

FORT MCKINNEY, WYOMING TERRITORY.

M E S S A G E

FROM THE

PRESIDENT OF THE UNITED STATES,

TRANSMITTING

*A communication from the Secretary of War relative to the completion of the post at Fort McKinney, Wyoming Territory.*

APRIL 6, 1882.—Referred to the Committee on Appropriations and ordered to be printed.

*To the Senate and House of Representatives :*

I transmit herewith, for the consideration of Congress, a letter from the Secretary of War dated the 4th instant, inclosing plans and estimates for the completion of the post of Fort McKinney, Wyoming Territory, and recommending an appropriation of \$50,000 for the purpose, in accordance with the estimates.

CHESTER A. ARTHUR.

EXECUTIVE MANSION,  
April 6, 1882.

WAR DEPARTMENT,  
Washington City, April 4, 1882.

I have the honor to transmit herewith plans and estimates for the completion of the post of Fort McKinney, Wyoming Territory; also a copy of the correspondence accompanying the same.

The reports inclosed clearly show the importance of maintaining and completing this post in a proper manner.

The plans include a system of water supply, which is very necessary as a protection against loss by fire.

The plans and estimates being approved by the department and division commanders and the Quartermaster-General, I beg to recommend an appropriation by Congress of \$50,000 in accordance therewith.

I am, sir, very respectfully, your obedient servant,

ROBERT T. LINCOLN,  
*Secretary of War.*

The PRESIDENT.

## FORT M'KINNEY, WYOMING TERRITORY.

OFFICE ACTING ASSISTANT QUARTERMASTER,  
Fort McKinney, Wyo., February 28, 1882

SIR: By direction of the commanding officer of the post, I have the honor to transmit herewith estimates \* \* with drawings for materials, &c., required to complete the post.

Very respectfully, your obedient servant,

H. DE LANG,  
First Lieutenant, Ninth Infantry, A. A. Q. M.

CHIEF QUARTERMASTER,  
Department of the Platte, Omaha, Nebr.

HEADQUARTERS DEPARTMENT OF THE PLATTE,  
CHIEF QUARTERMASTER'S OFFICE,  
Omaha, March 7, 1882

Respectfully submitted to the Adjutant-General, Department of the Platte, for the consideration and action of the department commander. Fort McKinney is in an unfinished shape, and to complete it, as set forth in the inclosed estimates, will cost a large sum of money. The very limited yearly allotment of barracks and quarters funds made to this department admits of the application of but a small sum to each of our several posts and stations, and consequently the completion of Fort McKinney from such funds is a very remote event, if not altogether impracticable. The sum of \$50,000 asked in the within estimates will complete the post in a substantial manner, including a system of water supply, which is very important as a protection against loss by fire.

M. J. LUDINGTON,  
Chief Quartermaster

HEADQUARTERS DEPARTMENT OF THE PLATTE,  
Omaha, Nebr., March 7, 1882

Respectfully forwarded to the Adjutant-General, Military Division of the Missouri. Approved on condition that the appropriation is not to come from out of the allotment of the department.

GEORGE CROOK,  
Brigadier-General, Commanding,

HEADQUARTERS MILITARY DIVISION OF THE MISSOURI,  
Chicago, March 9, 1882

Respectfully forwarded, earnestly recommending an appropriation of \$50,000 for the completion of the post of Fort McKinney, Wyoming Territory, in accordance with the inclosed estimates. This post was established as a camp on the Clear Fork of Powder River in 1878 for four companies of infantry and three of cavalry. On account of its position in the heart of the buffalo region, the region always resorted to by the Sioux, Northern Cheyennes, and Arapahoes, when at war with the whites, because of its supplies of game and isolation, the wisdom of its establishment has been amply demonstrated by the protection it has afforded in the past four years, and the encouragement it has given to settlements all along the eastern base of the Big Horn Mountains, and in the valleys of Powder River and Tongue River, and the valleys of the small streams that feed these rivers. In case of hostilities with the Indians, the region it protects would be again the battle-ground, and its necessity for many years to come is beyond question. In view of these conditions, it should be a permanent station, and the troops should be made comfortable by the improvement of the place as herein estimated for.

P. H. SHERIDAN,  
Lieutenant-General, Commanding.

ADJUTANT-GENERAL'S OFFICE,  
Washington, March 13, 1882.

Respectfully referred to the Quartermaster-General for remark.  
By order of the Secretary of War:

R. C. DRUM,  
Adjutant-General,

QUARTERMASTER-GENERAL'S OFFICE,  
Washington, March 16, 1882.

Respectfully returned to the Hon. Secretary of War, through the Adjutant-General, United States Army. Fort McKinney was established in 1878, since which time some \$40,000 have been expended thereon from the annual appropriations for barracks and

quarters, exclusive of some \$6,000 from the appropriation for hospitals. From these papers it appears that the post is still in an unfinished condition, and that to complete it in a proper and substantial manner, including a system of water supply, which is very important as a protection against loss by fire, will require \$50,000 additional.

The estimate is approved by the department and division commanders, and the preceding indorsement of the Lieutenant-General, to which attention is called, very clearly sets forth the importance of maintaining and completing the post in a proper manner.

Subject to the further approval by the General of the Army, I recommend that Congress be asked to appropriate the \$50,000 called for by the plans and estimates herewith.

RUFUS INGALLS,  
*Quartermaster-General, Bvt. Maj. Gen., U. S. A.*

HEADQUARTERS OF THE ARMY, ADJUTANT-GENERAL'S OFFICE,  
*Washington, March 21, 1882.*

Respectfully submitted to the Secretary of War.

R. C. DRUM,  
*Adjutant-General.*

*Cost constructing one set of captains' quarters at Fort McKinney, Wyoming Territory.*

35,605	feet lumber, at \$19 per M .....	\$676 50
20	window-sashes, 4 lights, 14 by 34, at \$1.35 per pair .....	13 50
18	window-sashes, 6 lights, 10 by 12, at \$1 per pair .....	9 00
8	panel doors $\frac{3}{4}$ by $\frac{3}{4}$ by $1\frac{1}{2}$ , at \$1.45 each .....	11 60
9	panel doors 2 by 8 by $1\frac{3}{4}$ , at \$1.75 each .....	15 75
10	sash-fasteners, at 30 cents each .....	3 00
40	sash-pulleys, at 5 cents each .....	2 00
40	sash-weights, at 12 cents each .....	4 80
240	feet sash-cord, at $1\frac{1}{2}$ cents per foot .....	3 60
17	door-locks, at \$1 each .....	17 00
8	pair butts, 4 by 4, at 25 cents each .....	2 00
9	pair butts, $3\frac{1}{2}$ by $3\frac{1}{2}$ , at 20 cents each .....	1 80
2	gross screws, cut $1\frac{1}{2}$ ", No. 9, at 23 cents gross .....	46
1	gross screws, cut 1", No. 8, at 19 cents gross .....	19
1	gross screws, cut $\frac{3}{8}$ ", No. 6, at 18 cents gross .....	18
24	wardrobe-hooks, at \$2 per gross .....	33
75	pounds whiting, at 2 cents per pound .....	1 50
3	kegs nails, cut 20d., at \$3.75 per keg .....	11 25
5	kegs nails, cut 10d., at \$4.75 per keg .....	23 75
3	kegs nails, cut 8d., at \$4.75 per keg .....	14 25
1	keg nails, cut 10d., casing .....	4 00
1	keg nails, cut 8d., casing .....	4 25
$1\frac{1}{2}$	kegs nails, cut 3d., at \$5.45 per keg .....	8 17
2	kegs nails, cut 4d., at \$4 per keg .....	8 00
3,000	bricks for chimneys, &c., at 2 cents each .....	60 00
125	bushels lime, at \$1 per bushel .....	125 00
15	bushels plastering hair, at 19 cents per bushel .....	2 85
$1\frac{1}{4}$	barrels plaster of Paris, at \$2 per barrel .....	3 00
400	pounds white lead, at \$3.37 per 100 pounds .....	33 48
28	gallons linseed oil, at 75 cents per gallon .....	21 00
21	gallons turpentine, at 65 cents per gallon .....	13 65
10	pairs window-shutters, at \$2.75 per pair .....	27 50
10	sets fastenings for same, at \$1 each .....	10 00
	Cost of materials .....	1,133 36
4	carpenters and plasterers, at \$80 per month each, for $2\frac{1}{2}$ months .....	800 00
	Total cost of 1 set captains' quarters .....	1,933 36
	Cost of 2 sets .....	3,866 72

*Cost of constructing shed to one set captains' quarters.*

1 006	feet lumber at \$19 per M .....	\$19 12
2	window-sash, 6 lights, 14 by 12, at \$1 per pair .....	1 00
1	panel door, $\frac{3}{4}$ by $1\frac{1}{2}$ , at \$1.75 .....	1 75
1	door-lock and knob, at \$1 .....	1 00
1	pair butts, $3\frac{1}{2}$ by $3\frac{1}{2}$ .....	20

1 pair strap hinges .....	\$0 30
10 pounds nails, cut 4d., at \$4 per keg .....	40
10 pounds nails, cut 10d., at \$4.75 per keg .....	48
10 pounds nails, cut 20d., at \$3.75 per keg .....	38

Cost of material .....	24 63
1 carpenter 10 days, at \$80 per month .....	26 66

Total cost of 1 shed .....

51 29

Cost of 2 sheds .....

102 58

*Cost of construction one porch to one set of captains' quarters.*

1,783 feet lumber, at \$19 per M .....	\$33 88
25 pounds nails, cut 8d., at \$4.75 per keg .....	1 19
35 pounds nails, cut 4d., at \$4 per keg .....	1 40
10 pounds nails, cut 20d., at \$3.75 per keg .....	38
35 pounds white lead, at \$8.37 per 100 pounds .....	2 93
4½ gallons linseed oil, at 75 cents per gallon .....	3 37

Cost of material .....

43 15

1 carpenter, at \$80 per month, for 15 days .....

40 00

Total cost of 1 porch .....

83 15

Cost of 3 porches .....

249 45

*Cost of constructing one double set of lieutenants' quarters.*

43,874 feet of lumber, at \$19 per M .....	\$833 60
20 window-sashes, 4 lights, 14 by 34, at \$1.35 per pair .....	13 50
20 window-sashes, 6 lights, 12 by 10, at \$1 per pair .....	10 00
16 panel doors, $\frac{3}{8}$ by $\frac{9}{8}$ by 1½, at \$1.45 each .....	23 20
8 panel doors, $\frac{3}{8}$ by $\frac{9}{8}$ by 1½, at \$1.75 each .....	14 00
7 panel doors, $\frac{3}{8}$ by $\frac{9}{8}$ by 1½, at \$1.75 each .....	12 25
10 sash-locks, at 30 cents each .....	3 00
40 sash-pulleys, at 5 cents each .....	2 00
40 sash-weights, at 12 cents each .....	4 80
240 feet sash-cord, at 1½ cents per foot .....	3 60
16 pairs butts, 4 by 4, at 25 cents per pair .....	4 00
15 pairs butts, 3½ by 3½, at 20 cents per pair .....	3 00
3 gross screws, cut 1½", No. 9, at 23 cents per gross .....	69
2 gross screws, cut 1", No. 8, at 19 cents per gross .....	38
3 gross screws, cut ¾", No. 8, at 18 cents per gross .....	54
3 kegs nails, cut 20d., at \$3.75 per keg .....	11 25
3 kegs nails, cut 10d., at \$4.25 per keg .....	14 25
3 kegs nails, cut 8d., at \$4.75 per keg .....	14 25
2 kegs nails, cut 4d., at \$4 per keg .....	8 00
2½ kegs nails, cut 3d., at \$5.45 per keg .....	13 62
1 keg nails, cut 8d., casing .....	4 25
1 keg nails, cut 10d., casing .....	4 00
8,000 brick for chimneys, set, at 2 cents each .....	160 00
250 bushels lime, at \$1 per bushel .....	250 00
30 bushels plastering hair, at 19 cents per bushel .....	5 70
31 door-lock and knobs, at \$1 each .....	31 00
150 pounds whiting, at 2 cents per pound .....	3 00
3 barrels plaster of Paris, at \$2 per barrel .....	6 00
500 pounds white lead, at \$8.37 per 100 pounds .....	41 85
35 gallons linseed oil, at 75 cents per gallon .....	26 25
28 gallons turpentine, at 65 cents per gallon .....	18 20
14 pair window-shutters, at \$2.75 per pair .....	38 50
14 sets fastenings for same, at \$1 per set .....	14 00

Cost of material .....

1,592 68

5 carpenters and plasterers for 2½ months, at \$80 per month each .....

1,000 00

Total cost of 1 double set lieutenants' quarters .....

2,592 68

Cost of 2 sets .....

5,185 36



*Cost of constructing one porch to one double set lieutenants' quarters.*

2,400 feet lumber, at \$19 per M.....	\$45 60
30 pounds nails, cut 4d., at \$4 per keg.....	1 20
25 pounds nails, cut 20d., at \$3.75 per keg.....	96
25 pounds nails, cut 8d., at \$4.75 per keg.....	1 19
50 pounds white lead, at \$8.37 per 100 pounds.....	4 18
6 gallons linseed oil, at 75 cents per gallon.....	4 50
1,000 bricks for foundation, at 2 cents each.....	20 00
5 bushels lime, at \$1 per bushel.....	5 00
Cost of material.....	82 63
1 carpenter and mason for 20 days, at \$80 per month.....	53 33
Total cost 1 porch.....	135 96
Cost of 5 porches.....	679 80

*Cost of constructing shed to double set of lieutenants' quarters.*

1,324 feet lumber, at \$19 per M.....	\$25 16
4 window-sashes, 6 lights, 10 by 12, at \$1 per pair.....	2 00
2 panel doors, $\frac{3}{4}$ by $\frac{3}{4}$ by 1 $\frac{1}{2}$ , at \$1.75 each.....	3 50
2 door locks and knobs, at \$1 each.....	2 00
4 pairs butts, 3 $\frac{1}{2}$ by 3 $\frac{1}{2}$ , at 20 cents per pair.....	80
2 strap hinges, 6", at 30 cents per pair.....	60
$\frac{1}{2}$ gross screws, cut 1", No. 8, at 19 cents per gross.....	10
20 pounds nails, cut 4d., at \$4 per keg.....	80
20 pounds nails, cut 10d., at \$4.75 per keg.....	95
20 pounds nails, cut 20d., at \$3.75 per keg.....	75
Cost of material.....	36 66
1 carpenter 10 days, at \$80 per month.....	26 66
Total cost of 1 shed.....	63 32
Cost of 2 sheds.....	126 64

*Cost of constructing one porch to one set of field-officers' quarters.*

2,267 feet lumber, at \$19 per M.....	\$43 07
30 pounds nail, cut 4d. fine, at \$4 per keg.....	1 20
10 pounds nails, cut 20d. fine, at \$3.75 per keg.....	38
15 pounds nails, cut 10d. fine, at \$4.75 per keg.....	71
20 pounds nails, cut 8d. fine, at \$4.75 per keg.....	95
50 pounds white lead, at \$8.37 per 100 pounds.....	4 18
12 gallons linseed oil, at 75 cents per gallon.....	9 00
Cost of material.....	59 49
1 carpenter, at \$80 per month, for 15 days.....	40 00
Total cost of porch.....	99 49

*Cost of fence around officers' quarters at Fort McKinney.*

53,000 feet lumber, at \$19 per M.....	\$1,007 00
1,100 posts, 7 feet long, at 10 cents each.....	110 00
26 sets grate hinges and fastenings, at \$1.....	26 00
36 pairs strap hinges, 8 inches, at 30 cents each.....	10 80
6 kegs nails, cut 20d., at \$3.75 per keg.....	22 50
10 kegs nails, cut 10d., at \$4.75 per keg.....	47 50
36 thumb-latches, at \$1.06 per dozen.....	3 18
4 gross screws, cut, No. 11, 1 $\frac{1}{2}$ ", at 30 cents per gross.....	1 20
4 kegs nails, cut 10d., casing, at \$4 per keg.....	16 00
1,000 pounds white lead, at \$8.37 per 100 pounds.....	83 70
116 gallons boiled linseed oil, at 75 cents per gallon.....	87 00
Cost of material.....	1,414 88
10 carpenters for one month, at \$80 per month each.....	800 00
Total cost of fence.....	2,214 88

*Cost of material and labor for the completion of one set field officers' quarters, six captains', and six double sets lieutenants' quarters.*

2, 100 feet lumber for weather-boarding, at \$19 per M .....	\$399 00
6 kegs nails, cut 8d., at \$4.75 per keg .....	28 50
6 kegs nails, cut 10d., at \$4.75 per keg .....	28 50
40 bushels lime, at \$1 per bushel .....	40 00
1, 050 pounds whiting, at 1½ cents per pound .....	15 75
3, 000 pounds white lead, at \$8.37 per 100 pounds .....	251 10
104 gallons linseed oil, at 75 cents per gallon .....	78 00
10 gallons Japan dryer, at 60 cents per gallon .....	6 00
180 pairs window shutters, 14 by 36, 4 lights, at \$2.75 per pair .....	495 00
198 pairs window shutters, 10 by 12, 6 lights, at \$1.75 per pair .....	346 50
378 sets fastenings for same, at 20 cents per set .....	75 60
278 sets chrome green, for shutters, at 12 cents .....	33 36
278 gallons linseed oil, at 75 cents per gallon .....	208 50
396 boxes roofing tin, at \$3.75 per box .....	3,465 00
792 pounds solder, at 25 cents per pound .....	198 00
<b>Cost of material .....</b>	<b>5,668 81</b>
2 painters, at \$80 per month each, 1 month .....	160 00
1 plasterer, at \$80 per month, 1 month .....	80 00
4 carpenters, at \$80 per month, 1 month .....	320 00
5 tinnors, at \$80 per month, for 3 months .....	1,120 00
<b>Total cost .....</b>	<b>7,348 81</b>

*Cost of constructing one porch to one set of infantry barracks.*

5, 534 feet lumber, at \$19 per M .....	\$105 14
60 pounds nails, cut 4d., at \$4.75 per keg .....	2 85
50 pounds nails, cut 10d., at \$4.75 per keg .....	2 37
40 pounds nails, cut 20d., at \$3.75 per keg .....	1 50
100 pounds white lead, at \$8.37 per 100 pounds .....	8 37
12 gallons linseed oil, at 75 cents per gallon .....	9 00
<b>Cost of material .....</b>	<b>129 93</b>
2 carpenters, at \$80 each, for 20 days .....	106 66
<b>Total cost of 1 porch .....</b>	<b>235 89</b>
<b>Cost of 4 porches .....</b>	<b>943 56</b>

*Cost of constructing one porch to one set of cavalry barracks.*

7, 050 feet of lumber, at \$19 per M .....	\$133 95
60 pounds nails, cut 4d., at \$4.75 per keg .....	2 85
100 pounds nails, cut 10d., at \$4.75 per keg .....	4 75
35 pounds nails, cut 20d., at 3.75 per keg .....	1 31
150 pounds white lead, at \$8.37 per 100 pounds .....	12 55
15 gallons linseed oil, at 75 cents per gallon .....	11 25
<b>Cost of material .....</b>	<b>166 66</b>
2 carpenters, at \$80 per month each, for 22 days .....	117 32
<b>Total cost of 1 porch .....</b>	<b>283 98</b>
<b>Cost of 3 porches .....</b>	<b>851 94</b>

*Cost of constructing porch to headquarters building.*

6, 125 feet lumber, at \$19 per M .....	\$116 30
50 pounds nails, cut 20d., at \$3.75 per keg .....	1 87
60 pounds nails, cut 10d., at \$4.75 per keg .....	2 85
50 pounds nails, cut 4d., at \$4 per keg .....	2 00
20 pounds nails, cut 10d., casing, at \$4.75 per keg .....	95
100 pounds white lead, at \$8.37 per 100 pounds .....	8 37
12 gallons linseed oil, at 75 cents per gallon .....	9 00
<b>Cost of material .....</b>	<b>141 34</b>
1 carpenter, at \$80 per month, for 25 days .....	66 66
<b>Total cost of porch .....</b>	<b>208 00</b>

*Cost of material, &c., required for the completion of three sets cavalry and four sets infantry barracks, three storehouses, and one headquarters building.*

83,000 feet lumber for weather-boarding, at \$19 per M.....	\$1,577 00
12½ kegs nails, cut 8d., at \$4.75 per keg.....	59 37
12½ kegs nails, cut 10d., at \$4.75 per keg.....	59 37
2,000 kegs mineral paint, at 3 cents per pound.....	60 00
320 gallons linseed oil, at 75 cents per gallon.....	240 00
300 pounds white lead, at \$8.37 per 100 pounds.....	25 11
50 pounds Prussian blue, at 45 cents per pound.....	22 50
1,700 bushels lime, at \$1 per bushel.....	1,700 00

Cost of material.....	3,743 35
4 Plasterers, at \$80 per month each, for 1 month.....	320 00
4 carpenters, at \$80 per month each, for 1 month.....	640 00

Total cost..... 4,703 35

*Cost of constructing one carpenters' and paint shop.*

18,897 feet lumber, at \$19 per M.....	\$359 04
40 window-sashes, 10 by 12, 6 lights, at \$1 per pair.....	20 00
4 panel doors, ¾ by 6 by 1½, at \$1.45 each.....	5 80
4 door locks and knobs, at \$1 each.....	4 00
4 pair butts, ¾ by 3¼, at 20 cents per pair.....	80
4 pair strap hinges, 8" at 30 cents per pair.....	1 20
1 gross screws, cut 1¼", No. 9.....	24
1 keg nails, cut 20d.....	3 75
1 keg nails, cut 10d.....	4 75
1 keg nails, cut 8d.....	4 75
2 kegs nails, cut 4d., at \$1 per keg.....	8 00
7 bushels lime, at \$1 per bushel.....	7 00
500 bricks, at 2 cents each.....	10 00

Cost of material.....	429 33
3 carpenters, at \$80 per month each, for 27 days.....	216 00
1 mason, at \$80 per month, for 3 days.....	8 00

Total cost..... 653 33

*Cost of constructing one blacksmith shop.*

10,783 feet lumber, at \$19 per M.....	\$204 88
10 window-sashes, 10 by 12, 6 lights, at \$1 each.....	5 00
150 pounds nails, cut 4d., at \$4 per keg.....	6 00
50 pounds nails, cut 20d., at \$3.75 per keg.....	1 87
150 pounds nails, cut 10d., at \$4.75 per keg.....	7 12
50 pounds nails, cut 8d., at \$4.75 per keg.....	2 37
240 pounds bar iron for hinges, at \$4 per cwt.....	9 60
48 carriage-bolts, ½ by 5, at \$2.56 per cwt.....	1 23
7,000 bricks for forges and foundations, at 2 cents each.....	140 00
21 bushels lime, at \$1 per bushel.....	21 00

Cost of material.....	399 07
2 carpenters, at \$80 per month each, for 27 days.....	144 00
1 mason, at \$80 per month, for 1 month.....	80 00

Total cost..... 623 07

*Cost of constructing one wheelwright shop.*

6,884 feet lumber, at \$19 per M.....	\$130 80
12 window-sashes, 10 by 12, 6 lights, at \$1 per pair.....	6 00
2 pair strap hinges, at 30 cents per pair.....	60
1 keg nails, cut 10d.....	4 75
50 pounds nails, cut 20d., at \$3.75 per keg.....	1 87
50 pounds nails, cut 8d., at \$4.75 per keg.....	2 37
40 pounds nails, cut 4d., at \$4 per keg.....	1 60
7 bushels lime, at \$1 per bushel.....	7 00
500 bricks for chimney, at 2 cents each.....	10 00

Cost of material..... 164 99

1 carpenter, at \$80 per month, for 26 days .....	\$69 33
1 mason, at \$80 per month, for 3 days .....	8 00
<b>Total cost</b> .....	<b>242 32</b>

*Cost of constructing one saddler and tin shop.*

9,500 feet lumber, at \$19 per M .....	\$180 50
1,000 bricks for chimney, at 2 cents each .....	20 00
10 bushels lime, at \$1 per bushel .....	10 00
16 window sashes, 10 by 10, 6 lights, at \$1 per pair .....	8 00
3 panel doors $\frac{3}{4}$ by $\frac{3}{4}$ by $1\frac{1}{2}$ , at \$1.45 each .....	4 35
3 pair butts, $3\frac{1}{2}$ by $3\frac{1}{2}$ , at 20 cents each .....	6 00
$\frac{1}{4}$ gross screws, cut $1\frac{1}{2}$ ", No. 9, at 25 cents per gross .....	8 00
1 keg nails, cut 10d .....	4 75
50 pounds nails, cut 8d., at \$4.75 per keg .....	2 38
50 pounds nails, cut 20d., at \$3.75 per keg .....	1 88
50 pounds nails, cut 4d., at \$4 per keg .....	2 00
<b>Cost of material</b> .....	<b>234 54</b>
2 carpenters, at \$80 per month each, for 20 days .....	106 66
<b>Total cost</b> .....	<b>341 20</b>

*Cost of constructing one cavalry stable.*

68,700 feet lumber, at \$19 per M .....	\$1,305 30
10 kegs nails, cut 4d., at \$4 per keg .....	40 00
4 kegs nails, cut 8d., at \$4.75 per keg .....	19 00
15 kegs nails, cut 20d., at \$3.75 per keg .....	56 25
12 kegs nails, cut 10d., at \$4.75 per keg .....	57 00
6 window-sashes, 10 by 12, 6 lights, at \$1 per pair .....	3 00
4 panel doors, $\frac{3}{4}$ by $\frac{3}{4}$ by $1\frac{1}{2}$ , at \$1.45 each .....	5 80
4 pair butts, $3\frac{1}{2}$ by $3\frac{1}{2}$ , at 20 cents per pair .....	80
1 gross screws, cut $1\frac{1}{2}$ ", No. 9 .....	25
200 pounds fire iron for door hinges, at \$4 per 100 pounds .....	8 00
80 carriage-bolts, at \$2.50 per hundred .....	2 00
10 hooks and staples, at 10 cents each .....	1 00
<b>Cost of material</b> .....	<b>1,498 40</b>
9 carpenters for 1 month, at \$80 per month each .....	720 00
<b>Total cost</b> .....	<b>2,218 40</b>

*Cost of constructing quartermaster's corral.*

80,913 feet lumber, at \$19 per M .....	\$1,537 35
23 pair strap hinges, 8 inches, at 30 cents per pair .....	6 90
4 gross screws, cut 1 inch, No. 9, at 19 cents per gross .....	76
15 kegs nails, cut 20d., at \$3.75 per keg .....	56 25
12 kegs nails, cut 10d., at \$4.75 per keg .....	57 00
6 kegs nails, cut 4d., at \$4 per keg .....	24 00
3 panel doors, $\frac{3}{4}$ by $\frac{3}{4}$ by $1\frac{1}{2}$ , at \$1.45 each .....	4 35
3 door locks and knobs, at \$1 each .....	3 00
3 pairs butts, $3\frac{1}{2}$ by $3\frac{1}{2}$ , at 20 cents per pair .....	60
6 window-sashes, 10 by 12, 6 lights, at \$1 per pair .....	3 00
23 hasps and staples, at 15 cents each .....	3 45
<b>Cost of material</b> .....	<b>1,696 66</b>
10 carpenters for 1 month, at \$80 per month each .....	800 00
<b>Total cost</b> .....	<b>2,496 66</b>

*Cost of constructing one brick grain-house.*

250,000 bricks, at 2 cents each .....	\$5,000 00
900 bushels lime, at \$1 per bushel .....	900 00
26,740 feet of lumber, at \$19 per M .....	508 36
2 $\frac{1}{2}$ kegs nails, cut 4d., at \$4 per keg .....	10 00
2 kegs nails, cut 10d., at \$4.75 per keg .....	9 50

2 kegs nails, cut 20d., at \$3.75 per keg.....	\$7 50
50 pounds bar iron for hinges, at \$4 per cwt.....	2 00
<hr/>	
Cost of material.....	6, 437 36
4 bricklayers for 2 months, at \$80 per month each.....	640 00
4 laborers for 2 months, at \$40 per month each.....	320 00
2 carpenters for 1 month, at \$80 per month each.....	160 00
<hr/>	
Total cost.....	7, 557 36

*Cost of constructing one chapel and school-house.*

49, 572 feet of lumber, at \$19 per M.....	\$941 57
40 window-sashes, 6 lights, 10 by 10, at \$1 per pair.....	20 00
10 panel doors, $\frac{3}{4}$ by $\frac{4}{4}$ by $1\frac{1}{2}$ , at \$1.45 each.....	14 50
10 door locks and knobs, at \$1 each.....	10 00
10 pair butts, $3\frac{1}{2}$ by $3\frac{1}{2}$ , at 20 cents per pair.....	2 00
2 gross screws, cut 1 inch, No. 8, at 19 cents per gross.....	38
48 wardrobe-hooks, at \$2 per gross.....	66
3 kegs nails, cut 20d., at \$3.75 per keg.....	11 25
4 kegs nails, cut 8d., at \$4.75 per keg.....	19 00
6 kegs nails, cut 10d., at \$4.75 per keg.....	28 50
3 kegs nails, cut 4d., at \$4 per keg.....	12 00
2 kegs nails, cut 8d, finish, at \$4.25 per keg.....	8 50
1 keg nails, cut 3d., at \$5.45 per keg.....	5 45
3, 000 bricks for chimneys, at 2 cents each.....	60 00
200 bushels lime, at \$1 per bushel.....	200 00
28 bushels plastering hair, at 19 cents per bushel.....	5 32
2 barrels plaster of Paris, at \$2 per barrel.....	4 00
400 pounds white lead, at \$8.37 per cwt.....	33 48
30 gallons linseed oil, at 75 cents per gallon.....	22 50
<hr/>	
Cost of material.....	1, 399 41
4 carpenters, at \$80 per month each, for 1 month.....	320 00
1 plasterer, at \$80 per month, for 1 month.....	80 00
<hr/>	
Total cost.....	1, 799 41

*Cost of constructing one set of ordnance sergeants' quarters.*

9, 122 feet lumber, at \$19 per M.....	\$173 31
12 window-sashes, 6 lights, 10 by 12, at \$1 per pair.....	6 00
4 panel doors, $\frac{3}{4}$ by $\frac{4}{4}$ by $1\frac{1}{2}$ , at \$1.45 each.....	5 80
4 pair butts, $3\frac{1}{2}$ by $3\frac{1}{2}$ , at 20 cents per pair.....	80
$\frac{1}{2}$ gross screws, cut 1 inch, No. 8, at 20 cents per gross.....	05
50 pounds nails, cut 20d., at \$3.75 per keg.....	1 88
1 keg nails, cut 8d.....	4 75
1 keg nails, cut 10d.....	4 75
50 pounds nails, cut 4d., at \$4 per keg.....	2 00
50 pounds nails, cut 8d., finish, at \$4.75 per keg.....	2 13
40 pounds nails, cut 3d., at \$5.45 per keg.....	2 18
1, 000 bricks for chimneys, at 2 cents each.....	20 00
4 door locks and knobs, at \$1 each.....	4 00
1 barrel plaster of Paris, at \$2 per barrel.....	2 00
47 bushels lime, at \$1 per bushel.....	47 00
10 bushels plastering hair, at 19 cents per bushel.....	1 90
50 pounds white lead, at \$8.37 per 100 pounds.....	4 19
6 gallons linseed oil, at 75 cents per gallon.....	4 50
<hr/>	
Cost of material.....	287 24
2 carpenters, at \$80 per month each, for 20 days.....	106 66
1 plasterer, at \$80 per month, for 20 days.....	5 33
<hr/>	
Total cost.....	447 23

*Cost of machinery, &c., required at Fort McKinney, Wyoming Territory.*

1 sawmill, No. 4, Griffith & Wedge, Janesville, Ohio, manufacturers.....	\$700 00
1 saw gummer.....	20 00

1 planer and matcher, 8 by 20, assorted belting.....	\$800 00
1 sticker with full set of knives.....	247 50
1 shingle machine, complete.....	300 00
54 feet belting leather, double, 6 inches, at \$1 per foot.....	64 80
24 feet belting rubber, 4 ply, 8 inches, at 60 cents per foot.....	14 40
24 feet belting rubber, 4 ply, 3 inches, at 29 cents per foot.....	6 96
80 feet belting rubber, 4 ply, 6 inches, at 38 cents per foot.....	30 40
36 feet belting rubber, 4 ply, 12 inches, at \$1 per foot.....	36 00
1 oil-cup for steam chest, large size.....	7 50
1 smoke-stack, 12 inches diameter, 30 feet long.....	50 00
1 saw arbor, 1½ inches by 20.....	60 00
1 shaft, 18 feet long, with 2 pulleys.....	69 62
1 shaft, 3 feet long, with 2 pulleys.....	10 65
1 tightning-pulley, 14 inches diameter, 8-inch face.....	5 28
1 tightning-pulley, 14 inches diameter, 12-inch face.....	7 22
1 shaft, 8 feet long, vertical and 2 pulleys.....	33 12
1 shaft, 60 feet long, 8 boxes and collars, and 5 pulleys.....	162 63
<b>Total cost.....</b>	<b>2,626 08</b>

*Cost of material required to supply post with water.*

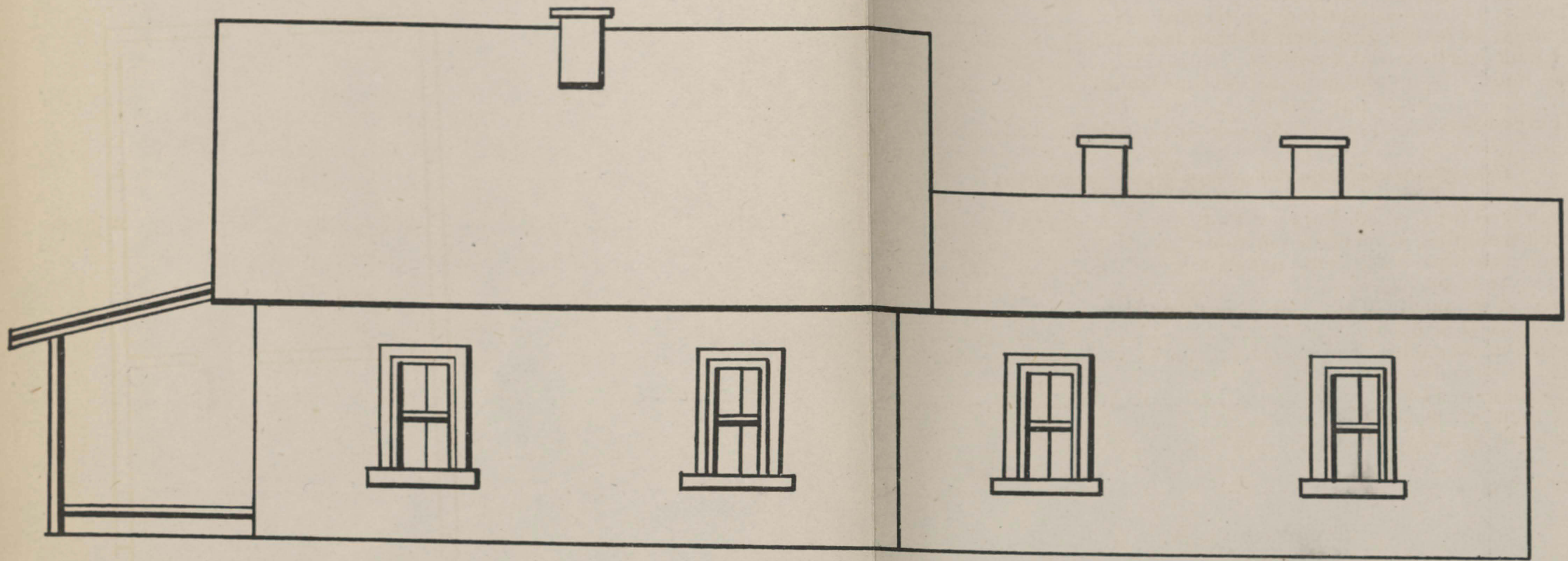
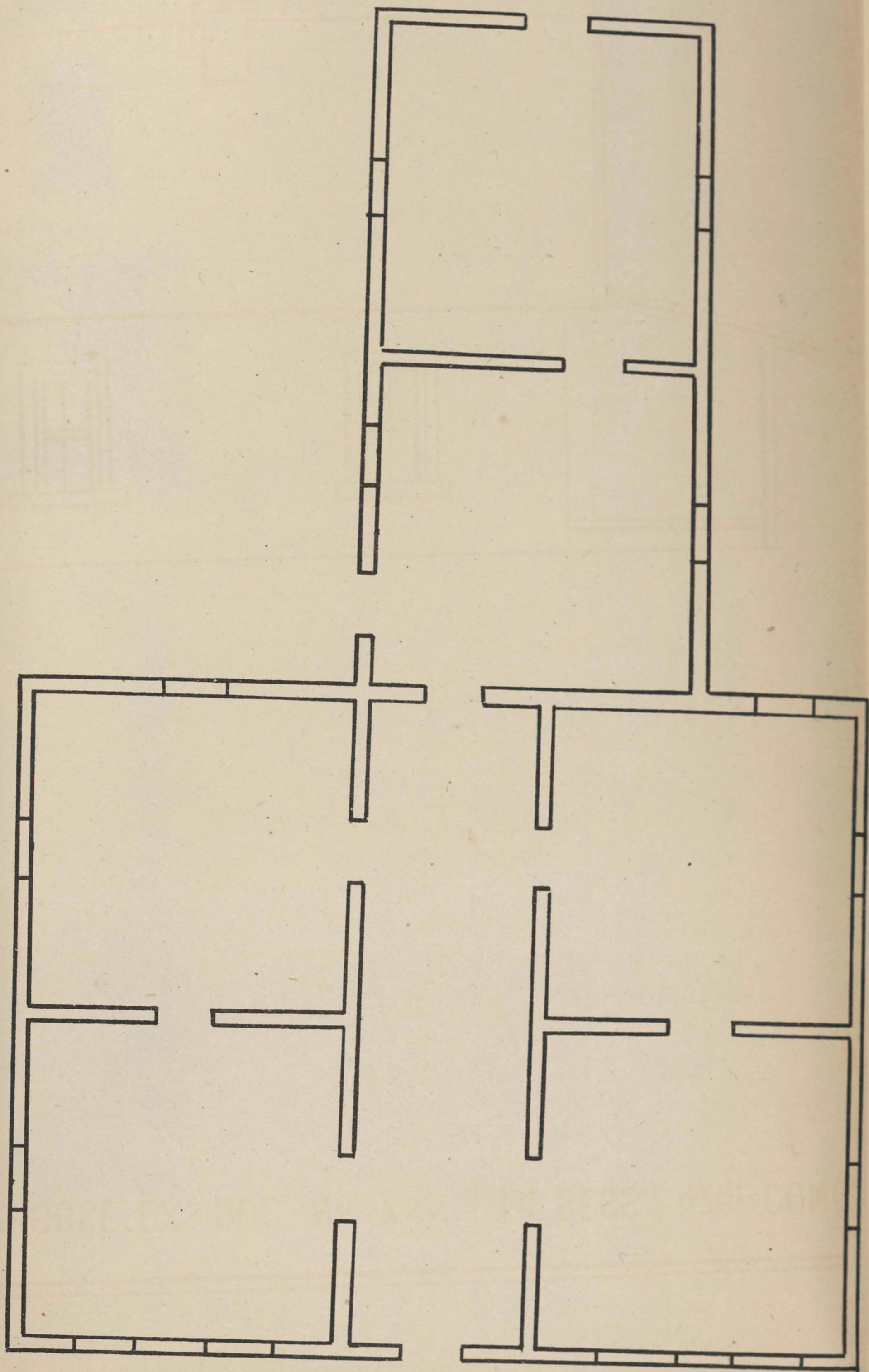
1, 342 feet ¾-inch iron pipe, at 65 cents per foot.....	\$572 30
4, 000 feet ¾-inch iron pipe, at 55 cents per foot.....	2,200 00
1, 200 feet 2½-inch iron pipe, at 40 cents per foot.....	480 00
15 hydrants, at \$45 each.....	675 00
15 T's, 3-inch, at \$1 each.....	15 00
3 T's, ¾-inch, at \$1.50 each.....	4 50
1 cross, 3-inch, at \$2 each.....	2 00
6 ells 3-inch, at 80 cents each.....	4 80
15 flanges, 2½-inch, at \$1.25.....	18 75
20 nipples, 2-inch, at 30 cents.....	6 00
1 water-tank, 14 by 16.....	235 00
<b>Total cost.....</b>	<b>4,513 35</b>

RECAPITULATION.

2 sets captains' quarters.....	\$3,866 72
2 sheds to captains' quarters.....	102 58
3 porches to captains' quarters.....	249 45
2 double sets of lieutenants' quarters.....	5,185 36
5 porches to lieutenants' quarters.....	679 80
2 sheds to lieutenants' quarters.....	126 64
1 porch to field officers' quarters.....	99 49
Fence around officers' quarters.....	2,214 88
Completing officers' quarters.....	7,348 87
4 porches to infantry barracks.....	943 56
3 porches to cavalry barracks.....	851 94
1 porch to headquarters building.....	208 00
1 Completing men's barracks.....	4,703 35
carpenter and paint shop.....	653 33
1 blacksmith shop.....	627 07
1 wheelwright shop.....	242 32
1 saddler and tin shop.....	341 20
1 cavalry stable.....	2,218 40
1 quartermaster corral.....	2,496 66
1 brick grain-house.....	7,557 36
1 chapel and school-house.....	1,799 41
1 set ordnance sergeants' quarters.....	447 23
1 Machinery, &c.....	2,626 08
Water-works.....	4,513 35
<b>Total.....</b>	<b>50,098 99</b>

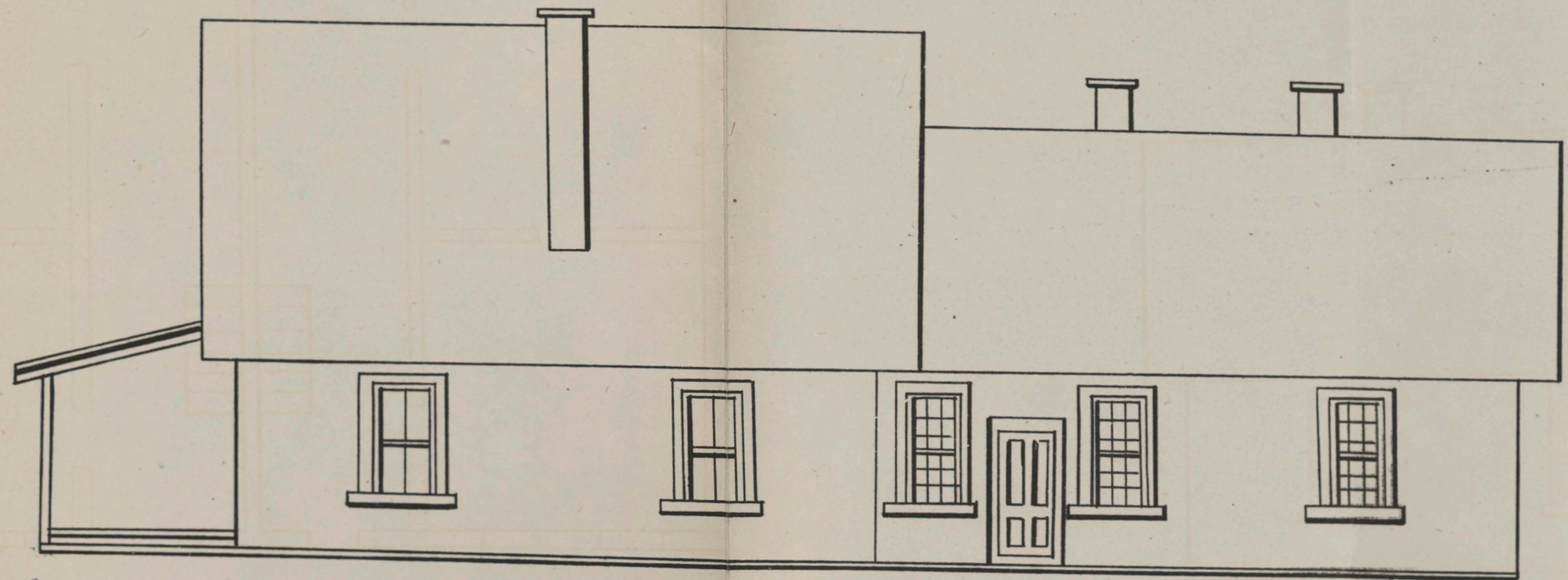
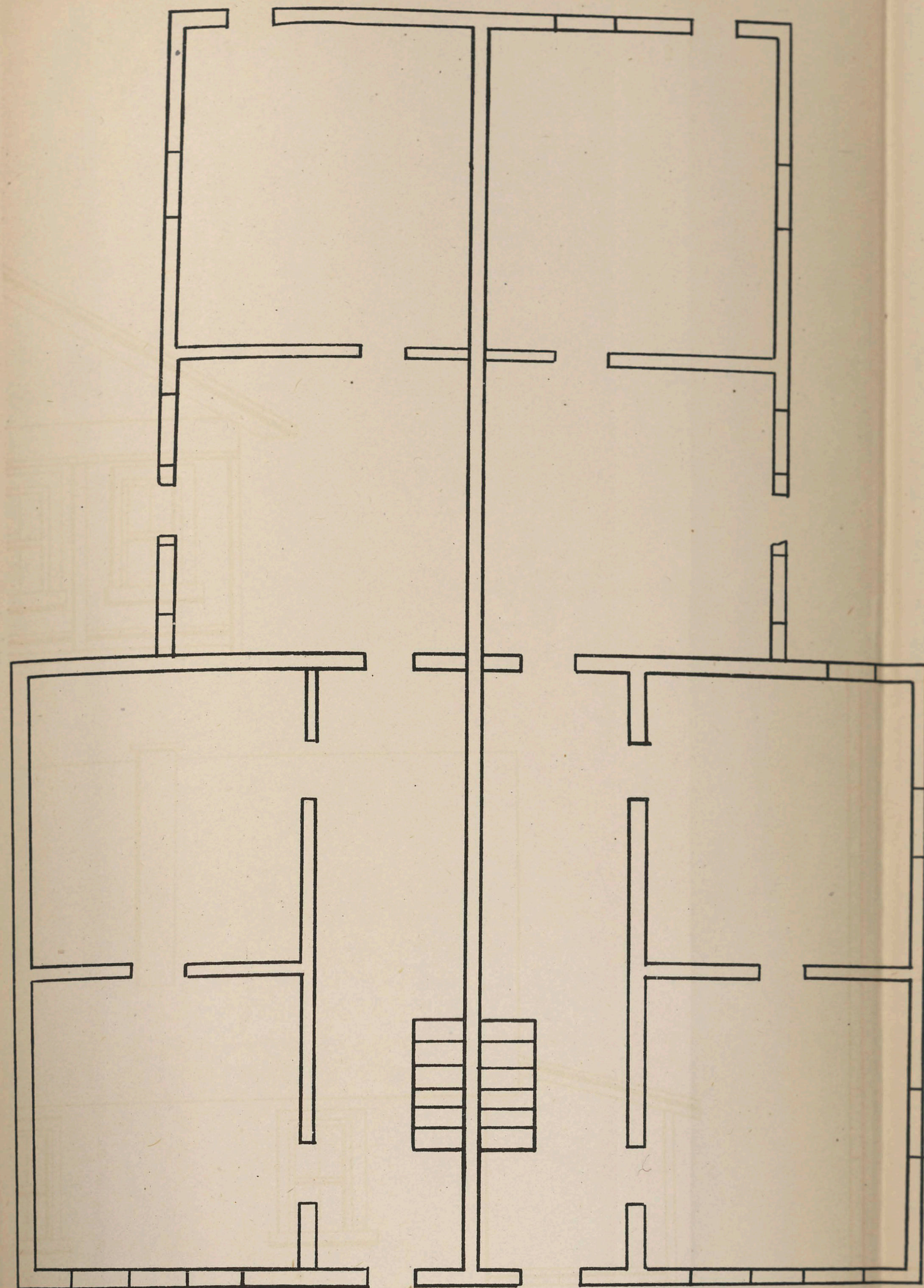


Captains Quarters  
Scale 1" to 10 feet

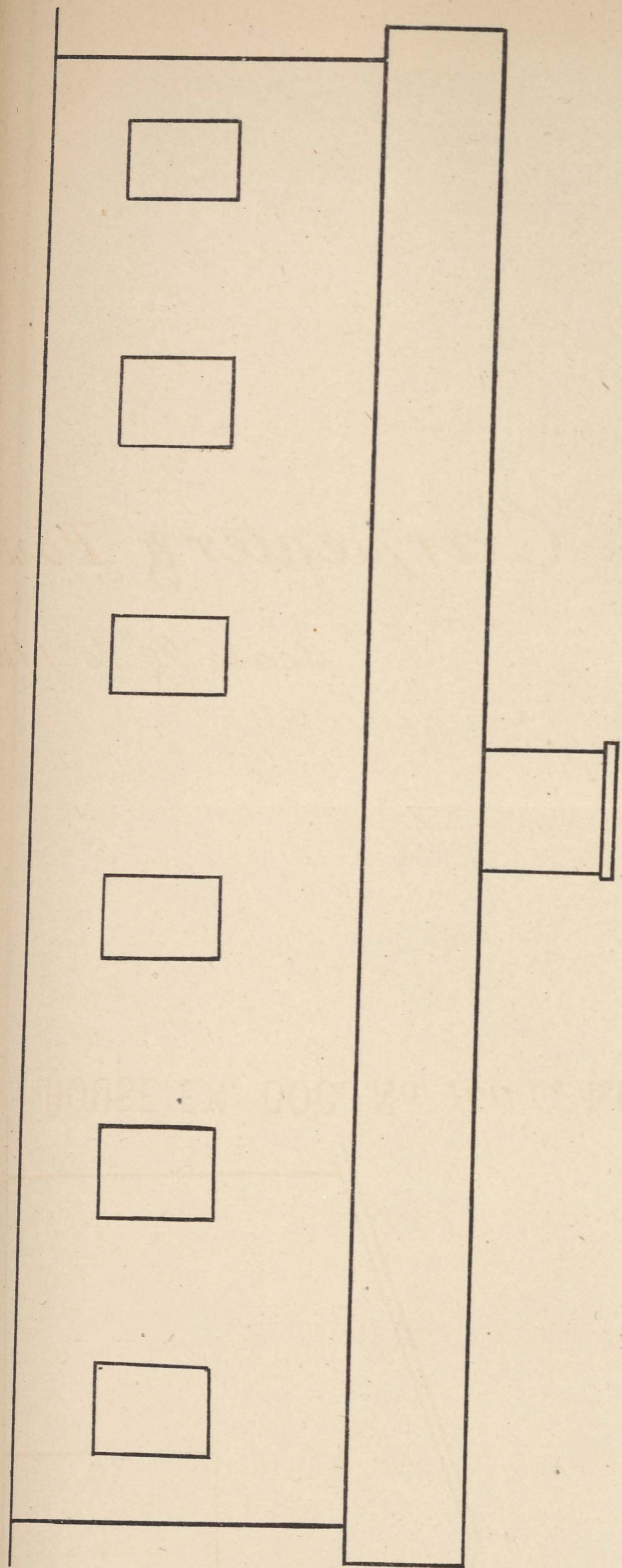




Double set of Lieutenants Quarters  
Scale 1" to 10 feet







*Carpenter & Paint shop*

*Scale 1/8" to 1 foot*

*Paintshop*

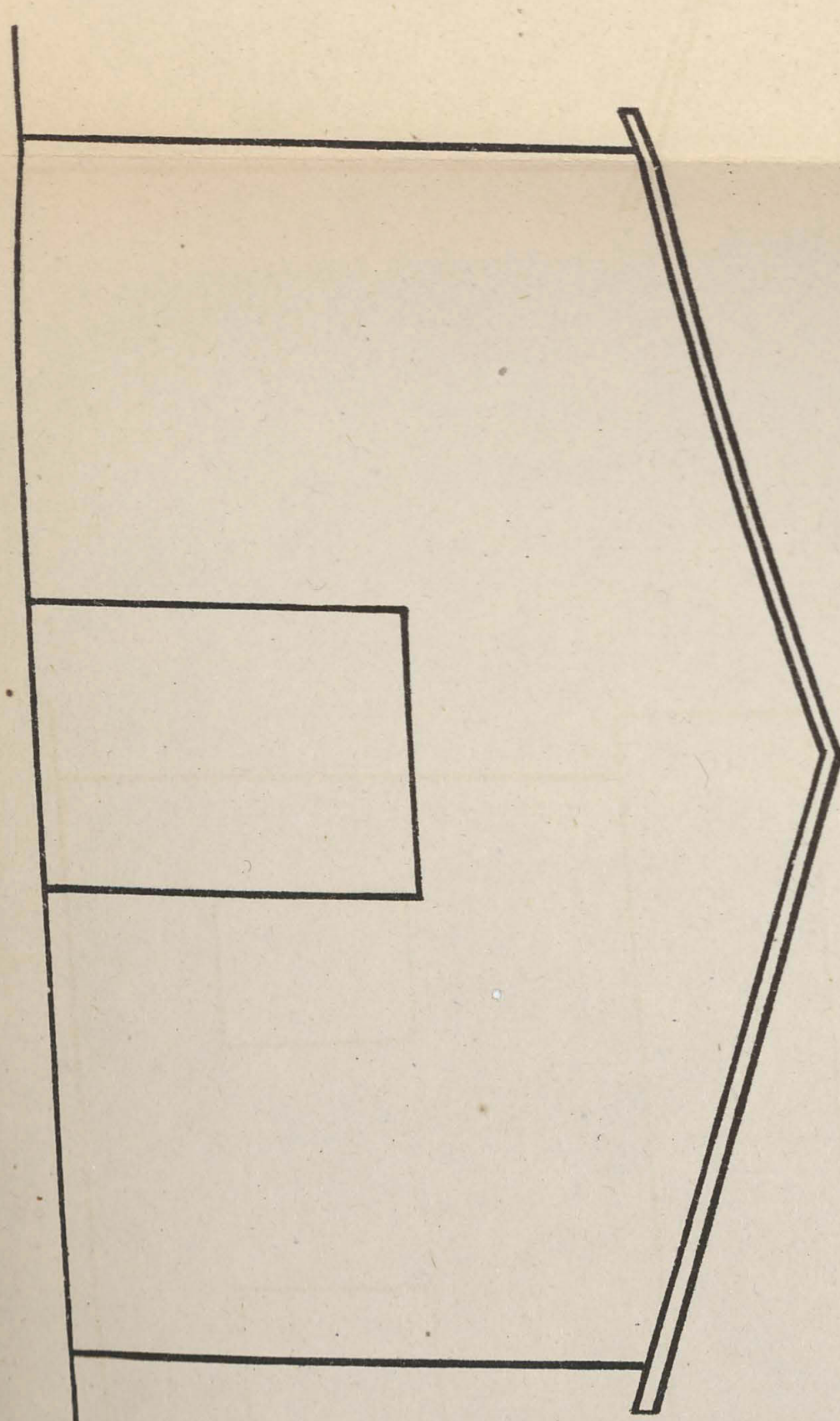
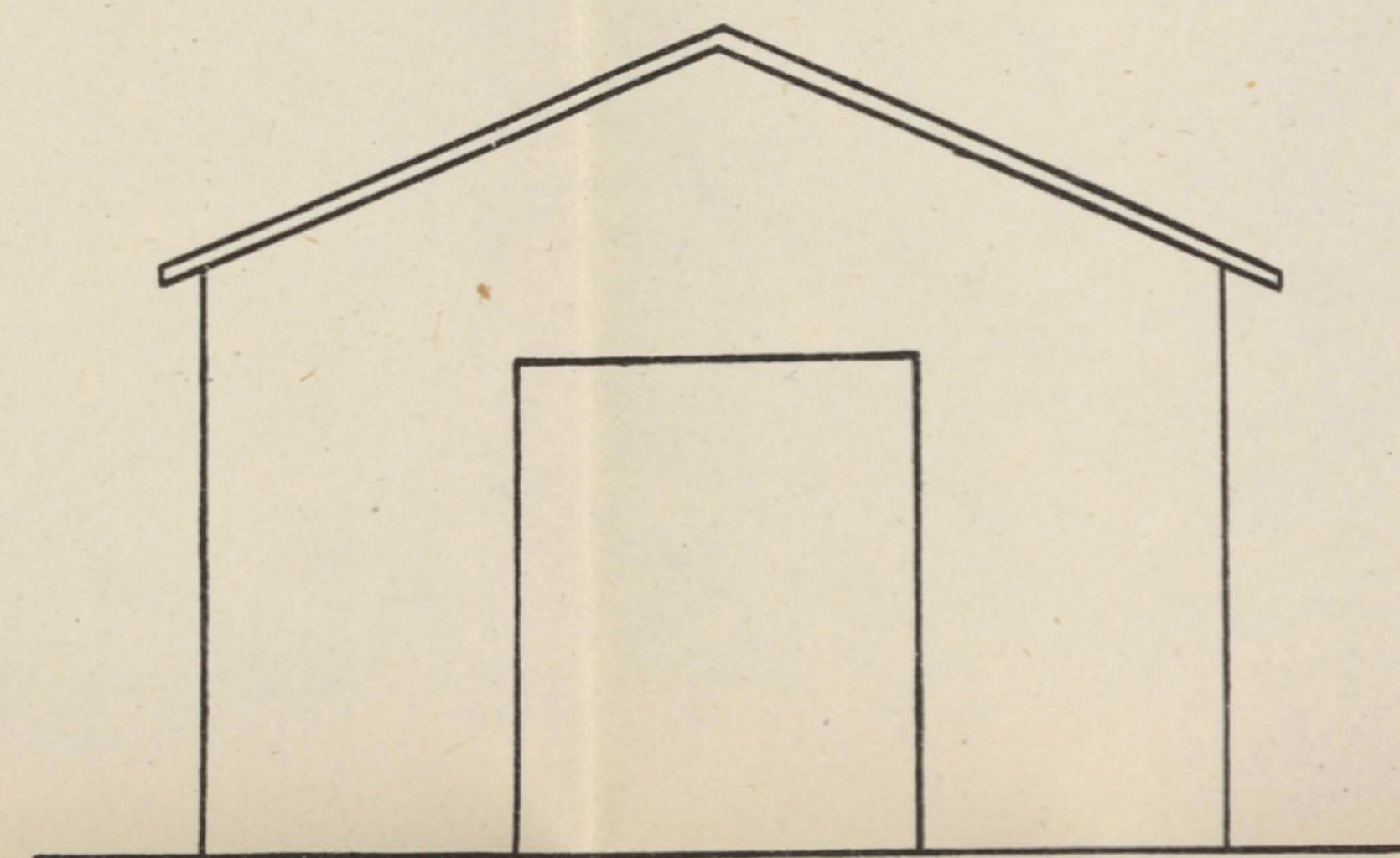
*18 x 20*

*Store room*

*12 x 20*

*Carpenter shop*

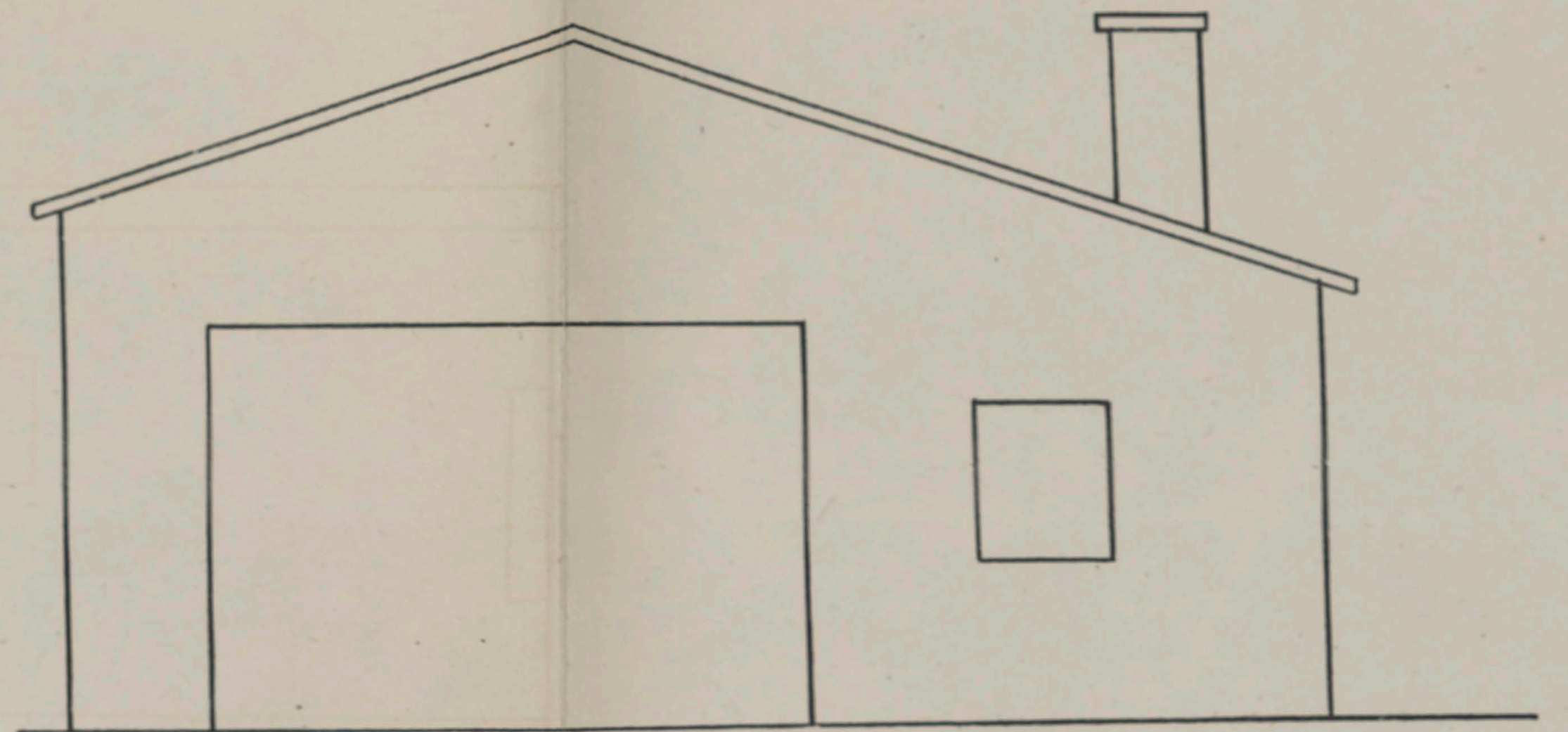
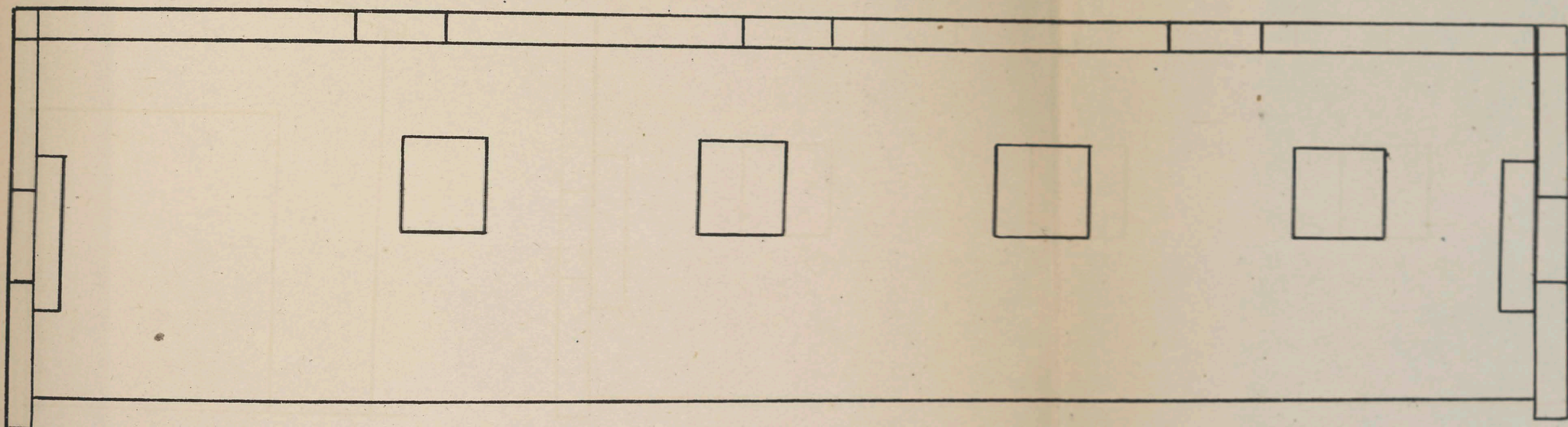
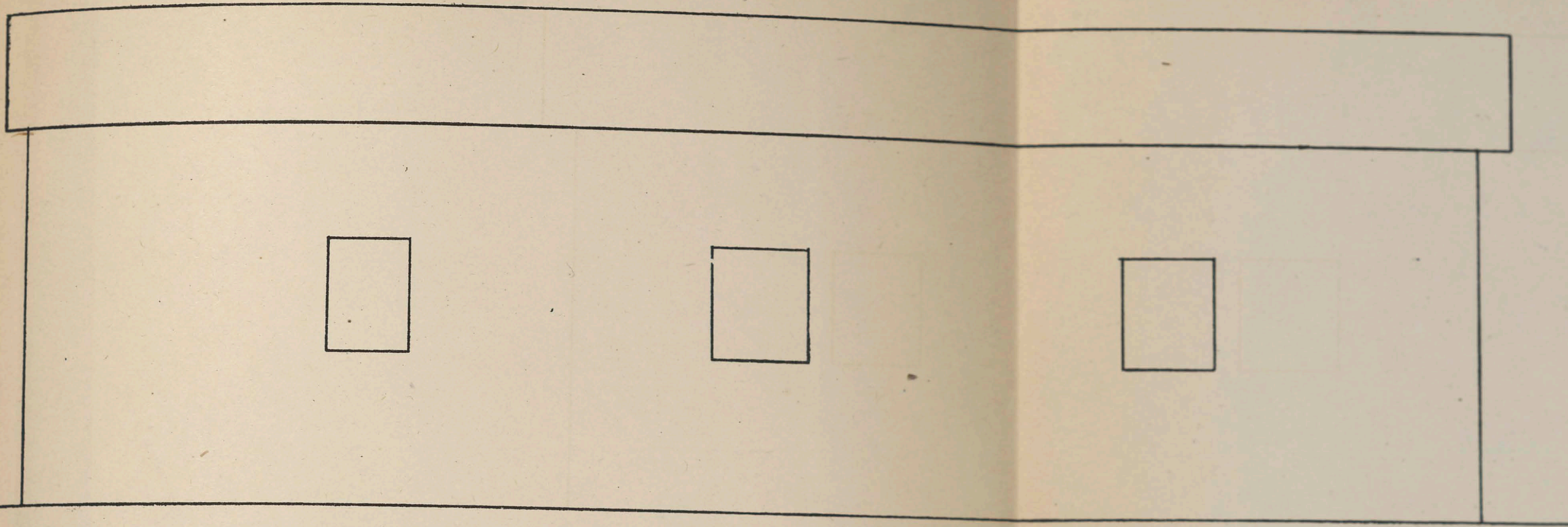
*50 x 25*



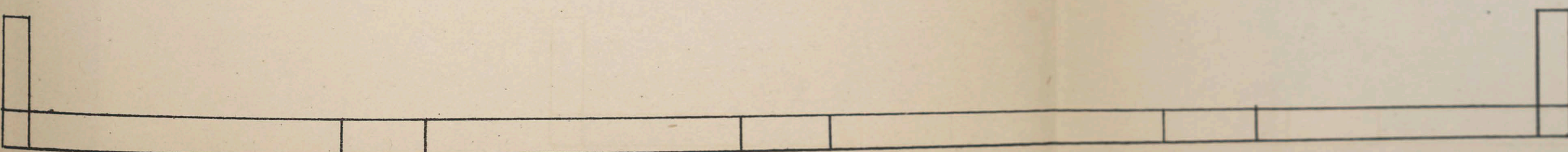


*Blacksmith's Shop*

*Scale 1/8" to 1 foot*

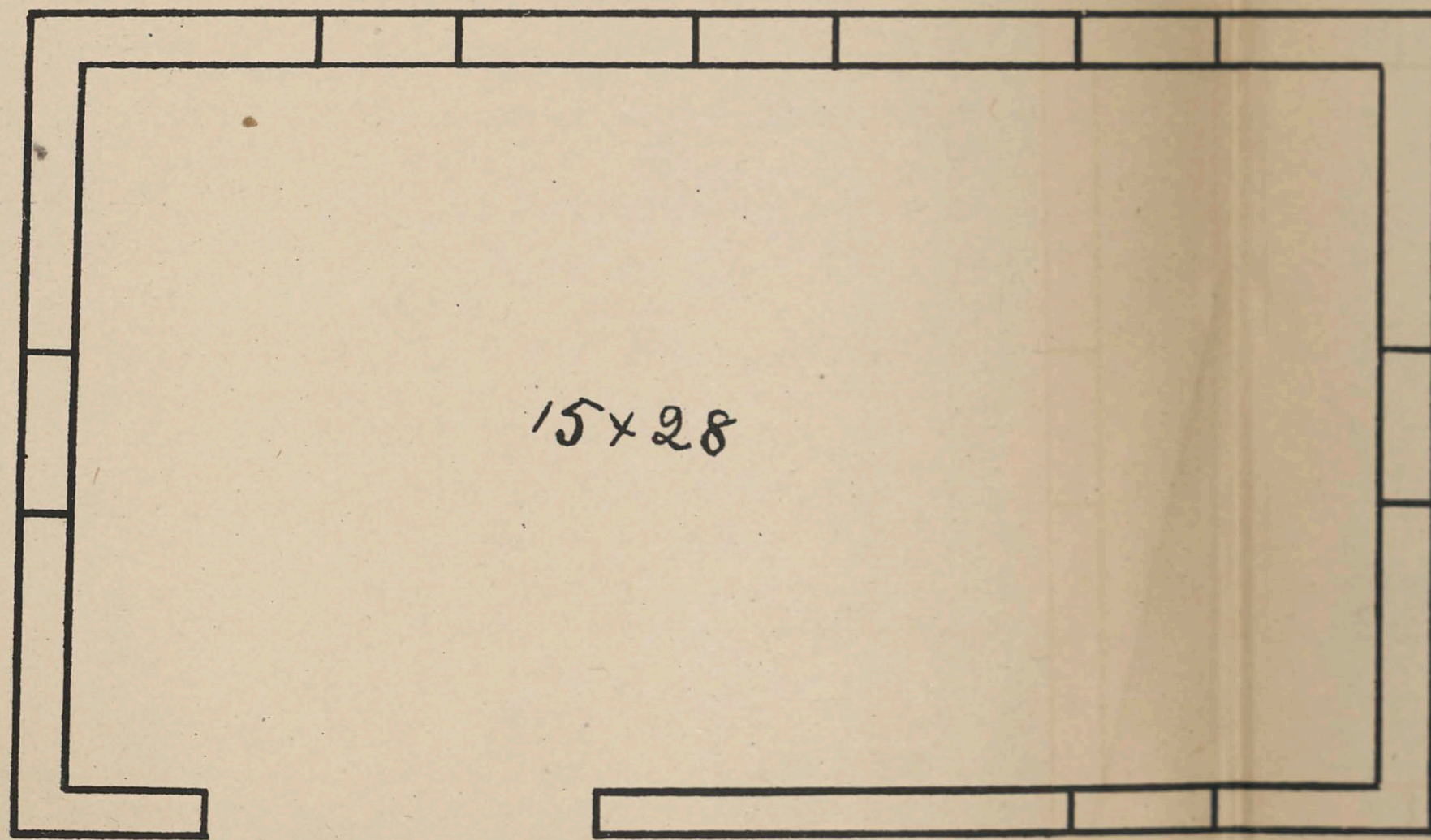
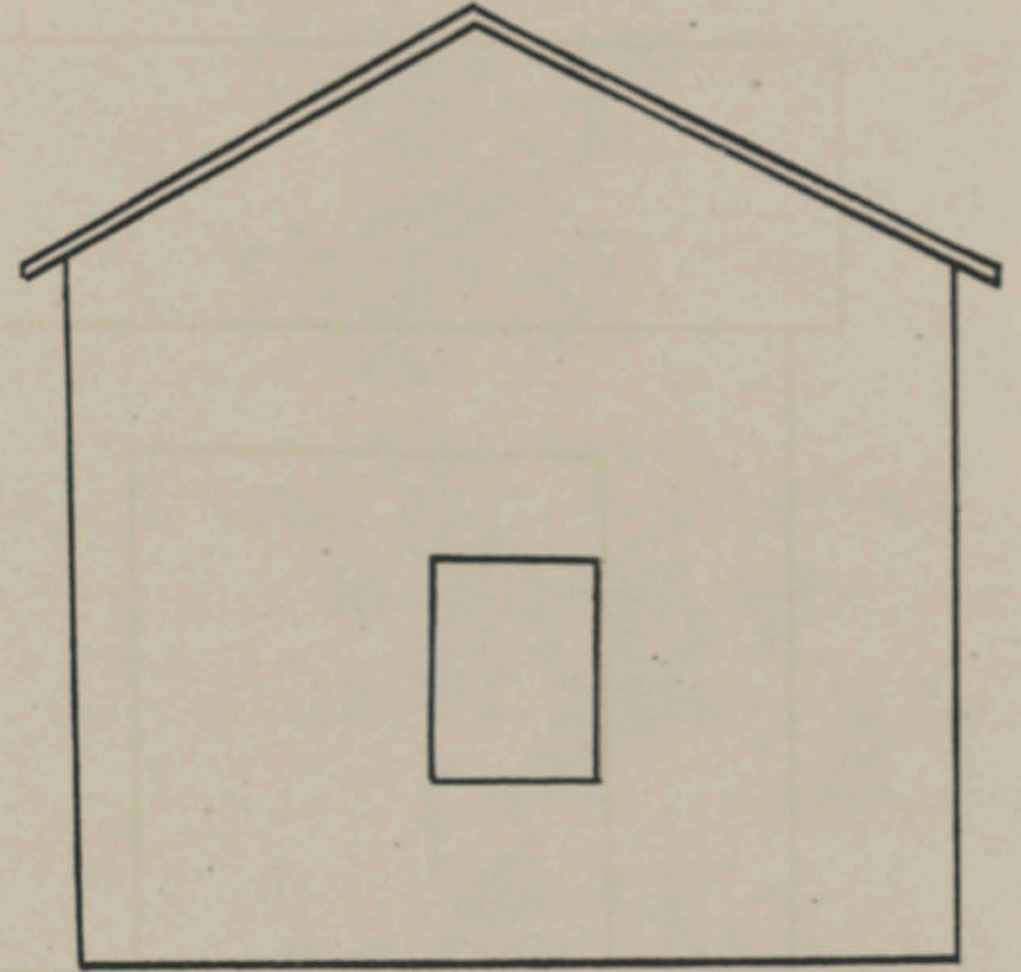
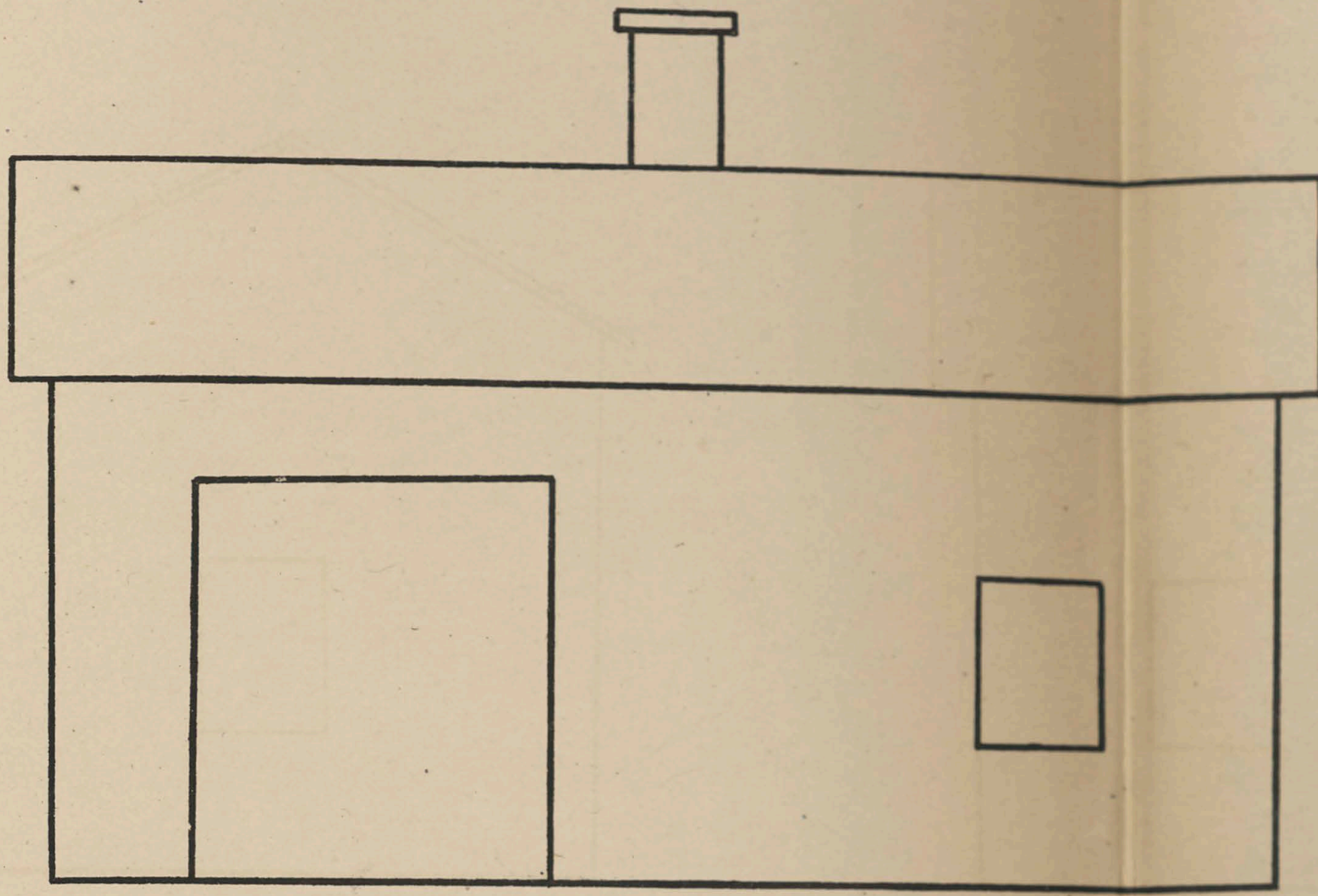


*50 x 30*



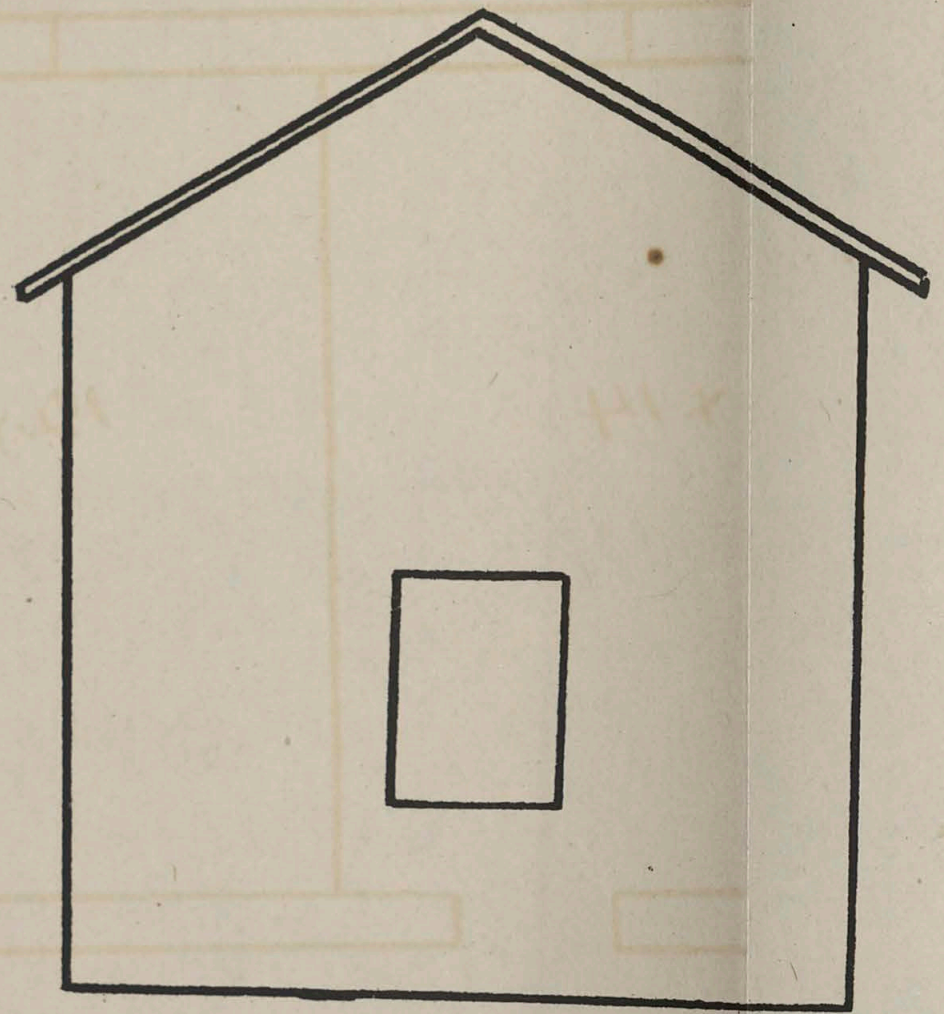
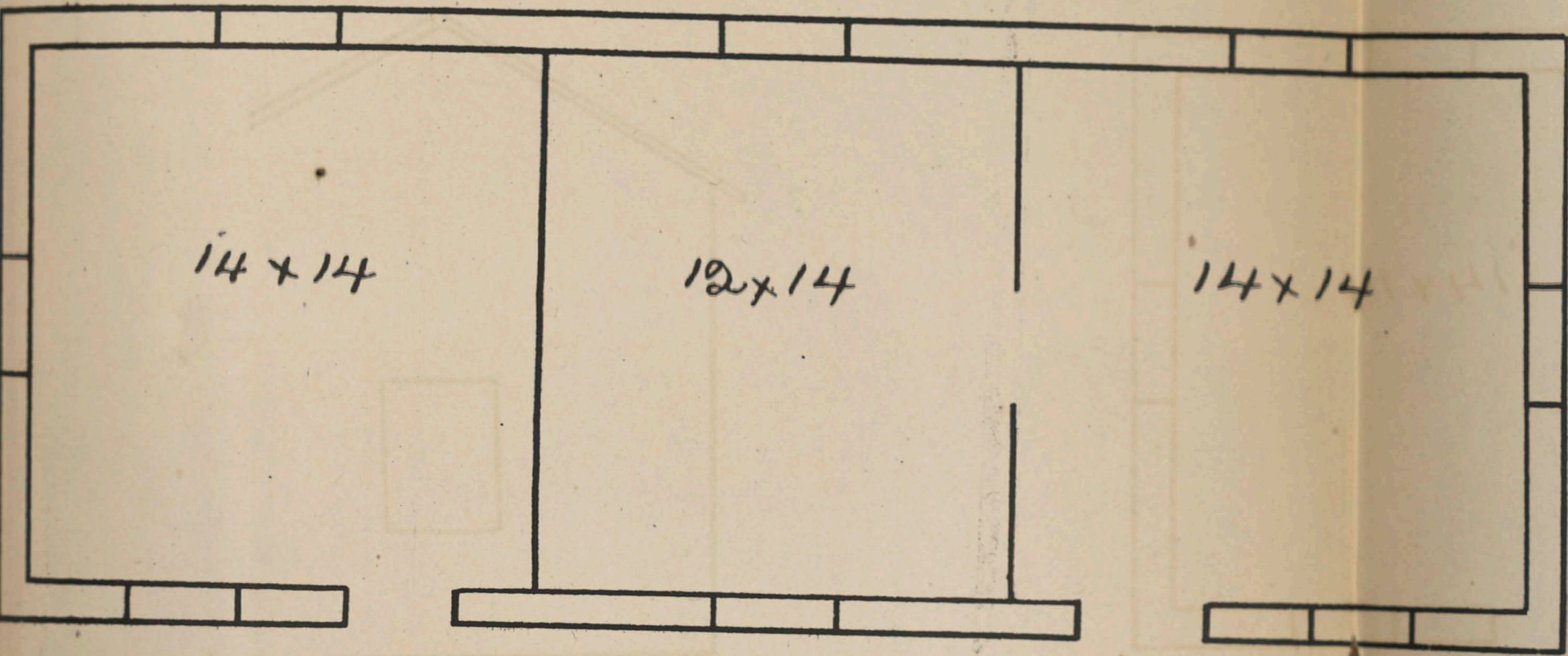
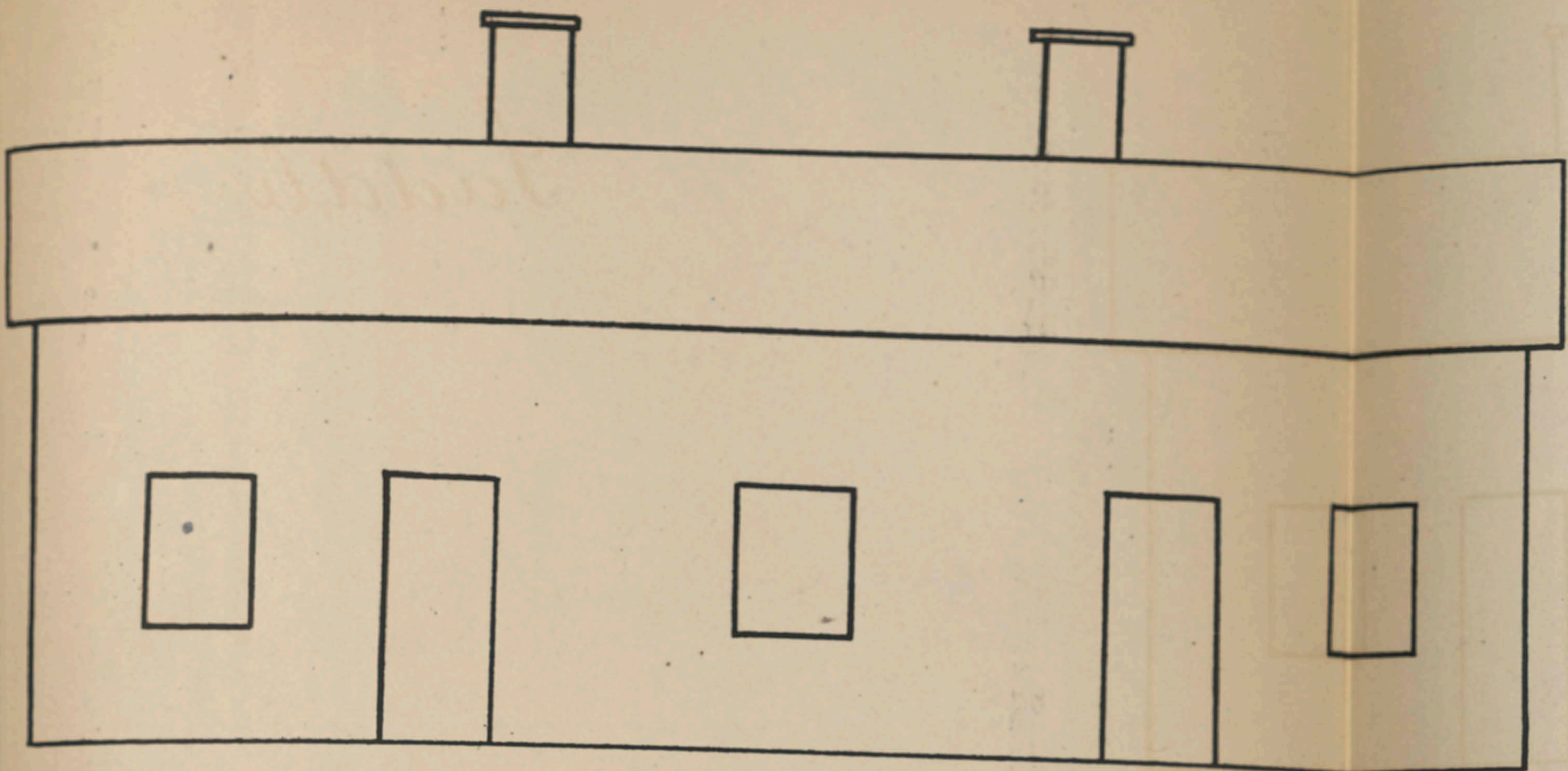


Wheelwright shop





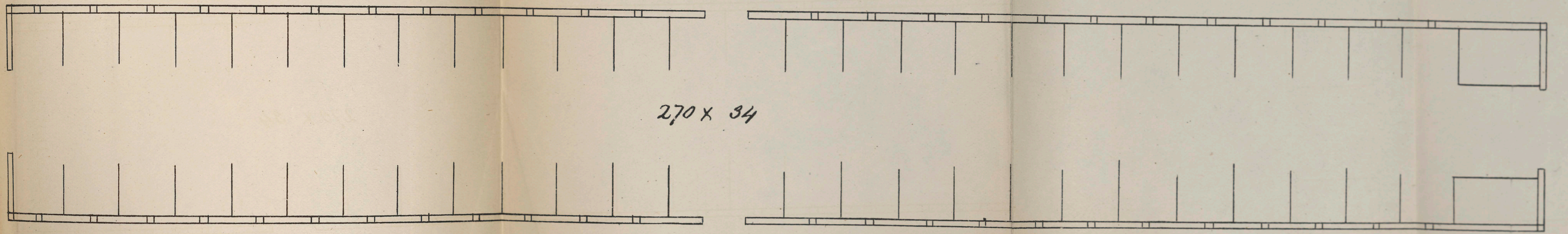
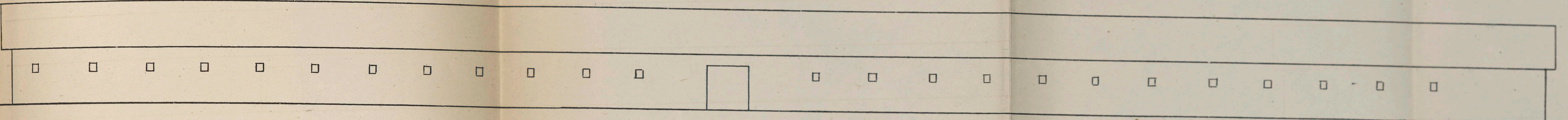
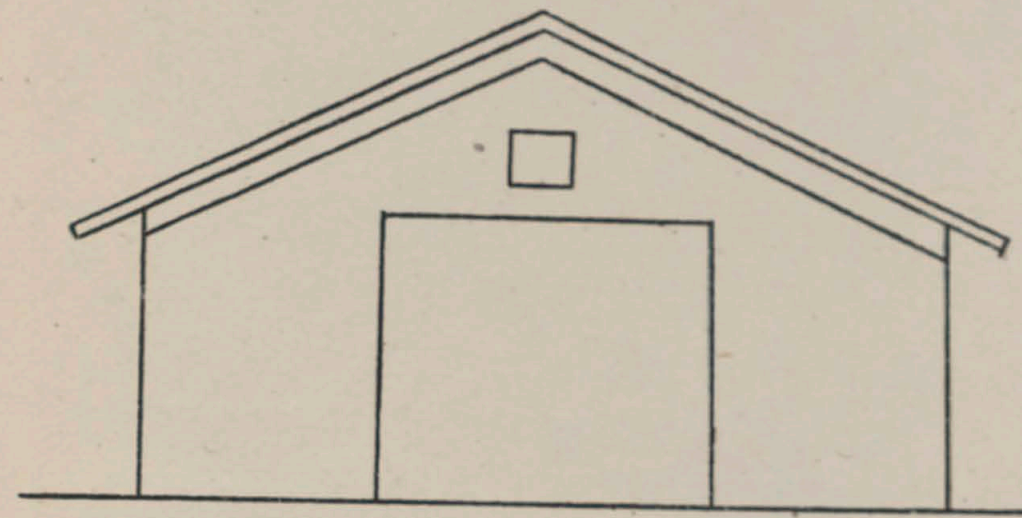
Saddle & Tin Shop





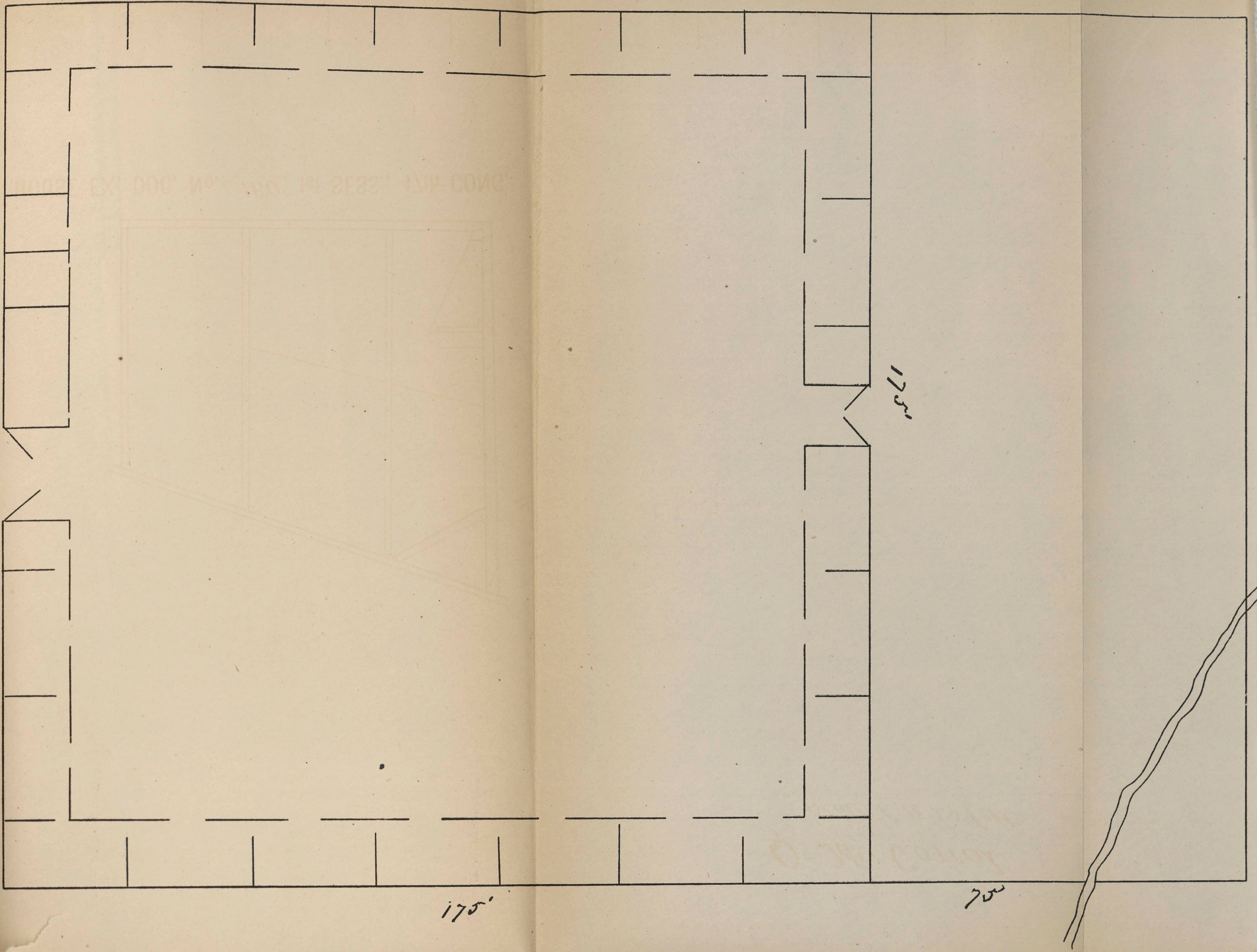
# Cavalry Stables

1' to 20 feet

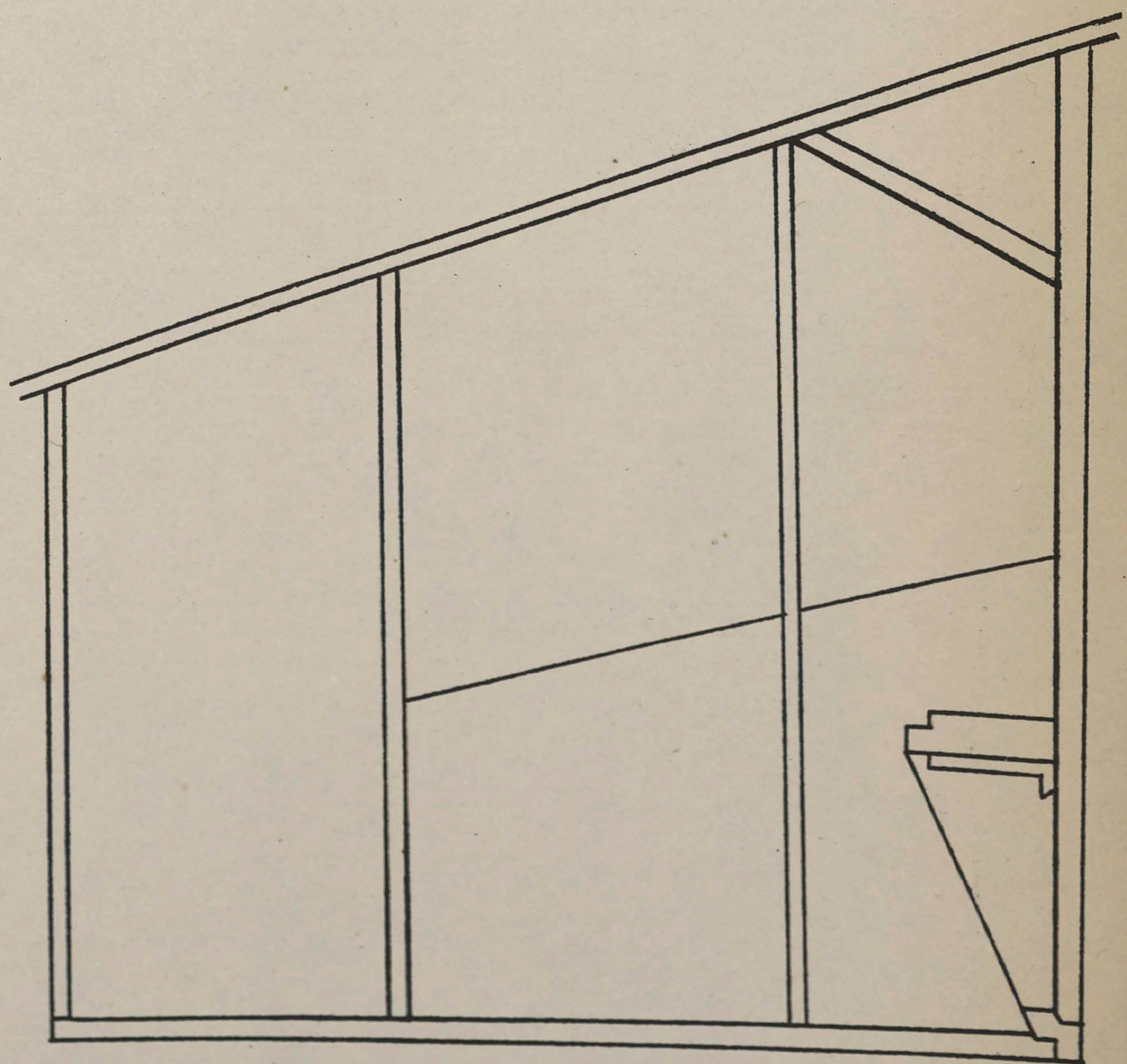


270 x 34





*Qr. M<sup>rs</sup>. Corral*  
*Scale 1" to 25 feet*





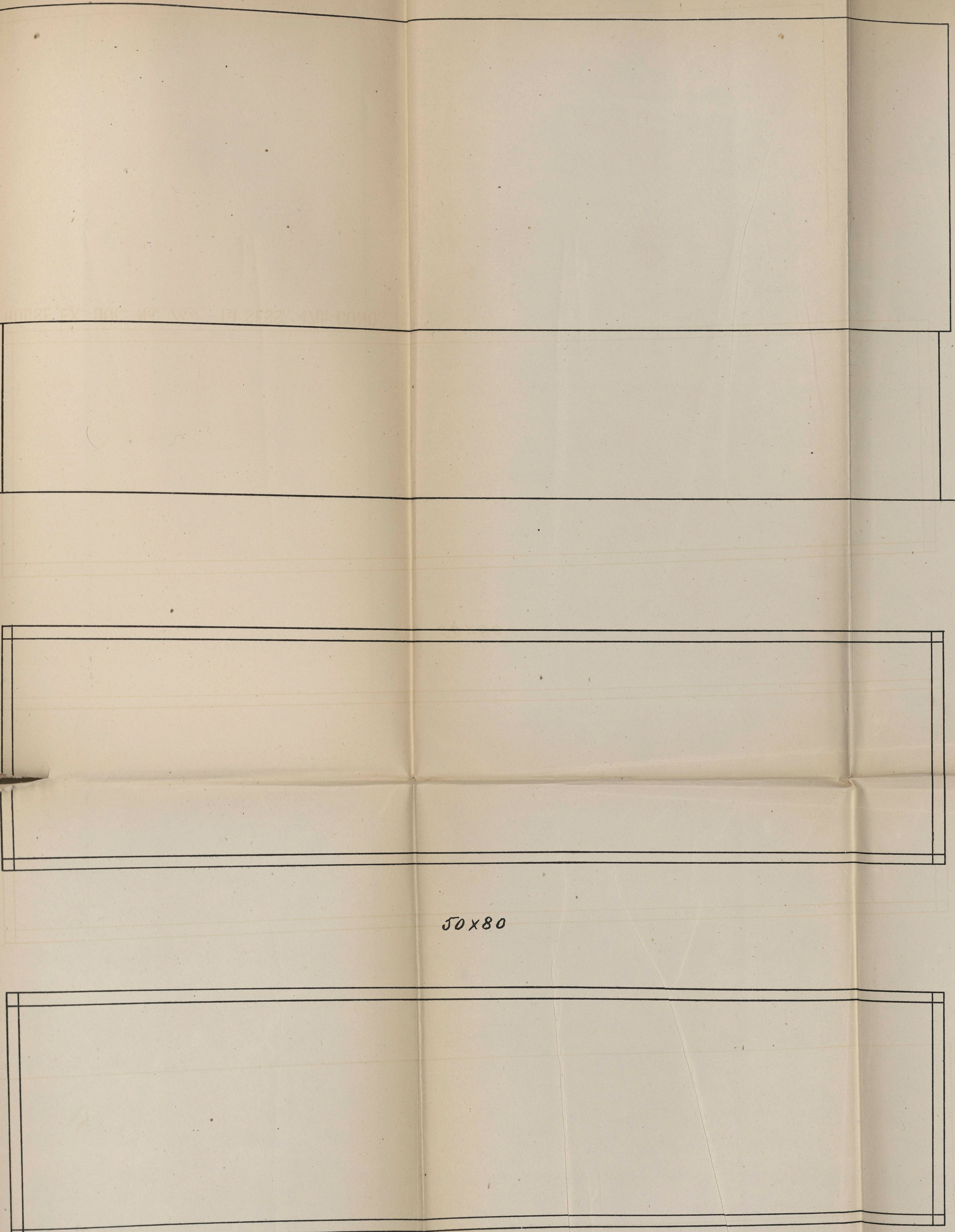
*Grainhouse (Brick)*

*Capacity 20,000 bushels*

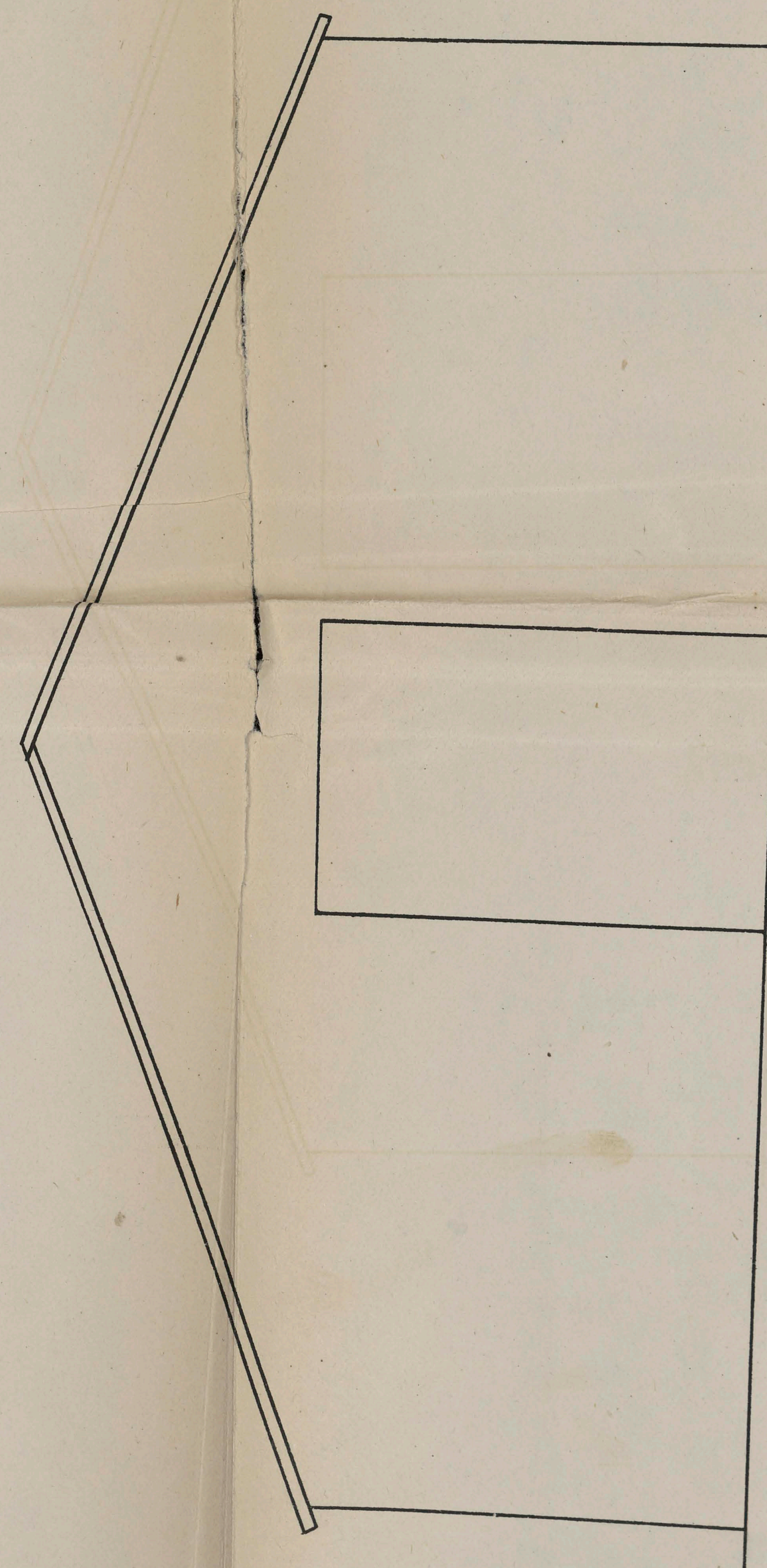
*Scale 1/8" to 1 foot*

*Foundations 4 feet deep, 2 ft wide*

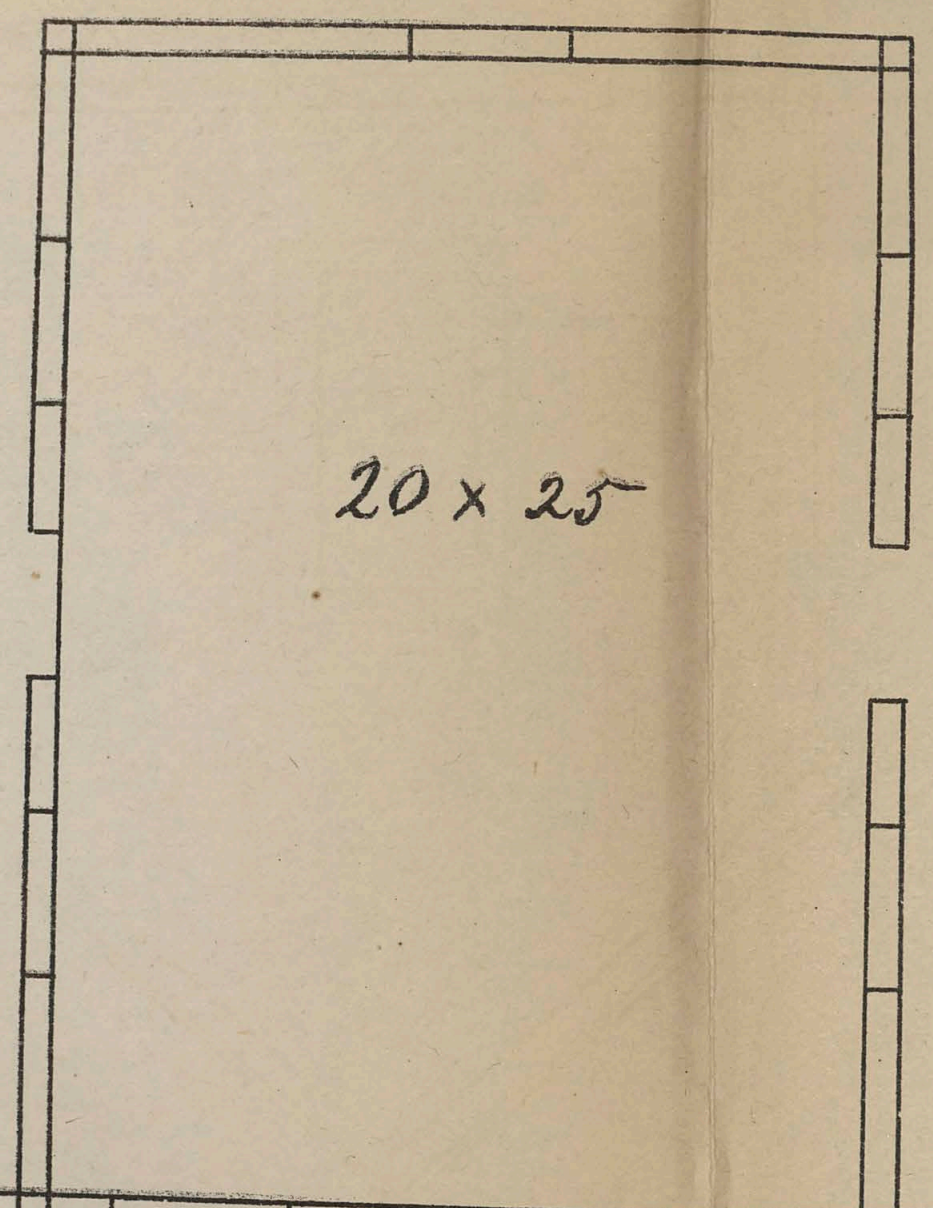
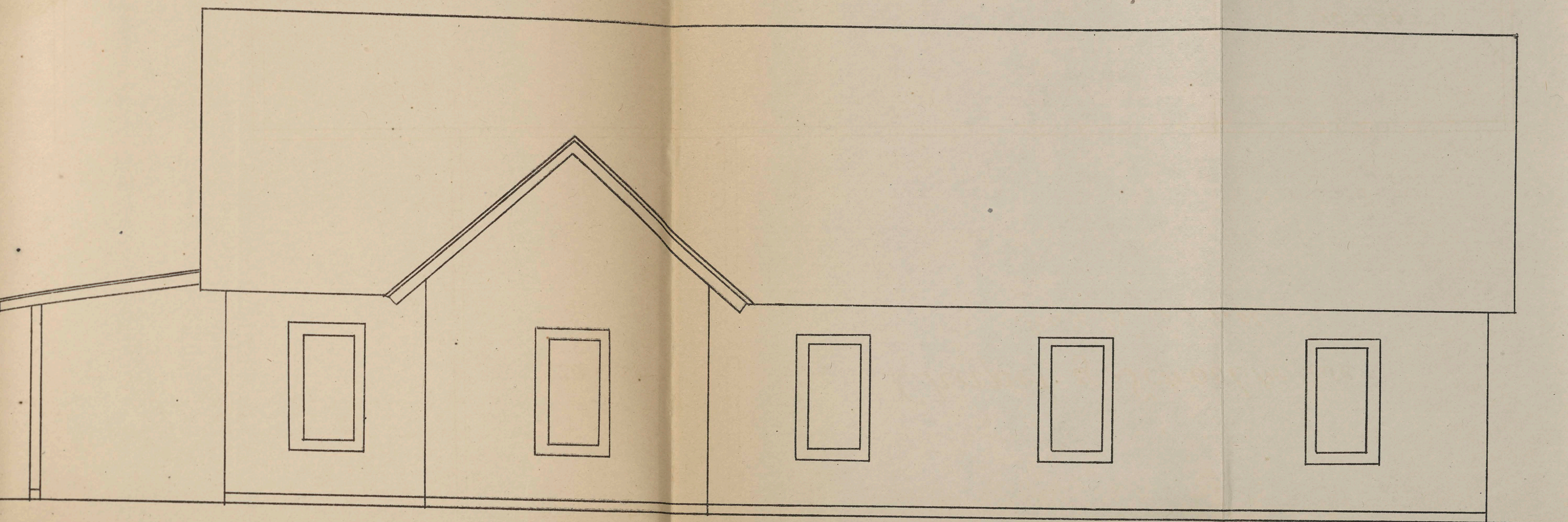
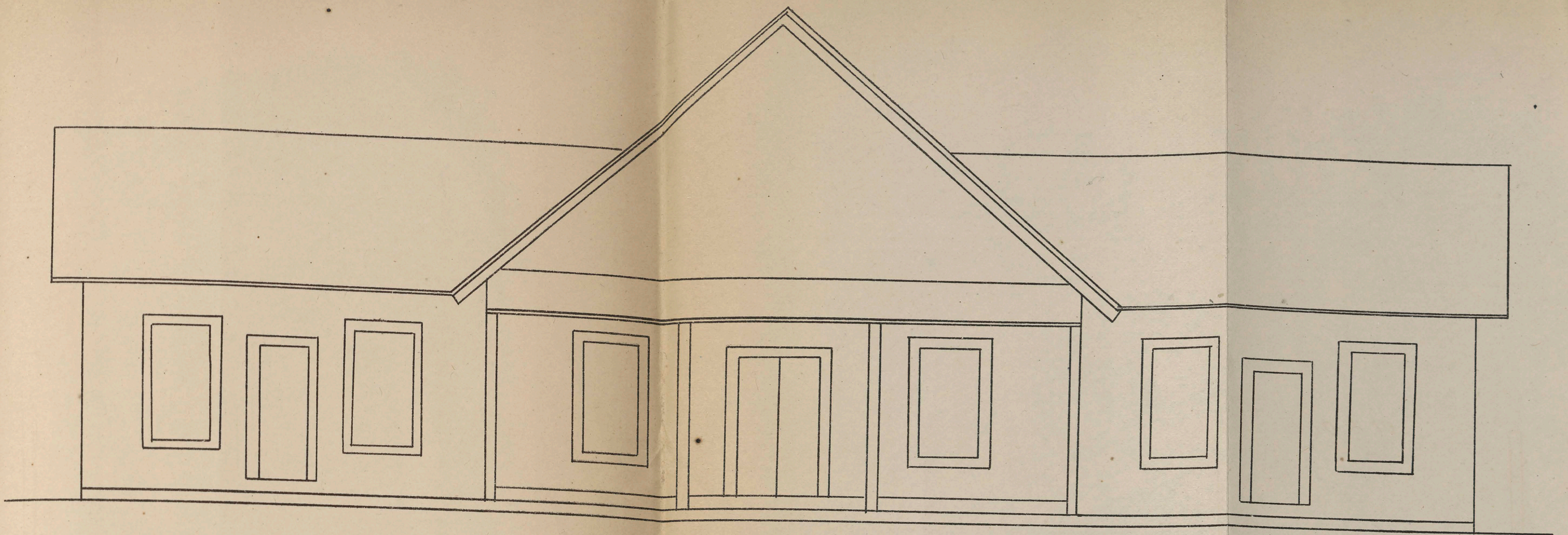
*Brick Walls 12"*



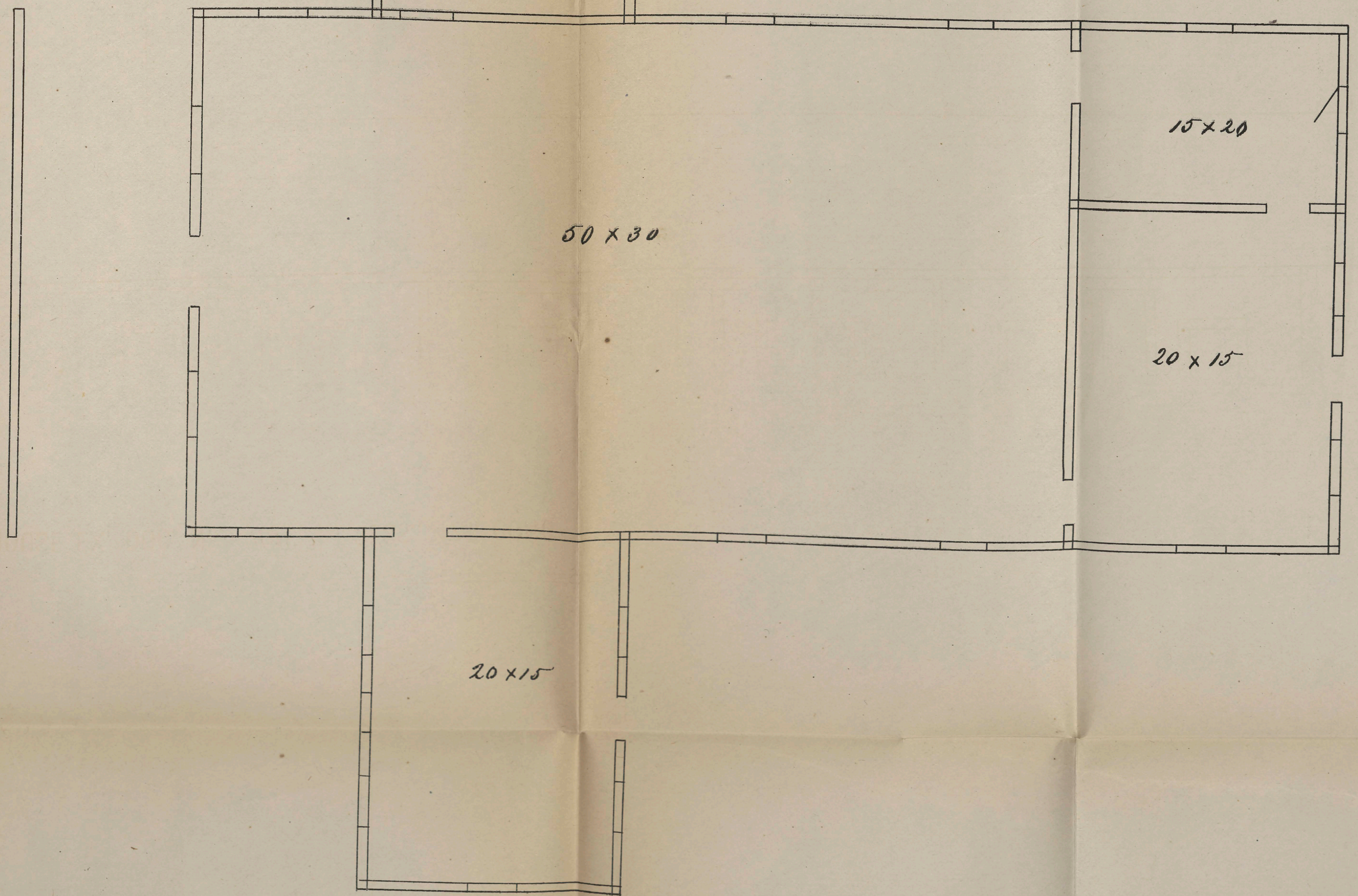
*50x80*



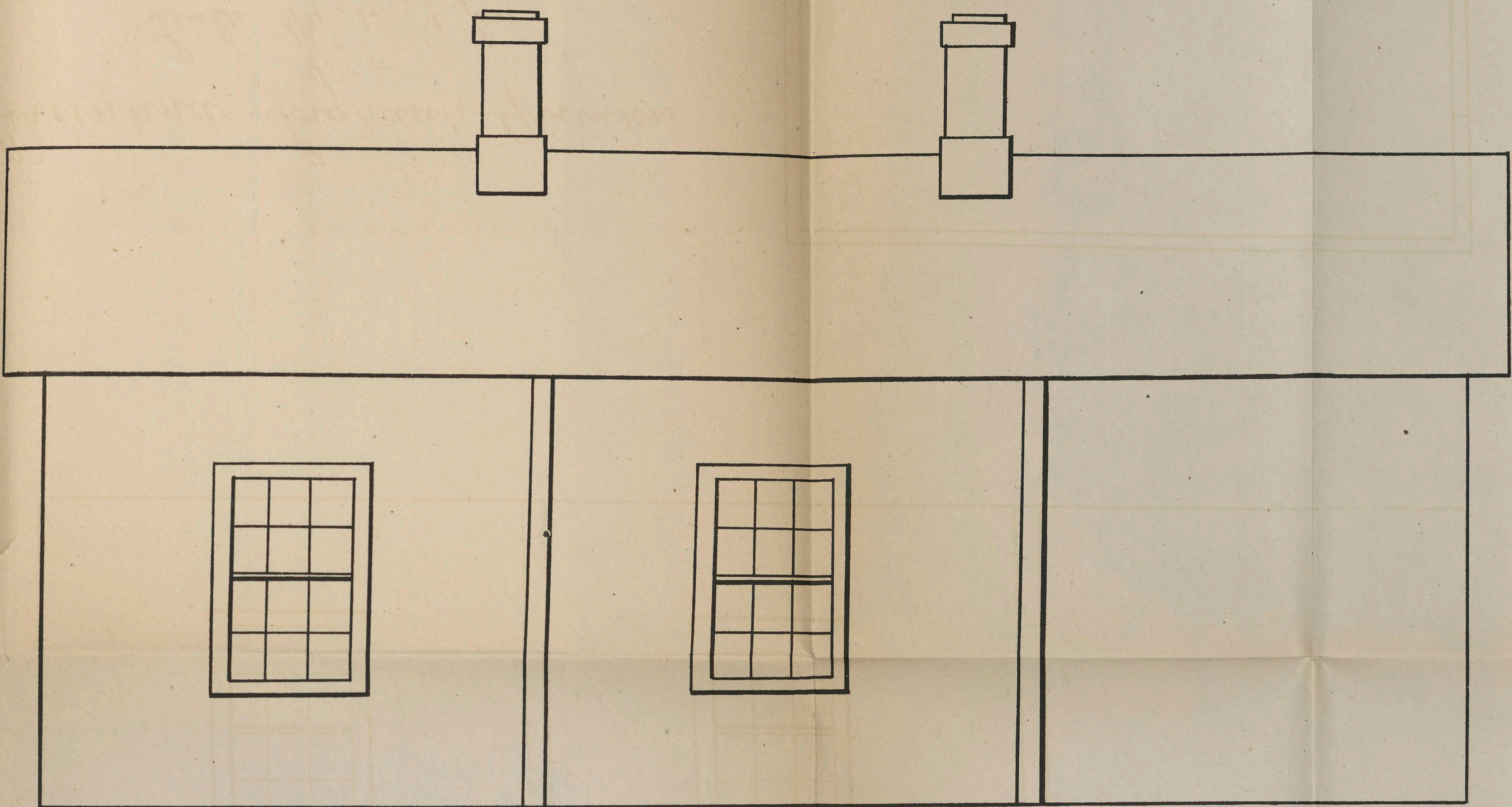
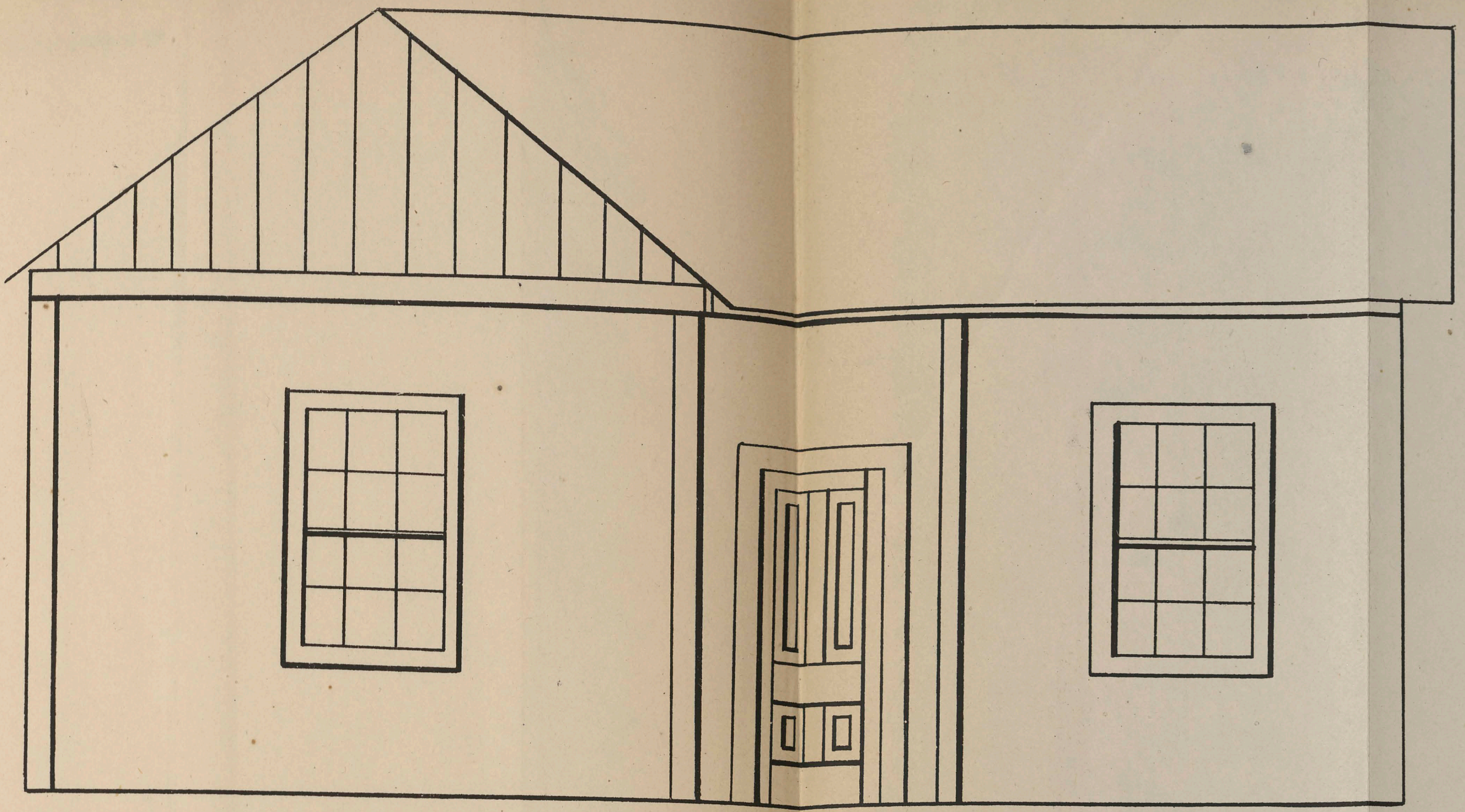




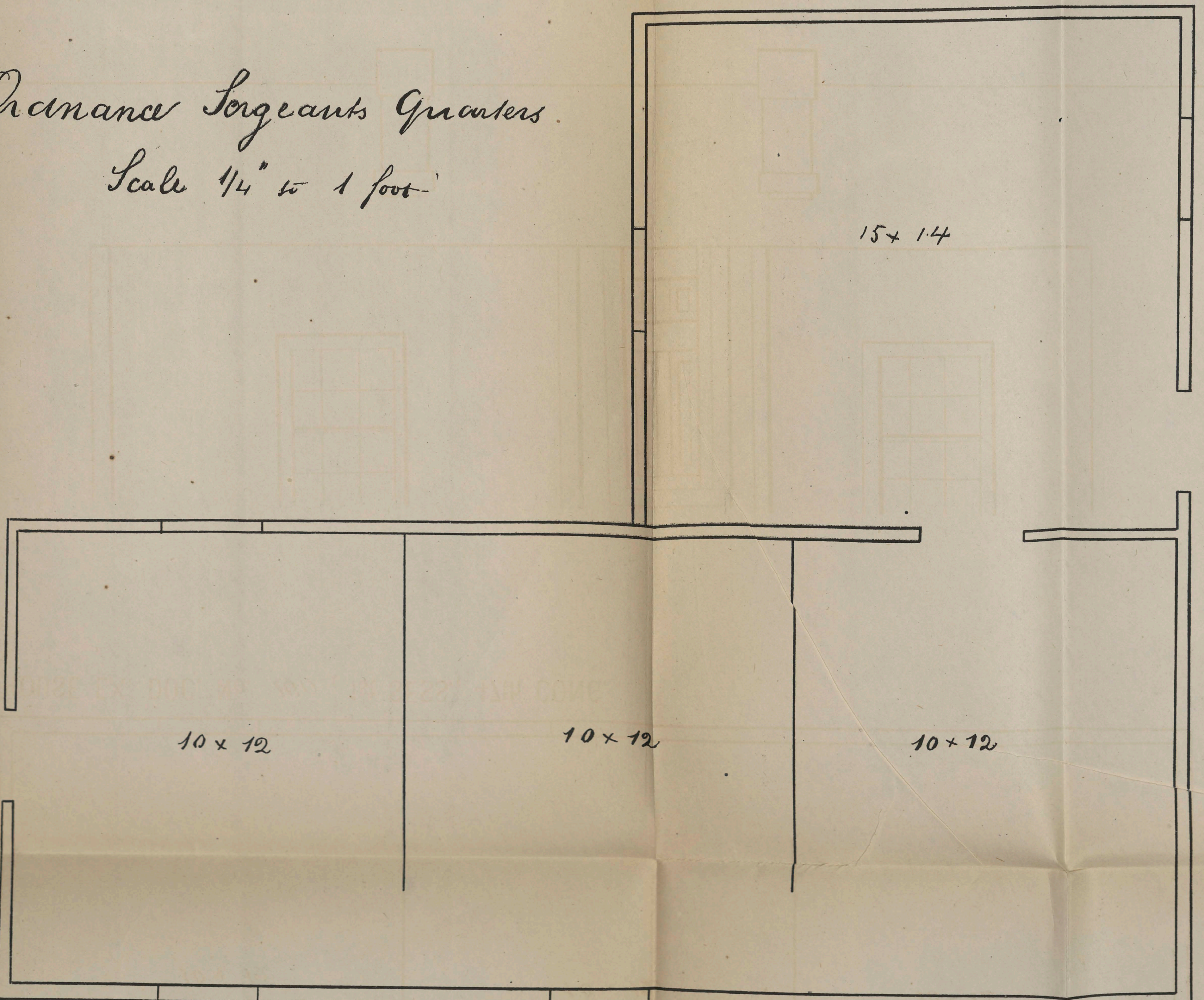
*Chapel & Schoolhouse*  
Scale 1/8" to 1 foot





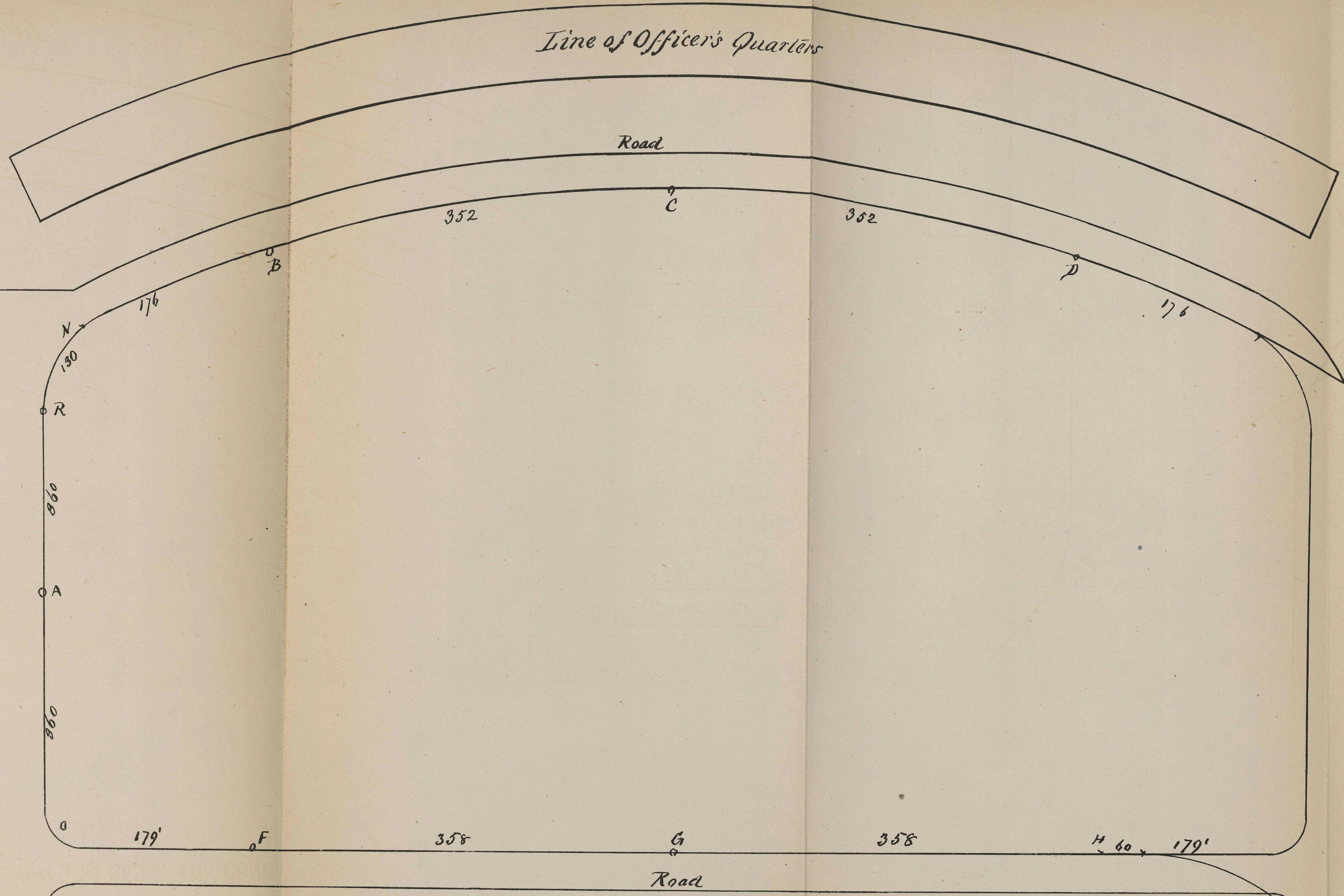


*Oranance Sergeants Quarters*  
*Scale 1/4" = 1 foot*





Waterworks  
Scale 1" to 100 feet  
A & T Hydrants



Storehouse

Storehouse

Storehouse

Men's Q<sup>rs</sup>

Men's Q<sup>rs</sup>

Men's Q<sup>rs</sup>

Men's Q<sup>rs</sup>

Men's Q<sup>rs</sup>

Men's Q<sup>rs</sup>

Men's Q<sup>rs</sup>

Hospital

Cav<sup>y</sup> Stables

Cav<sup>y</sup> Stables

Mill