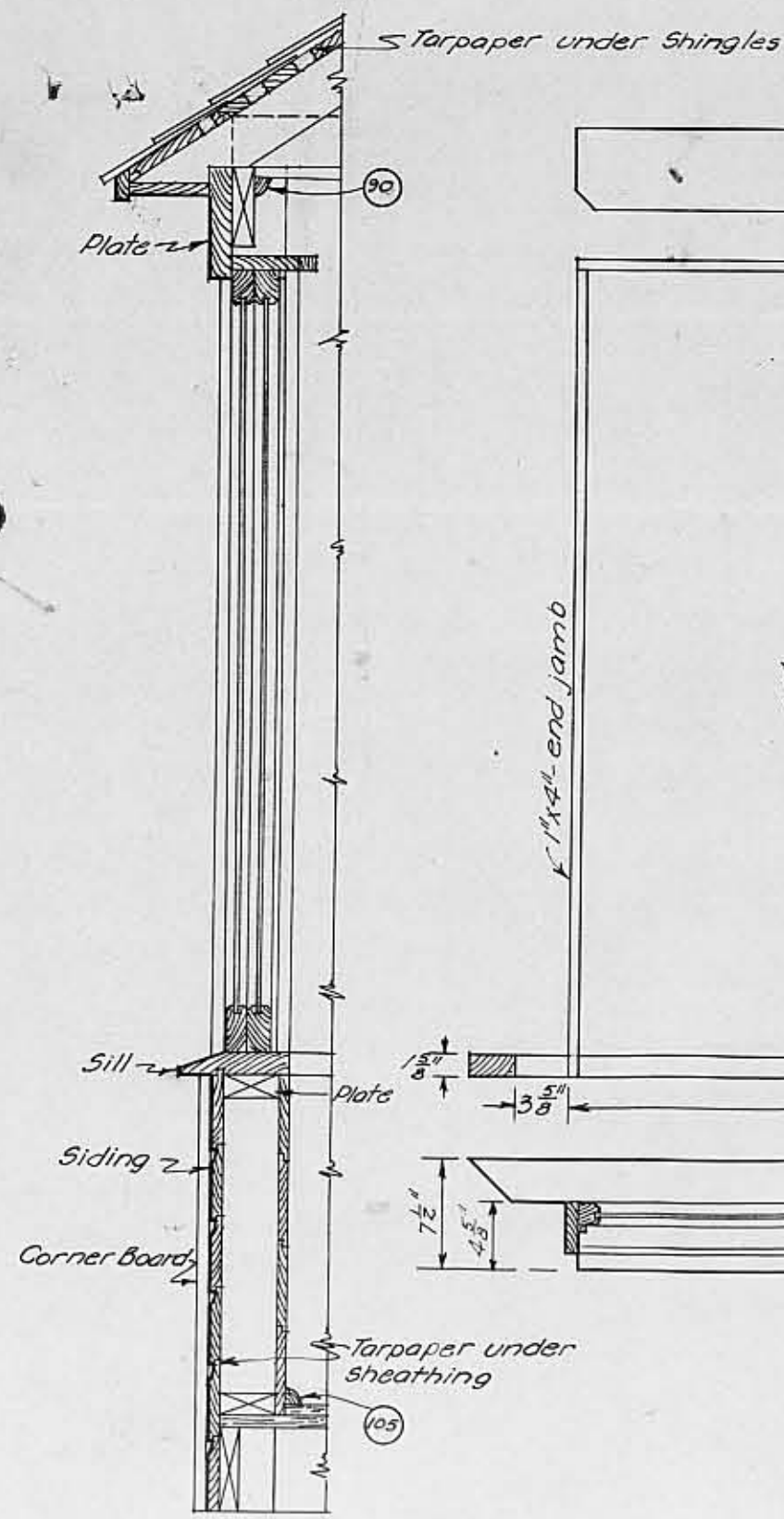


SCALE: 1/2" = 1'-0"

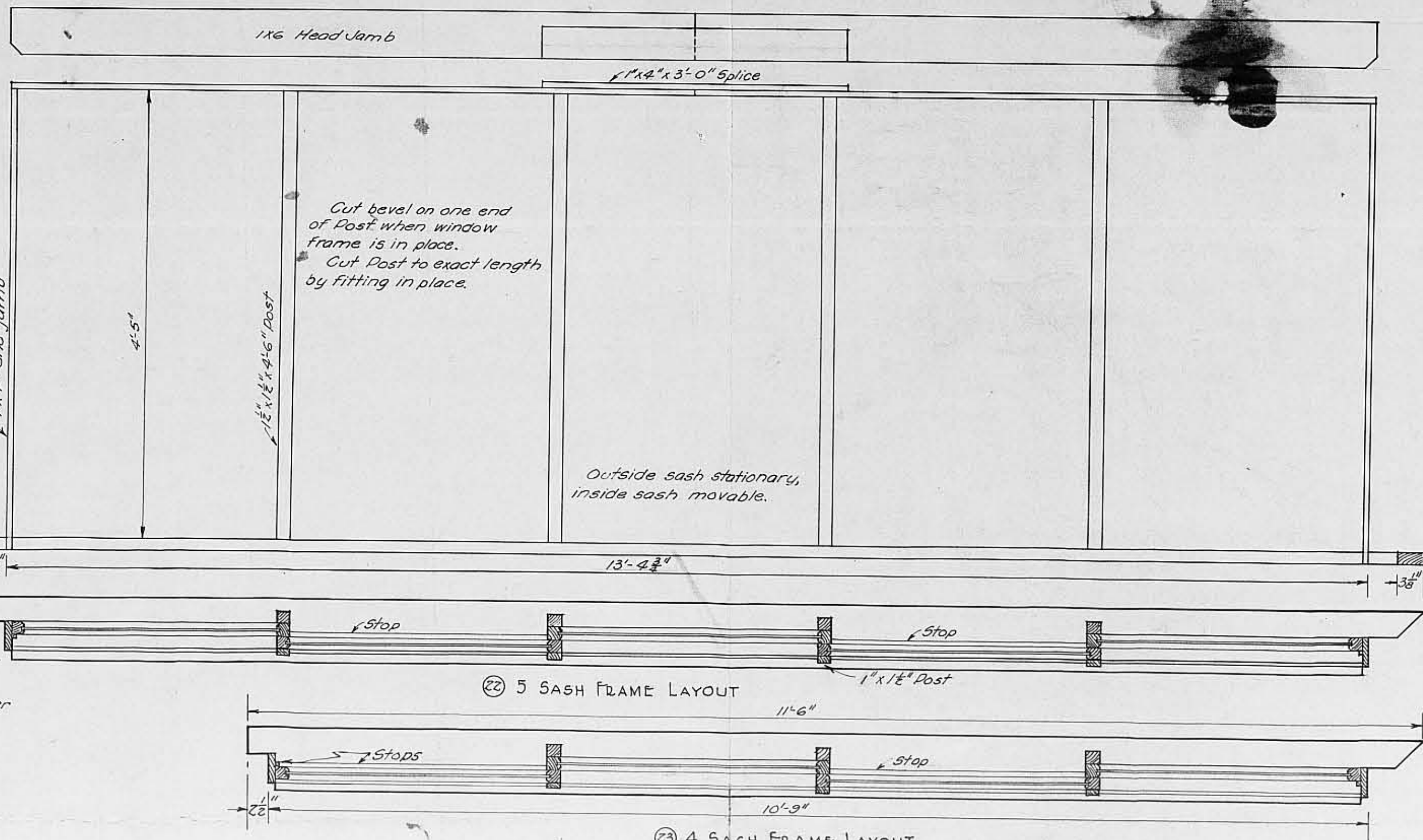
LOOKOUT HOUSE
PLAN L-4

DEC. 1931

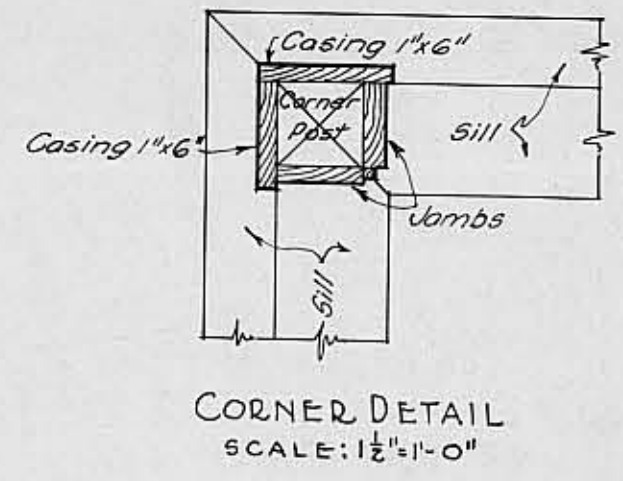
SHEET 2 OF 7



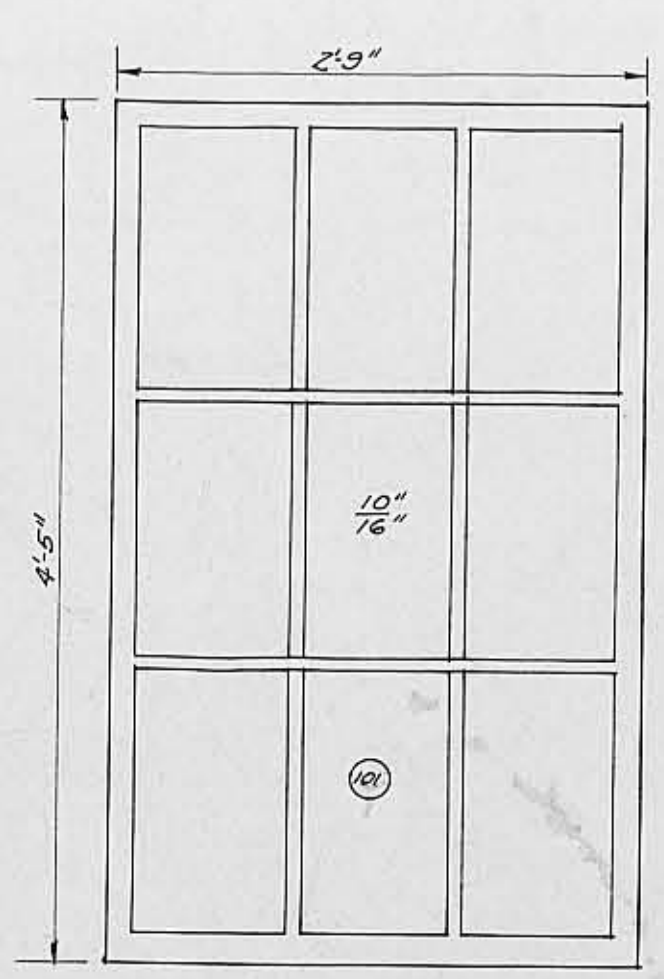
SECTION THRU WALL
SCALE 1 1/2" = 1'-0"



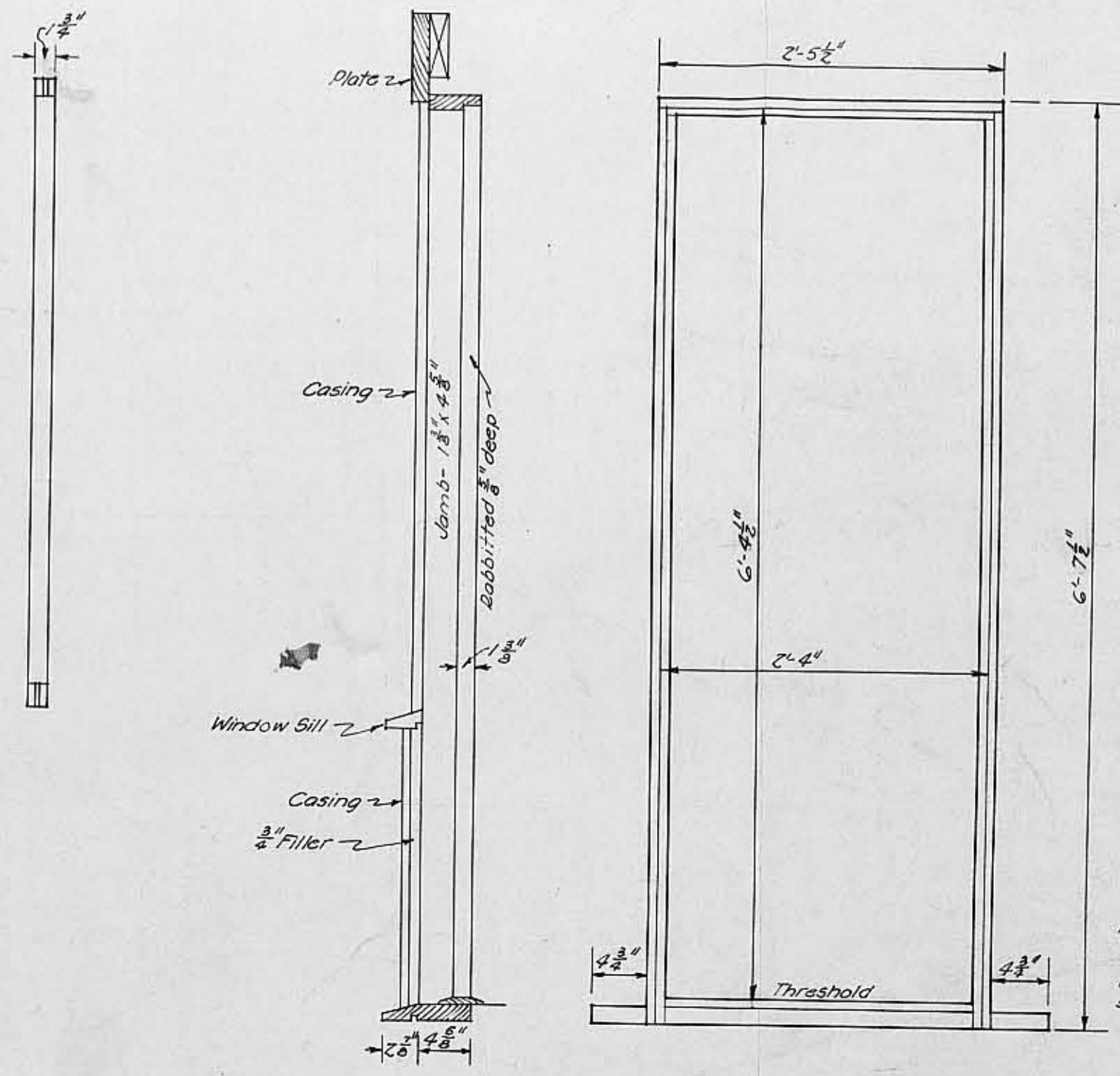
WINDOW FRAMING DETAILS
SCALE 1" = 1'-0"



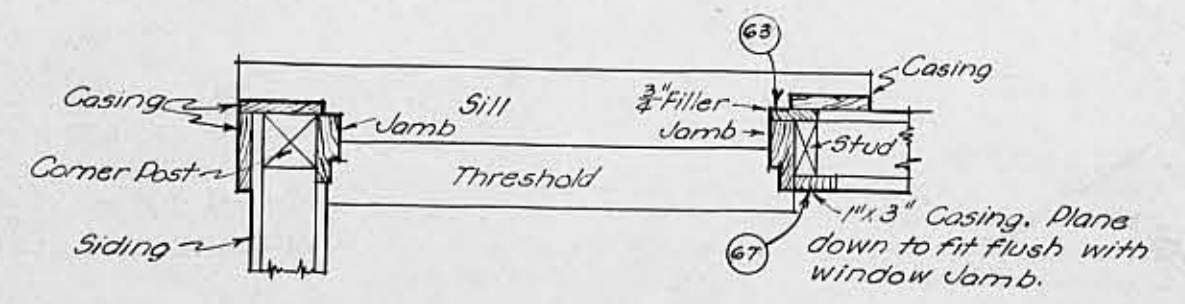
CORNER DETAIL
SCALE: 1 1/2" = 1'-0"



SASH DETAIL
SCALE 1 1/2" = 1'-0"



DOOR FRAME DETAIL

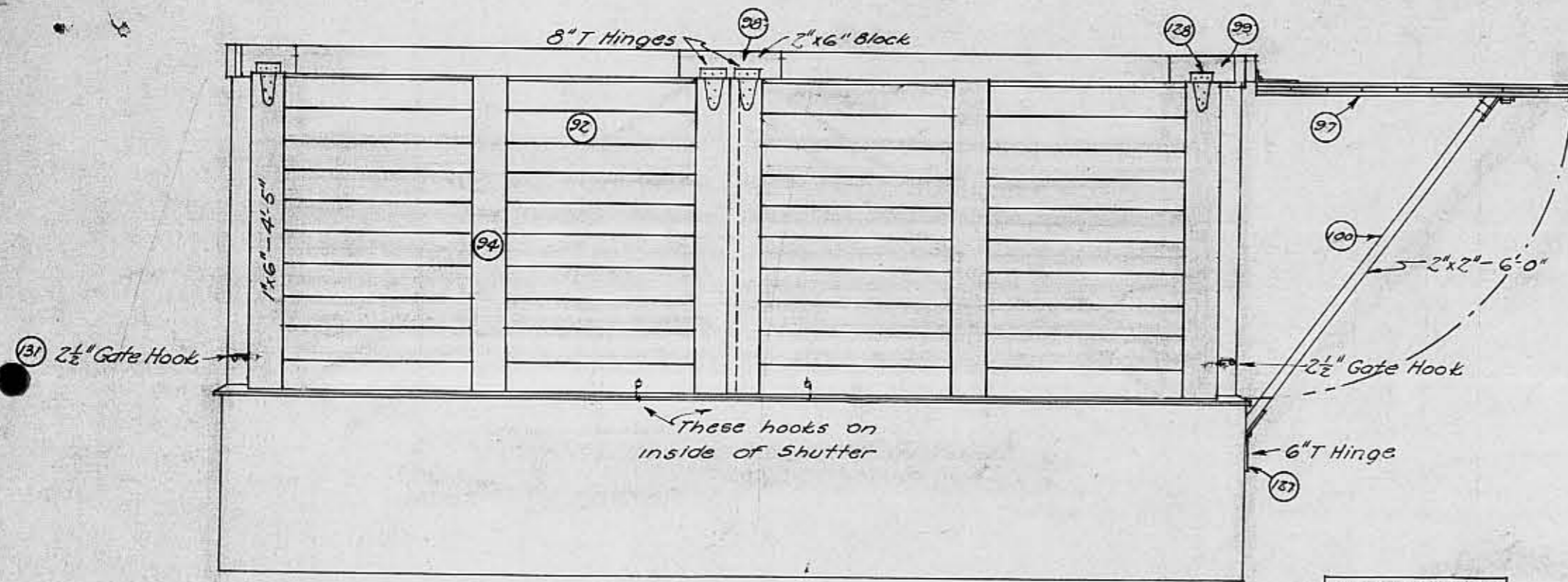


PLAN OF DOOR FRAME
SCALE: 1" = 1'-0"

24

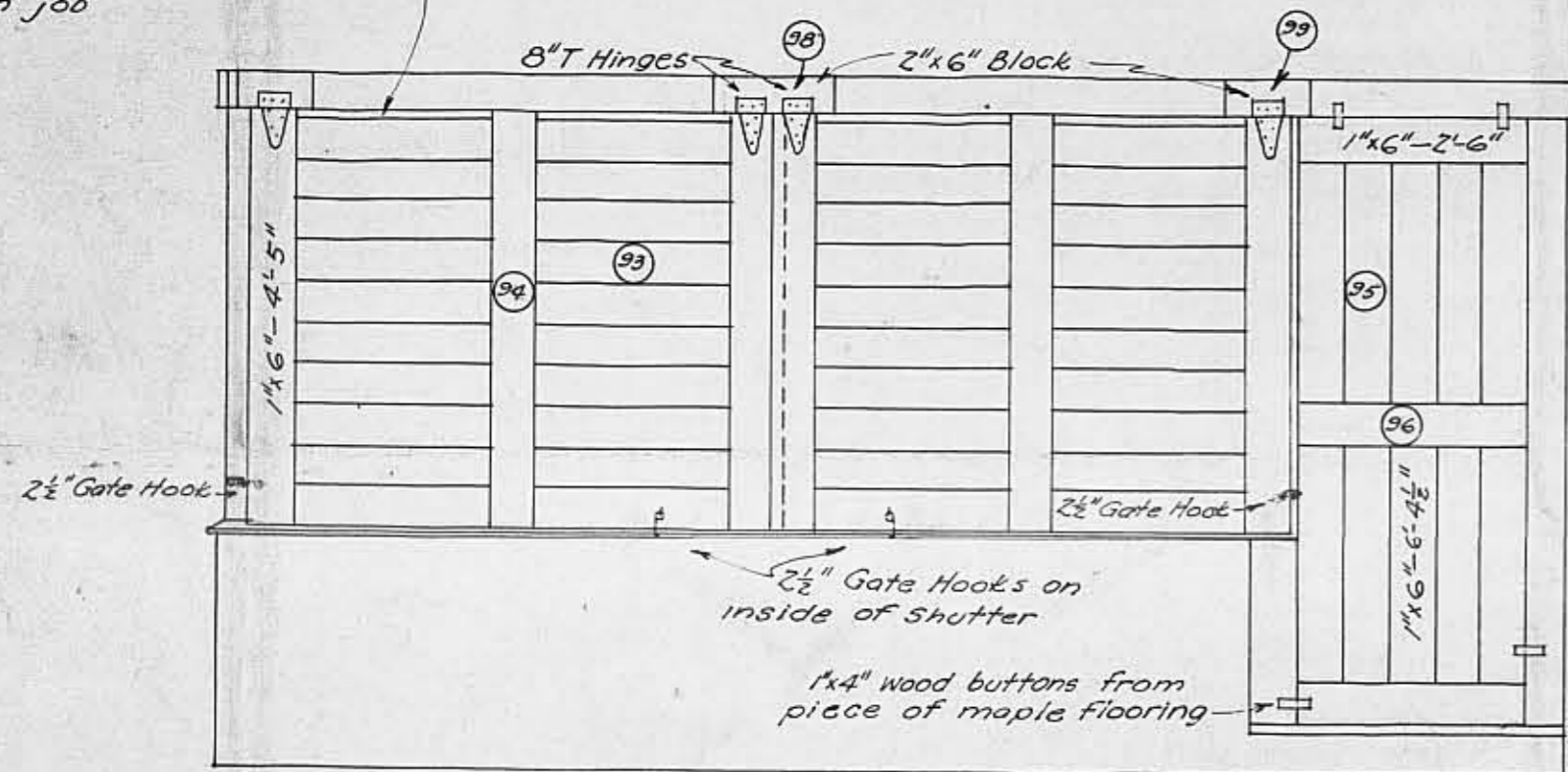
MATERIAL LIST FOR DOOR FRAME					
NO.	DCS.	THICKNESS	WIDTH	LENGTH	DESCRIPTION
1				3'-3"	Door Sill
2		1 1/2"	4 3/8"	6'-7 1/2"	Side Jamb
1		1 1/2"	4 3/8"	2'-5 1/2"	Head "
1				2'-6"	Threshold

NOTE:
Top of door sill set 3/4" above subfloor level so that second floor will be level.

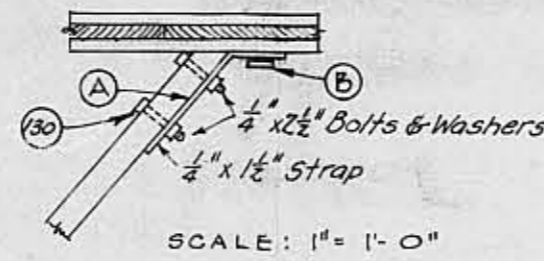


WINDOW SHUTTER DETAIL
TYPICAL FOR BACK AND
SIDES
SCALE: $\frac{1}{2}'' = 1'-0''$

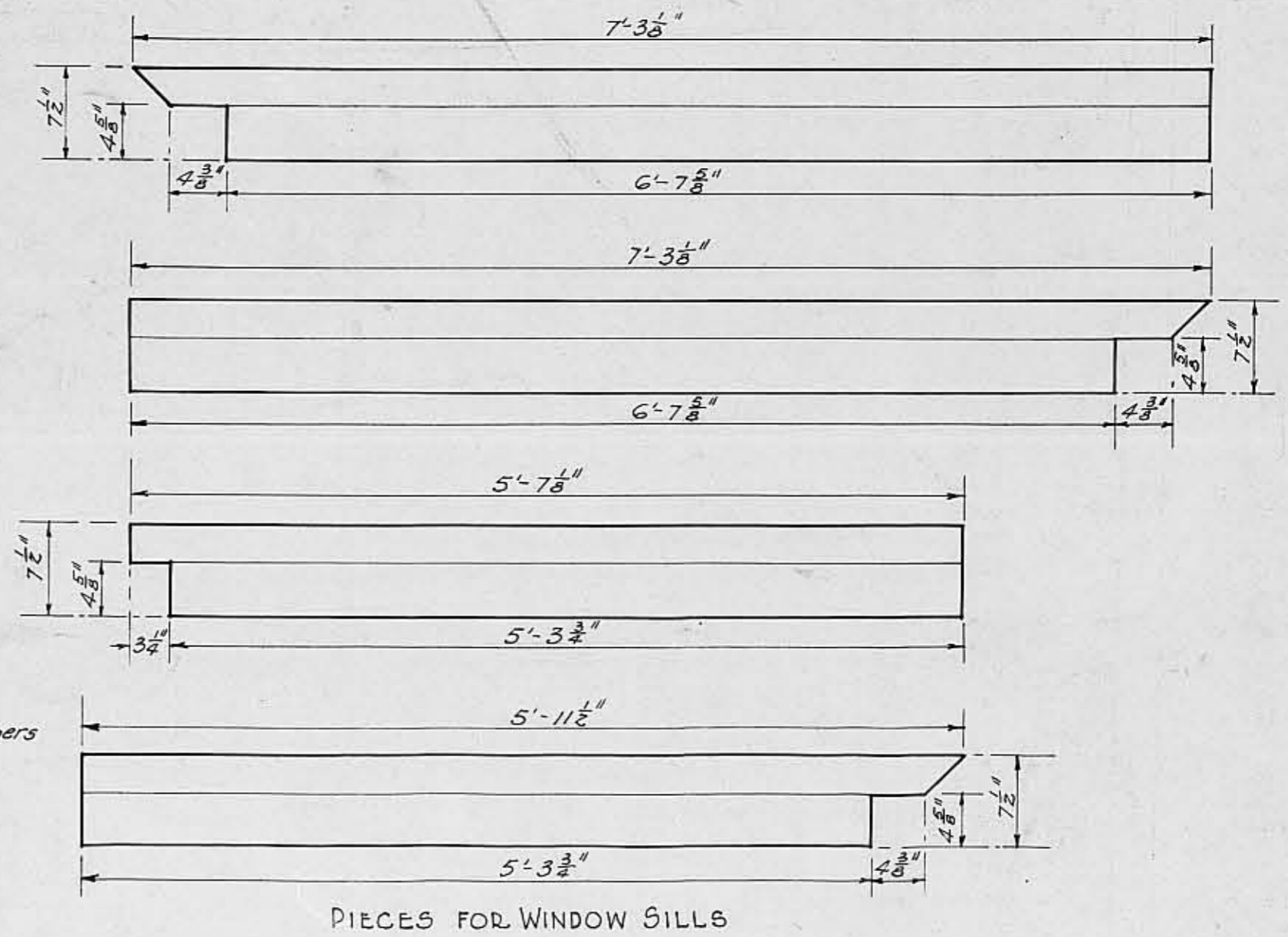
Strip $\frac{3}{4}''$ to $1''$ wide at top
of Shutter to be ripped
on job



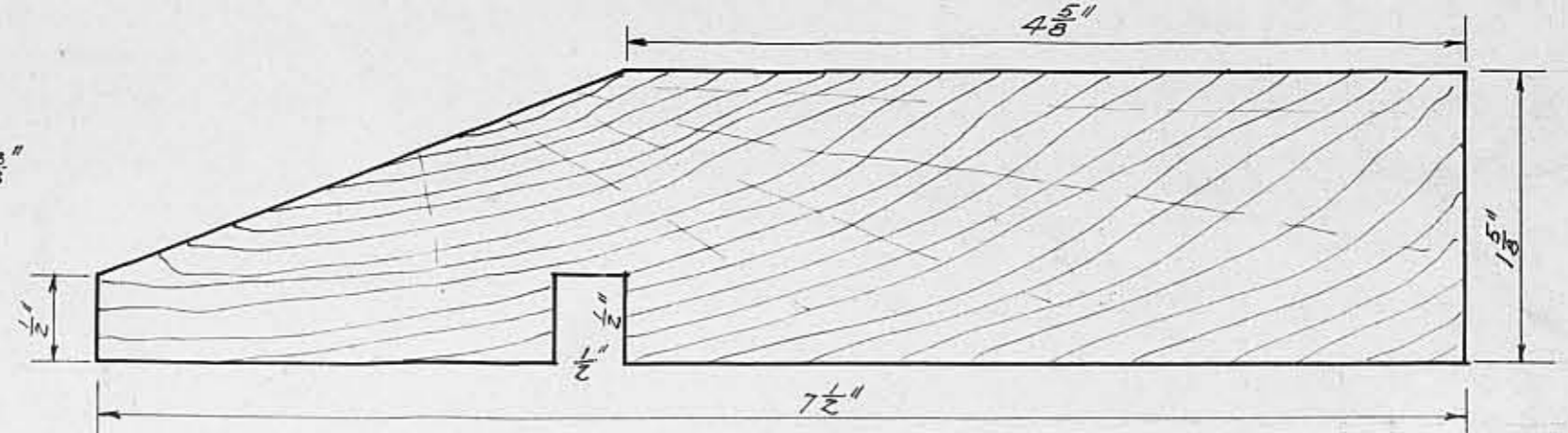
WINDOW SHUTTER DETAIL
FRONT
SCALE: $\frac{1}{2}'' = 1'-0''$



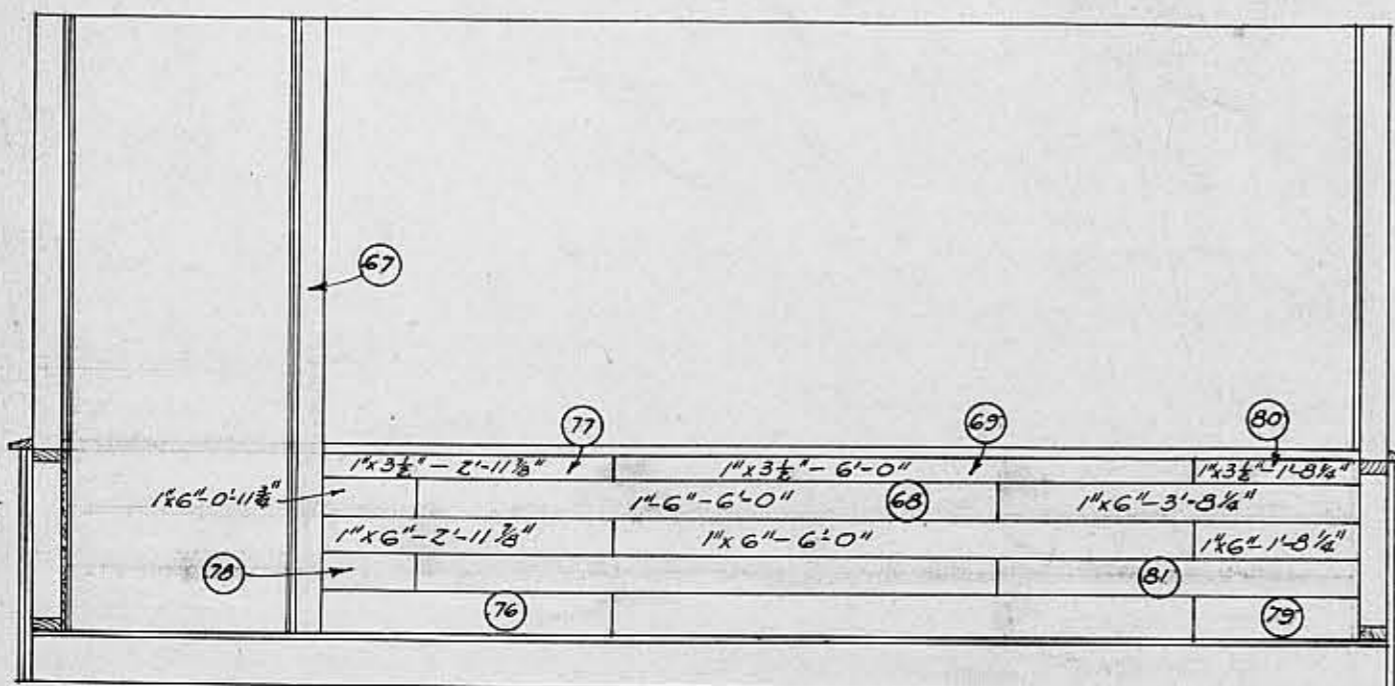
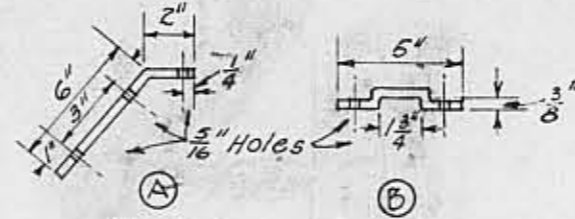
DETAIL OF IRON STRAPS
FOR SHUTTER BRACE
SCALE: $\frac{1}{2}'' = 1'-0''$



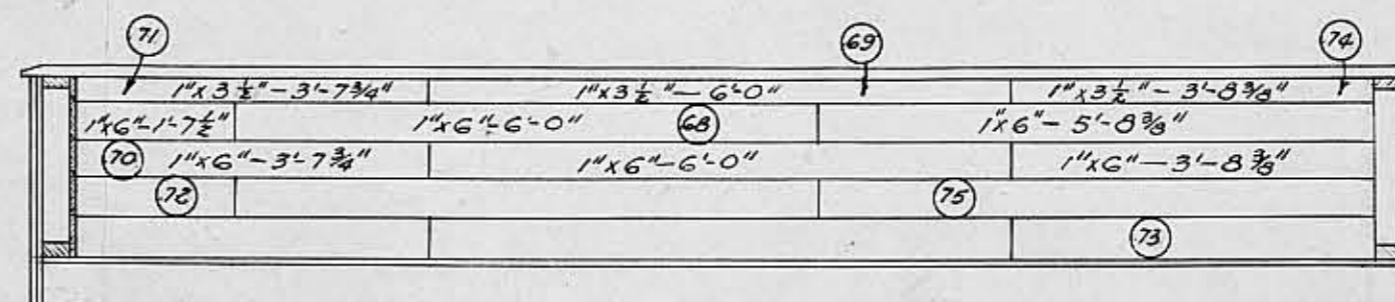
PIECES FOR WINDOW SILLS



CROSS SECTION WINDOW SILL
FULL SIZE



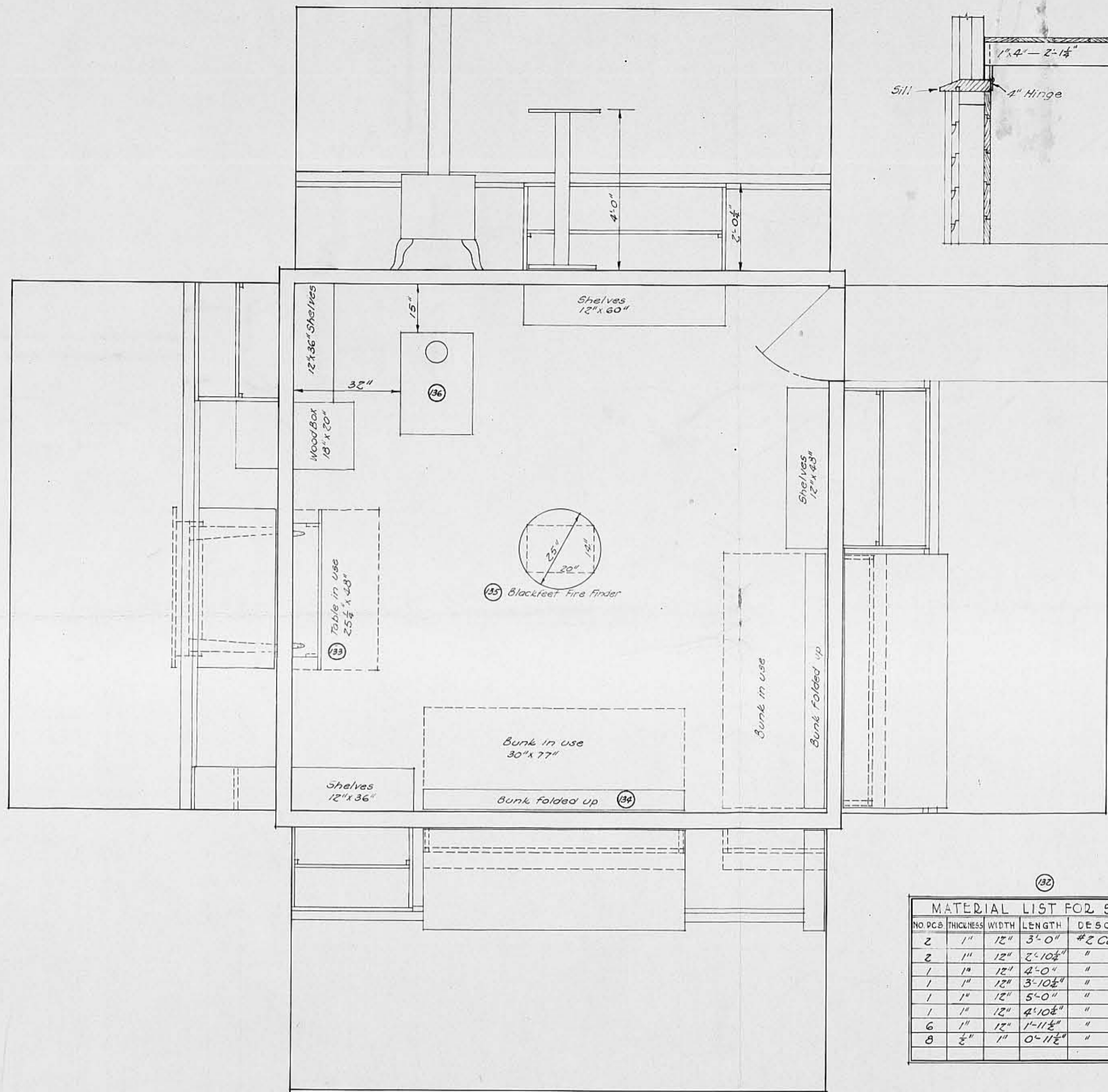
FRONT
Put front wall on first



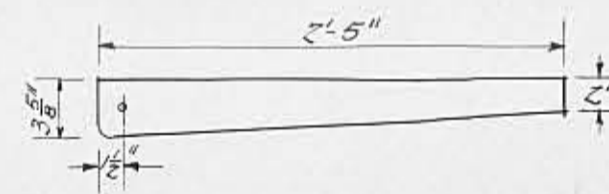
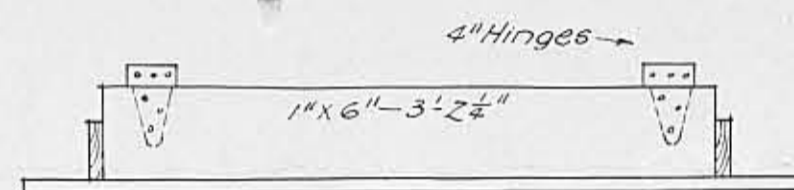
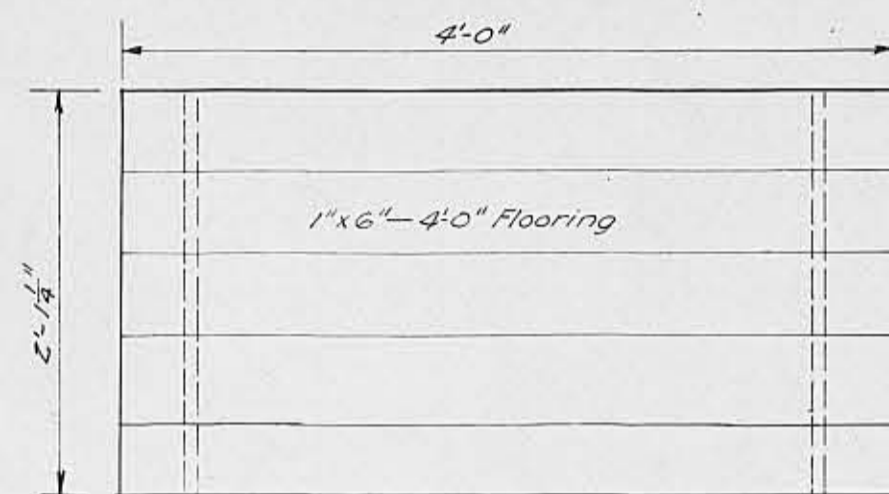
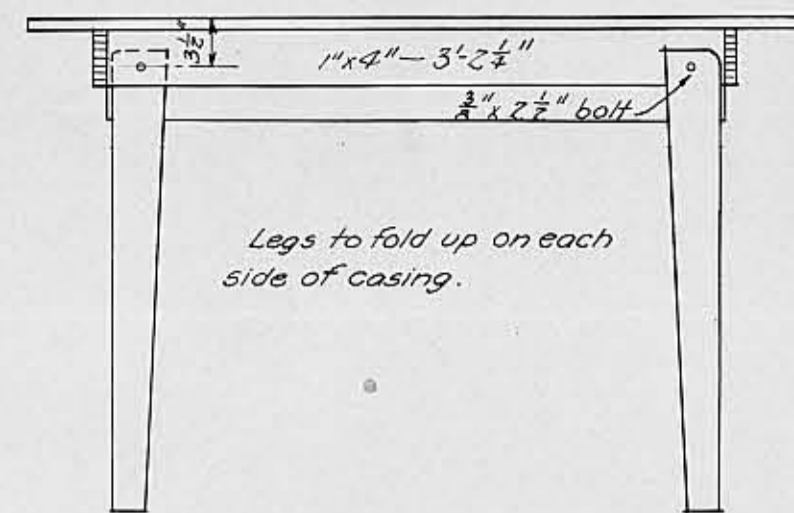
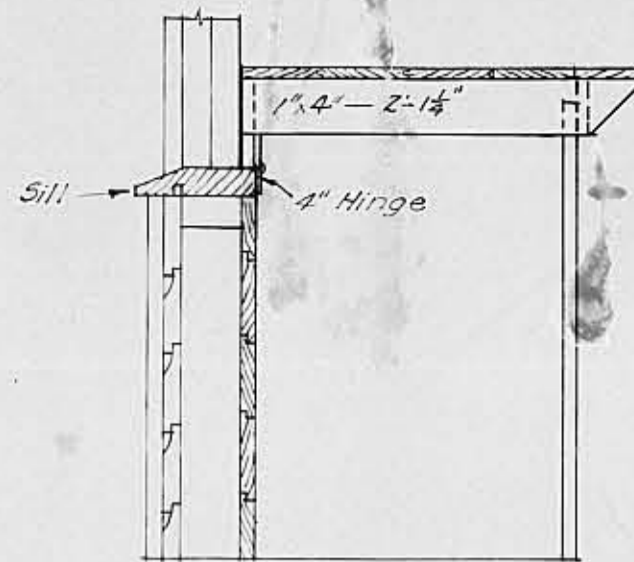
TYPICAL SIDES & BACK
Then first adjacent side wall on etc., etc.

CROSS SECTIONS SHOWING SHEATHING
SCALE: $\frac{1}{2}'' = 1'-0''$

MATERIAL LIST FOR WINDOW FRAMES					
NO. PCS.	THICKNESS	WIDTH	LENGTH	DESCRIPTION	
3	1 1/2"	7 1/2"	7'-3 1/2"	Left Hand Sill	
3	"	"	"	Right " "	
1	"	"	5'-7 1/8"	Left " "	
1	"	"	5'-11 1/2"	Right " "	
8	1"	4"	4'-6 3/8"	End Jamb	
6	1"	6"	6'-8 3/8"	Head "	
2	1"	6"	5'-4 1/2"	" "	
4	1"	4"	3'-0"	" Splice	
15	1 1/2"	1 1/2"	4'-6"	Posts (cut to fit on job).	
15	1"	1 1/2"	4'-5"	" (" " " " " ")	
18	"	"	2'-8"	Stops	
9	"	"	4'-5"	"	
36	"	"	2'-6"	"	



LAYOUT OF EQUIPMENT
SCALE: 1" = 2'-0"

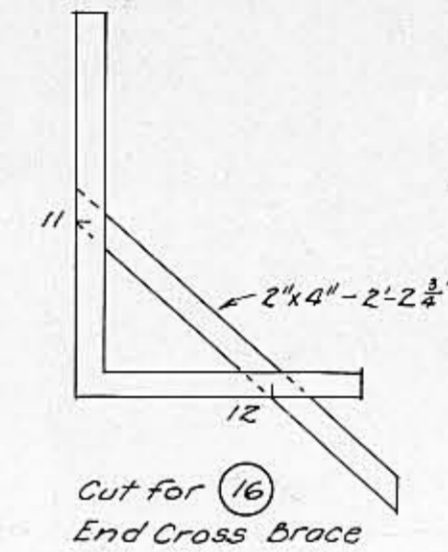
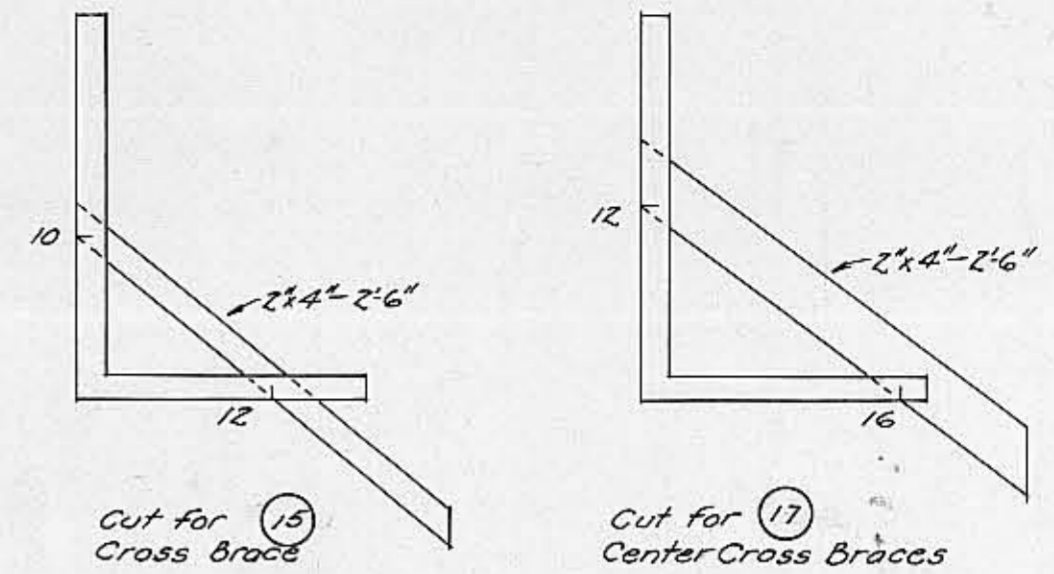
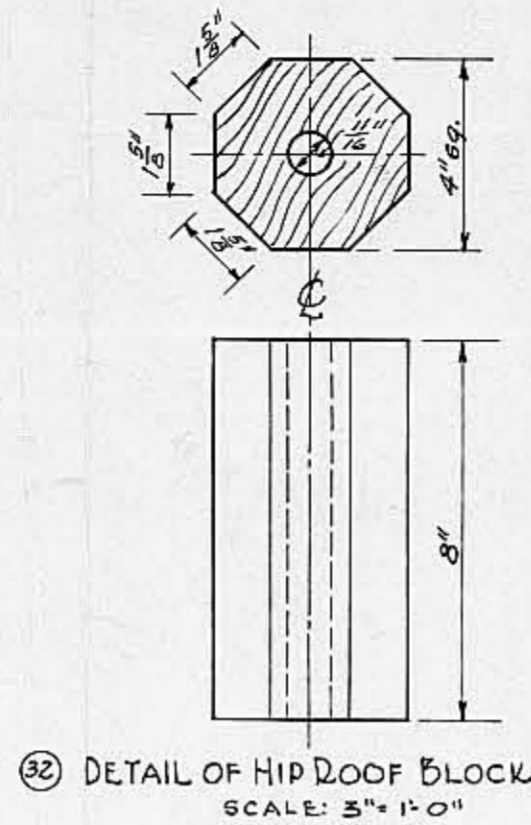
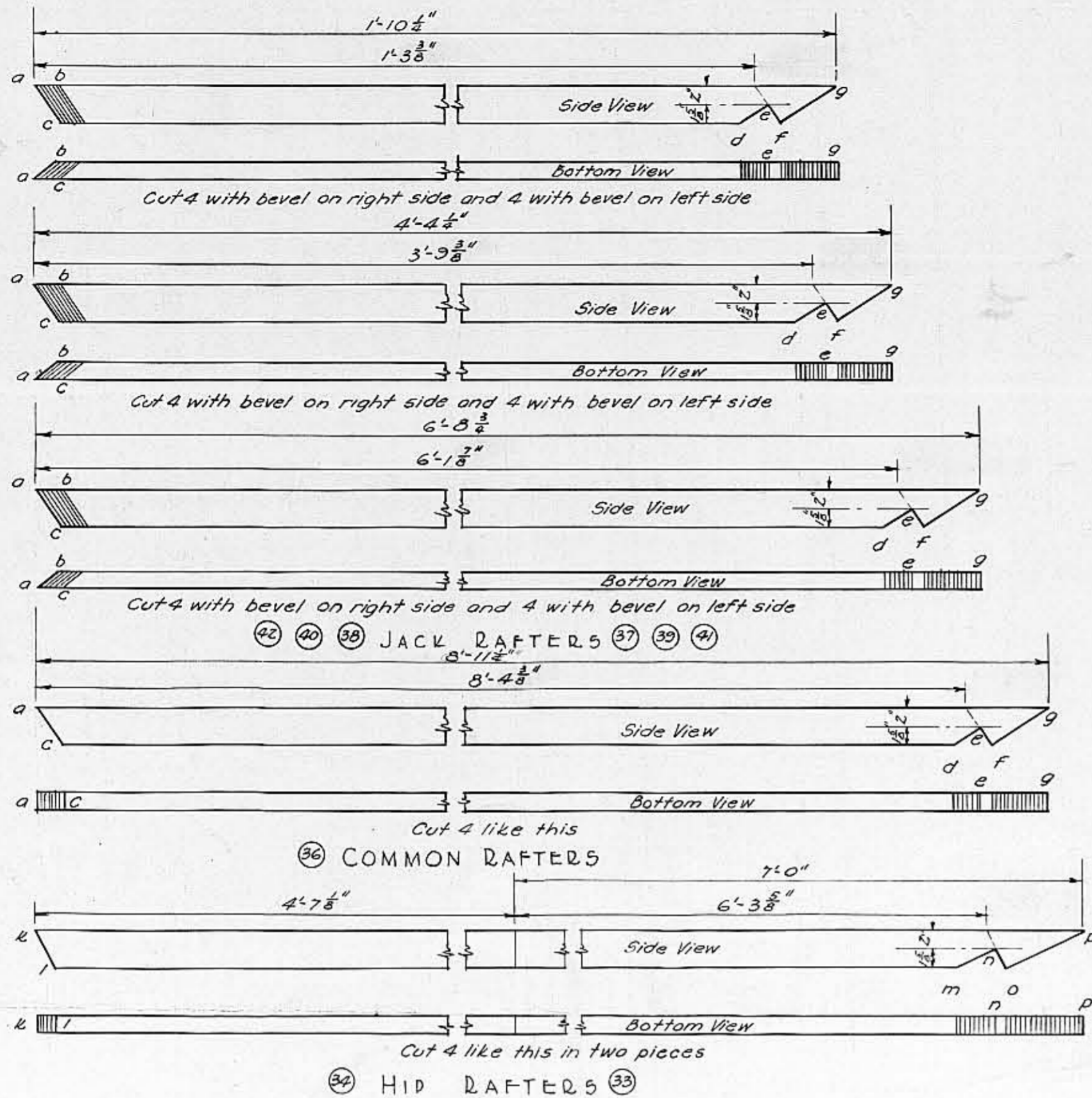


LOOKOUT TABLE
SCALE: 1" = 1'-0"

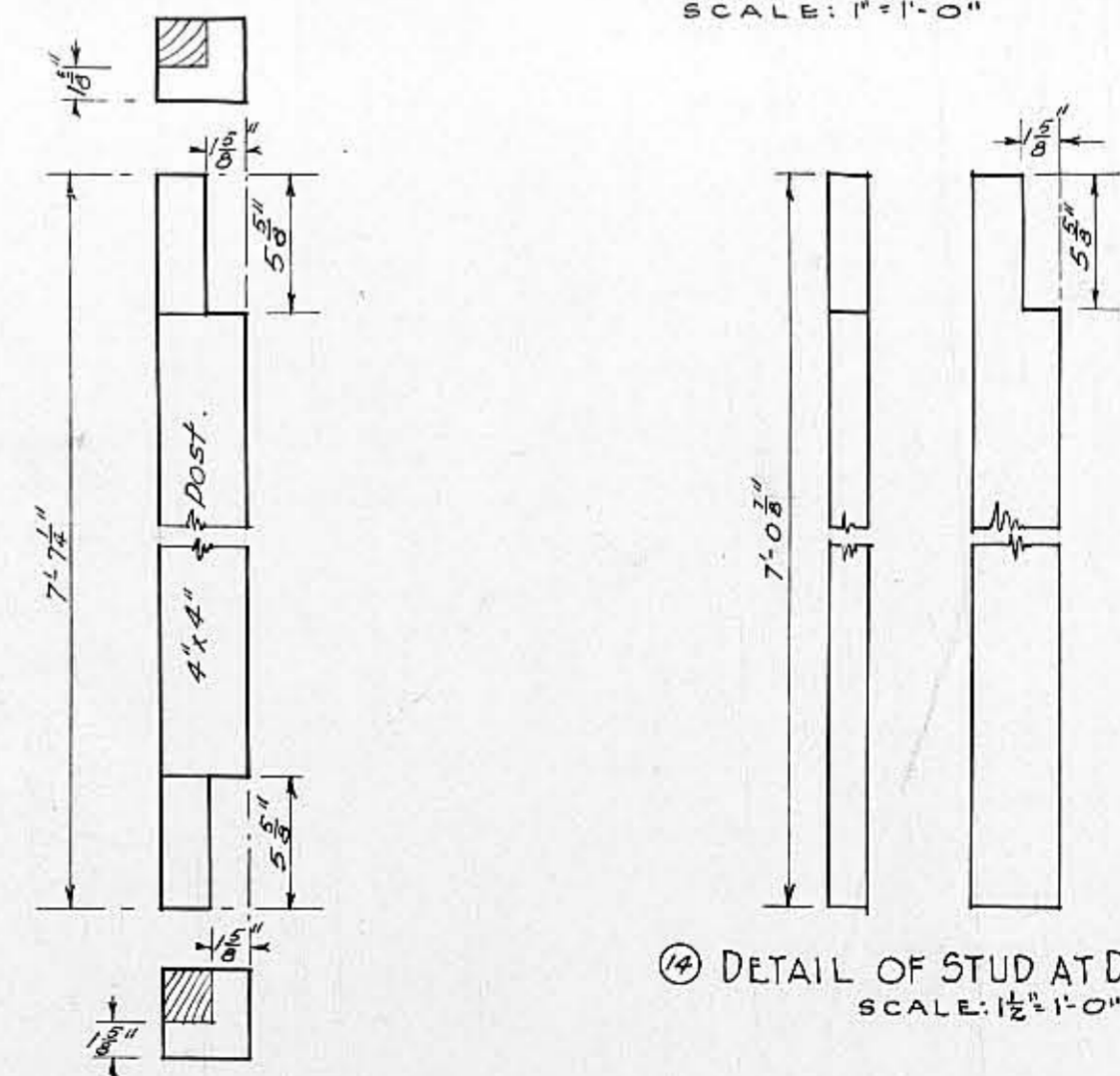
(32)

MATERIAL LIST FOR SHELVES				
NO. PCS.	THICKNESS	WIDTH	LENGTH	DESCRIPTION
2	1"	12"	3'-0"	#2 Com. P. Pine
2	1"	12"	2'-10 1/2"	" " " "
1	1"	12"	4'-0"	" " " "
1	1"	12"	3'-10 1/2"	" " " "
1	1"	12"	5'-0"	" " " "
1	1"	12"	4'-10 1/2"	" " " "
6	1"	12"	1'-11 1/2"	" " " "
8	3/8"	1"	0'-11 1/2"	" " " "

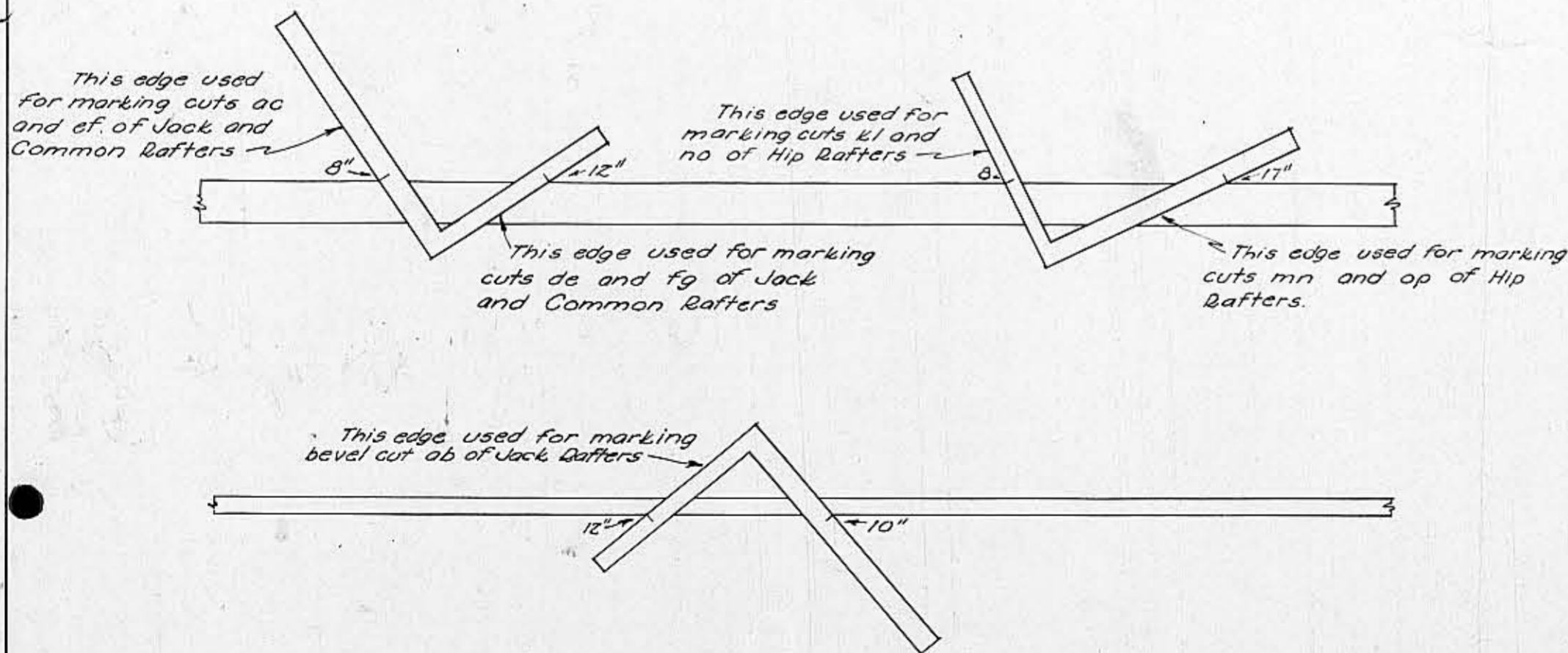
MATERIAL LIST FOR TABLE				
NO. PCS.	THICKNESS	WIDTH	LENGTH	DESCRIPTION
5	1"	6"	4'-0"	#2 Com. P. Pine CM
2	1"	4"	2'-1 1/2"	" " " "
1	1"	4"	3'-2 1/2"	" " " "
1	1"	6"	3'-2 1/2"	" " " "
2	1"	4"	2'-5"	" " " " (Legs)
1 Pr. 4" T. Hinges				
2	3/8"	2 1/2"	Carriage Bolts with Washers	



DIAGONAL BRACING
SCALE: 1" = 1'-0"

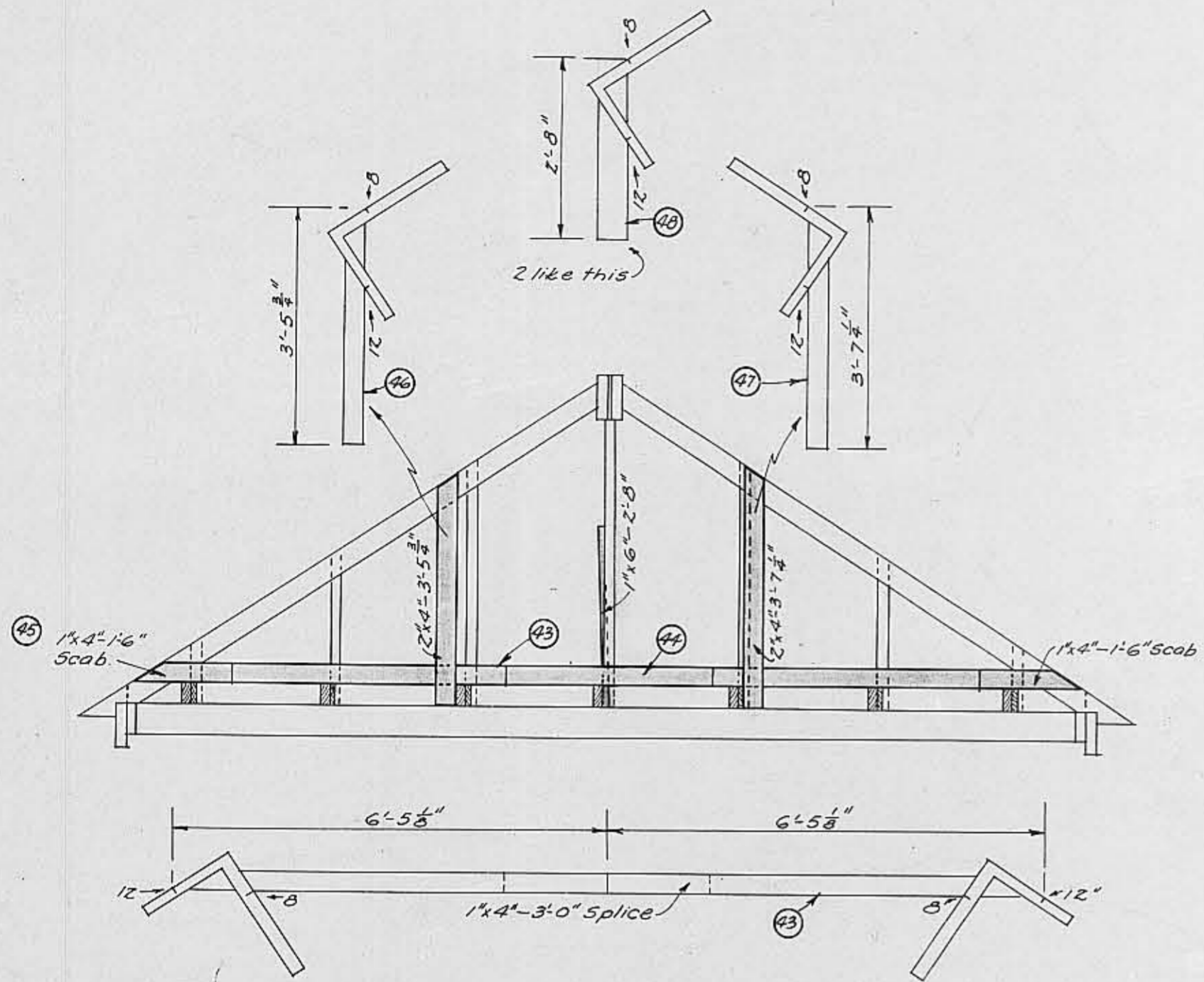


(3) DETAIL OF CORNER POST
SCALE: 1 1/2" = 1'-0"



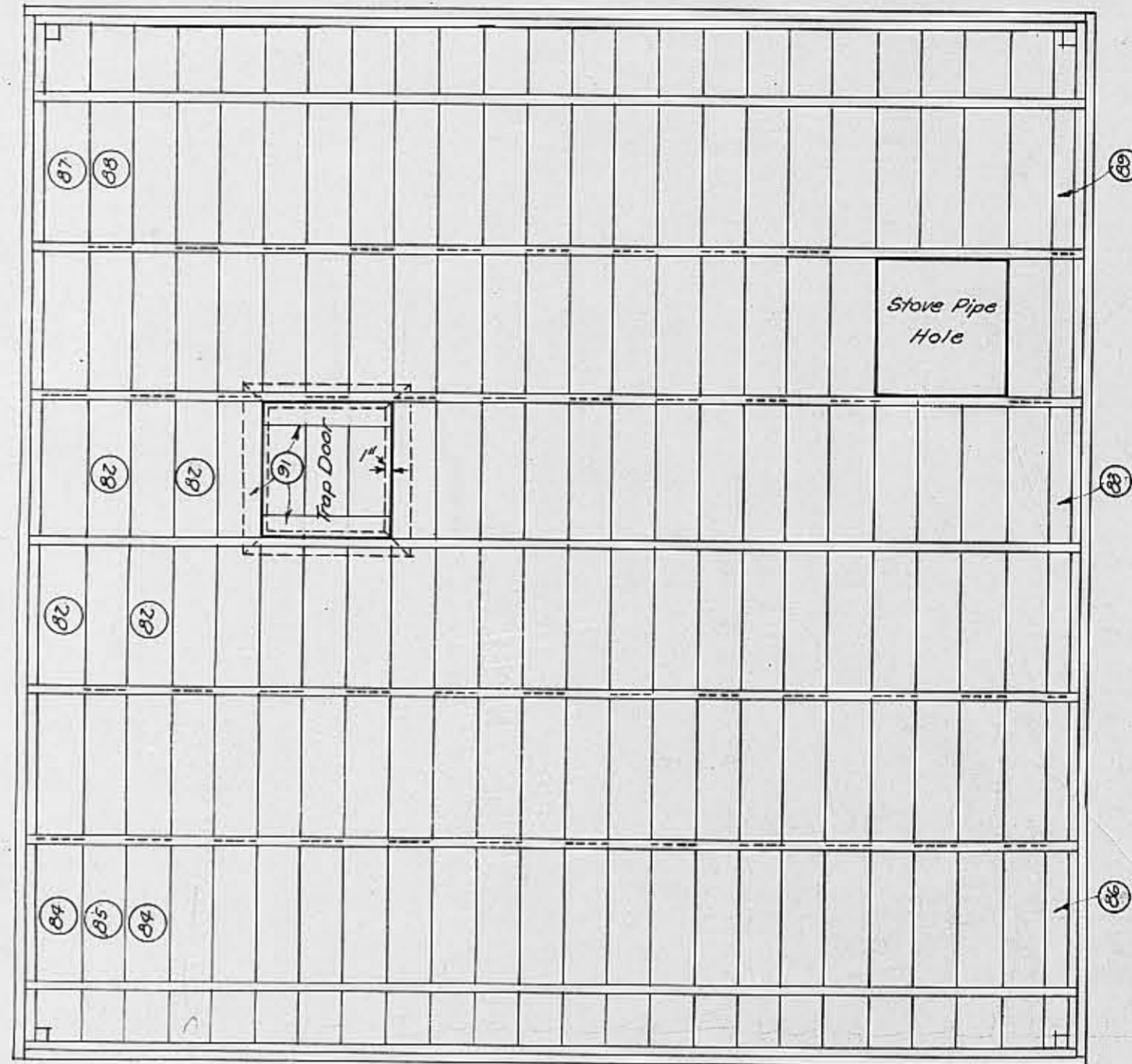
Make the specified inch graduations coincide with edge of 2"x4" timber and rule along outside edge of the steel square

RAFTER CUT LINES MADE WITH CARPENTERS SQUARE



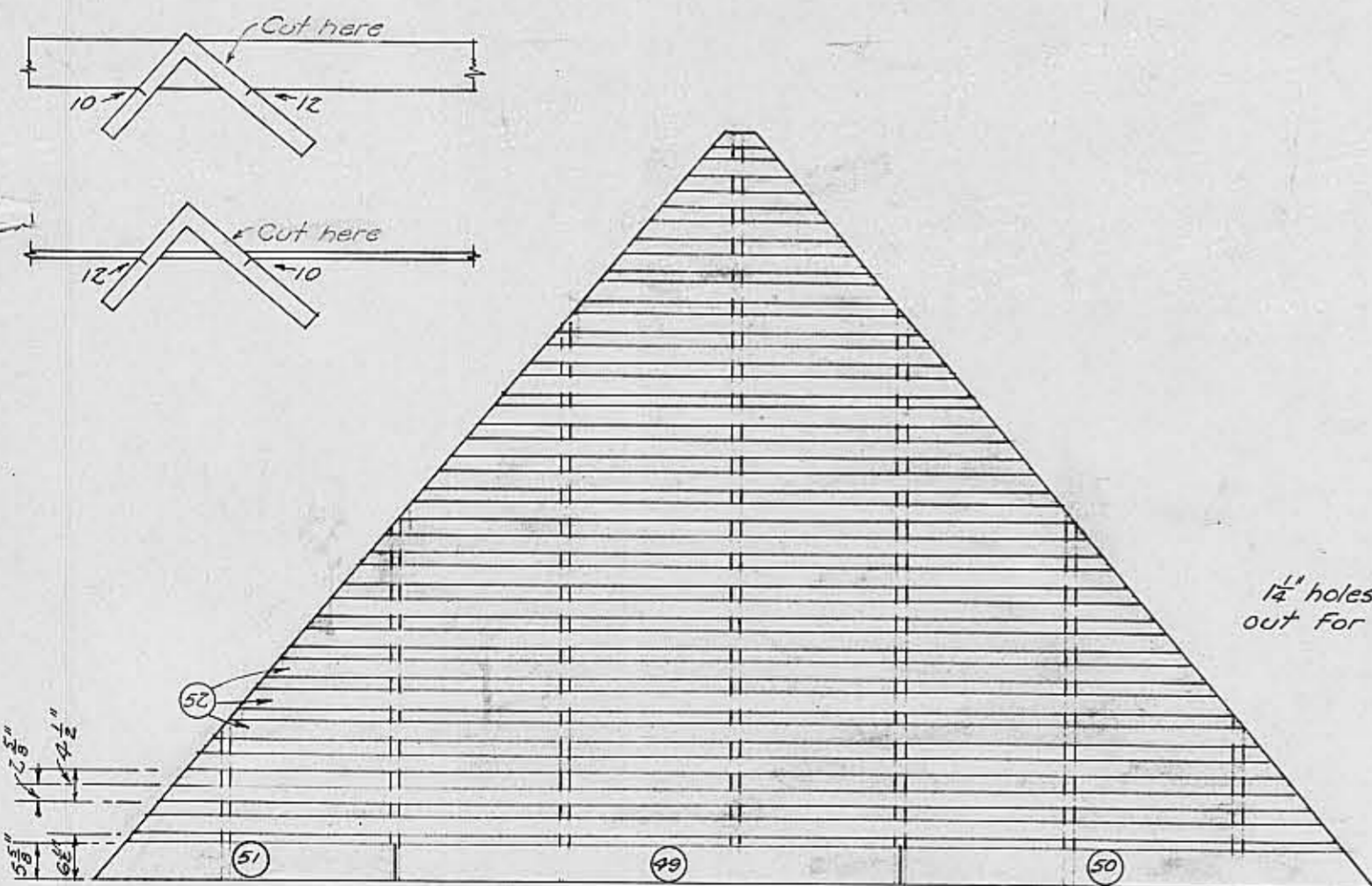
DETAIL OF RAFTER TIE, SCABS & HANGERS

SCALE: $\frac{1}{2}$ " = 1'-0"



PLAN SHOWING CUT FOR CEILING

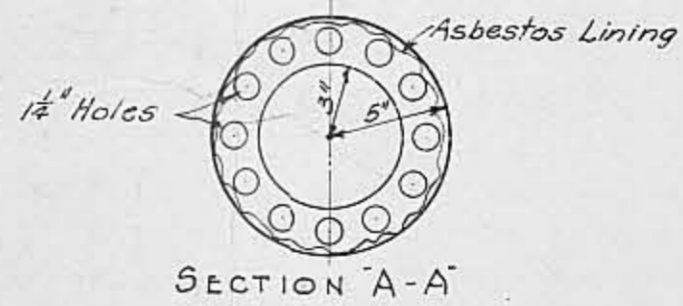
SCALE: $\frac{1}{2}$ " = 1'-0"



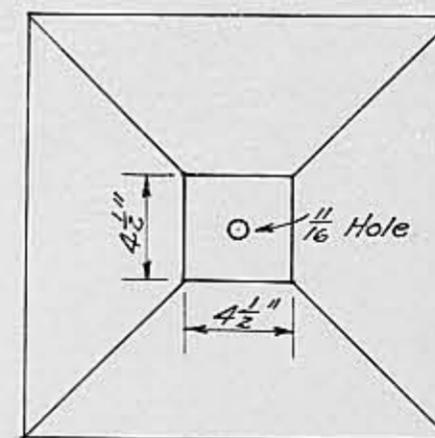
DETAIL OF CUT FOR ROOF SHEATHING

SCALE: $\frac{1}{2}$ " = 1'-0"

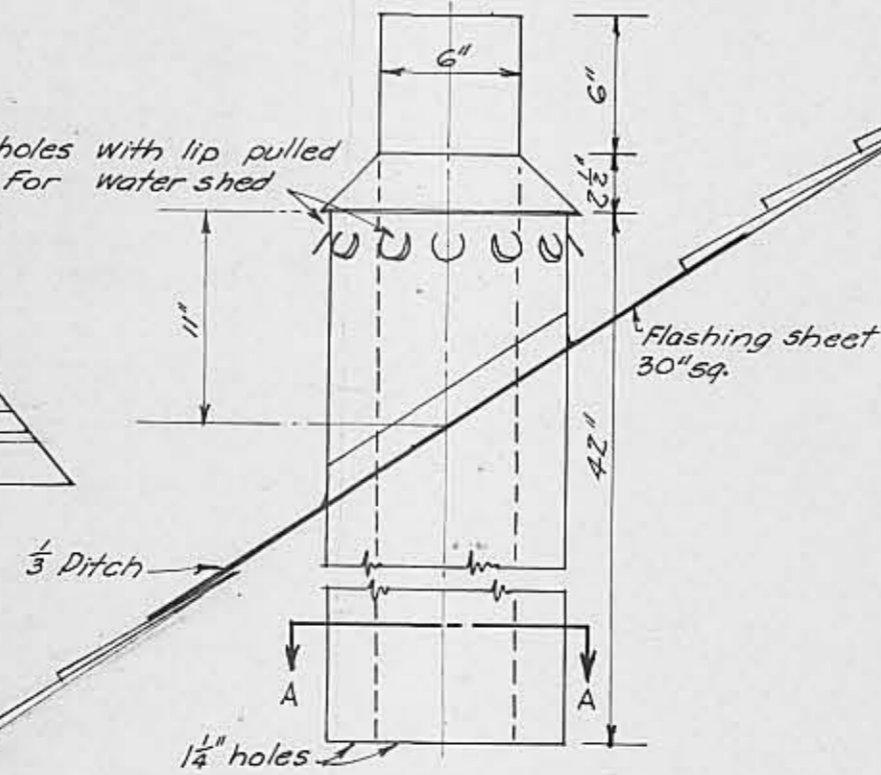
The strip method of roof sheathing is used solely to reduce packing weight, approximately 150 pounds.



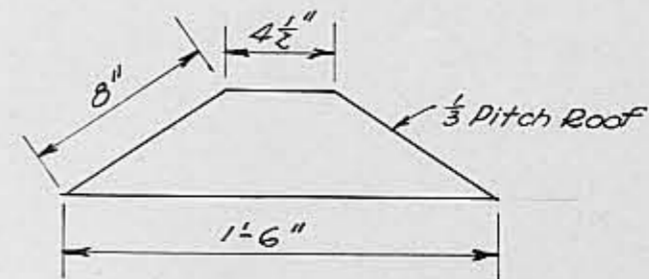
SECTION A-A



⑫ HIP ROOF FINIAL
20 GAUGE GALVANIZED IRON
SCALE: $\frac{1}{2}$ " = 1'-0"



⑬ DETAIL OF ROOF JACK
24 GAUGE GALVANIZED IRON
SCALE: $\frac{1}{2}$ " = 1'-0"



BILL OF MATERIAL

AND

INSTRUCTIONS FOR ERECTION
(1935 REVISION)

<u>ITEM NO.</u>	<u>NO. PCS.</u>	<u>DIMENSIONS</u>	<u>USE</u>	<u>YARD MATERIAL LIST</u>
1	2	2X6-8'	BOX SILLS	
2	2	2X6-6'	" "	2-2X6-16
3	2	1X6-1'2"	SPLICES	
4	24	2X6-6'10-3/8"	FLOOR JOIST	12-2X6-14
5	12	1X6-3'	SPLICES FOR FLOOR JOIST	3-1X6-12
6	1	2X6-3'	FALSE JOIST UNDER DOOR FRAME	
7	1	2X6-0'5-5/8"	HEADER	
8	4	4X4-7'7 1/2"	CORNER POSTS (CUT TO PATTERN)	2-4X4-16
9	88	1X8-4'	(SHIPLAP) SUBFLOOR	22-1X8-16
10	31	2X4-1'8"	SHORT STUDS	4-2X4-14
11	6	2X4-7'8-3/8"	BED AND TOP PLATE SIDES AND REAR	
12	8	2X4-5'8-3/8"	BED AND TOP PLATE SIDES FRONT AND REAR	6-2X4-14
13	2	2X4-5'5/8"	BED AND TOP PLATE FRONT	2-2X4-14
14	1	2X4-7'0-7/8"	DOOR STUD (CUT TO PATTERN)	1-2X4-10
15	15	2X4-2'6"	CROSS BRACES (CUT TO PATTERN)	
16	7	2X4-2'2 3/4"	" " " " "	
17	8	2X4-2'6"	CENTER " " " "	5-2X4-16
18	4	2X8-8'	CAP PLATE MEMBER	
19	4	2X8-6'1-5/8"	" " "	4-2X8-16
20	4	2X6-8'	" " "	
21	4	2X6-5'10-3/8"	" " "	4-2X6-14
22	3		SIDEHILL SASH FRAMES 13' 4 3/4" X 4' 7 1/2" - 1 3/4" FOR 5-SASH 10"X16", 9-LIGHT 3X3-1 3/4" (NO HEAD CASING, SILL AND HEAD JAMB IN TWO PIECES)	
23	1		SIDEHILL SASH FRAME 10'9" X 4'7 1/2"-1 3/4" FOR 4-SASH 10"X16", 9-LIGHT 3X3-1 3/4" (NO HEAD CASING, SILL AND HEAD JAMB IN TWO PIECES) (SEE DETAIL ON PLANS.)	
23B	15		WINDOW SILL BRACKETS (SEE DETAIL PLAN.)	

PLAN L-4 (CONT'D)

ITEM NO.	NO. PCS.	DIMENSIONS	USE	YARD MATERIAL LIST
24	1		DOOR FRAME 2'4"X6'4 $\frac{1}{2}$ "-1 3/8" (SEE DETAIL ON PLANS.)	
25	41	1X6-4'	RUSTIC SIDING, WALLS	
26	24	1X6-6'	" " "	
27	2	1X6-3' 1 $\frac{1}{2}$ "	" " FRONT WALLS	
28	2	1X6-2'	" " " "	
29	3	1X6-1'1 $\frac{1}{2}$ "	" " " "	27-1X6-12
30	14	2X4-7'	CEILING JOIST	7-2X4-14
31	7	1X4-3'	" " SPLICE	2-1X4-12
32	1	8"	OCTAGON BLOCK (CUT TO PATTERN)	
33	4	2X4-7'	HIP RAFTERS, TAIL (CUT TO PATTERN)	
34	4	2X4-4'7-1/8"	HIP RAFTERS, TOE " " "	
35	8	1X4-2'	HIP RAFTERS, SPLICES	2-1X4-12
36	4	2X4-8'11 $\frac{1}{4}$ "	COMMON RAFTERS	
37	4	2X4-6'8 $\frac{3}{4}$ "	JACK RAFTERS, RIGHT CUT	
38	4	2X4-6'8 $\frac{3}{4}$ "	" " LEFT CUT	
39	4	2X4-4'4 $\frac{1}{2}$ "	" " RIGHT CUT	
40	4	2X4-4'4 $\frac{1}{2}$ "	" " LEFT CUT	
41	4	2X4-1'10 $\frac{1}{2}$ "	" " RIGHT CUT	
42	4	2X4-1'10 $\frac{1}{2}$ "	" " LEFT CUT	16-2X4-14
43	2	2X4-6'5-1/2"	RAFTER TIE (CUT TO PATTERN)	
44	1	1X4-3'	SPLICE FOR NO. 43	
45	2	1X4-1'6"	SCABS FOR PIECES NOS. 36 TO 43. (CUT TO PATTERN)	
46	1	2X4-3'5 $\frac{3}{4}$ "	HANGER, NOS. 36 TO 43 (CUT TO PATTERN)	
47	1	2X4-3'7 $\frac{1}{2}$ "	" " 36 TO 43 " " "	2-2X4-12
48	2	1X6-2'8"	" " 30 TO 36 " " "	
49	4	1X6-6'	ROOF SHEATHING	
50	4	1X6-5'7"	" "	
51	4	1X6-3'8"	" "	4-1X6-16
52	112	1X3-6'	" "	56-1X3-12
53	4	1X6-6'	CORNICE, SQUARE CUT	
54	4	1X6-5'7"	" RIGHT CUT (45°)	
55	4	1X6-3'7 $\frac{1}{2}$ "	" LEFT CUT "	4-1X6-16
56	4	1X2 $\frac{1}{2}$ -6'	SHINGLE STRIP ON FACIA, SQUARE CUT	
57	4	1X2 $\frac{1}{4}$ -5'8 $\frac{1}{2}$ "	" " " " LEFT CUT	

PLAN L-4 (CONT'D)

ITEM NO.	NO. PCS.	DIMENSIONS	USE	YARD MATERIAL LIST
58	4	1x2 $\frac{3}{4}$ -3'7 $\frac{3}{4}$ "	SHINGLE STRIP ON FACIA, RIGHT CUT	4-1x3-16
59	11	BUNDLES	SHINGLES	
60	200		8" SHINGLES CUT FOR 1/3 PITCH HIP ROOF	
61	7	1x6-2'6"	CORNER BOARDS (BELOW WINDOWS)	
62	1	1x6-6'6"	DOOR CASING AND CORNER BOARD	
63	1	1x2-2'	FILLER UNDER DOOR CASING	
64	1	1x6-2'	DOOR CASING UNDER WINDOW	
65	7	1x6-4'6"	WINDOW CASINGS AND CORNER BOARDS	
66	1	1x4 $\frac{3}{4}$ -4'6"	WINDOW CASINGS AND DOOR CASING	5-1x6-14
67	1	1x3-6'7"	" " " " " (INSIDE)	1-1x4-14
68	16	1x6-6'	SHIPLAP, WAINSCOTING UNDER WINDOWS	
69	4	1x3 $\frac{1}{2}$ -6'	" " " "	
70	6	1x6-3'7 $\frac{3}{4}$ "	" " " "	
71	3	1x3 $\frac{1}{2}$ -3'7 $\frac{3}{4}$ "	" " " "	
72	6	1x6-1'7 $\frac{1}{2}$ "	" " " "	
73	6	1x6-3'8-3/8"	" " " "	
74	3	1x3 $\frac{1}{2}$ -3'8-3/8"	" " " "	15-1x6-14
75	6	1x6-5'8-3/8"	" " " "	
76	2	1x6-2'11-7/8"	" " " "	" FRONT
77	1	1x3 $\frac{1}{2}$ -2'11-7/8"	" " " "	" "
78	2	1x6-0'11 $\frac{3}{4}$ "	" " " "	" "
79	2	1x6-1'8 $\frac{3}{4}$ "	" " " "	" "
80	1	1x3 $\frac{1}{2}$ -1'8 $\frac{3}{4}$ "	" " " "	" "
81	2	1x6-3'8 $\frac{3}{4}$ "	" " " "	" " 5-1x6-12
82	23	1x8-6'	CEILING	
83	1	1x3 $\frac{3}{4}$ -6'	"	
84	12	1x8-2'8-5/8"	"	
85	11	1x8-4'8-5/8"	"	
86	1	1x3 $\frac{3}{4}$ -4'8-5/8"	"	
87	12	1x8-5'	"	
88	11	1x8-3'	"	
89	1	1x3 $\frac{3}{4}$ -3'	"	24-1x8-14
90	12	4'7"	$\frac{3}{4}$ ROUND	

PLAN L-4 (CONT'D)

ITEM NO.	NO. PCS.	DIMENSIONS	USE	YARD MATERIAL LIST
91	4	1X4-2'6"	TRAPDOOR CASING	1-1X4-10
92	66	1X6-6'9"	FLOORING, SHUTTERS ON SIDES AND REAR	33-1X6-14
93	22	1X6-5'6"	FLOORING, SHUTTERS ON FRONT WINDOWS	11-1X6-12
94	24	1X6-4'5"	BATTENS ON SHUTTERS	8-1X6-14
95	6	1X6-6'4 $\frac{1}{2}$ "	FLOORING, DOOR SHUTTER	3-1X6-14
96	3	1X6-2'6"	DOOR BATTENS	1-1X6-14
97	8	1X2-4'5"	FILLER - OUTSIDE END OF SHUTTERS	3-1X2-14
98	4	2X6-1'6"	(P. PINE) CENTER BLOCKING UNDER SHUTTER HINGES	
99	8	2X6-9"	(P. PINE) END BLOCKING UNDER SHUTTER HINGES	1-2X6-12
100	16	2X2-6'	SHUTTER RODS	8-2X2-12
101	19		9-LIGHT 10"X16"-1 $\frac{3}{4}$ " BARN SASH (33"X53") TRIMMED	
102	1	2'4"X6'4 $\frac{1}{2}$ "-1-3/8"	1, OR 2-PANEL, 6-LIGHT 10"X16" (2X3) DOOR	
103	3		ROLLS (250') TAR PAPER	
104	250'		MAPLE FLOORING	
105	12	4'6"	QUARTER-ROUND	
106	10#		3D ZINC-COATED SHINGLE NAILS	
107	10#		6D BOX NAILS	
108	30#		8D BOX NAILS	
109	10#		8D CASING NAILS	
110	20#		16D COMMON NAILS	
111	5#		8D COMMON NAILS	
112	5#		10D COMMON NAILS	
113	1#		6D FINISH NAILS	
114	1#		8D FINISH NAILS	
115	4	$\frac{1}{2}$ "X24"	EYEBOLTS, WELDED EYE, 4" THREAD	
116	4	$\frac{1}{2}$ "X8"	CARRIAGE BOLTS	
117	8	5/8"	IRON WASHERS	
118	1		RIM LOCK SET	
119	1 PR.		3 $\frac{1}{2}$ X 3 $\frac{1}{2}$ STEEL BUTTS	
120	1		1/3-PITCH GALV. ROOF JACK (SPECIAL - SEE PLAN)	

PLAN L-4 (CONT'D)

<u>ITEM NO.</u>	<u>NO. PCS.</u>	<u>DIMENSIONS</u>	<u>USE</u>	<u>YARD MATERIAL LIST</u>
121	1		GALVANIZED HIP FINIAL (SEE PLAN)	
122	96		GALVANIZED HIP SHINGLES	
123	2 GAL.		WHITE PAINT (OUTSIDE)	
124	1 GAL.		DARK GREEN OIL STAIN (INSIDE)	
125	2 (1-4", 1-2")		PAINT BRUSHES	
126	1 PINT		TURPENTINE	
127	8 PRS.		6" T-HINGES, WITH SCREWS, SHUTTER RODS	
128	8 PRS.		8" T-HINGES, " " " "	
129	16		IRON SHUTTER ROD BRACKETS (SEE PLAN)	
130	96	$\frac{1}{4} \times 2\frac{1}{4}$ "	CARRIAGE BOLTS	
131	16	$2\frac{1}{2}$ "	GATE HOOKS	
132			MATERIAL FOR SHELVES	4-1X12-12
133	1		TABLE	
134	2		BUNKS AND MATTRESSES	
135	1		FIREFINDER	
136	1		STOVE	
137	1	24"X30"	GALV. TIN (WALL BEHIND STOVE)	
138	1	24"X30"	ASBESTOS SHEET (WALL BEHIND STOVE)	
139	1	24"X30"	STOVE BOARD	
140	6 JOINTS		GALV. STOVE PIPE	
141	1 SET		DISHES	
142	1		DROP LIGHT FOR MAP BOARD	
143			LIGHTNING PROTECTION	
144	1 GAL.		LINSEED OIL FOR FLOOR	
145	1 SET		BLUEPRINTS AND MATERIAL LIST	
146	1		TELEPHONE SET	
147	2		CHAIRS	
148	1		DESK	
149	1		SAFETY HINGE HASP	
150	1		F. S. PADLOCK	
151	1		PROPERTY NOTICE	
152	2	10"X16"	WINDOW GLASS	
153	1# CAN		PUTTY	

YARD LIST

BOARD FEET

2 - 4x4 - 16	P. PINE, #2 COMMON	43
4 - 2x8 - 16	" " " "	85
2 - 2x6 - 16	" " " "	32
16 - 2x6 - 14	" " " "	224
1 - 2x6 - 12	" " " "	12
5 - 2x4 - 16	" " " "	53
35 - 2x4 - 14	" " " "	327
2 - 2x4 - 12	" " " "	16
1 - 2x4 - 10	" " " "	7
8 - 2x2 - 12	" " " "	<u>32</u>
TOTAL		831

4 - 1x12 - 12	CEDAR, #3 AND BETTER	48
8 - 1x6 - 16	" " " "	128
14 - 1x6 - 14	" " " "	98
3 - 1x6 - 12	" " " "	18
1 - 1x4 - 14	" " " "	5
4 - 1x4 - 12	" " " "	16
1 - 1x4 - 10	" " " "	4
4 - 1x3 - 16	" " " " (SPECIAL PATTERN)	16
56 - 1x3 - 12	" " " "	168
3 - 1x2 - 14	" " " "	<u>7</u>
TOTAL		508

22 - 1x8 - 16	SHIPLAP CEDAR, #3 AND BETTER	235
24 - 1x8 - 14	" " " " "	224
15 - 1x6 - 14	" " " " "	105
5 - 1x6 - 12	" " " " "	<u>30</u>
TOTAL		594

27 - 1x6 - 12	RUSTIC CEDAR, #3 AND BETTER (PAT. #105)	142
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36 - 1x6 - 14	FLOORING C. M.	252
11 - 1x6 - 12	" " " , #3 AND BETTER	<u>66</u>
TOTAL		318

109 LINEAR FEET $\frac{1}{4}$ ROUND, (1") PINE

INSTRUCTIONS FOR ERECTION OF READICUT LOOKOUT HOUSES

PLAN L-4

BEFORE STARTING THE ERECTION OF THE BUILDING, SORT ALL THE MATERIAL INTO FILES OF EACH ITEM AND IN SOME ORDER SO THAT EACH ITEM WILL BE HANDY WHEN NEEDED. IT IS ESSENTIAL THAT ALL THE ITEMS BE CAREFULLY CHECKED AGAINST THE MATERIAL LIST BEFORE CONSTRUCTION IS COMMENCED SO THAT ANY PIECES LOST IN TRANSIT MAY BE REPLACED. THE ITEMS OF LUMBER MATERIAL ARE NUMBERED IN THE ORDER IN WHICH THEY SHOULD BE USED IN ERECTING THE BUILDING, STARTING WITH NO. 1 AND WORKING RIGHT DOWN THROUGH THE LIST TO THE LAST NUMBER.

IT IS CONTEMPLATED THAT THIS BUILDING WILL ORDINARILY BE ERECTED ON A TOWER (PLANS T-10, T-20, T-30, T-40, OR T-50), AND THE TOWER PLANS PROVIDE FOR THE NECESSARY FOUNDATION SILLS UPON WHICH TO SET THE FLOOR JOIST AND END SILLS. IT MAY BE ADVISABLE IN SOME CASES WHERE THE BUILDING IS TO BE ERECTED ON THE GROUND WITHOUT A TOWER, TO CONSTRUCT A CONCRETE FOUNDATION OR PIERS TO SUPPORT IT. THE USE OF CONCRETE, HOWEVER, SHOULD BE RESTRICTED TO ONLY EXCEPTIONAL CASES SINCE, ORDINARILY, SUFFICIENT ROCK OF SATISFACTORY CHARACTER CAN BE FOUND TO LAY UP A GOOD RUBBLE WALL. WHERE A RUBBLE WALL IS USED THREE LOG SILLS UPON WHICH TO SET THE FLOOR JOIST AND END SILLS SHOULD BE PROVIDED.

IN THOSE CASES WHERE IT IS DESIRABLE TO PUT IN A CONCRETE FOUNDATION OR PIERS, IT WILL BE NECESSARY TO PROVIDE LUMBER FOR THE FORMS, SINCE IT WILL NOT BE POSSIBLE TO CUT UP THE LUMBER IN THE BUILDING MATERIAL FOR FORM LUMBER. A CONCRETE WALL FOR THE LOOKOUT HOUSE SHOULD BE 6 INCHES THICK AND BE SET AT LEAST 12 INCHES BELOW THE GROUND SURFACE. AT THE ELEVATION AT WHICH MOST OF THESE HOUSES WILL BE BUILT, IT WILL NOT USUALLY BE PRACTICABLE TO GO BELOW FROST LINE WITH A FOUNDATION. WHERE THE ROCK FOUNDATION IS CLOSE TO THE SURFACE THE FOUNDATION SHOULD BE SET DOWN TO THE ROCK SURFACE. FOUNDATION BOLTS $\frac{1}{2}$ " X 18" SHOULD BE SET 9 INCHES IN THE CONCRETE, SPACED 12 INCHES FROM EACH CORNER. THEY WILL PROJECT UP THROUGH THE BED PLATES AND SECURELY ANCHOR THE BUILDING TO THE FOUNDATION.

WHERE CONCRETE PIERS ARE TO BE USED, SIX SHOULD BE PROVIDED, AND THREE 4X6 TIMBERS FOR SILLS PROVIDED. THE PIERS WILL BE LOCATED, THREE ALONG THE FRONT WALL AND THREE ALONG THE REAR WALL. THE 4X6 SILLS WILL PROVIDE THE SAME BEARING FOR THE HOUSE SILLS AS IS PROVIDED BY THE SILL ARRANGEMENT OF THE TOWERS. THE PIERS SHOULD BE 12 INCHES SQUARE AT THE TOP AND HAVE A BATTEN OF ABOUT ONE INCH PER FOOT OF HEIGHT. FOUNDATION BOLTS $\frac{1}{2}$ " X 16" SHOULD BE SET 9" IN EACH PIER TO ANCHOR THE SILLS TO THE PIERS.

CONCRETE FOR EITHER WALLS OR PIERS SHOULD BE ONE PART CEMENT, TWO PARTS SAND, AND FOUR PARTS COARSE GRAVEL, WELL MIXED AND TAMPED AS IT IS POURED IN THE FORMS.

THE PLAN OF THE L-4 HOUSE CONTEMPLATES THAT THE CORNERS ARE TO BE ANCHORED TO THE SILLS ON THE TOWER AND ALSO TO THE SILLS ON THE RUBBLE FOUNDATION. IN THOSE CASES WHERE THE BUILDING IS ERECTED ON A TOWER, IT MAY BE ADVISABLE TO MAKE UP THE SHUTTERS AT THE BEGINNING OF THE JOB SO THAT THEY CAN BE USED FOR STAGING IN ERECTING THE ROOF PART OF THE STRUCTURE.

THE FIRST STEP IN THE ERECTION IS TO ASSEMBLE THE FLOOR JOISTS BY SPLICING. BE SURE THAT ONE EDGE OF THE FLOOR JOIST IS PERFECTLY STRAIGHT WHEN IT IS SPLICED. THE END SILLS SHOULD BE LAID ON THE FOUNDATION AND THE SPACING FOR THE FLOOR JOISTS MARKED OFF, BEGINNING AT THE END OF THE STRUCTURE WHICH WILL BE OPPOSITE TO THE DOOR. AFTER THE JOISTS HAVE BEEN NAILED TO THE SECTIONS OF THE SILLS, THE SPLICE FOR THE SILLS CAN THEN BE NAILED IN PLACE. USE 8D NAILS FOR NAILING THE SPLICES AND 16D NAILS FOR NAILING THE SILL TO THE JOIST.

TO SQUARE THE BUILDING, BEFORE PROCEEDING FURTHER, LAY OFF FROM ONE CORNER A DISTANCE OF 8 FEET AND A DISTANCE OF 6 FEET ON THE OPPOSITE SIDE AND WHEN THE BUILDING IS EXACTLY SQUARE, THE DIAGONAL DISTANCE BETWEEN THE TWO MARKS WILL BE 10 FEET. ANOTHER PRACTICAL WAY TO SQUARE THE FOUNDATION IS TO MEASURE WITH A TAPE THE DIAGONAL DISTANCE FROM CORNER TO CORNER, ADJUSTING THE FOUNDATION UNTIL THE DIAGONAL IS THE SAME BOTH WAYS.

THE SILLS SHOULD NOW BE TOENAILED TO THE FOUNDATION SILL AT SEVERAL PLACES TO HOLD IT IN PLACE.

NOW SET YOUR CORNER POSTS WHICH HAVE BEEN DAPPED AT BOTH ENDS TO FIT IN BETWEEN THE FLOOR JOIST AND SILL AND BETWEEN THE HEAD PLATE AT THE TOP. AFTER SETTING THE POSTS THE FALSE FLOOR SHOULD BE LAID. USE 8D BOX NAILS TO NAIL THE FLOORING. THE FLOORING HAS BEEN CUT IN 4-FOOT LENGTHS AND IT WILL BE NECESSARY, OF COURSE, TO USE THE SAW TO CUT IT TO FIT. THIS IS ABOUT THE ONLY PLACE THAT ANY SAWING WILL BE NECESSARY. IN LAYING THE FLOORING BE SURE TO KEEP EACH ROW OF BOARDS IN LINE, SINCE, WITH SHORT LUMBER, IT IS

VERY EASY TO GET A WISHBONE LINE IN YOUR FLOORING IF YOU ARE NOT CAREFUL. DON'T FORGET TO CUT THE SUBFLOOR AROUND THE DOOR SILL WHEN YOU GET TO IT. THE OPENING FOR THE DOOR FRAME IS 4-5/8" X 2' 6-1/8".

THE NEXT JOB IS TO SET THE WALL STUDDING. LAY A PAIR OF PLATES EDGEWISE BETWEEN THE CORNER POSTS ON ONE SIDE. THEY SHOULD JUST FIT TIGHTLY BETWEEN THE POSTS. TAKE THE SQUARE AND LAY OFF THE SPACING AS INDICATED ON THE SIDE FRAMING ELEVATION. THE STUDDING CAN THEN BE NAILED TO THE BED AND TOP PLATES, USING TWO 16D NAILS FOR EACH STUD. AFTER THE WHOLE SIDE IS ASSEMBLED IT SHOULD BE SET IN PLACE AND THE BED PLATE NAILED TO THE FLOOR WITH 16D NAILS AND THE END STUDS TO THE CORNER POSTS. ALL OF THE SIDES AND THE FRONT SHOULD BE ASSEMBLED IN THIS MANNER, AFTER WHICH THE CORNER POSTS SHOULD BE PLUMBED, USING ANY BOARD OF CONVENIENT LENGTH AS A BRACE. AFTER THE CORNER POSTS HAVE BEEN PLUMBED THE CROSS BRACES, NOS. 15, 16 AND 17, SHOULD BE SET IN PLACE AND SECURELY NAILED, USING 10D COMMON NAILS FOR NAILING.

THE CAP PLATE FOR ONE SIDE OF THE BUILDING SHOULD NOW BE ASSEMBLED. BE SURE THAT THE PIECES ARE FITTED TOGETHER IN ACCORDANCE WITH THE DETAIL SHOWN ON SHEET 2 OF THE PLANS. NAIL THE PLATE SECURELY WITH 10D NAILS, STAGGERED ABOUT EVERY FOUR INCHES IN THE PLATE, DRIVING HALF THE NAILS FROM EACH SIDE OF THE PLATE. THE ASSEMBLED PLATE CAN THEN BE SET UP ON THE POSTS AND NAILED IN PLACE. BE SURE THAT THE BACK OR UPPER SIDE OF THE PLATE IS STRAIGHT OR THAT IT HAS A LITTLE BOW UP, IF ANYTHING.

THE NEXT STEP IS TO ASSEMBLE THE WINDOW AND DOOR FRAMES AND TO SET THEM IN PLACE. THE WINDOW SILLS ARE DESIGNED TO SET FLAT ON THE PLATE AND AS THE SILL BREAKS JOINT WITH THE PLATE UNDERNEATH IT HELPS TO STIFFEN THE SIDE WALL OF THE BUILDING. IT SHOULD BE NAILED DOWN WITH 16D NAILS. BE SURE IT IS IN LINE BEFORE NAILING. THE FRAME IS CUT TO EXACT FIT. IT MAY BE THAT THE VARIATION IN THICKNESS (FROM 3-7/16" TO 3-5/8") OF THE CORNER POSTS MAY MAKE THE FRAME A LITTLE SHORT. IN THAT CASE PUT THIN SHIMS BEHIND THE END JAMBS TO TAKE UP THE SLACK. SHINGLES ARE GOOD FOR THIS. THE JAMBS SHOULD BE NAILED TO THE SILL AND TO EACH OTHER WITH 8D BOX NAILS. THE HEAD CASING IS SPLICED WITH A 1X4 THREE FEET LONG AND SHOULD NOT BE FASTENED TO THE OUTSIDE PLATE EXCEPT TEMPORARILY TO HOLD IT IN PLACE UNTIL YOU ARE READY FOR THE WINDOW SASH. SET THE OUTSIDE POSTS (1 1/2" X 1 1/2" - 4'5") AND SEE THAT THE PLATE WHICH THEY SUPPORT IS LEVEL. CUT THE POSTS SO THAT YOU WILL HAVE TO FORCE THEM INTO PLACE. THEY SHOULD BE NAILED WITH ONE 8D CASING NAIL TOENAILED IN FROM EACH SIDE AND A 10D NAIL DRIVEN IN FROM THE UNDERSIDE OF THE WINDOW SILL. TWO 8D CASING NAILS TOENAILED WILL HOLD THEM SECURELY AT THE TOP. THE SPACING OF THESE POSTS IS INDICATED ON THE WINDOW SILL DETAIL ON SHEET 3 OF THE PLANS.

THE SIDING UNDERNEATH THE WINDOWS SHOULD BE PUT ON NEXT. A LAYER OF TAR PAPER GOES NEXT TO THE STUDS UNDER THE SIDING AND THE EDGE OF THE TAR PAPER SHOULD BE FITTED UP INTO THE NOTCH ON THE UNDERSIDE OF THE WINDOW SILL. THE SIDING WILL BE PUT ON, BEGINNING AT THE TOP SO THAT THE TONGUE ON THE UPPER SIDE OF THE BOARD CAN BE FORCED INTO THE NOTCH ON THE UNDERSIDE OF THE WINDOW SILL MAKING A TIGHT WIND-PROOF JOINT. THE TAR PAPER SHOULD BE CUT AROUND EACH CORNER SO THAT IT WILL BE WELL LAPPED. USE 8D BOX NAILS TO NAIL THE SIDING.

YOU ARE NOW READY FOR THE ROOF STRUCTURE. AT EACH CORNER OF THE CAP PLATE MAKE A DIAGONAL CUT AS INDICATED ON SHEET 2 OF THE PLANS FOR THE BIRD MOUTH OF THE HIP RAFTER. BEGINNING AT THE EXACT CENTER OF THE PLATE ON EACH SIDE LAY OFF THE SPACING FOR THE RAFTER AS INDICATED ON THE ROOF FRAMING PLAN. THE RAFTERS ARE SET ON TWO-FOOT CENTERS. BE SURE THAT THE CAP PLATE FRAME IS SQUARE AND STRAIGHT BEFORE SETTING ANY RAFTERS. IF IT IS MORE THAN ONE-FOURTH INCH OUT OF SQUARE, THE HIP RAFTERS WILL NOT FIT PROPERLY.

THE CEILING JOIST SHOULD NOW BE SPLICED AND PUT IN PLACE. NOTE THAT THE JOISTS ARE PLACED ON THE FRONT OR DOOR SIDE OF THE RAFTERS. THE SPLICES SHOULD BE WELL NAILED WITH 8D COMMON NAILS. IT WILL BE NECESSARY TO PUT A TEMPORARY SUPPORT UNDER THE CEILING JOISTS BEFORE STARTING THE SETTING OF THE RAFTERS SINCE THESE SPLICED 2X4'S WILL NOT CARRY THE WEIGHT OF A MAN WITHOUT BEING SUPPORTED TEMPORARILY.

SET THE COMMON RAFTERS, NO. 36, FIRST. A SPACE OF ONE INCH SHOULD BE MARKED OFF AT THE UPPER END OF THE OCTAGON BLOCK SINCE THE BLOCK MUST PROJECT EVEN WITH THE ROOF SHEATHING. YOU CAN NOW SET THE HIP RAFTERS AND THEN THE JACKS. HIPS AND JACKS SHOULD BE TOENAILED TO THE CAP PLATE, USING 8D COMMON NAILS. AFTER THE RAFTERS ARE ALL SET IN PLACE PUT IN THE RAFTER TIE, NO. 43, WHICH IS SCABBED TO THE COMMON RAFTER WHICH IT FITS UNDER WITH A 1X4 EIGHTEEN INCHES LONG.

THE HANGERS WHICH SUPPORT THE CEILING JOISTS SHOULD ALSO BE PUT IN PLACE NOW. THE SUPPORT UNDERNEATH THE CEILING JOIST CAN NOW BE REMOVED SINCE, IF THE RAFTER TIE IS TOENAILED TO THE JOIST AND THE HANGERS ARE IN PLACE, THE CEILING JOISTS ARE SUFFICIENTLY SUPPORTED.

THE ROOF SHEATHING OR SHINGLE STRIPS SHOULD BE PLACED NEXT AND WILL BE NAILED WITH 8D BOX NAILS. THE SHINGLE STRIPS MUST BE CAREFULLY SPACED SO THAT THE LOWER EDGE OF EACH

STRIP WILL COINCIDE WITH A SHINGLE COURSE. BE SURE TO CUT THE ROOF JACK HOLE AT THE PLACE INDICATED ON THE PLAN, AS YOU LAY THE SHEATHING. THE STRIPS WILL BE CUT TO FIT ON THE JOB.

THE CORNICE SHOULD THEN BE PUT ON BY NAILING WITH 6D NAILS, AFTER WHICH THE ROOF SHOULD BE SHINGLED. SUFFICIENT DIAGONALLY SAVED SHINGLES HAVE BEEN FURNISHED TO FIT THE HIPS. A LAYER OF TAR PAPER SHOULD BE PUT ON UNDER THE SHINGLES AND IT SHOULD BE WELL LAPPED AT THE HIPS, SINCE IT IS IMPORTANT THAT EVERY POSSIBLE MEASURE BE TAKEN TO PROVIDE A RAIN-TIGHT JOINT AT THE HIP. INDIVIDUAL HIP SHINGLES HAVE BEEN PROVIDED TO COVER THE HIPS.

THE CORNER BOARDS, DOOR CASING, ETC., HAVE ALL BEEN CUT A LITTLE LONG AND IT WILL BE NECESSARY THAT YOU FIT THEM INTO PLACE. PUT A STRIP OF TAR PAPER AROUND EACH CORNER UNDER THE CASINGS. THEY SHOULD BE NAILED WITH 6D BOX NAILS. THE NEXT STEP WILL BE TO PUT ON THE WAINSCOTING INSIDE UNDER THE WINDOWS. THIS IS 1X6 SHIPLAP WHICH HAS BEEN CUT TO FIT. START WITH THE DOORSIDE AND THE WAINSCOTING WILL FIT BETWEEN THE DOOR CASING AND THE CORNER, TIGHT. THE ADJACENT SIDES HAVE BEEN CUT TO FIT AGAINST THE WAINSCOTING AT THE FRONT AND AGAINST THE STUDDING AT THE OPPOSITE END AND THE OTHER SIDES ACCORDINGLY. THE WAINSCOTING SHOULD BE NAILED WITH 6D BOX NAILS.

THE CEILING IS 1X8 SHIPLAP WHICH HAS ALSO BEEN CUT TO FIT. A QUARTER-ROUND HAS BEEN PROVIDED TO HOLD THE ENDS OF THE CEILING AT EACH END. THIS SHOULD BE PUT ON AFTER ALL OF THE CEILING HAS BEEN LAID.

THE TRAPDOOR SHOULD BE CUT IN AS YOU COME TO IT, USING THE PIECES WHICH YOU CUT OUT FOR THE TRAPDOOR. THE SHUTTERS SHOULD NOW BE ASSEMBLED AND HUNG IN PLACE. IT WILL BE EASIER TO HANG THEM IF THE HINGES ARE FASTENED TO THE SUPPORTING BLOCKS AND THE BLOCKS NAILED TO THE CAP PLATE AS THE SHUTTER IS SET UP. IT WILL ALSO HELP TO FORESTALL ANY SPLITTING OF THE BLOCKS IF FOUR 3/16" HOLES ARE BORED IN THE BLOCKS FOR THE 16D NAILS WHICH WILL BE USED TO NAIL THEM.

THE SHUTTER RODS ARE ASSEMBLED AND ATTACHED AS INDICATED ON THE PLAN.

THE WINDOW SASH SHOULD NOW BE SET IN PLACE AND THE STOPS, ETC., PLACED. THE SASH SHOULD FIT THE FRAMES WITHOUT ANY TRIMMING BUT IT MAY BE NECESSARY, IF THE CORNER SASH SHOULD BE NOT EXACTLY SQUARE, TO DO A LITTLE TRIMMING WITH THE PLANE IN ORDER TO MAKE THEM FIT PROPERLY.

GATE HOOKS ARE PROVIDED TO HOLD THE SHUTTERS AT ONE PLACE ON THE INSIDE NEXT TO THE SLIDING WINDOW AND ALSO AT THE BOTTOM ON EACH CORNER POST.

AFTER THE WINDOW SASH ARE SET AND THE DOOR HUNG, YOU SHOULD LAY THE MAPLE FLOORING, USING 8D CASING NAILS. GIVE THE FLOOR TWO OR THREE COATS OF BOILING-HOT LINSEED OIL. HAVE IT HOT AND RUB ON ALL THE FLOOR WILL ABSORB EACH TIME.

THE SHELVING AND THE TABLE SHOULD NEXT BE ASSEMBLED AND PUT IN PLACE AS INDICATED ON THE FLOOR PLAN, AFTER WHICH ALL OF THE OTHER FIXTURES CAN BE INSTALLED. PAINTING MUST BE DONE AT ONCE AFTER THE ERECTION HAS BEEN COMPLETED.