meeting announcements and minutes, membership roster, and receipts 1913-1927</td>
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<td>45,</td>
<td>43</td>
<td>San Francisco Joint Council of Engineering Societies 1920</td>
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<tr>
<td>45,</td>
<td>44</td>
<td>San Francisco Municipal Engineering Association - newsletter, No. 9 1918 Aug</td>
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<tr>
<td>45,</td>
<td>45</td>
<td>Society of Military Engineers</td>
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<tr>
<td>45,</td>
<td>46</td>
<td>Correspondence 1920-1928</td>
</tr>
<tr>
<td></td>
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<td>Meeting announcements, minutes, memoranda, and membership directory 1924-1930</td>
</tr>
</tbody>
</table>
### Articles and speeches by M. M. O'Shaughnessy

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<tr>
<th>Carton-Folder</th>
<th>Title</th>
<th>Date</th>
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<tbody>
<tr>
<td>carton 45,</td>
<td>Talk [on rebuilding of San Francisco and Hetch Hetchy Project]</td>
<td>1921 March</td>
</tr>
<tr>
<td>folder 46</td>
<td>&quot;Rebuilding San Francisco After the Fire&quot;</td>
<td>1922 Nov.-Dec</td>
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<tr>
<td>carton 45,</td>
<td>&quot;Boulevard System in San Francisco Approaching Completion&quot;</td>
<td>1931 Nov.-Dec</td>
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<tr>
<td>folder 47</td>
<td>Invitations to speak to engineering societies outside San Francisco Bay Area, including: 1911-1920s Civil Engineers Society [New York] Engineers Club of Sacramento</td>
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<tr>
<td>carton 46,</td>
<td>Invitations to speak to engineering students, including: 1912-1928 Stanford University; University of California, Berkeley; University of Santa Clara; University of Virginia</td>
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<tr>
<td>folder 2</td>
<td>Honorary appointments</td>
<td></td>
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<tr>
<td>carton 46,</td>
<td>Examinating Board, California Highway Commission Correspondence and notes</td>
<td>1926 Jan</td>
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<tr>
<td>folder 3</td>
<td>Honorary Advisory Committee of Engineers, California Water Resources Commission - correspondence and reports 1931-1932</td>
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</tbody>
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### Physical Description:
Carton 46, folders 6-50; Box 17; Oversize Box 5, folder 6

### Contents
Chiefly contains typescripts and published copies, if available, of O'Shaughnessy's writings intended for his engineering colleagues and professional peers, along with related correspondence, notes, clippings, and printed materials.

### Arrangement
Divided into 3 otherlevel: Articles, Books, and Translations and Contributions.

#### 3_3_1: Articles 1902-1934, n.d

<table>
<thead>
<tr>
<th>Carton-Folder</th>
<th>Title</th>
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<tr>
<td>carton 46,</td>
<td>&quot;Irrigation,&quot; <em>The Hawaiian Planters' Monthly</em>, published for The Hawaiian Sugar Planters' Association</td>
<td>1902 Dec</td>
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<tr>
<td>folder 6</td>
<td>&quot;San Diego's Unlimited Water Supply,&quot; <em>Engineering News</em>, and <em>The Engineering Record</em></td>
<td>1907-1908</td>
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<tr>
<td>carton 46,</td>
<td>&quot;The Water Resources of San Diego County&quot; ca. 1908</td>
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<tr>
<td>folder 7</td>
<td>&quot;Water Company Plans to Protect Against Famine&quot; ca. 1908</td>
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<td>carton 46,</td>
<td>&quot;Irrigation Works in the Hawaiian Islands,&quot; <em>The Engineering Record</em> and <em>Journal of Electricity</em></td>
<td>1909</td>
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<td>carton 46,</td>
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<td>carton 46,</td>
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<tr>
<td>folder 10</td>
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</tbody>
</table>
“A Large Blast at Morena Dam, California,” Engineering News 1909 Dec

“The Morena Rock-Fill Dam, California,” Engineering News 1913 June

[“Dam Designing and Construction"], Journal of Electricity Power and Gas [1914]

“The Municipal Engineering Works of the City of San Francisco,” reprinted from Pacific Coast Number of Engineering News, Feb. 18, 1915 1915 Feb

“Editorial: Safety in Dam Design,” Engineering Record 1916 Feb

“The Boulevard System of San Francisco,” Western Engineering 1916 May

“Civic Growth: Its Place in Industry,” Journal of Electricity and Western Industry [ca. 1920]

“The Hetch Hetchy Water Supply of the City of San Francisco,” Engineering (London) 1920 July

“Construction Features of Hetch Hetchy Dam,” Engineering and Contracting 1922 March

“The Hetch Hetchy Water and Power Project; What San Francisco is Doing to Insure Its Future Water Supply,” Pacific Engineer, v. III, no. 8 1922 Aug

“Outstanding Features of the Hetch Hetchy Water Supply,” California Engineer, v. 1, no. 1 1923 Jan

“Recent Activity on the Hetch Hetchy Water Supply,” Pacific Engineer, v. IV, no. 6 1923 June

“Hetch Hetchy- San Francisco’s Great Water and Power Project,” Western Pipe and Steel News, v. I, no. 8 1924 Dec

“Replying to Letter of C. E. Grunsky to Engineering News Record : Cost of Power from San Francisco’s Municipal Plant” 1926 March


“San Francisco’s Boulevard Construction,” Engineering News-Record 1928 Nov

“The City Engineer,” Professional Engineer 1929 Jan

“Hetch Hetchy Water Supply for the City of San Francisco,” Engineering (London) 1929 Jan


“Shannon Power Scheme” [“Irish Power from Shannon Nearly Ready"], San Francisco Chronicle 1929 Sept

“Pipe Lines of the Hetch Hetchy Aqueduct,” Engineering News-Record 1930 March

[Letter regarding discussion on erosion by Professors Terzaghi and Krynine; includes description of slides at Olympic Club Grounds, San Francisco 1931 July 16

“The San Joaquin Division of Hetch Hetchy,” Western Pipe and Steel News, v. VIII, no. 2 1931 Sept

“Article for Western Construction News” [Construction of Hetch Hetchy Road] [1931]

“Discussion on Boulder Dam” 1934 April

“Priest Dam on the Hetch Hetchy Aqueduct,” Civil Engineering 1934 May

Correspondence with publishers regarding articles 1913-1929
Series 3: Professional Activities 1897-1935
Subseries 3_3: Writings 1902-1934

Finding Aid to the M.M. (Michael Maurice) O'Shaughnessy papers

BANC MSS 92/808 c 70

3_3_2: Books 1934, n.d

Physical Description: Box 17; Carton 46, folder 38

Contents

Contains typescript drafts and correspondence related to the publication of O'Shaughnessy's book on Hetch Hetchy, along with his personal copy. Also included here is another work, a recollection of his engineering career, which was never published.

Hetch Hetchy: Its Origin and History

Typescripts, drafts 1 and 2 1934

M.M. O'Shaughnessy's copy of published book 1934

Correspondence and bids from printers 1934 Aug

Correspondence with the Recorder, Printing and Publishing Co., and Beck-Gerlach Printing Co. 1934 Aug

Correspondence with John Newbegin - bookseller, publicity, and mailing lists 1934 Oct

Acknowledgements 1934 Oct

"Engineering Experiences: From Honolulu to Hetch Hetchy" n.d

3_3_3: Translations and Contributions 1911-1931

Physical Description: Carton 46, folders 39-50; Oversize Box 5, folder 6

Contents

Includes O'Shaughnessy's translation of Prof. Fantoli's report on rock fill dams in Italy, as well as the original report (in Italian), correspondence, clippings, and print materials relating to Fantoli and to irrigation and engineering in Italy.

Contributions to works by other engineers consist mainly of O'Shaughnessy's revisions and corrections to portions of textbooks on dam construction, plus two chapters on the engineering profession. Includes corrected typescripts and correspondence.

Arrangement

Arranged chronologically.

Report on Rock Fill Dams [in Italy] by Professor Comm. G. Fantoli

Corrected typescript, with report in Italian 1918

Typescript translation 1918

Comments on Prof. Fantoli and correspondence, including letters from Carlo Bonomi, 1924 1920-1924

Article about Prof. Fantoli 1925 Nov

Print materials relating to irrigation in Italy 1907

Print materials relating to engineering in Italy 1912-1925

Schuyler, James D., Reservoirs - corrections to text on Barrett and Morena Dams 1911

Wegmann, Edward, The Design and Construction of Dams 1921-1928

Correspondence of Fred A. Noetzli and J. G. Tripp regarding Report on Lake Pleasant Dam, Arizona [used in chapter by M.M.O'S. ] 1926-1927

Bogert, C. L., Water Works Hand Book - correspondence 1923-1927

"The City Engineer," chapter for The Engineer , published by American Association of Engineers 1929
Subseries 3_4: Professional Consultations And Investigations 1908-1934

Physical Description: Cartons 47-48; Oversize Box 5, folders 7-8; Oversize Folders 137-142

Contents

Consists of files related to various projects on which O'Shaughnessy consulted as a professional courtesy to his fellow engineers—or resulting from his own interest in their work. These differ from his work as a consulting engineer in that he had no official role on these projects and was not compensated. Occasionally he would write and sometimes publish articles on his findings, as with the Shannon Power Scheme and the Boulder Canyon Project, but more often O'Shaughnessy simply retained these files for reference purposes. There is some evidence that plans and drawings he gathered in connection with these trips may have been maintained in his office while San Francisco City Engineer. Includes correspondence, notes, reports, plans and specifications, maps, clippings, and printed materials.

Arrangement

Arranged chronologically.

Roosevelt Dam, Arizona, Chester N. Smith, U.S. Geological Survey - specifications, costs, proposal 1908-1911

Denver Union Water Company

Correspondence 1910-1914

Reports and maps 1910

Statistics 1913

Map n.d

Moffat Water Tunnel - correspondence, includes photographs (supplementary): 8 prints 1930 April

City of Sacramento, water supply study

Notes by Charles Gilman Hyde, and clippings 1910 April

Prospectus 1912

Contracts and proposals 1915

Sacramento River survey by Stanley, Kraemer Hunter, U.S. Army Corps of Engineers 1909

Arrowhead Dam Failure, San Bernardino - correspondence, notes, and clippings 1910 May

Mission Tunnel, Santa Barbara

Correspondence 1911 Jan.-April

Articles and clippings 1910-1912

Pit River Development, Pacific Gas Electric Co.

Notes on trip, clippings 1921

Report of inspection by C. M. Taylor, includes photographs (supplementary): 23 prints 1922

Report of inspection by L. G. Degnan, includes photographs (supplementary): 14 prints 1924 May

Articles 1921-1923

Muscle Shoals Power Project, Tennessee River, Alabama (Henry Ford) - correspondence, reports, print materials, clippings 1921-1932

Shannon Hydro-Electric Power Scheme (Ireland)

Correspondence 1927-1933

Plan, "Suggested City of Dublin Water Supply from Poulaphuca" 1923-1924
<table>
<thead>
<tr>
<th>Carton 47, Folder 18-22</th>
<th>Printed materials 1910-1933</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carton 47, Folder 23</td>
<td>Clippings 1925-1934</td>
</tr>
</tbody>
</table>

**San Gabriel Dam, Los Angeles County Flood Control District**

- Correspondence and articles 1924-1932
- Report by J. W. Reagan, Chief Engineer 1924
- Specifications 1927-1928
- Print materials [1923]-1925
- Clippings 1924-1932

**Shoshone Dam, Powell, Wyoming - correspondence, includes photographs (supplementary): 6 prints 1925 July**

**Boulder Canyon Project**

- Correspondence 1923-1934
- Notes 1930-1932
- Notes on trip 1934 March
- Memorandum of trip by R. L. Allin (and C. L. Cook), includes photographs (supplementary): 21 prints 1933 Nov
- Memorandum of trip by John H. Ryan 1934 April
- Reports Colorado River Board of Engineers to Secretary of the Interior 1928 Nov
- U. S. Dept. of the Interior [on rate charge for power] 1929
- [on Energy from Boulder Canyon Dam... to San Diego] by N. A. Eckart 1931 April
- Specifications, Hoover Dam, Power Plant and Appurtenant Works 1930 Dec
- Print materials Colorado River 1923-1930
- Congressional bills and reports 1928
- Boulder Dam 1928-1934
- "Boulder Canyon Project—Questions and Answers" 1930-1933
- Hoover Dam 1931-1934
- Clippings 1928-1932

**Metropolitan Water Company of Southern California**

- Correspondence and notes 1924-1934

**San Jacinto Tunnel**

- Correspondence and notes relating to water flow in Potrero Shaft 1934 July
- Specifications 1932

**Print materials relating to Owens Valley Water**

- Geology and Resources of Owens Valley, California by Willis T. Lee 1906
- The Conspiracy; an exposure of the Owens River Water and San Fernando Land Frauds by W. T. Spilman 1912
- An Intensive Study of the Water Resources Of a Part of Owens Valley, California by Charles H. Lee 1912
<table>
<thead>
<tr>
<th>carton 48, folder 22</th>
<th>Reports on the Sanitary Investigation of Owens River and the Los Angeles Aqueduct [1914]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>[Senate] Hearings before the Committee on Irrigation and Reclamation, El Centro, Calif. 1925</td>
</tr>
<tr>
<td></td>
<td>Communication to the California Legislature Relating to the Owens Valley Water Situation; 1931 April</td>
</tr>
<tr>
<td></td>
<td>Facts Concerning the Owens Valley Reparations Claims... from the Dept. of Water and Power, City of Los Angeles n.d</td>
</tr>
<tr>
<td></td>
<td>Print materials 1911, n.d</td>
</tr>
<tr>
<td>carton 48, folder 22</td>
<td>Colorado River Aqueduct News, (v. 1, Nos. 6, 8-17) 1934</td>
</tr>
<tr>
<td>carton 48, folder 23</td>
<td>Clippings 1929-1932</td>
</tr>
<tr>
<td>carton 48, folder 24</td>
<td>Clippings 1922</td>
</tr>
<tr>
<td>carton 48, folder 25</td>
<td>Alameda-Oakland Estuary Tunnel</td>
</tr>
<tr>
<td>oversize 5, folder 7</td>
<td>Correspondence with editor and A. R. Baker, including typescript of article 1928</td>
</tr>
<tr>
<td>oversize 8, folder 7</td>
<td>Plans, specifications, notes, and print materials 1925-1928</td>
</tr>
<tr>
<td>oversize 142 C, folder 28</td>
<td>Plans 1924</td>
</tr>
<tr>
<td>oversize 142 C, folder 28</td>
<td>Plans 1926</td>
</tr>
<tr>
<td>oversize 142 C, folder 28</td>
<td>Bonneville Dam, Columbia River, Portland, Oregon - correspondence, specifications, clippings 1933-1934</td>
</tr>
</tbody>
</table>

**Series 4: Engineering Notes and Reference Materials ca. 1900-1934**

**Physical Description:** Cartons 49-51; Boxes 18-19; Oversize Box 5, folders 9-11

**Contents**
Contains field notebooks and other detailed notes with calculations relating to O'Shaughnessy's various projects, along with reference materials on general topics of interest to, and possibly maintained in, the San Francisco City Engineer's office.

### Subseries 4.1: Notebooks and Notes 1900-1932

**Physical Description:** Boxes 18-19; Carton 49, folders 1-5

**Contents**
Consists of small "pocket" notebooks in which O'Shaughnessy recorded field measurements, calculations, and related information for current projects. Some notebooks are titled by project, while others cover several projects for each year. Folders containing loose pages with similar types of notations follow the small bound volumes.

**Arrangement**
Arranged chronologically.

| box 18, folder 1 | Hawaii 1900 |
| box 18, folder 2 | Makaweli Ditch, Olokele Valley, Hawaii 1901 |
| box 18, folder 3 | Makaweli, Hawaii [1901]-1903 |
| box 18, folder 4 | Koolau Ditch, Hawaii 1902-1903 |
| box 18, folder 5 | Hawaii 1903 |
| box 18, folder 6 | Kohala Ditch, Hawaii 1903-1906 |
| box 18, folder 7 | [Southern California Mountain Water Co.] [1904-1907] |
| box 18, folder 8 | Oahu Sugar, Hawaii 1905 |
| box 18, folder 9 | Kohala Ditch, Hawaii 1906 |
| box 18, folder 10 | Kohala Ditch, Wailoa Extension, Hawaii 1906-1907 |
| box 18, folder 11 | [San Diego, Calif.] 1907-1908 |
Subseries 4_2: Reference Materials [ca. 1900-1934]

Physical Description: Carton 49, folders 6-18; Cartons 50-51; Oversize Box 5, folders 9-11

Contents

Consists of subject files containing printed materials and newspaper clippings on topics of personal interest to O'Shaughnessy. Although most of the materials are marked "personal," there is some evidence that these materials may have been kept in his office while San Francisco City Engineer and maintained by some of his assistants.

Arrangement

Arranged alphabetically.

carton 49, folder 6
Bridges

carton 49, folder 7
Building construction

carton 49, folder 8
City planning

carton 49, folder 9
Climate

carton 49, folder 10
Concrete

carton 49, folder 11
Construction

carton 49, folder 12
Contractors

carton 49, folder 13
Dam failures

carton 49, folder 14-15
Dam failures, including Austin Dam Failure Study by R. P. McIntosh, 1911

carton 49, folder 16
Dams

carton 49, folder 17
Notes on arched, gravity, earth and rock fill dams

carton 49, folder 18
Earthquakes

carton 49, folder 19
Engineering—France

carton 49, folder 20
Engineers

carton 50, folder 1
Engines and motors

carton 50, folder 2
Erosion and watershed protection
carton 50, folder 3-5
carton 50, folder 6-7

Floods—Sacramento Valley

Geology

Harbor development

Highways and pavement

Hydro-electric power

Irrigation; irrigation flumes, headgates, valves

Mining

Municipal handbooks

Pipe

Public utilities

Railways

Reclamation projects

Refuse and sewage treatment

Reservoirs, canals, tunnels

Steam engines

Surveying

Water flow

Water resources—California: American River, Kings River, Pit River, Santa Clara Valley

Water resources—Oregon

Water supply

Water supply—Kings River, Pacific Slope Basins

Water tanks and towers

Water works systems

Wells and water pumps
Series 5: Personal and Family Papers 1882-1937

Physical Description: Cartons 52-54; Oversize Box 5, folders 12-15; Oversize Folders 143-154; Tube 52

Contents
Contains a small amount of personal correspondence with friends and family, along with some personal items, including an early diary, school notebooks relating to chemistry, geometry, mathematics, and physics, and travel notes and reminiscences from O'Shaughnessy's early years in Mill Valley and again toward the end of his life. Invitations, memberships, and birthday and other greeting cards provide the only evidence of social activity apart from his life as an engineer. Also includes notes regarding his health, and letters of sympathy and tributes following his death.

The bulk of O'Shaughnessy's personal papers relate to the purchase and maintenance of his properties in Mill Valley, San Francisco, Paso Robles, Stockton, and Siskiyou, Shasta, and San Diego counties, as well as mining investments. Other financial records include personal and household accounts, and the protracted settlement of his estate.

Family correspondence includes only a few letters from his mother, siblings, wife, daughters, son, nieces, and various Irish cousins. The series concludes with papers relating to the settlement of the estates of his sister, Margaret Hobson, and his in-laws, John and Sophia Spottiswood, and a few notes on his Irish ancestry.

Arrangement
Arranged hierarchically by type of material, and then chronologically.

- Personal correspondence
  - Miscellaneous, A-Z 1891-1933, n.d
  - Kains, Archibald 1933-1934
  - Regarding charitable contributions 1904-1931
  - Diary 1894-1927
  - Travel
    - Stories and recollections 1902-1905
    - "My Trip Abroad," July 16-Oct. 25, journal and typescript, published article, scrapbooks, and notebook 1925
    - Clippings 1925
  - Excursions around California and Oregon 1933-1934

- Property
  - Mill Valley, including correspondence, plans, specifications, leases, financial records, notebook, printed materials, and clippings 1893-1934
    - Plans, O'Shaughnessy block and house n.d
    - Plans, Tamalpais Union High School addition n.d
    - Clippings relating to Mill Valley 1904
  - San Francisco 1906-1923
    - Plans for driveway, Vallejo Street house 1922
    - Paso Robles, Stockton, Siskiyou County 1895-1921
    - Shasta County maps 1906
    - Shasta Valley map 1907
  - San Ysidro, San Diego County 1913-1921
    - Miscellaneous insurance, tax, and financial records 1896-1932
<table>
<thead>
<tr>
<th>Carton and Folder</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>53, 1-2</td>
<td>Member, Board of Directors, Sarah Dix Hamlin School 1928-1934</td>
</tr>
<tr>
<td>53, 3</td>
<td>Memberships and social activities [ca. 1915-1932]</td>
</tr>
<tr>
<td>53, 4-5</td>
<td>Invitations 1913-1929, n.d</td>
</tr>
<tr>
<td>53, 6-9-15</td>
<td>Investments</td>
</tr>
<tr>
<td>53, 10</td>
<td>Correspondence 1913-1933</td>
</tr>
<tr>
<td>53, 11</td>
<td>Marine View Apartments, San Francisco 1926-1933</td>
</tr>
<tr>
<td>53, 12</td>
<td>Vulcan Rock Company 1908-1918</td>
</tr>
<tr>
<td>53, 13</td>
<td>Mining, including Mexico, South American, and Arizona; copper, silver, and gold 1895-1934</td>
</tr>
<tr>
<td></td>
<td>General</td>
</tr>
<tr>
<td>53, 14</td>
<td>Folder 13 (gold, 1934) includes photographs (supplementary?): 4 prints</td>
</tr>
<tr>
<td>53, 15</td>
<td>Map, H. W. Reeth's Placer mines, Trinity County n.d</td>
</tr>
<tr>
<td>152 C</td>
<td>Map, Silver Gray Mining Co. Quartz Mines, Trinity County n.d</td>
</tr>
<tr>
<td>52, 16</td>
<td>Geological map of the Mother Lode Belt in El Dorado and Amador Counties by Henry Lahiff (reproduction of 1897 map) 1934</td>
</tr>
<tr>
<td>53, 17-18</td>
<td>Oil 1914-1933</td>
</tr>
<tr>
<td>19-21</td>
<td>Personal finance ledger 1893-1895</td>
</tr>
<tr>
<td>22-23</td>
<td>Personal accounts 1919-1932</td>
</tr>
<tr>
<td>13, 1</td>
<td>Household accounts ledgers 1921-1934</td>
</tr>
<tr>
<td>14, 1</td>
<td>M. M. O'Shaughnessy estate 1930-1937</td>
</tr>
<tr>
<td>153 C, 1</td>
<td>Mill Valley property 1934-1936</td>
</tr>
<tr>
<td>4, 2</td>
<td>M.M. O'Shaughnessy chemistry and geometry school notebook 1882 n.d</td>
</tr>
<tr>
<td>54, 3</td>
<td>M.M. O'Shaughnessy mathematical physics school notebook 1883</td>
</tr>
<tr>
<td>54, 4, 1</td>
<td>Scrapbook (clippings: copies of fragments) 1912-1923</td>
</tr>
<tr>
<td>54, 5-6</td>
<td>[Assembled by daughter, Margaret?]</td>
</tr>
<tr>
<td>54, 7-8</td>
<td>Birthdays 1931-1934</td>
</tr>
<tr>
<td>54, 9-10</td>
<td>Greeting cards [mostly undated]</td>
</tr>
<tr>
<td>54, 11-15</td>
<td>Notes relating to health 1920-1923</td>
</tr>
<tr>
<td>54, 11-16</td>
<td>Death of M. M. O'Shaughnessy - obituary, letters of sympathy, tributes 1934-1935</td>
</tr>
<tr>
<td>54, 17-21</td>
<td>Family correspondence</td>
</tr>
<tr>
<td>54, 18-22</td>
<td>Mother n.d</td>
</tr>
<tr>
<td>54, 19-23</td>
<td>Brother, Pat (&quot;Paddy&quot;) 1905-1932, n.d</td>
</tr>
<tr>
<td>54, 24-27</td>
<td>Sister, Alice 1905-1932</td>
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<td>54, 28-31</td>
<td>Sister, Ellie 1914-1922, n.d</td>
</tr>
<tr>
<td>54, 32-35</td>
<td>Sister, Margaret 1912-1933</td>
</tr>
<tr>
<td>54, 36-39</td>
<td>Wife, Mary 1904-1923</td>
</tr>
<tr>
<td>Carton</td>
<td>Folder</td>
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