

**Nichols, A. B.(Aurin Bugbee.), collector.**  
**Panama Canal Collection, 1846-1923 (bulk 1906-1914).**

- 100 items (12 linear ft.) in 6 archival file boxes and four enclosures.
- Collected/created by A.B. Nichols (Civil Engineer), from 1906-1917. Donated to the Engineering Societies Library, New York, in 1937 by his daughter Tirzah Nichols
- Transferred to LHL from the Engineering Societies Library 1995.

A.B. Nichols (1845-1929) was employed by the Isthmian Canal Commission in 1899 to survey the Nicaraguan route. In 1904 was assigned to the Panama Canal; served as Asst. Engineer at the Gatun site. Promoted to Resident Engineer at Culebra Cut site. In 1906 appointed Office Engineer there. Retired in 1914. Nichols graduated from Brown University with a degree in civil engineering, worked for the PA Railroad, then managed lumbering operations in PA and WV before 1899. He was one of the first employees of the I.C.C. in Panama; worked on the canal through its entire construction period (1904-1914). Nichols' home residence was in Philadelphia. The collection is comprised of materials gathered and organized during his tenure as Office Engineer, though some material was added to 1923. The Office Engineer led a department of 12 staff members including engineers, architects, and draftsmen. The Office Engineer Section was one of twelve divisions under the Department of Operation and Maintenance. Nichols managed the documents, tested and rated the survey crews, and oversaw the drafting of drawings. He worked at Culebra, the site of the major excavation through the Continental Divide, and his office was attached organizationally to the office of the Chairman of the I.C.C., who was John Stevens from 1905-1907 and Colonel George Goethals from 1907-1914. Nichols also was the source of official photographs of the Panama Canal work. He had a great interest in the geology of the region, and how it was causing landslides in the Culebra Cut being made through the Continental Divide. His work assisted the decision of the directors to hire a commission geologist, and his efforts were commended by a top official at the United States Geological Survey, Dr. C. Willard Hayes.

Collection includes three photograph albums, and 97 notebooks comprised of ms.notes, blueprints, hand drawn maps and geological sketches, typescripts, reports, published articles, newsclips, floorplans, and one set of glass plate negatives. Several of the notebooks (12+) are comprised of or include photographs. Altogether includes over 1,000 photographs of the Panama Canal, primarily illustrating engineering, construction, and geological aspects of project but also including portraits (one of Nichols). Project sites include: Culebra Cut, Gatun Locks, Gatun Spillway, Gatun Dam, Miraflores Dam, Miraflores Locks, Bas Obispo, Balboa, Porto Bello quarry, Cristobal, Pedro Miguel Dam, Ancon, Cucaracha, Colon, Gamboa, Paraiso. Persons include: President Taft, F. Delesseps, G.W. Goethals, David Gaillard, J.C. Trautwine, Gorgas, Sibert, A. Raggi, Chester Harding, H. Goldmark, H.F. Hodges, C.W. Hayes. Extensive geological and meteorological data (i.e. color sketches of core samples; statistics of rainfall, earthquakes, and floods). Geological slides at various Panama project sites in detail. Detailed lists of costs. Salaries of workers with living quarters described. French history of project including original photographs dated 1890's. Isthmian Canal Commission's invitation for bids 1906 to completion of project 1914. Ships passing through canal to 1923 (S.S. Cristobal).

<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 1, item 1</b>
ESL call #; vol.	626.99 N51m; volume 1
volume number assigned by Nichols	Nichols volume 12
Title/contents note	Excavation tables; cost estimates
Dates	1906-1910
size	24 x 30 cm
Other notes	1 notebook, approx 100 pages
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 1, item 2</b>
ESL call #; vol.	626.99 N51m; volume 2
volume number assigned by Nichols	Nichols volume 13
Title/contents note	Misc. clippings, photos, drawings, blueprints
Dates	1906-1910
size	24 x 30 cm
Other notes	1 notebook, approx 100 pages, 6 original photographs
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 1, item 3</b>
ESL call #; vol.	626.99 N51m; volume 3
volume number assigned by Nichols	Nichols volume 16
Title/contents note	Excavation tables; ms.color map; tariff rates
Dates	1906-1910
size	24 x 30 cm
Other notes	1 notebook, approx 100 pages
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 1, item 4</b>
ESL call #; vol.	626.99 N51m; volume 4
volume number assigned by Nichols	Nichols volume 17
Title/contents note	Cost and construction estimates
Dates	1908
size	24 x 30 cm
Other notes	1 notebook, approx 100 pages
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 1, item 5</b>
ESL call #; vol.	626.99 N51m; volume 5.1
volume number assigned by Nichols	Nichols volume 18
Title/contents note	Railroad equipment, Gatun Lake details, Explosives
Dates	1908
size	24 x 30 cm
Other notes	1 notebook, approx 100 pages, 2 original photographs
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 1, item 6</b>
ESL call #; vol.	626.99 N51m; volume 5.2
volume number assigned by Nichols	Nichols volume 18 sup
Title/contents note	Photographs of railroad equipment
Dates	
size	30 x 21 cm
Other notes	1 binder, 14 photos
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 1, item 7</b>
ESL call #; vol.	626.99 N51m; volume 6
volume number assigned by Nichols	Nichols volume 19
Title/contents note	Camacho Reservoir, Rio Grande Reservoir, Culverts, Rio Chagres bridge, Miraflores Tunnel, Explosives
Dates	1908
size	24 x 30 cm
Other notes	1 notebook, approx 100 pages

<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 1, item 8</b>
ESL call #; vol.	626.99 N51m; volume 7
volume number assigned by Nichols	Nichols volume 20
Title/contents note	Revised construction cost estimages
Dates	1910
size	24 x 30 cm
Other notes	1 notebook, approx 100 pages
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 1, item 9</b>
ESL call #; vol.	626.99 N51m; volume 8
volume number assigned by Nichols	Nichols volume 21
Title/contents note	Comparative discharges of Rio Chagres
Dates	1908
size	24 x 30 cm
Other notes	1 notebook, approx 100 pages
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 1, item 10</b>
ESL call #; vol.	626.99 N51m; volume 9
volume number assigned by Nichols	Nichols volume 24
Title/contents note	Tide velocities, lock and bridge details, blast at Bas Obispo, railroad culvert at Gatun
Dates	1908
size	24 x 30 cm
Other notes	1 notebook, approx 100 pages; 30 original photographs; includes photo of A.B. NICHOLS, front free flyleaf v.
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 1, item 11</b>
ESL call #; vol.	626.99 N51m; volume 10
volume number assigned by Nichols	Nichols volume 26
Title/contents note	Reports and cost estimates
Dates	1908
size	24 x 30 cm
Other notes	1 notebook, approx 152 pages
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 1, item 12</b>
ESL call #; vol.	626.99 N51m; volume 11
volume number assigned by Nichols	Nichols volume 26 sup
Title/contents note	Hearings concerning estimates for construction of the Isthmian Canal for the year 1912. Washington: GPO
Dates	1911
size	15 x 23 cm
Other notes	printed book, 270 p.
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 1, item 13</b>
ESL call #; vol.	626.99 N51m; volume 12
volume number assigned by Nichols	Nichols volume 27
Title/contents note	Estimated costs, work specifications, equipment lists
Dates	1908-1909
size	24 x 30 cm
Other notes	1 notebook, approx 154 pages, 2 original photographs
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 1, item 14</b>
ESL call #; vol.	626.99 N51m; volume 13
volume number assigned by Nichols	Nichols volume 24 and 27 sup
Title/contents note	Blueprints:railroad culvert, locks, tides, Empire Suspension Bridge, Gatun locks and spillway
Dates	1908
size	25 x 31
Other notes	1 binder, 21 folded blueprints

<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 1, item 15</b>
ESL call #; vol.	626.99 N51m; volume 14
volume number assigned by Nichols	Nichols volume 28
Title/contents note	Elevations and flood control
Dates	1908
size	24 x 30 cm
Other notes	1 notebook, approx 154 pages
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 1, item 16</b>
ESL call #; vol.	626.99 N51m; volume 15
volume number assigned by Nichols	Nichols volume 30
Title/contents note	Reports and cost estimates
Dates	1909
size	24 x 30 cm
Other notes	1 notebook, approx 154 pages
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 1, item 17</b>
ESL call #; vol.	626.99 N51m; volume 16
volume number assigned by Nichols	Nichols volume 31
Title/contents note	Plans of dwellings; photographs of houses
Dates	1907
size	24 x 30 cm
Other notes	1 notebook, approx 100 pages, 15 original photographs
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 2, item 18</b>
ESL call #; vol.	626.99 N51m; volume 17
volume number assigned by Nichols	Nichols volume 31A
Title/contents note	French dwellings
Dates	
size	26 x 33 cm
Other notes	1 binder, 14 folded blueprints
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 2, item 19</b>
ESL call #; vol.	626.99 N51m; volume 18
volume number assigned by Nichols	Nichols volume 31B
Title/contents note	Blueprints: Plans of buildings for Panama Canal project: offices at various project sites, hotel at Culebra, dwellings and quarters (for Chief Engineer, bachelors, families, nurses, servants, orderlies, maids, waiters, laborers), colored barracks, colored commissary, chapels, lodge halls, band stands, hospitals, mess halls, penitentiary, jail, insane asylum, women's steerage, leper colony, quarantine stations.
Dates	1909
size	21 x 31 cm obl
Other notes	1 binder, approx 200 plans
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 2, item 20</b>
ESL call #; vol.	626.99 N51m; volume 19
volume number assigned by Nichols	Nichols volume 32
Title/contents note	Panama Railroad Co.: blueprints for depots at Gatun Station; blueprints illustrating standards for: rail fastenings, guard rail, switch points, turn-out, culvert pipe, etc.
Dates	1908-1909
size	25 x 30 cm.
Other notes	1 binder, approx 20 items

<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 2, item 21</b>  626.99 N51m; volume 20  Nichols volume 33  Notes, tables, newsclips, correspondence (Goethals, Saville, Monniche, Gaillard, Zinn, Thompson) re: rainfall. Also historical info. 19th c. floods.  1909  25 x 30 cm.  1 notebook, approx 100 pages</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 2, item 22</b>  626.99 N51m; volume 21  Nichols volume 39 (34?)  Ms tables of statistics re: costs and volume of masonry at Gatun Spillway, Gatun Locks, Pedro Miguel Lock, Miraflores Locks, Ancon quarry, Porto Bello quarry  1909-1912  25 x 30 cm.  1 notebook, approx 100 pages</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 2, item 23</b>  626.99 N51m; volume 22  Nichols volume 37  Original photographs, notes, newsclips, geological sketches, corresp.(Hodges, Sibert), map of material handling plant at Gatun, Ancon quarry; also color Nat.Geogr.map of Panama area.  1909-1910  25 x 30 cm.  1 notebook, approx 100 pages, 12 original photographs</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 2, item 24</b>  626.99 N51m; volume 23  Nichols volume 38  Original photographs, hand tinted to identify geological stratification, most are composite panoramas: Gatun Spillway and Locks, La Pita, Gold Hill, Cucaracha, Contractor Hill, Pedro Miguel Lock, Miraflores Lock.  1909-1912  25 x 30 cm.  1 notebook, approx 100 pages, 15 original photographs</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 2, item 25</b>  626.99 N51m; volume 24.1  Nichols volume 38 suppl.A  Geological profile map. Handcolored. Printed title page pasted on front cover: "Isthmian Canal Commission. Partial Geological Profile along axis of Canal in Culebra Cut, by A.B. Nichols and A. Raggi. 1910."  1910  21 x 32 cm  ESL # v. 24 pt A; 1 folder enclosing 1 fold. map</p>

<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 2, item 26</b>  626.99 N51m; volume 24.2  Nichols volume 38 suppl.B  "Partial geological profile of Culebra Cut showing French and American Borings, 1908." "Superceded by later profile; see part "A". Handcolored profile map. 1908 23 x 32 cm ESL # v. 24, pt. B; 1 folder enclosing 1 fold. map  1910  21 x 32 cm  ESL # v. 24 pt A; 1 folder enclosing 1 fold. map</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 2, item 27</b>  626.99 N51m; volume 24.3  Nichols volume 38 suppl.C  "Geological sketches at Gatun Locks and Spillway, Dec. 1908, by A. Raggi. For text see Vol. 46 p. 104. See vol. 39 pp. 2, 20, 40, 62." Pencil sketch geological profile.  1908  21 x 33  ESL # v. 24, pt. C; 1 portfolio enclosing 1 fold. geol. profile sketch</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 2, item 28</b>  626.99 N51m; volume 24.4  Nichols volume 38 suppl. D  "Geological sketches at Pedro Miguel and Miraflores Lock Sites, by A. Raggi." Geological sketches and blueprint sections.  1907-1908  25 x 32 cm  ESL # v. 24, pt. D; 1 binder, 12 sketches and 2 blueprints</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 2, item 29</b>  626.99 N51m; volume 25  Nichols volume 39 w/suppl.  Original photographs, notes, newsclip articles, tables re: Handling plant for concrete, Pacific division; Miraflores power plant; Porto Bello quarry; floating cranes for Canal; navigation lights and buoys, beacons; Panama Railroad Co. circular (p.122); tables of rainfall and water levels various sites.  1910-1913  24 x 30 cm  1 notebook, approx 150 pages, 5 original photographs</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 2, item 30</b>  626.99 N51m; volume 26  Nichols volume 40 w/suppl.  Original photographs, notes, sketches, corresp., charts re: "slides" at Culebra Cut, Paraiso, Rio Grande, Cucaracha, New Culebra, La Pita, Las Cascades, Empire; explosives. Also newsclip portrait of John G. Sullivan. Also historical info 19th c.  1906-1910  24 x 30 cm  1 notebook, approx 150 pages, 25 original photographs</p>

<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 2, item 31</b>  626.99 N51m; volume 27  Nichols volume 40A  Original photographs, notes, corresp.(Gaillard, Hodges, A.B.Nichols),  newsclip images, newsclip articles ("Slide stops Panama Traffic"),  geological sketches re: "slides" at Gold Hill, La Pita, Cucaracha, Bas  Obispo, Culebra, Contractor Hill.  1910-1915  24 x 30 cm  1 notebook, approx 150 pages, 12 original photographs</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 2, item 32</b>  626.99 N51m; volume 28  Nichols volume 40B  Original photographs, geological sketches, correspondence, blueprints,  charts re: "slides" at Rio Grande, Paraiso, Culebra Cut, Gatun, Empire  1911-1913  24 x 30 cm  1 notebook, approx 150 pages, 10 original photographs</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 2, item 33</b>  626.99 N51m; volume 29  Nichols volume 40C  Notes, charts, sketches, newsclips, correspond. re: hydraulic  excavation at Gold Hill, dredging Culebra cut, Gatun Lake, "slides" at  Cucaracha, Culebra, Gold Hill.  1913-1915  24 x 30 cm  1 notebook, approx 150 pages</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 2, item 34</b>  626.99 N51m; volume 30  Nichols volume 41  Original photographs, newsclip images, charts, blueprints, geological  sketches, notes re: Gatun Spillway, experimental spillways, hydraulic  excavation, Pacific division, spillway gate machines, Gatun Locks,  dredges, Pedro Miguel Locks, Gatun Dam, geological core samples  (color)  1910  24 x 30 cm  1 notebook, approx 150 pages, 10 original photographs</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 2, item 35</b>  626.99 N51m; volume 31  Nichols volume 43  Notes, newsclips: Locks and dams at Pedro Miguel, Miraflores.  Breakwater at Colon. Balboa, Gatun Locks, Pacific terminals, Atlantic  terminals. "Trojan powder"p.136. Corresp.:Goethals, Hodges,  Gaillard, Williamson.  1910  24 x 30 cm  1 notebook, approx 150 pages</p>

<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 2, item 36</b>  626.99 N51m; volume 32  Nichols volume 44, w/supplts.  Meteorological data recorded 1910-1914 incl. rainfall, surface water levels, floods, tides, earthquakes. Rio Chagres, Cristobal, Balboa, Rio Grande, Gatun Lake, Camacho, Miraflores. Also historical notes 19thc.  1910-1914  24 x 30 cm  1 notebook, approx 150 pages</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 3, item 37</b>  626.99 N51m; volume 33  Nichols volume suppl.vol.21,33,44,pt.1  Typescript correspondence: H.F. Hodges, Chester Harding, A.B. Nichols, blueprint maps and diagrams of: Rio Chagres, rainfall stats, French publication by Abbot on Chagres dated 1900, another on Chagres rainfall ca.1900, diagrams of Chagres flood levels, Panama Railroad Co. bridge blueprint, flood levels Gamboa and Bas Obispo  1896  1896-1912  25 x 33 cm  1 binder, approx 25 items</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 3, item 38</b>  626.99 N51m; volume 34.2  Nichols volume sup.v.21.33.44  Approx. 65 meteorological reports, plus: articles, blueprints, typescripts, maps, geological cross sections: Gatun Lake, earthquakes, Rio Chagres, water supply  1913-1920  24 x 34 cm,obl.  ESL # v. 34, pt. 2; 1 binder, approx 75 items</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 3, item 39</b>  626.99 N51m; volume 34.3  Nichols volume s.v.21.28.33.44  14 oversize charts: flood, gauge elevations, rainfall: Gatun Lake, Frijoles  1912-1914  26 x 32 cm  ESL # v. 34, pt. 3; 1 binder, 14 charts</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 3, item 40</b>  626.99 N51m; volume 35  Nichols volume vol. 45  Monthly excavation statistics, monthly costs at each station charted by type of activity, total costs. Pacific terminals, Balboa, Gatun Dam, Miraflores Dam, Porto Bello, Cristobal, Pedro Miguel Dam. (ms., in pencil and ink)  1910-1914  24 x 30 cm  1 notebook, approx 100 pages</p>



<p><b>A.B. Nichols Panama Canal Collection</b>                  ESL call #; vol.                  volume number assigned by Nichols                  Title/contents note                    Dates                  size                  Other notes</p>	<p><b>Box 3, item 46</b>                  626.99 N51m; volume 40                  Nichols volume vol.48 B                  Original photographs (82 photos, approx. 7" x 9") of Panama Canal project, mostly dated 1913, one dated 1904 (p.27) and one 1907(p. 40). A few newsclip images at front.                  1904-1913                  24 x 30 cm                  1 notebook of 82 photographs</p>
<p><b>A.B. Nichols Panama Canal Collection</b>                  ESL call #; vol.                  volume number assigned by Nichols                  Title/contents note                    Dates                  size                  Other notes</p>	<p><b>Box 3, item 47</b>                  626.99 N51m; volume 41                  Nichols volume vol.48 C                  Original photographs (51 photos, approx. 7" x 9") of Panama Canal project, many dated 1913                  1913                  24 x 30 cm                  1 notebook of 51 photographs</p>
<p><b>A.B. Nichols Panama Canal Collection</b>                  ESL call #; vol.                  volume number assigned by Nichols                  Title/contents note                    Dates                  size                  Other notes</p>	<p><b>Box 3, item 48</b>                  626.99 N51m; volume 42                  Nichols volume vol.48 D                  Original photographs (approx.80 photos, approx. 7" x 9") of Panama Canal project. Most dated 1913, some 1915; one 1901.                  1913-1915                  24 x 30 cm                  1 notebook, approx 86 pages with approx 80 photographs</p>
<p><b>A.B. Nichols Panama Canal Collection</b>                  ESL call #; vol.                  volume number assigned by Nichols                  Title/contents note                    Dates                  size                  Other notes</p>	<p><b>Box 4, item 49</b>                  626.99 N51m; volume 43                  Nichols volume vol.48 E                  Original photographs (approx.45 photos, approx. 7" x 9") of Panama Canal project; several pages of newsclip images interspersed and at end.                  1911-1916                  24 x 30 cm                  1 notebook, approx 80 pages with 45 photographs</p>
<p><b>A.B. Nichols Panama Canal Collection</b>                  ESL call #; vol.                  volume number assigned by Nichols                  Title/contents note                    Dates                  size                  Other notes</p>	<p><b>Box 4, item 50</b>                  626.99 N51m; volume 44                  Nichols volume vol.50                  Four original photographs, one dated 1923; newsclip images, articles, notes (ms.), correspondence (typescripts), costs, tests. Gatun Locks, Culebra Cut, Ancon Hospital, Balboa, Cristobal                  1910-1923                  24 x 30 cm                  1 notebook, approx 154 pages with four photographs</p>
<p><b>A.B. Nichols Panama Canal Collection</b>                  ESL call #; vol.                  volume number assigned by Nichols                  Title/contents note                    Dates                  size                  Other notes</p>	<p><b>Box 4, item 51</b>                  626.99 N51m; volume 45                  Nichols volume sup vols.43,50                  Blueprints: Gatun Dam, Gatun Locks, mitering gates, Hydrography, Miraflores Locks; article from magazine.                  1909-1913                  26 x 33 cm                  1 binder, approx 10 items</p>

<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 4, item 52</b>  626.99 N51m; volume 46  Nichols volume vol.55  Notes re: Colon breakwater, Gatun Dam and spillway, cross sections, engineer's report, 13 original photographs, dredging Culebra Cut  1912-1916  24 x 30 cm  1 notebook, approx 150 pages with 13 photographs</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 4, item 53</b>  626.99 N51m; volume 47  Nichols volume vol.59  List of employees who rec'd a Canal medal; record of service of A.B. Nichols (p.99); notes re: "slides" at Gatun Lock, Ancon, Miraflores, Culebra Cut, Cucaracha; Panama railroad; map of Colon; dredges; cost of Panama Canal to July 1917- Annual report (ms.notes)  1917-1922  24 x 30 cm  1 notebook, approx 125 pages</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 4, item 54</b>  626.99 N51m; volume 48  Nichols volume A  Historical notes (taken ca. 1910?) about the French and other operations, cross sections, monies "expended in Paris", cost estimates, Isthmian Canal Commission, blueprint 1896, cross section 1897-1901, profile dated 1888  1896-1910  24 x 30 cm  1 notebook, approx 155 pages</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 4, item 55</b>  626.99 N51m; volume 49  Nichols volume vol. A suppl.  Three French publications about: the future opening/use of the canal in 1890 (pub.1888), the work on the canal (pub.1886), and a report pub.1886. Signed "A.B.Nichols 1910"  1886-1910  23 x 33 cm  1 binder with 3 items</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 4, item 56</b>  626.99 N51m; volume 50  Nichols volume A-1  Ms.notes re: the Panama Canal: cost estimates, maps, historical notes about the French operations  1909-1913  24 x 30 cm  1 notebook, 149 pages; approx. 50 pages blank</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note  Dates  size  Other notes</p>	<p><b>Box 4, item 57</b>  626.99 N51m; volume 51  Nichols volume vol.A2  Ms.re: historical canal proposals 16th-19th c.  1909  25 x 30 cm.  1 notebook, 100 pp. +booklet</p>

<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 4, item 58</b>
ESL call #; vol.	626.99 N51m; volume 52
volume number assigned by Nichols	Nichols volume vol.A2sup
Title/contents note	Articles incl.by Nap.Bonaparte, oversiz maps
Dates	1846-1880
size	23 x 31 cm
Other notes	1 binder of 7 booklets, maps
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 4, item 59</b>
ESL call #; vol.	626.99 N51m; volume 53
volume number assigned by Nichols	Nichols volume folio B
Title/contents note	Ms.charter, ms.report of excavation of Old French Co., ms.contracts, costs, list of contractors with names, blueprints
Dates	1880-1909
size	22 x 31 cm
Other notes	1 notebook, approx 100 pages
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 4, item 60</b>
ESL call #; vol.	626.99 N51m; volume 54
volume number assigned by Nichols	Nichols volume vol.B1
Title/contents note	Ms.re:French machinery, railcars; blueprints
Dates	1883-1912
size	22 x 31 cm
Other notes	1 notebook, approx 100 pages
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 4, item 61</b>
ESL call #; vol.	626.99 N51m; volume 55
volume number assigned by Nichols	Nichols volume vol.B2
Title/contents note	Eiffel contract w/costs (ms), cont'd from vol.B
Dates	1885-1909
size	22 x 31 cm
Other notes	1 notebook, approx 100 pages
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 4, item 62</b>
ESL call #; vol.	626.99 N51m; volume 56
volume number assigned by Nichols	Nichols volume vol.B3
Title/contents note	Ms.contracts, ms.color illus; French report
Dates	1884-1909
size	22 x 31 cm
Other notes	1 notebook, approx 100 pages
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 4, item 63</b>
ESL call #; vol.	626.99 N51m; volume 57
volume number assigned by Nichols	Nichols volume vol.B4
Title/contents note	Original photos of dredges of Old French Co.
Dates	1887-1911
size	22 x 31 cm
Other notes	1 notebook: 100 pp. of photos
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 4, item 64</b>
ESL call #; vol.	626.99 N51m; volume 58
volume number assigned by Nichols	Nichols volume vol.B5
Title/contents note	French excavation history, other notes
Dates	1882-1913
size	22 x 31 cm
Other notes	1 notebook, approx 100 pages

<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 4, item 65</b>
ESL call #; vol.	626.99 N51m; volume 59
volume number assigned by Nichols	Nichols volume vol.B5 with
Title/contents note	"To accompany Vol. B5": Booklets in French
Dates	1886-1888
size	25 x 33 cm
Other notes	1 envelope, approx.100 pages
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 4, item 66</b>
ESL call #; vol.	626.99 N51m; volume 60
volume number assigned by Nichols	Nichols volume vol.B6 pt.1
Title/contents note	"Reminiscences":ms.re:staff, project, costs
Dates	1904-1912
size	22 x 31 cm
Other notes	1 notebook, approx 100 pages
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 5, item 67</b>
ESL call #; vol.	626.99 N51m; volume 61
volume number assigned by Nichols	Nichols volume folio K
Title/contents note	Pan.Canal workers: rates of pay, regulations
Dates	1908-1914
size	23 x 30 cm
Other notes	1 binder, approx 200 pages
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 5, item 68</b>
ESL call #; vol.	626.99 N51m; volume 62
volume number assigned by Nichols	Nichols volume folio L.
Title/contents note	Navigation laws; expenditure tables (costs)
Dates	1911-1917
size	23 x 30 cm
Other notes	1 binder, 50 p. + 10 foldouts
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 5, item 69</b>
ESL call #; vol.	626.99 N51m; volume 63
volume number assigned by Nichols	Nichols volume folio M.
Title/contents note	Topogr.maps, corresp., blueprints, site report
Dates	1905-1913
size	35 x 23 cm obl
Other notes	1 portfolio, approx 100 items
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 5, item 70</b>
ESL call #; vol.	626.99 N51m; volume 64
volume number assigned by Nichols	Nichols volume folio N
Title/contents note	a consolidation of folios N., N1, N2, N3
Dates	
size	37 x 22 cm obl
Other notes	1 binder, approx 350 sheets
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 5, item 71</b>
ESL call #; vol.	626.99 N51m; volume 65
volume number assigned by Nichols	Nichols volume folio Na
Title/contents note	Reduced copies of blueprints on white paper
Dates	1912-1914
size	37 x 22 cm obl
Other notes	1 binder, approx 100 sheets

<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 5, item 72</b>
ESL call #; vol.	626.99 N51m; volume 66
volume number assigned by Nichols	Nichols volume folio P
Title/contents note	One oversized blueprint:railroad & retain.wall
Dates	1910
size	23 x 33 cm
Other notes	1 portfolio:blueprint & typescr.
<b>A.B. Nichols Panama Canal Collection</b>	<b>no box, item 73</b>
ESL call #; vol.	626.99 N51m; volume 67
volume number assigned by Nichols	Nichols volume Folio R
Title/contents note	Blueprints, maps, topogr. maps, cross sections, profiles, technical drawings; Miraflores dams, Pedro Miquel dams, Pacific Division, Miraflores locks; Lock gates; Gatun Locks, Gatun Dam, other.
Dates	1909-1912
size	34 x 64 cm; obl.
Other notes	1 folio binder, approx 70 items
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 5, item 74</b>
ESL call #; vol.	626.99 N51m; volume 68
volume number assigned by Nichols	Nichols volume Folio S
Title/contents note	Published Isthmian Canal Commission specifications for Bessemer steel rails, painting materials, etc., with published index to specs nos. 1 - 100.
Dates	1908-1909
size	14 x 22 cm
Other notes	1 binder, approx 100 pages
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 5, item 75</b>
ESL call #; vol.	626.99 N51m; volume 69
volume number assigned by Nichols	Nichols volume Folio S1
Title/contents note	Published Isthmian Canal Commission specifications for rivet forges, sheet copper, candles, wood switch ties, pig tin, etc. ; separate booklet of specs for plumbing fixtures (1907) bound in; handmade index of contents of binder at end.
Dates	1907-1911
size	14 x 22 cm
Other notes	1 binder, approx 115 pages
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 5, item 76</b>
ESL call #; vol.	626.99 N51m; volume 70
volume number assigned by Nichols	Nichols volume Folio S2
Title/contents note	Published Isthmian Canal Commission specifications for steel, wire rope, gaskets, oil can, brick, etc.
Dates	1909-1913
size	15 x 23 cm
Other notes	1 binder, approx 20 items
<b>A.B. Nichols Panama Canal Collection</b>	<b>Box 5, item 77</b>
ESL call #; vol.	626.99 N51m; volume 71
volume number assigned by Nichols	Nichols volume Folio T
Title/contents note	Color geological map of Culebra, typescript re: Culebra "slide"; Color "Plan of excavation thought necessary to prevent slides near Culebra", related correspondence and memos, small blueprints of Gatun spillway and related correspond., 8 color geological sketches, correspond. re: oil pipe line, sketch and blueprints of proposed railroad bridge over the canal.
Dates	1905-1911
size	23 x 34 cm
Other notes	1 binder, approx 22 items

<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 5, item 78</b>  626.99 N51m; volume 72  Nichols volume Folio T1  Blueprints: Chief Engineer's Drafting Office (floorplan), Chagres bridge (plan); the remaining blueprints are charts or text; cost estimates for Balboa, typescript itemized costs for Cristobal coaling plant, correspond.re:ship accident (#13), French publication listing cost estimates (1885), charts of work completed by 1914.  1885-1914  23 x 34 cm  1 binder, approx 15 items</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 5, item 79</b>  626.99 N51m; volume 73  Nichols volume Folio U  Panama Canal Specifications. Circulars, specs, diagrams, proposals, contracts. Typescript spec. for dock at Cristobal (1909) by R. Budd (not built);  1909-1911  23 x 34 cm  1 binder, approx 16 items</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 5, item 80</b>  626.99 N51m; volume 74  Nichols volume Folio U1  Panama Canal Specifications. Circulars, specs, diagrams, proposals, contracts.  1910-1911  23 x 34 cm  1 binder, approx 20 items</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 5, item 81</b>  626.99 N51m; volume 75  Nichols volume Folio U2  Panama Canal Specifications. Circulars, specs, diagrams, proposals, contracts.  1910-1911  23 x 34 cm  1 binder, approx 23 items</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note  Dates  size  Other notes</p>	<p><b>Box 5, item 82</b>  626.99 N51m; volume 76  Nichols volume Folio U3  Panama Canal Specifications. Circulars, specs, diagrams.  1912-1913  23 x 34 cm  1 binder, approx 13 items</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 6, item 83</b>  626.99 N51m; volume 77  Nichols volume Folio U4  Panama Canal Specifications. "Invitation for proposals to complete the construction of the ship canal upon the Isthmus of Panama between the Caribbean Sea and the Pacific Ocean." Isthmian Canal Commission. (1906); notice to bidder: General Plan for the construction of the Panama Canal, circulars, specs, diagrams.  1906-1912  23 x 34 cm  1 binder, approx 15 items</p>

<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 6, item 84</b>  626.99 N51m; volume 78  Nichols volume Folio V  Typescripts and blueprints re: the division of mapmaking and lithography, tow tests, hydraulics (Academy of Sciences), chart of excavations accomplished by the French, contract for cement, Gamboa, costs at Culebra, Panama Railroad, Gatun Dam  1907-1913  23 x 30 cm  1 binder, approx 20 items</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 6, item 85</b>  626.99 N51m; volume 79  Nichols volume Folio W  Blueprint floorplans of buildings constructed by the Isthmian Canal Commission for the Panama Canal project incl.floorplans of: the Tivoli Hotel, the admin. bldgs at various project sites, the insane asylum (Ancon), the dining rooms, the officers' quarters, the band stand, the ward for women, the chapel, the hospitals, the jails, the leper colony, the quarantine station, the post office, etc.  1908  21 x 30 cm, obl  1 binder, approx 300 items</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 6, item 86</b>  626.99 N51m; volume 80  Nichols volume Folio X  Typescript reports and correspondence, blueprints. Re: flow of water, soil composition below Gatun Locks (#13), Rio Grande Dyke, Colon improvements, Colon storms, Rivers Obispo, Camacho, Pacific slope, accounts between Republic of Panama and government of Canal Zone.  1907-1913  24 x 34 cm  1 binder, approx 15 items</p>

<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 6, item 87</b>  626.99 N51m; volume 81  Nichols volume Fol.XX,pt.1-5  Five published booklets: "The Panama Canal Hearings" Washington DC: GPO, 1912. Vols.I-V.  1912  15 x 23 cm  5 booklets, continuously paginated, 1,127 pages</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 6, item 88</b>  626.99 N51m; volume 82  Nichols volume Folio XXX  Published articles, incl.: Cost of the Isthmian Ship Canal by J.C. Trautwine, Harper's on Panama Railroad, Panama Canal Notes and Views taken by members of the ASCE during their visit 1911. Bureau of Standards on cement specs; article on yellow fever.  1896-1915  19 x 23 cm  1 binder, approx 20 items</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 6, item 89</b>  626.99 N51m; volume 83  Nichols volume Folio Y  Typescript correspondence: D.D. Gaillard (1907). W.Cramp &amp; Sons, Navy Dept. in D.C., specs for Obispo Aqueduct, French aqueduct proposal, J.G. Sullivan (1906), F. B. Maltby, fog records 1884, G. W. Goethals (1907), Panama Railroad Co., monthly salaries of staff at Panama, payroll at other sites, volume of Gatun Dam, specs for cement, cost of construct.plant at Gatun Locks, excavation stats 1904-1907 signed by Gaillard, living quarters of workers defined (item 18). Four blueprints.  1906-1907  22 x 33 cm  1 binder, in portfolio, approx 25 items</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 6, item 90</b>  626.99 N51m; volume 84  Nichols volume Folio YY  "The Panama Canal Hearings" Washington DC: GPO, 1912. With annotations and references to notebooks by A.B. Nichols.  1912  15 x 23 cm  1 booklet, 297 pages</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note  Dates  size  Other notes</p>	<p><b>Box 6, item 91</b>  626.99 N51m; volume 85  Nichols volume Folio Z  Blueprints and typescript correspondence re: the Obispo Diversion.  1909  23 x 35 cm obl.  1 binder, approx 10 items</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 6, item 92</b>  626.99 N51m; volume 86  Nichols volume Folio 100  Typescript of article by P.J.Van Voorst, Engineer (The Hague) On the influence of moving vessels on the motion of the water in canals (1912); and three blueprints.  1912  23 x 36 cm obl  1 binder, approx 10 pages; 3 blueprints</p>

<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 6, item 93</b>  626.99 N51m; volume 87  Nichols volume Folio 101  Blueprints: Isthmian Canal Commission diagrams showing the turning basins at ...Culebra Cut.  1912  26 x 33 cm  1 binder, approx 10 blueprints</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 6, item 94</b>  626.99 N51m; volume 88  Nichols volume Folio 102  Published articles, incl.: Rates of pay-Isthmian Canal Commission, "The French at Panama"(45 p.,ill.), Report of the Engineering Committee, Isthmian Canal Commission, Washington DC 1905 (15 p.),  1905-1913  20 x 23 cm  1 binder, approx 18 items</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note  Dates  size  Other notes</p>	<p><b>Box 6, item 95</b>  626.99 N51m; volume 89  Nichols volume Folio 104  Contract prices for Panama Canal listed and itemized  1909-1913  23 x 35 cm obl.  1 binder, approx 50 items</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 6, item 96</b>  626.99 N51m; volume 90  Nichols volume Folio 107  Map of bridges on the Panama Railroad by J.C. Trautwine, published articles, Dubois map, blueprint Colon (copy of 1863 map), topogr.map, illustratin mounted on linen, blueprint Gatun Lake.  1906-1915  26 x 33 cm  1 binder, approx 15 items</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note    Dates  size  Other notes</p>	<p><b>Box 6, item 97</b>  626.99 N51m; volume none  Nichols volume not numbered  Glass plate negatives (8" x 10") in cardboard box, with note in pencil on front: "Old French negatives" ca. 1880-1900??  1880-1900  22 x 28 cm  1 cardboard box in paper enclosure, approx 15 negatives</p>

<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note</p> <p>Dates  size  Other notes</p>	<p><b>no box</b>, item 98  626.99 N51; volume 1  Nichols volume not numbered  First page has ms.title in ink: "Album 1- Panama Canal - French" and above title in pencil: "Old French Company". On front pastedown is title: "Canal Inter.de Panama and the New French Company" under this is an original photographic portrait of D. Delesseps. Also a group portrait of F. Delesseps with staff at P. Bunan Varilla and other early portraits of French-led crews (pp.48-50); photograph of bldg.used for offices of the Comp. Univ. du Canal Interoceanique in Panama (p. 47); album provides detailed documentation of the French portion of the project at various sites; various sections labelled as "Old French Co." and "New French Co."; several photos "Showing work as left by French" 1905 (pp. 115-120); fold.color topogr.map, also many newsclip images.</p> <p>1882-1905  29 x 36 cm; obl.  1 photo album, approx 150 pages; 100 original photographs</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note</p> <p>Dates  size  Other notes</p>	<p><b>no box</b>, item 99  626.99 N51; volume 4  Nichols volume not numbered  Original photographs (approx 250?) providing detailed documentation of the project at various sites, many dated 1908. Includes original photo portraits of: George D. Brooke, John G. Walker, Miracle, Wattman, Bishop, Rousseau, Blackburn, Smith, Gorgas, Sibert, Goethals, Gaillard, group port. of President Wm. H. Taft with Goethals and Consulthing Board of 1909; also images of Spanish, Black, and European laborers and their quarters, also of native grass dwellings; some newsclip images.</p> <p>1908-1909  29 x 36 cm; obl.  1 photo album, approx 250? original photographs approx 80%; newsclips approx. 20%</p>
<p><b>A.B. Nichols Panama Canal Collection</b>  ESL call #; vol.  volume number assigned by Nichols  Title/contents note</p> <p>Dates  size  Other notes</p>	<p><b>no box</b>, item 100  626.99 N52; volume 5  Nichols volume not numbered  Front of album has ms. Title in ink: "Album 5- Panama Canal". Original photographs providing detailed documentation of project at various sites, including: Laborers at Gatun Upper Locks (p. 28); laborers at Miraflores lower locks (p. 72); prisoners pushing wheelbarrows (p. 86); ruins of Old Panama (p. 83), color postcards of Panama (p. 88); photo portraits of H. Goldmark and Trautwine (p. 85); and of M.W. Tenny, Chas. L. Parker, H.F. Hodges, E.C. Smith, F. W. Miracle (plus newsclip image of Edgar Jadwin) (pp. 93-94); newsclip port.of David Gaillard (p. 101); group portrait of "The Incas" gentlemen's organization w/card to A.B. Nichols signed by members dated 1915; another port.of group 1917; photographs of the S.S. Cristobal ship passing through the canal in 1914 (pp. 103-115).</p> <p>1911-1920  29 x 36 cm; obl.  1 photo album, approx. 145 pages, with approx 100 original photographs and some newsclip (magazine etc.) images, ephemera.</p>