
Plan 1D From DuBois Improvement Circular of 1917

PLAN NO. 1-D

ONE ROOM OFFICE

16' x 20'

Items preceded by the mark (*) are standard and are not subject to change or choice. Conditions of the local lumber markets, and the isolation of certain building sites from markets carrying a varied stock of lumber are factors which will govern selection of the type of outside and inside wall cover, trim and sizes and kinds of nails. Elevation of the particular building site will determine the slope of roof to use and the dimensions of the roof frame material to order. All items subject to change or choice are indicated by the mark (#). To prepare a complete order list, select the items marked (#) which, under the particular circumstances, will be best adapted for use at a given building site. Add such items to those marked (*). To all items of lumber add the specifications shown under "Grade and Species", and "Finish". For example, two pieces 4"x6"-16' No. 1 Common, redwood, cedar, Douglas fir or pine, rough. To all items of hardware add only such descriptive matter as is necessary to adequately describe each item. For example, 2 pounds 30d. common wire nails - 3 pounds 30d. fine galvanized wire nails. Do not show on the order list the purpose for which the hardware items are to be used.

Estimated cost of construction - labor
at \$4.00 per day - \$ 112.00.

Builder's List of Materials.

No. Pos.	Size	Purpose & Location	Grade and Species	Finish	Bd.Ft.
<u>Sills and Floor Joists.</u>					
* 2	4 x 6 - 12	Sills	Redwood, cedar or Douglas fir	Rough	48
* 5	4 x 6 - 16	"	" " " "	"	160
* 9	2 x 6 - 16	Floor joist	No.2 Clear, D.F., 1st. Choice	"	144
* 2	2 x 6 - 16	End bridging	No.1 Clear, W.F.R.F. 2nd. "	(sized	32
* 4	2 x 4 - 16	Porch floor joists		(if	43
* 1	4 x 6 - 12	Overhead porch supports		(practic-	24
* 1	4 x 6 - 16	" " "	No.2 Clear, Y.P. 3rd. "	(able	32
* 2	6 x 6 - 12	Underpinning	Heart cedar or redwood	Rough	72

Note:- The item underpinning includes sufficient material shown in plan. The actual amount needed will depend upon the slope of the ground of each particular building site. Make due allowance for this item in the lumber order. If split or round material is used this item may be eliminated from the lumber list.

Studding, Plates, Girts, Etc.

* 1	6 x 6 - 16	Porch posts and corner studs	No.1 Common, D.F., W.F., R.F., Y.P.	(Rough or	48
* 2B	2 x 4 - 16	Studding	No.1 Common, any species	"	213
* 6	2 x 4 - 12	Plates & floor plate	" " " "	(sized	48
* 11	2 x 4 - 16	" " " "	" " " "	(if	117
* 4	2 x 4 - 16	Girts	" " " "	"	43
* 4	2 x 4 - 16	Window & door trimmers	" " " "	(practic-	43
* 5	2 x 4 - 16	False foundation frame	" " " "	(able	53
* 6	2 x 4 - 12	Miscellaneous	" " " "	(able	48
# 8	1 x 6 - 12	Diagonal braces for building subject to heavy snow load			48

Wall Cover (Outside) Below Water Table (Standard regardless of cover above water table)

* 18	1 x 12 - 16	Sheeting for base	No.1 Common, any species	Rough or S1S	400
* 280	Lin. Ft.	5/8 x 3 battens	" " " "	" " S4S	70
		for base			
* 5	1 x 4 - 16	Belt course	" " " "	" " S4S	27
* 5	1 x 3 - 16	Water Table	No.2 Clear	" " S2S1E	20

Note:- The first two items include sufficient siding for buildings having underpinning of the height shown on plan. The actual amount needed will depend upon the slope of the building site. Make due allowance for this item in the lumber order.

Choice of -					
# 450	B.F. 1x8	Sheeting, 6" to weather (above water table)	No. 1 Common, any species	Rough	450
		OR			
# 450	B.F. 6" or 8"	Rustic or dropsiding (above water table)	"C" Grade, California, any species or No. 3 Clear, Oregon, D. F.		450
		OR			
# 200	B.F. 1x4	Sheeting for shingles 8" O.C. (above water table)	No.2 Common, any species	"	200
# 2500	- -	Shingles, 5" to weather (above water table)	Star A Star, Red Cedar		

No. Pos.	Size	Purpose & Location	Grade and Species	Finish	Bd.Ft.
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Roof Frame and Cover, 1/4 Pitch, 2' Eaves and Gable Projections
(Elevations up to 2000 feet)

# 11	2 x 4 - 16	Ceiling joists	Same as floor joists	Rough	117
# 22	2 x 4 - 12	Rafters 2' O.C.	" " " "	"	176
# 2	1 x 4 - 12	Ridge pole	No. 1 Common, any species	"	8
# 6	1 x 6 - 16	Collar beams	Same as joists	"	48
# 4	1 x 4 - 12	Rafter ties to joist near plate	" " "	"	16
#252	B.F. 1x4	Sheeting 8" o.c. except 2' rafter projection	No. 2 Common, any species	"	252
#4500	- -	Shingles, 4 1/2" to weather	Star A Star, Red Cedar	"	24
# 8	1 x 6 - 16	Saddle boards	No. 1 Common, any species	"	96
# 6	1 x 12 - 16	Sheeting, 2' rafter projection	" " " "	Rough or S1S	96
# 4	2 x 6 - 12	Barge boards	" " " "	" " S4S	48
# 4	1 x 2 - 12	Barge board trim	No. 2 Clear " "	" " S4S	8
# 4	1 x 6 - 12	Frieze boards	No. 1 Common, " "	" " S4S	24
# 3	1 x 6 - 12	Rafter end frieze between rafters	" " " "	" " S1S	12
# 1	2 x 8 - 16	Sills for louvre	" " " "	" " S4S	21
# 2	1 x 8 - 16	Louvre jambs and slats	" " " "	" " S1S	21
# 8	1 x 10 - 12	Soffit for gable pro- jection	" " " "	" " S1S	80

Note:- The preceding 8 items are listed rough or surfaced, etc., if rough wall cover is used these will be rough; if rustic or drop siding wall cover is used, order surfaced lumber as indicated. If shingle wall cover is used, ordinarily these items will be rough but occasions may arise where preferable to surface as indicated. Substitute milled bed mould for barge trim when rustic wall cover is used and add 4 pieces 12' long of 1" 1/4 round moulding for frieze trim.

Roof Frame and Cover, 1/4 Pitch, 2' Eaves and Gable Projection - Continued
(Elevations up to 2000 feet)

# 100	B.F. 1 x 8	Sheeting, gable ends, No. 1 Common, any species 6" to weather		Rough	100
# 100	B.F.	OR - If rustic or drop siding wall cover is used Rustic or drop siding No. 3 Clear, any species			100
# 52	B.F. 1 x 4	OR - If shingle wall cover is used Sheeting, 8" O.C. for No. 2 Common, any species shingles		"	52
# 750	- -	Shingles, 5" to weather	Star A Star, Red Cedar		

No. Pos.	Size	Purpose & Location	Grade and Species	Finish	Bd. Ft
<u>Roof Frame and Cover, 1/3 Pitch, 18" Eaves and Gable Projections</u> (Elevations between 2000 - 3500 feet)					
# 11	2 x 6 - 16	Ceiling joists	Same as floor joists	Rough	176
# 22	2 x 6 - 12	Rafters 2' O.C.	" " " "	"	264
# 2	1 x 8 - 12	Ridge pole	No.1 Common, any species	"	16
# 6	1 x 6 - 16	Collar beams (0)	Same as floor joists	"	48
# 4	1 x 6 - 14	Angle struts (0)	" " " "	"	28
# 4	1 x 6 - 12	King struts (0)	" " " "	"	24
# 4	1 x 6 - 12	Rafter ties to joist near plate	No.1 Common, any species	"	24
#270 B.F.	1 x 4	Sheeting (roof) 8" O.C. except 18" projection	No.2 " " "	"	270
#4750	-	Shingles (roof) 4 1/2" to weather	Star A Star, Red Cedar		
# 3	1 x 6 - 16	Saddle boards	No.1 Common, any species	"	24
# 6	1 x 12 - 16	Sheeting 18" rafter projection	" " " "	Rough or SLS	96
# 4	2 x 6 - 12	Barge boards	" " " "	" " S4S	48
# 4	1 x 8 - 12	Barge board trim	No.2 Clear " "	" " S4S	8
# 4	1 x 6 - 12	Frieze boards	No.1 Common, " "	" " S4S	24
# 3	1 x 4 - 12	Rafter frieze between rafters	" " " "	" " SLS	12
# 1	2 x 8 - 16	Sills for louvre	" " " "	" " S4S	21
# 2	1 x 8 - 16	Louvre jambs and slats	" " " "	" " SLS	21
# 4	1 x 6 - 12	Soffit for gable projection	" " " "	" " SLS	24
# 4	1 x 8 - 12	Soffit for gable projection	" " " "	" " SLS	32

Note:- The preceding 9 items are listed rough or surfaced, etc., if rough lumber wall cover is used these will be rough; if rustic or drop siding wall cover is used order surfaced lumber as indicated. If shingle wall cover is used ordinarily these items will be rough, but occasions may arise where preferable to surface as indicated. Substitute milled bed mould for barge trim when rustic wall cover is used and add 4 pieces 18" long of 1" 1/4 round

Roof Frame and Cover, 1/3 Pitch, 18" Eaves and Gable Projections - Continued
(Elevations between 2000 - 3500 feet)

moulding for frieze trim.

# 120 B.F.	1 x 8	Sheeting gable ends 6" to weather	No.1 Common, any species	Rough	120
# 115 B. F.		OR - If rustic or drop siding wall cover is used - Rustic or drop siding (No.3 Clear, Oregon D.F. or (gable ends) ("C" Grade, California, any species			115
# 60 B. F.	1 x 4	OR - If shingle wall cover is used - Sheetting, 8" O. C. for shingles	No.2 Common, any species	Rough	60
# 1000	-	Shingles, 5" to weather	Star A Star, Red Cedar		

(0) At elevations where snowfall is less than 2 feet the items after which the mark (0) appears should not be ordered or used.

No. Pcs.	Size	Purpose & Location	Grade and Species	Finish	Bd. Ft.
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Roof Frame and Cover, 1/2 Pitch, 18" Eaves and Gable Projections
(Elevations over 3500 Feet)

# 11	2 x 6 - 16	Ceiling joists	Same as floor joists	Rough	176
# 22	2 x 8 - 14	Rafters 2' O. C.	" " " "	"	411
# 2	1 x 10 - 12	Ridge pole	No.1 Common, any species	"	20
# 5	1 x 8 - 16	Collar beams	Same as floor joists	"	54
# 4	1 x 6 - 12	Rafter ties to joist near plate	No.1 Common, any species.	"	24
#290 B. F.	1 x 4	Sheeting (Roof) 8" O.C. except 18" eaves	No.2 Common, any species	"	290
#5500	- -	Shingles 4 1/2" to weather (Roof)	Star A Star, Red Cedar		
# 3	1 x 6 - 16	Saddle boards	No. 1 Common, any species	"	24
# 6	1 x 12 - 16	Sheeting, 18" rafter projection	" " " "	Rough or S1S	96
# 4	2 x 8 - 14	Barge boards	" " " "	" " S4S	75
# 4	1 x 2 - 14	Barge board trim	No.2 Clear, " "	" " S4S	3
# 4	1 x 8 - 12	Frieze boards (gable)	No.1 Common, " "	" " S4S	82
# 3	1 x 8 - 12	Rafter Frieze (between rafters)	" " " "	" " S1S	24
# 4	1 x 6 - 12	Soffit for gable projection	" " " "	" " S1S	24
# 4	1 x 8 - 12	Soffit for gable projection	" " " "	" " S1S	32

Note:- The preceding 7 items are listed rough or surfaced, etc., if rough lumber wall cover is used these will be rough; if rustic or drop siding wall cover is used order surfaced lumber as indicated. If shingle wall cover is used ordinarily these items will be rough, but occasions may arise where preferable to surface as indicated. Substitute milled bed mould for barge trim when rustic wall cover is used and add 4 pieces 12' long of 1" 1/4 round moulding for frieze trim.

Roof Frame and Cover, 1/2 Pitch, 18" Eaves and Gable Projections - Continued
(Elevations over 3500 Feet)

#200 B. F.	1 x 8	Sheeting, 6" to weather, gable ends	No. 1 Common, any species	Rough	200
#180 B. F.		OR - If rustic or drop siding wall cover is used - Rustic or drop siding, gable end cover	"C" Grade, California, any species or No.3 Clear, Oregon D.F.		180
# 90 B. F.	1 x 4	Sheeting, for shingles gable ends	No.2 Common, any species	Rough	90
#250	- -	Shingles, 5" to weather	Star A Star, Red Cedar		

No louvre for building with 1/2 pitch roof - brackets in place of louvre.

No. Pcs.	Size	Purpose and Location	Grade and Species	Finish	Bd. Ft.
<u>Outside Trim.</u>					
* 2	4 x 4 - 16	Brackets for gables	No. 1 Common, any species	Rough or S4S	43
* 1	2 x 4 - 18	" " "	" " " " " "	" " "	8
* 2	1 x 6 - 14	Corner boards	" " " " " "	" " "	14
* 2	1 x 6 - 20	" " "	" " " " " "	" " "	20
Note:- For rough lumber and shingle wall finish, order above 4 items rough and surfaced for rustic or drop siding wall cover. Four brackets on 1/4 and 1/3 pitch roof with louvres both ends; six brackets on 1/2 pitch roof, no louvres.					
<u>Porch Material.</u>					
* 22	1 x 4 - 16	Flooring, vertical grain	No. 2 Clear; T & G; any species		118
# 32	1 x 4 - 14	Ceiling & short walls	No. 3 Clear, T & G, any species		149
OR - If rough lumber is used -					
# 9	1 x 12 - 14	Ceiling and short walls	No. 1 Common, any species	Rough or S1S	126
# 9	5/8x3 - 14	Battens (ceiling & short walls)	" " " " " "	S4S	52
* 4	1 x 6 - 14	Porch Post Finish	No. 1 Common, R.W. Y.P.	" " S4S	28
* 4	1 x 8 - 14	Porch Post finish	" " " " " "	" " S4S	39
* 1	1 x 8 - 12	Porch frieze	" " " " " "	" " S4S	8
* 1	1 x 8 - 18	" " "	" " " " " "	" " S4S	12
* 2	1 x 8 - 18	" soffit	" " " " " 2	" " S4S	21
* 2	1 x 4 - 16	" trim or skirt	" " " " " "	" " S4S	11
# 90	Lin. Ft. 1"	Quarter Round moulding for T & G finish (corner fills)			
OR					
# 90	" " 1x1	Corner fillers if rough lumber finish	No. 2 Clear, any species	Rough or S4S	8
* 1	2 x 6 - 18	Top hand rail - porch	No. 1 Common, D.F., R.W., Y.P.	" " S4S	18
* 1	2 x 4 - 18	Bottom rail	" " " " " "	" " S4S	12
* 6	1 x 4 - 14	Balusters	" " any species	" " S4S	28
(Steps)					
* 1	1 x 10 - 8	Treads	No. 2 Clear, D. F. or Y. P.	" " S4S	14
* 1	1 x 8 - 8	Risers	" " " " " "	" " S4S	6
* 1	1 x 2 - 6	Stringers	No. 1 Common, " " " "	" " S1S	6
<u>Flooring</u>					
* 20	B. F. 1 x 4	Flooring, vertical grain	No. 3 Clear, Oregon D. F. or "C" Grade, California, any species		320
<u>Inside Walls and Ceiling Cover - Choice of</u>					
# 920	B. F. 1 x 4	For ceiling and walls	"C" Grade, California, any species or No. 3 Clear, Oregon D. F.		920
OR					
# 16	1 x 12 - 16	Ceiling	No. 1 Common, any species	Rough or S1S	256
# 26	1 x 12 - 16	Sidings (inside)	" " " " " "	" " S1S	476
# 15	5/8x3 - 16	Battens (ceiling)	" " R.W., C.-Y.P.	" " S4S	60
# 24	5/8x3 - 16	" (siding)	" " " " " "	" " S4S	96
OR					
# 900	B. F. 8"	Shiplap	"C" Grade, California; any species or No. 3 Clear, Oregon, D. F.		900
Note:- Add to the lumber order your choice of above wall and ceiling cover and specify rough or surfaced as indicated.					
<u>Inside Trim.</u>					
# 156	Lin. Ft. 1"	Quarter round moulding - corner fillers - (when surfaced wall and ceiling cover is used)			
# 156	" " 1x1	Strips - Corner fillers - (when rough ceiling and wall cover is used)	No. 2 Clear	Rough	
* 3	1 x 6 - 16	Base boards	No. 2 Clear, Y. P.	S4S	24
* 1	1 x 6 - 12	" " "	" " " "	S4S	6

No. Pcs.	Size	Purpose & Location	Grade and Species	Finish	Dd.Ft
Window and Door Frames, Complete, including inside and outside casings, stops blind stops, parting strips, stool and aprons - if made on the job					
# 1	2 x 10 - 16	Sills for 1x8 lapped siding	No. 2 Clear, D. F., Y. P.,	OSIS	27
# 1	2 x 8 - 16	Sills for rustic, shingles or drop siding	No. 2 Clear, " " "	OSIS	21
# 4	1 x 8 - 16	Jamba for 1x8 lapped siding	No. 2 Clear, Y.P., R.W., or Cedar	OSIS	43
# 4	1 x 6 - 16	Jamba for rustic, shingle or drop siding	No. 2 Clear, Y.P., R.W., or Cedar	OSIS	32
# 2	1 x 4 - 12	Stools and apron (inside)	" " " " " "	OSIS	8
# 3	1 x 6 - 16	Casings (outside)	" " " " " "	OSIS	24
# 3	1 x 2 - 12	Blind stop	" " " " " "	OSIS	36
# 6	1 x 1 - 12	Parting strip	" " " " " "	OSIS	36
# 3	1 x 4 - 16	Casing (inside)	" " " " " "	OSIS	16
# 1	1 x 1 1/2 - 16	Door and window stops	" " " " " "	OSIS	1

Note:- If surfaced material is not available, buy rough and surface by hand when desirable.

If mill or factory made frames can be purchased, buy them in lieu of the above material. (See Mill Order List - Doors and Windows.)

Mill Order List - Doors and Windows

* 1	2'8" x 6'8" - 1 1/2"	Colonial, one light 24"x26", 21 oz. glass, 3 cross panel door - (See Cut No. B.W.M.-3)			
* 1	23 x 6'8" - 1 1/2"	Colonial; 5 cross panel door			
* 1	3' x 3' - 1 1/2"	Lip rail, 2 light, 21 oz. glass windows			
* 2	2'6" x 4'6" - 1 1/2"	" " " " " " " "			
If mill or factory made frames can be purchased, order -					
# 1	Frame for 2'8" x 6'8" - 1 1/2"	outside door (with sill) Complete with inside and outside trim			
# 1	" " 2' x 6'8" - 1 1/2"	inside door (no sill) Complete with inside and outside trim			
# 1	" " 3' x 3' - 1 1/2"	window; lip rail (no weights) " " " "			
# 1	Double Frame for 2 - 2'6" x 4'6" - 1 1/2"	lip rail window (no weights) Complete with inside and outside trim			

Note:- Specify thickness of walls for each door and window frame and submit with each order a blue print of Detail 6-D.

Specify 1"x6" for outside casing and 1"x4" for all inside casing.

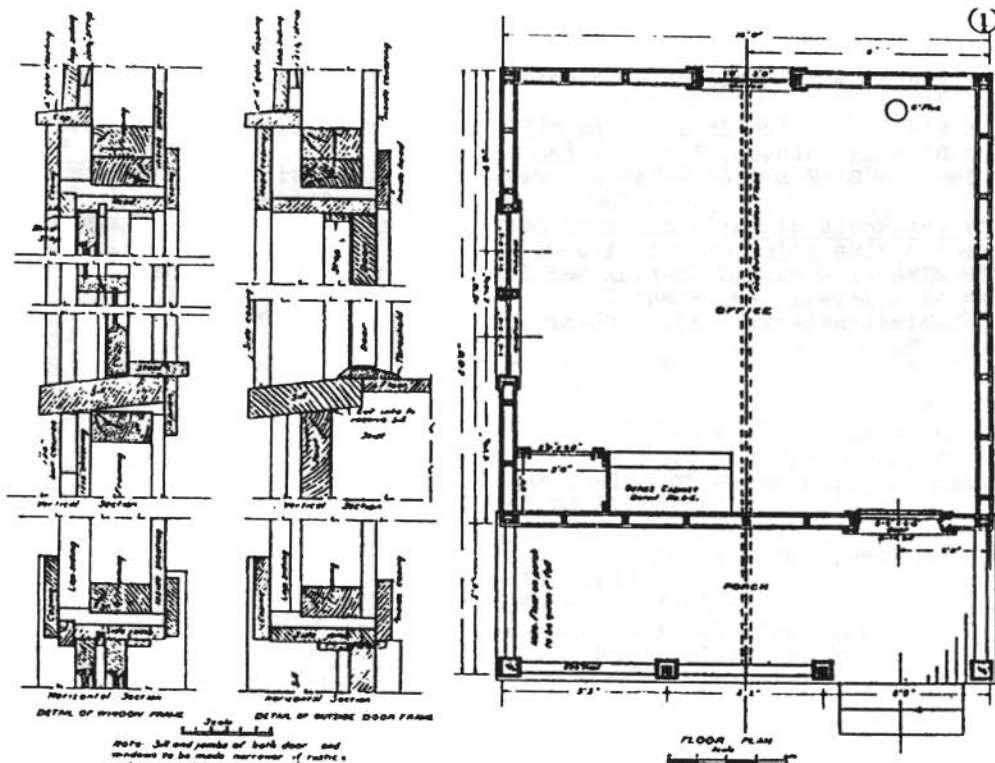
Office Cabinet. (See Detail 6-G, Sheet 1)

* 5	1 x 12 - 16	Cabinet material	No. 2 Clear, Y.P., D.F., R.W., or Cedar	S4S	80
* 1	1 1/2 x 12 - 8	" " " " " "	" " " " " "	S4S	12
* 1	1/2 x 14 - 12	" " " " " "	" " " " " "	S4S	14

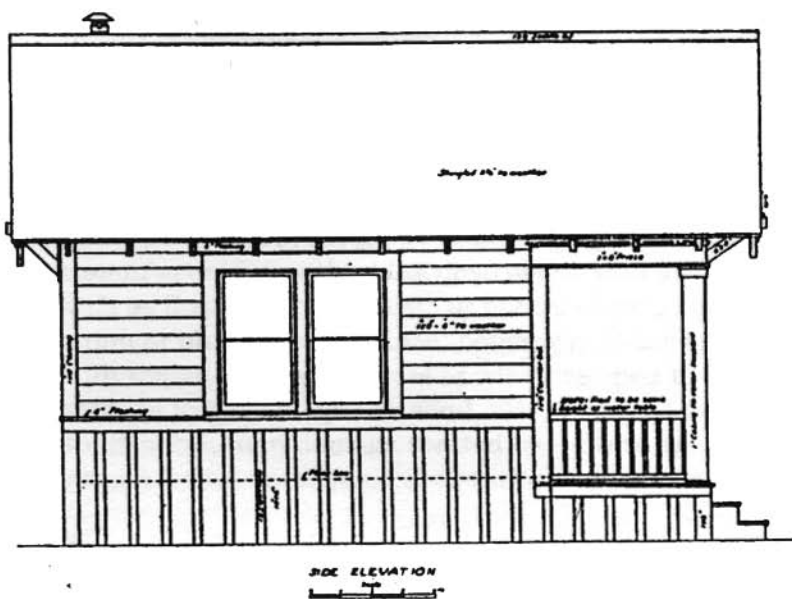
Hardware List.

- 4# 30d. common wire, frame nails
- 15# 20d. " " " "
- 40# 10d. " " " "
- 5# 8d. " " " "
- 20# 3d. fine galvanized nails, for roof
- 2# 2d. " " " " over eave projections
- 5# 10d. casing nails, frames and finish
- 9# 8d. " " flooring and miscellaneous use
- 1# 4d. finish nails; miscellaneous use
- 15# 10d. common nails; if 1x8 lapped wall cover is used
- 12# 8d. " " if rustic " " " "
- 10# 3d. fine galvanized nails, if shingle wall cover is used
- 5# 8d. common nails, for sheeting if shingle wall cover is used
- 6# 8d. " " if interior walls and ceiling are of rough lumber
- 4# 6d. " " if battens for interior walls and ceiling are of rough lumber
- 10# 6d. casing nails if T & G 1x4 wall and ceiling cover is used
- 6# 6d. " " if shiplap " " " "
- 3 Cupboard door catches # 4800 A.C.
- 3pr. " " hinges # 1474 D-2, 2"
- 2 Drawer pulls # 5074 A.C.
- 1pr. Half surface hinges 3 1/2" # 160 D-2, A.C.
- 1 Rim knob latch # 8052, knob # 9241
- 6pr. Window spring bolts
- 11' 4" Galvanized flashing (30 gauge)

Numbers following items of hardware are Pacific Hardware and Steel Company's Catalogue numbers. See hardware list in Builder's Material Section.



③



PLAN No. 1D
1 ROOM OFFICE
12' 0\" x 12' 0\"
U. S. FOREST SERVICE
DISTRICT No. 6

④

