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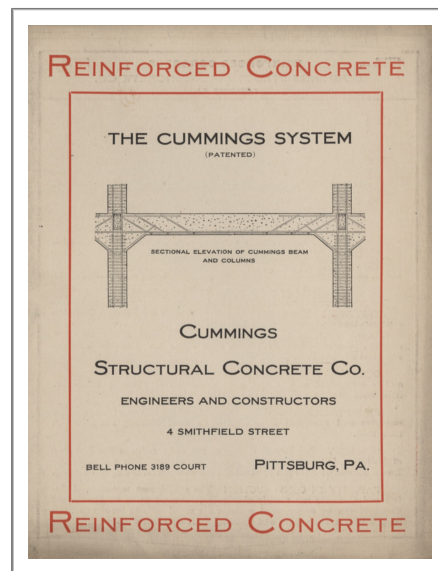
*National Museum of American History Kenneth E. Behring Center*

## Guide to the Cummings Structural Concrete Company Records

NMAH.AC.0218

Erin Molloy

2011



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## Collection Overview

<b>Repository:</b>	Archives Center, National Museum of American History
<b>Title:</b>	Cummings Structural Concrete Company Records
<b>Date:</b>	1884-1952 and undated
<b>Identifier:</b>	NMAH.AC.0218
<b>Creator:</b>	Cummings, Robert A., 1866-1962
<b>Extent:</b>	20 Cubic feet (36 boxes)
<b>Language:</b>	Collection text is in English. Some materials in French and German.

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## Administrative Information

### Acquisition Information

Unknown.

### Provenance

Transferred to the Archives Center from the Division of Mechanical and Civil Engineering, now the Division of Work and Industry on July 31, 1986.

### Processing Information

The collection was processed by Erin Molloy (intern) and supervised by Alison Oswald, archivist, April, 2011.

### Preferred Citation

Cummings Structural Concrete Company Records, 1884-1952 and undated, Archives Center, National Museum of American History

### Restrictions

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## Biographical / Historical

Robert Augustus Cummings (1866-1962) was a consulting civil engineer who worked primarily in Pittsburgh, Pennsylvania. He was born in Norfolk, England and attended the Gresham School at Holt in Norfolk. He trained as a civil engineer with William J. Brewster in his offices, located in Westminster, London, England. During his early

career, he worked as a surveyor and field examiner at the Ordinance Survey of Great Britain and Ireland before he relocated to Canada to conduct engineering work on the Grand Trunk Railroad. During the late 1880s and early 1890s, Cummings was employed as a general draftsman for the Pennsylvania Railroad Company in Philadelphia. He worked later as a designer of heavy dredging machinery for the Bucyrus (Ohio) Steam Shovel and Dredge Company and as an assistant engineer of the Norfolk and Western Railroad in Roanoke, Virginia. Cummings established a firm as a civil and consulting engineer in Philadelphia in 1893 before relocating to Pittsburgh in 1899. He founded the Cummings Structural Concrete Company and the Electric Welding Company in 1900, and in 1902 he founded the Lehigh Valley Testing Laboratory, all of which were located in Pittsburgh, Pennsylvania. In 1936, he partnered with his son in the consulting firm of Robert A. Cummings, Jr. and Associates.

During his career, Cummings worked on the design and construction of a variety of projects, including bridges, warehouses, filtration systems, private residences, machine shops, dry docks and piers, factories, dams, and locks. He additionally conducted railroad and land surveys, researched various types of cement, and designed rock, hydraulic, and elevator dredges. Cummings is best known for inventing the "Cummings System of Reinforced Concrete," in which iron or steel bars are embedded within a mixture of Portland cement, water, sand, and gravel or broken stone. As Cummings stated in a 1904 presentation to the Member Engineers' Society of Western Pennsylvania, reinforced concrete "makes an excellent paint for preserving iron or steel, adhering to the metal very firmly and protecting it thoroughly against corrosion. It can easily be made water tight, and its durability is beyond question. These properties of cement mortar can be utilized in re-enforced concrete. This material is well adapted for molding into a monolithic structure, which does not disintegrate when subjected to shocks such as are produced by railroad trains and vibrates much less for a given load than structural steel. Correctly designed re-enforced concrete structures are not liable to sudden failures, as is the case with ordinary concrete, but gives warning by the falling off of the surface concrete long before the point of failure is reached."

Cummings belonged to a number of professional organizations, including the American Society of Civil Engineers, the Engineering Societies Library Board, the American Railway Engineering Association, the American Society for Testing Materials, and the Institution of Civil Engineers of London, England. He married Mary Eloise Hood on December 14, 1892, and had two children, Robert Augustus Jr. and Eloise Hood. Robert A. Cummings died on October 21, 1962, in Pittsburgh.

## References

Cummings, Robert A. Presentation to the Member Engineers' Society of Western Pennsylvania, Meeting of Structural Section. November 22, 1904.

Hool, George A. *Concrete Engineers Handbook, Data for the Design and Construction of Plain and Reinforced Concrete Structures*. New York: McGraw-Hill Book Company, 1918.

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## Scope and Contents

The Cummings Structural Concrete Company Records consists primarily of correspondence and business records documenting Robert A. Cummings' firm, consulting work, and participation in professional associations, especially the American Society of Civil Engineers, 1892-1893, circa 1900-1939; technical data and publications on soils testing, 1900-1939; and drawings, blueprints, and photographs and glass negatives of construction projects.

**Series 1, Biographical, 1904-1936 and undated** documents the professional life of Robert A. Cummings. There are three subseries within this series: Subseries 1, Cummings System of Reinforced Concrete, 1904-1930 and undated; Subseries 2, Professional Organizations, 1908-1936 and undated; and Subseries 3, Writings, 1908-1939 and undated. This series includes documents related to the Cummings System of Reinforced Concrete, including patents, photographs, and advertisements. The series also includes documents relating to professional organizations such as the Allegheny County Authority, the American Society of Civil Engineers, and the World Engineering Congress. Cummings was also a member of the Soils Committee for the American Society of Civil Engineers, and those documents are included in this series. Cummings wrote published and unpublished articles regarding concrete, soil, and construction methods. His writings are also included in this series.

**Series 2, Operational Records, 1884-1952 and undated** consists of six subseries: Subseries 1, Administrative, 1901-1948 and undated; Subseries 2, Correspondence, 1884-1952 and undated; Subseries 3, Contracts (for projects), 1902-1930 and undated; Subseries 4, Legal Materials, 1907-1916; Subseries 5, Financial, 1894-1921 and undated; and Subseries 6, Personnel, 1918-1921. This series contains the bulk of the information about Cummings' concrete business. Within this series are administrative materials that document the running of the business, including daily reports, bond and insurance papers, specifications, supply notes, field requisitions, and design notebooks. Also included is correspondence to and from Cummings. Recipients of the correspondence include company employees and corporations that did business with the company. A portion of the correspondence is divided topically into subjects such as soil sampling apparatus and barge claims.

The bulk of this series consists of contracts for projects on which Cummings worked. The majority of the projects consist of bridges, water tanks, commercial buildings, and retaining walls. Materials include correspondence, receipts from vendors, hand-written notes, accident reports, blueprints, sketches, and laboratory test reports on materials. The contracts are arranged by contract number as assigned by Cummings. The unnumbered contracts are listed alphabetically. The legal materials consist of documentation that relate to legal matters Cummings dealt with, including the lawsuits *Robert Cummings vs. William J. Stewart*, *Alexander Melville vs. Robert Cummings*, and *Lock Joint Pipe Company vs. Frederick Melber and Electric Welding Company*. This series also contains financial and personnel records, including account books, bills, receipts, proposals, estimates, and business journals, as well as applications for employment, correspondence, and weekly progress reports.

**Series 3, Subject Files, 1891-1949 and undated** consists of correspondence, pamphlets, printed materials, and drawings. The topics within the subject files include soil testing and standards, roads, railroads, minerals, electricity, and concrete barges.

**Series 4, Publications, 1887-1955**, includes published material related concrete. The series is divided into two subseries: publications by title and publications by subject. Included are booklets, articles of incorporations, charters and by-laws, journals, and government publications. Some of the materials are in German or French.

**Series 5, Photographs, 1902-1916 and undated** includes 3" x 5", 8" x 10" and other various sizes of photographic prints. The series contains black and white and sepia toned prints. Some of the prints have been mounted onto cardboard or cloth, and some prints have tape on the corners. Some of the prints are annotated on the back. Most of the images are of construction sites in various stages of progress, the interiors of buildings being constructed, manufacturing equipment, and laborers working. Some of these images document early twentieth century methods of manufacturing, such as the use of rope pulleys.

**Series 6, Photograph Negatives, undated** includes about 75 photograph film negatives. The images in these negatives are primarily of construction scenes, including workers, equipment and work sites.

**Series 7, Glass Plate Negatives, 1889-1918 and undated** includes 8" x 10", 5" x 8", and 3" x 4" glass plate negatives containing images of bridges, slabs of concrete, construction scenes, the interiors and exteriors of hotels, and the interiors and exteriors of railroad stations.

**Series 8, Lantern Slides, undated** includes images of the work of the Cummings Structural Concrete Company on 4.5" x 5" glass slides. The images are of industrial machinery, construction sites, and workers.

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## Arrangement

The collection is arranged into eight series.

### **Series 1: Biographical, 1904-1936 and undated**

Subseries 1.1: Cummings System of Reinforced Concrete, 1904-1930 and undated

Subseries 1.2: Professional Organizations, 1908-1936 and undated

Subseries 1.3: Writings, 1908-1939 and undated

### **Series 2: Operational Records, 1884-1952 and undated**

Subseries 2.1, Administrative, 1901-1948 and undated  
Subseries 2.2: Correspondence, 1884-1952 and undated  
Subseries 2.3: Project Contracts, 1902-1930 and undated  
Subseries 2.4: Legal Materials, 1907-1916  
Subseries 2.5: Financial, 1894-1921 and undated

**Series 3: Subject Files, 1891-1970 and undated**

Subseries 3.1: Alphabetical, 1891-1970  
Subseries 3.2: Testing, 1904-1916

**Series 4: Publications, 1887-1955**

Subseries 4.1: By title, 1887-1953  
Subseries 4.2: By subject, 1902-1940 and undated

**Series 5: Photographs, 1902-1916 and undated**

**Series 6: Photograph Negatives, undated**

**Series 7: Glass Plate Negatives, 1889-1918 and undated**

**Series 8: Lantern Slides, undated**

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## Names and Subject Terms

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

Subjects:

- Civil engineering
- Concrete construction
- Engineering
- Reinforced concrete

Types of Materials:

- Blueprints
- Business records
- Drawings
- Glass negatives
- Negatives
- Photographs -- 1900-1950
- Research (document genres)

Names:

- American Society of Civil Engineers.

Places:

- Pittsburgh (Pa.)

## Container Listing

### Series 1: Biographical, 1904-1936 and undated

#### Subseries 1.1: Cummings System of Reinforced Concrete, 1904-1930 and undated

Box 1, Folder 1 Cummings System of Reinforced Concrete, undated

Box 1, Folder 2 Cummings System of Reinforced Concrete, 1905-1906 and undated

Box 1, Folder 3 Cummings System of Reinforced Concrete, 1907-1930 and undated

[Welding reinforcement for concrete by Electric Welding Company \[photoprint\], Circa early 1900s](#)

1 Item (3.8" x 4.8")

Collector: Cummings Structural Concrete Company

Language: English.

Notes: AC0218-0000003 (AC Scan No.)

Silver gelatin on paper.

In box 1 ?, folder ?

Unrestricted research use by appointment. Photographs must be handled with cotton gloves unless protected by sleeves.

From US Shipping Board, Concrete Ship Construction Department.

Topic: Reinforced concrete  
Concrete construction  
Shipbuilding

Genre/Form: Photographs -- 1900-1950

[Reinforced Concrete - The Cummings System \[pamphlet\], Circa 1907](#)

1 Item (Ink on paper.; 3.5" x 2.6")

Collector: Cummings Structural Concrete Company

Language: English.

Notes: AC0218-0000001 (AC Scan No.)

In box 1, folder ?

Topic: Reinforced concrete  
Concrete construction

Genre/Form: Pamphlets

[Cummings System of Reinforced Concrete \[pamphlet\], undated](#)

1 Item (Ink on paper.; 1.6" x 3.1")

Collector: Cummings Structural Concrete Company

Language: English.

Notes: AC0218-0000002 (AC Scan No.)

In box 1, folder ?

Scan of interior page.  
 Topic: Reinforced concrete  
 Concrete construction  
 Genre/Form: Pamphlets

Box 1, Folder 4	Patents, 1904 and undated
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## Subseries 1.2: Professional Organizations, 1908-1936 and undated

Box 1, Folder 5	Allegheny County Authority, general, 1934-1936
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Box 1, Folder 6	Allegheny County Authority, bridge stone, 1935
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Box 1, Folder 7	Allegheny County Authority, boring and sampling soils, 1935
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Box 1, Folder 8	Allegheny County Authority, clippings, 1935
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Box 1, Folder 9	Allegheny County Authority, concrete piling, 1935-1936
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Box 1, Folder 10	Allegheny County Authority, low heat hardening cement, 1935
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Box 1, Folder 11	Allegheny County Authority, report on Wichhart truss and Homestead bridge, 1935
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Box 1, Folder 12	Allegheny County Authority, river front improvement, 1935
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Box 1, Folder 13	Allegheny County Authority, technical data on bridge steel, 1926-1935 and undated
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Box 1, Folder 14	American Society of Civil Engineers, application form templates, 1915-1916 and undated
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Box 1, Folder 15	American Society of Civil Engineers, articles published, 1915-1934
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Box 1, Folder 16	American Society of Civil Engineers, correspondence, 1931-1939
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Box 1, Folder 17	American Society of Civil Engineers, correspondence with E. G. Haines, 1917-1919
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Box 1, Folder 18	American Society of Civil Engineers, correspondence with H. McDonald, 1915-1916 and undated
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Box 1, Folder 19	American Society of Civil Engineers, correspondence with Carles Warren Hunt, 1914-1918
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Box 1, Folder 20	American Society of Civil Engineers, funded job at LeHigh, 1914
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Box 1, Folder 21	American Society of Civil Engineers, library, 1923
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Box 1, Folder 22	American Society of Civil Engineers, members, 1915-1923
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Box 1, Folder 23	American Society of Civil Engineers, progress reports, 1922-1925
Box 1, Folder 24	American Society of Civil Engineers, secretary, 1920
Box 1, Folder 25	Soils Committee, circular, correspondence, general, 1913-1916 and undated
Box 1, Folder 26	Soils Committee, circular, correspondence, to Soils Committee members, 1914-1916
Box 1, Folder 27	Soils Committee, circular, correspondence, to local societies, 1915
Box 1, Folder 28	Soils Committee, circular, Number 1 questionnaire, 1914-1915 and undated
Box 1, Folder 29	Soils Committee, committee member: Frank M. Kerr, 1913-1915
Box 1, Folder 30	Soils Committee, committee member: E.C. Shankland, 1913-1915
Box 1, Folder 31	Soils Committee, committee member: Samuel T. Wagner, 1913-1915
Box 1, Folder 32	Soils Committee, communication investigating work of Soils Committee, 1916
Box 1, Folder 33	Soils Committee, correspondence with Walter Douglas, 1912-1915
Box 1, Folder 34	Soils Committee, correspondence with Walter Douglas, 1915-1918
Box 1, Folder 35	Soils Committee, correspondence, 1912-1914
Box 2, Folder 1	Soils Committee, correspondence, 1915-1916
Box 2, Folder 2	Soils Committee, correspondence, 1917-1920
Box 2, Folder 3	Soils Committee, correspondence, 1921
Box 2, Folder 4	Soils Committee, correspondence, 1922
Box 2, Folder 5	Soils Committee, correspondence, 1923-1939 and undated
Box 2, Folder 6	Soils Committee, definitions and classifications, 1914-1916 and undated
Box 2, Folder 7	Soils Committee, equipment tests, 1914-1917 and undated
Box 2, Folder 8	Soils Committee, equipment tests, 1918-1936 and undated
Box 2, Folder 9	Soils Committee, equipment tests, sand and clay, 1916-1917 and undated
Box 2, Folder 10	Soils Committee, financial, 1914-1926

Box 2, Folder 11	Soils Committee, investigation of soils, correspondence to university professors, 1917-1918
Box 2, Folder 12	Soils Committee, meeting minutes, 1917-1926
Box 2, Folder 13	Soils Committee, reports of committee meetings, 1915-1925 and undated
Box 2, Folder 14	Soils Committee, resolution to be presented to the American Society of Civil Engineers, 1908-1912
Box 2, Folder 15	Soils Committee, progress reports, 1920-1922 and undated
Box 2, Folder 16	Soils Committee, progress reports, 1922-1924 and undated
Box 2, Folder 17	Soils Committee, progress report, plan and scope of investigation, 1916-1921 and undated
Box 2, Folder 18	Engineers' Society of Western Pennsylvania, 1910
Box 2, Folder 19	World Engineering Congress, general, 1929
Box 2, Folder 20	World Engineering Congress, programs and announcements, 1929
Box 2, Folder 21	World Engineering Congress, lists of members, 1929
Box 3, Folder 1	World Engineering Congress, publication, Authors' Index, 1929
Box 3, Folder 2	World Engineering Congress, publication, International Engineering, George Otis Smith, 1930
Box 3, Folder 3	World Engineering Congress, publication, The Port of Yokohama from an Engineering Point of View, 1929

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### Subseries 1.3: Writings, 1908-1939 and undated

Box 3, Folder 4	"Bearing Value of Soils", 1921
Box 3, Folder 5	"Construction Methods Used on the Plant of the National Casket Company at Ashville, North Carolina," 1910
Box 3, Folder 6	"The Engineer in the Community," Address to Youngstown Engineers' Club, December 17, 1914
Box 3, Folder 7	"Flow of the Hydraulic Fill at Fort Peck Dam", May 1939
Box 3, Folder 8	"Large Hydraulic Testing Machine for Uniform Loads", 1905

Box 3, Folder 9	"Mineralogical Composition of Some Important Soils", undated
Box 3, Folder 10	"Notes on the Bearing Value of Rods Embedded in Concrete", undated
Box 3, Folder 11	"Proposed Methods for the Reinforcement of Concrete Compression Members", undated
Box 3, Folder 12	"Reinforced Concrete Piles", 1909-1914 and undated
Box 3, Folder 13	"Soils in Relation to Allowable Pressures Thereon", 1916
Box 3, Folder 14	"Soils in Relation to Allowable Pressures Thereon," correspondence, 1915-1916
Box 3, Folder 15	"Theory Involved in Elutriation Methods", undated
Box 3, Folder 16	Miscellaneous, 1908-1910 and undated
Box 3, Folder 17	1.4: <a href="#">Photographs, 1905-1918 and undated</a> Notes: File includes a portrait of Robert A. Cummings.

[Robert A. Cummings, Jr. holding Cummings reinforced system \[photoprint\], Circa 1905](#)

1 Item (4.1" x 3.5")

Collector: Cummings Structural Concrete Company

Language: English.

Notes: AC0218-000006 (AC Scan No.)

Silver gelatin on paper.

In box 3, folder ?

Unrestricted research use by appointment. Photographs must be handled with cotton gloves unless protected by sleeves.

Topic: Reinforced concrete

Concrete construction

Genre/Form: Photographs -- 1900-1950

[Cummings system of concrete column reinforcing \[photoprint\], 1913](#)

1 Item (4.4" x 3.4")

Collector: Cummings Structural Concrete Company

Language: English.

Notes: AC0218-000007 (AC Scan No.)

Silver gelatin on paper.

In box 3, folder ?

Unrestricted research use by appointment. Photographs must be handled with cotton gloves unless protected by sleeves.

Topic: Reinforced concrete

Concrete construction

Genre/Form: Photographs -- 1900-1950

[Robert A. Cummings \[photoprint\], undated](#)

1 Item (4.7" x 3.3")

Collector: Cummings Structural Concrete Company

Language: English.

Notes: AC0218-0000008 (AC Scan No.)

Silver gelatin on paper.

In box 3, folder ?

Unrestricted research use by appointment. Photographs must be handled with cotton gloves unless protected by sleeves.

Names: Cummings, Robert A., 1866-1962

Topic: Reinforced concrete

Concrete construction

Genre/Form: Photographs -- 1900-1950

[Cummings reinforced system \[photoprint\], Circa 1905](#)

1 Item (3.8" x 4.9")

Collector: Cummings Structural Concrete Company

Language: English.

Notes: AC0218-0000009 (AC Scan No.)

Silver gelatin on paper.

In box 3, folder ?

Unrestricted research use by appointment. Photographs must be handled with cotton gloves unless protected by sleeves.

Topic: Reinforced concrete

Concrete construction

Genre/Form: Photographs -- 1900-1950

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## Series 2: Operational Records, 1884-1952 and undated

### Subseries 2.1: Administrative, 1901-1948 and undated

Box 3, Folder 18	Applications for employment, 1918-1921
Box 3, Folder 19	Bond and indemnity papers, 1918-1919
Box 3, Folder 20	Caluculations and design notebook, 1910-1911
Box 3, Folder 21	Daily reports of events and operations, undated
Box 3, Folder 22	Design notebook, 1940-1948 and undated
Box 3, Folder 23	Drawings, blue prints, and specifications from prospective clients, 1919-1920
Box 3, Folder 24	Electric Welding Company, insurance and inventory documents, 1918-1923
Box 3, Folder 25	Electric Welding Company, work orders, 1906-1908 and undated
Box 3, Folder 26	Field requisitions for materials and supplies, 1919
Box 3, Folder 27	File index, January 1919
Box 3, Folder 28	General project specifications, 1901
Box 3, Folder 29	Insurance and accident reports, 1919-1921
Box 3, Folder 30	Inventory of field office equipment, 1920
Box 3, Folder 31	Manual of Uniform Field Methods, 1915
Box 3, Folder 32	Prevention of accidents award, 1920
Box 3, Folder 33	Secretary's report on exit facilities, 1919
Box 3, Folder 34	Sketches, 1939-1952 and undated
Box 3, Folder 35	Soil tests, 1910 and undated
Box 3, Folder 36	Specifications for quality of materials, 1915
Box 3, Folder 37	Steel reinforcement illustrations, undated
Box 3, Folder 38	Stock and machinery lists and correspondence, 1919-1920

Box 3, Folder 39      Supply notes, 1917 and undated

Box 3, Folder 40      Weekly Progress Reports, E. S. Martin, 1919

Box 3, Folder 41      Weekly Progress Reports, Robert A. Cummings, Jr., 1919

## Subseries 2.2: Correspondence, 1884-1952 and undated

Box 3, Folder 42      Cummings' Business and Personal Correspondence, 1919-1941 and undated

Box 3, Folder 43      Correspondence duplicate book, 1900-1902

Box 4, Folder 1      Telegrams, 1919

Box 4, Folder 2      Interdepartment, Robert A. Cummings, 1919

Box 4, Folder 3      Interdepartment, Robert A. Cummings, Jr., 1919

Box 4, Folder 4      Interdepartment, employees, 1919-1920

Box 4, Folder 5      Interdepartment, Electric Welding Company, 1919

Interdepartment, 1919-1920

Corporations, 1914-1921

Box 4, Folder 6      Harrington and King Perforating Company,, 1914-1915

Box 4, Folder 7      New York Canal and Great Lakes Corporation, 1921

Box 4, Folder 8      Portland Cement Association, 1916-1918

Box 4, Folder 9      Sharples Specialty Company, 1920-1921

Box 4, Folder 10      United States federal agencies, 1917-1918

Box 4, Folder 11      W. S. Tyler Company,, 1914-1916

Topical, 1914-1921

Box 4, Folder 12      Barge claim, 1918-1920

Box 4, Folder 13      Centrifuge apparatus, 1915

Box 4, Folder 14      Soil sampling apparatus,, 1914-1919

Box 4, Folder 15	Bidding inquiries, 1919-1921
Box 4, Folder 16	Miscellaneous apparatus, 1914-1918
Box 4, Folder 17	Miscellaneous machinery, 1914-1917
	General, 1884-1952 and undated
Box 4, Folder 18	General, 1884-1914
Box 4, Folder 19	General, 1901
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Box 4, Folder 21	General, 1915
Box 4, Folder 22	General, 1916-1917
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Box 4, Folder 25	General,, 1919-1920
Box 4, Folder 26	General,, 1920-1939
Box 4, Folder 27	General,, 1941-1952 and undated

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### Subseries 2.3: Project Contracts, 1902-1930 and undated

Box 4, Folder 28	Miscellaneous contracts, 1910-1914 and undated
Box 4, Folder 29	Notes on concrete ship design, 1918 and undated
Box 4, Folder 30	Davis Island Dam, 1901-1904 and undated
Box 4, Folder 31	Dry dock, Cavern deck barge, Philadelphia, Pennsylvania, 1917-1918 and undated
Box 4, Folder 32	Dry dock, Chester, Pennsylvania, 1918
Box 5, Folder 1	Hampton Normal and Agricultural Institute, bulkhead, Hampton, Virginia, 1903-1930 and undated
Box 5, Folder 2	Gallego Mills, Richmond, Virginia, 1904
Box 5, Folder 3	Ninth Street Bridge, Richmond, Virginia, 1913 and undated

Box 5, Folder 4	Qual wall and slip, United States Department of War, Navy Yard, Washington, District of Columbia, 1913-1919 and undated
Box 5, Folder 5	Sydney Harbor Bridge, "Conditions of Tendering Departmental Specification and General Conditions", 1902
Box 5, Folder 6	Sydney Harbor Bridge, lithographies, undated
Box 5, Folder 7	Unidentified project, payroll, 1902
Box 5, Folder 8	#10 Water tank, Pittsburgh and Lake Erie Railroad, Stobo, Pennsylvania, 1902-1903 and undated
Box 5, Folder 9	#11 Highway bridge, Pittsburgh and Lake Erie Railroad, Alliquippa, Pennsylvania, 1902-1903 and undated
Box 5, Folder 10	#12 Hampton Normal and Agricultural Institute, Hampton, Virginia, 1903
Box 5, Folder 11	#12 Hampton Normal and Agricultural Institute, Hampton, Virginia, 1904
Box 5, Folder 12	#12 and #20 Power plant smoke stack, League Island Dry Dock, Philadelphia, Pennsylvania, 1902-1905 and undated
Box 5, Folder 13	#15 Ohio River Dam, undated
Box 6, Folder 1	#16 Lock number 5, Ohio River, 1903 and undated
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Box 6, Folder 3	#18 Unidentified, 1903
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Box 6, Folder 5	#20 Commercial building, Pittsburgh, Pennsylvania, undated
Box 6, Folder 6	#22 Machine shop, Taylor, Wilson, and Company, Allegheny, Pennsylvania, 1904
Box 6, Folder 7	#22 Machine shop, Taylor, Wilson, and Company, Allegheny, Pennsylvania, 1905 and undated
Box 6, Folder 8	#24 Chanoine Dam number 5, Ohio River, 1904
Box 6, Folder 9	#24 Chanoine Dam number 5, Ohio River, General, 1903-1904
Box 6, Folder 10	#24 Chanoine Dam number 5, Ohio River, insurance papers, inspection certificates, and bills of sale, 1902-1904 and undated



Box 6, Folder 11	#24 Chanoine Dam number 5, Ohio River, financial, 1903-1904 and undated
Box 6, Folder 12	#24 Chanoine Dam number 5, Ohio River, ledger, 1904
Box 6, Folder 13	#24 Chanoine Dam number 5, Ohio River, quotations, 1904
Box 6, Folder 14	#24 Chanoine Dam number 5, Ohio River, correspondence, 1903
Box 6, Folder 15	#24 Chanoine Dam number 5, Ohio River, correspondance duplicate book, 1904
Box 6, Folder 16	#24 Chanoine Dam number 5, Ohio River, design notes, 1902-1903 and undated
Box 6, Folder 17	#26 Bridges of the Pennsylvania Railroad Company, Harbison-Walker Refractories, 1905 and undated
Box 6, Folder 18	#26 Bridges of the Pennsylvania Railroad Company, Harbison-Walker Refractories, blueprints, 1905
Box 6, Folder 19	#27 Unidentified, 1909-1910
Box 6, Folder 20	#28 Building number 14, Pittsburgh Reduction Company, Messina, New York, 1905-1906 and undated
Box 7, Folder 1	#29 Reservoir roof, T. A. Gillespie Company, 1905 and undated
Box 7, Folder 2	#30 Residence for Mr. H. G. Wasson, Bidwell Street, Pittsburgh, Pennsylvania, 1905-1906 and undated
Box 7, Folder 3	#31 Davis Island Dam, Pennsylvania, 1905-1906 and undated
Box 7, Folder 4	#32 Building number 27, Pittsburgh Reduction Company, Pittsburgh, Pennsylvania, 1905 and undated
Box 7, Folder 5	#33 Judge Harry White Warehouse, 1905 and undated
Box 7, Folder 6	#35 Retaining wall, Esplen, Pittsburgh and Lake Erie Railroad, 1905-1907 and undated
Box 7, Folder 7	#36 Machine shop building floor, National Tube Company, 1905
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Box 15, Folder 8	<p>Scott Paper Company, Chester, Pennsylvania [scrapbook], 1916-1917                      1 Item (Photoprints mounted on scrapbook paper pages.; 4.9" x 6.0")  <a href="#">Image(s)</a>  <a href="#">Image(s)</a>  <a href="#">Image(s)</a>  <a href="#">Image(s)</a>  <a href="#">Image(s)</a></p> <p>Collector: Cummings Structural Concrete Company                      Language: English.                      Notes: AC0218-0000010-01 (AC Scan No.)                      AC0218-0000010-20 (AC Scan No.)                      AC0218-0000010-46 (AC Scan No.)                      AC0218-0000010-49 (AC Scan No.)                      AC0218-0000010-61 (AC Scan No.)                      Unrestricted research use by appointment. Photographs must be handled with cotton gloves unless protected by sleeves.                      Pages of labeled construction photographs and blueprint.</p> <p>Names: Scott Paper Company                      Topic: Reinforced concrete                      Concrete construction</p> <p>Genre/Form: Blueprints                      Photographs -- 1900-1950</p>
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Box 21, Folder 14	L'Usine: Journal de la Metallurgie [in French], [1912]
Box 21, Folder 15	Missouri Basin Inter-Agency Committee, Power Requirements and Supply Missouri River Region, 1953
Box 21, Folder 16	Objects of Interest to Engineers and Others, In and About Philadelphia, 1893
Box 21, Folder 17	Österreichisches Patent Blatt [in German], 1906 July 15
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Box 21, Folder 22	Report of the State Engineer to the Governor of Colorado, 1923-1924
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Box 21, Folder 24	Results of Discharge Observations, Mississippi River and its Tributaries and Outlets, 1838-1923, 1925

Box 21, Folder 25	Revue des Matériaux de Construction and de Travaux Publics [in French], 1907 June
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Box 21, Folder 27	The Standard [London], 1900 February 19
Box 21, Folder 28	University of London, University College Faculty of Engineering, 1918-1919
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Building  
Genre/Form: Photographs -- 1900-1950

Box 25, Folder 15	<p>Concrete work by Cummings for a Pittsburgh commercial building [photoprint], 1911 1 Item (Silver gelatin on paper.; 3.8" x 4.8") Collector: Cummings Structural Concrete Company Language: English. Notes: AC0218-0000005 (AC Scan No.) Unrestricted research use by appointment. Photographs must be handled with cotton gloves unless protected by sleeves. Topic: Reinforced concrete Concrete construction Building Genre/Form: Photographs -- 1900-1950</p>
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