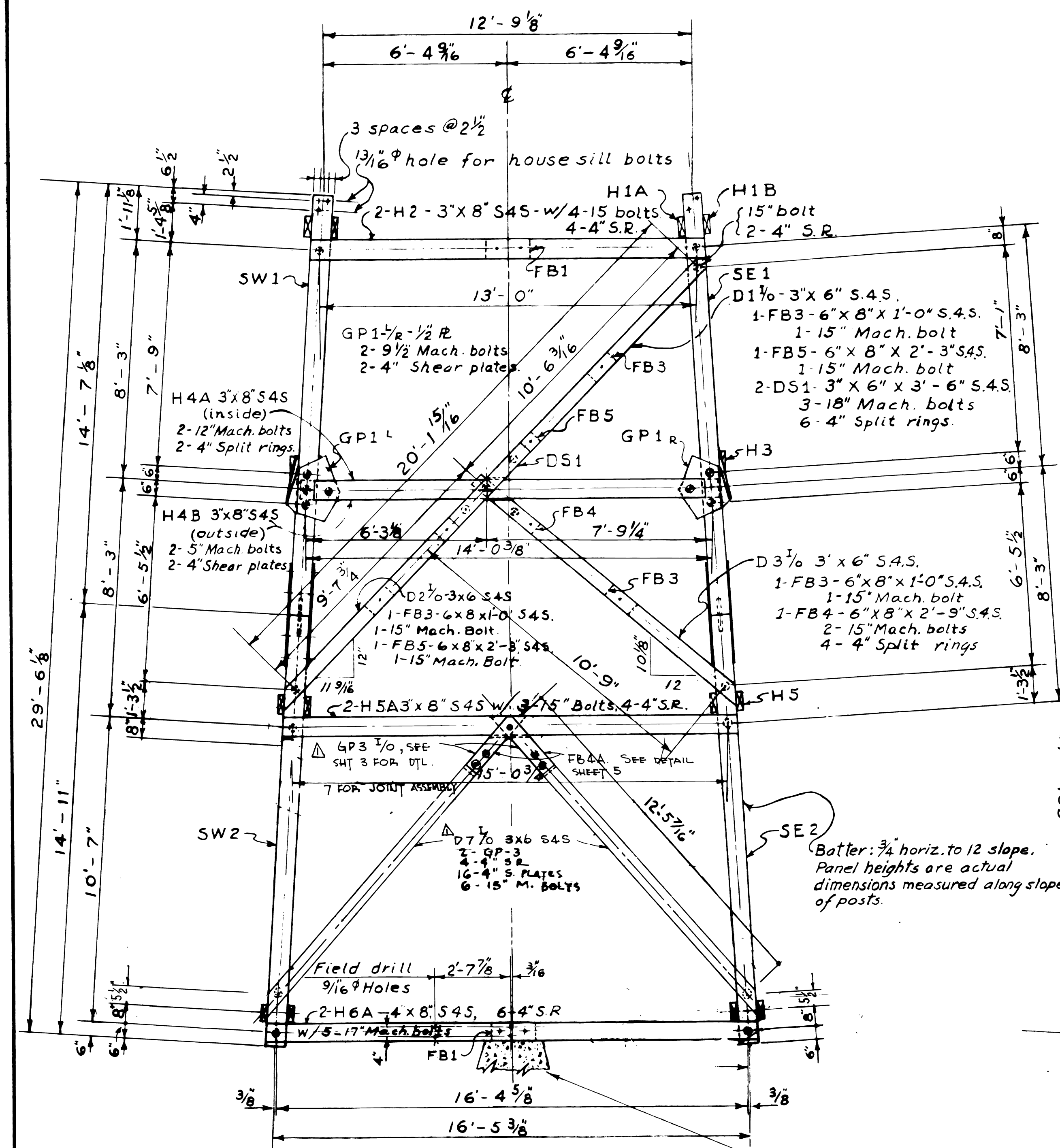
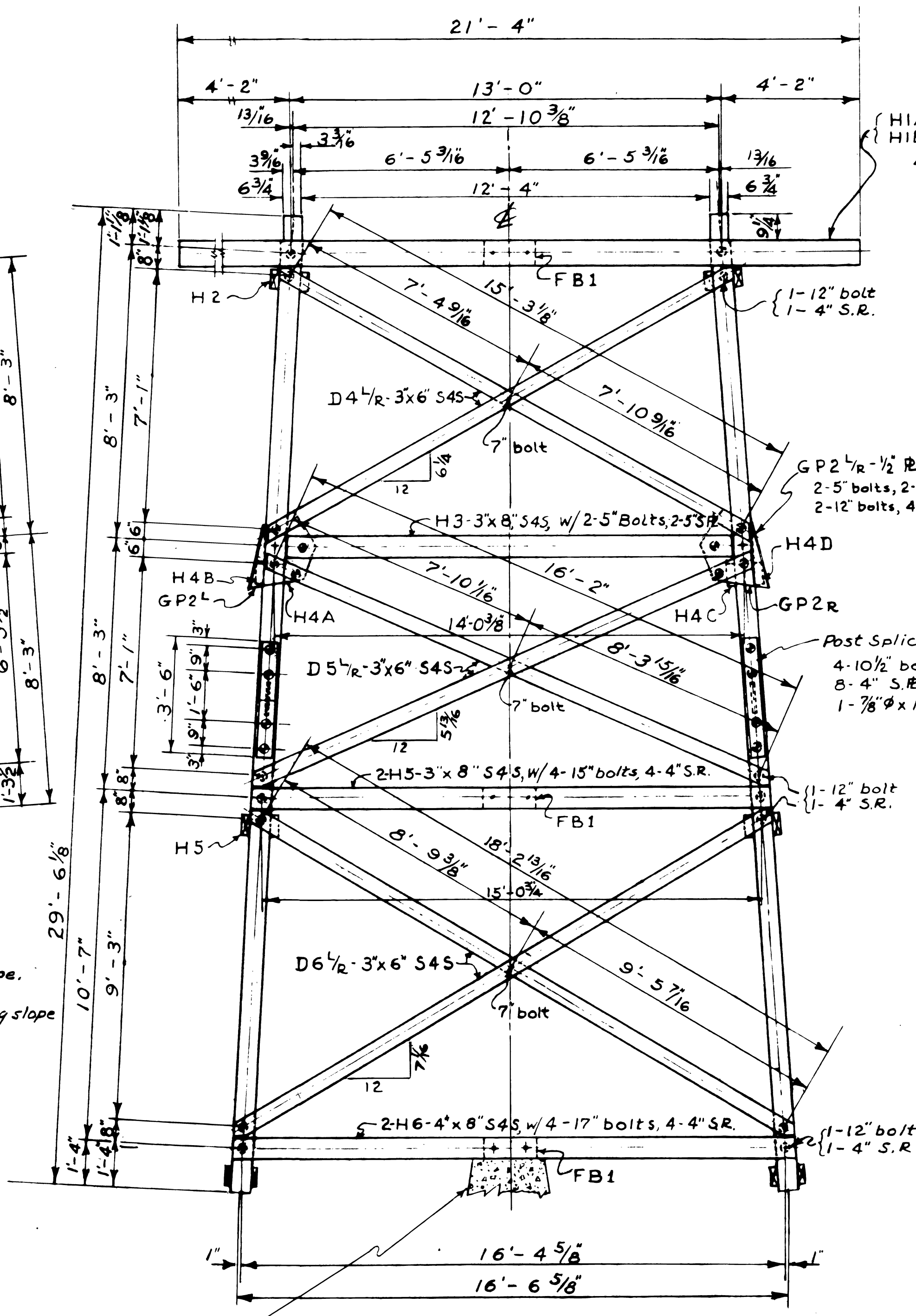


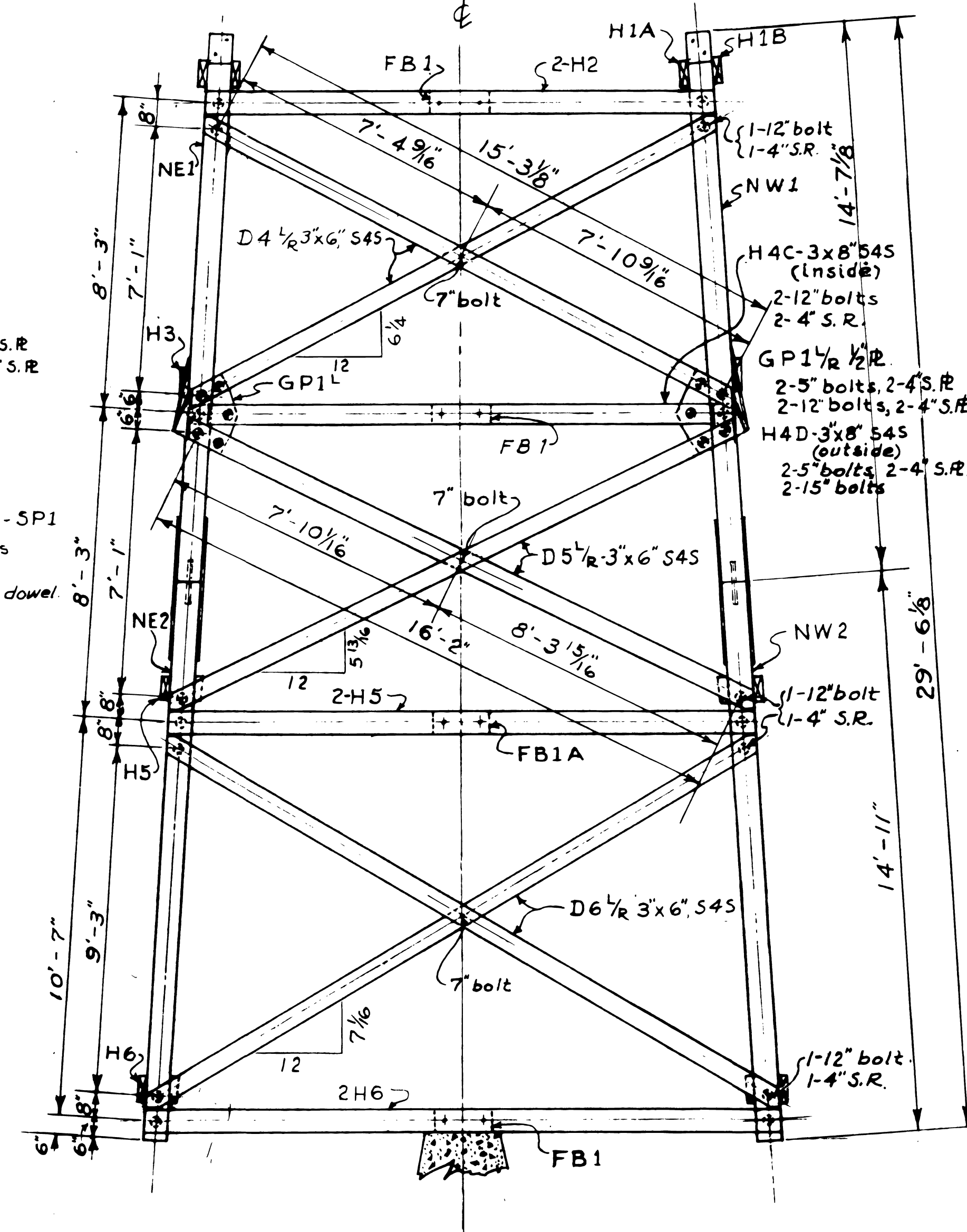


FACE "S"

Note: Concrete block under all bottom horizontals for snow support.



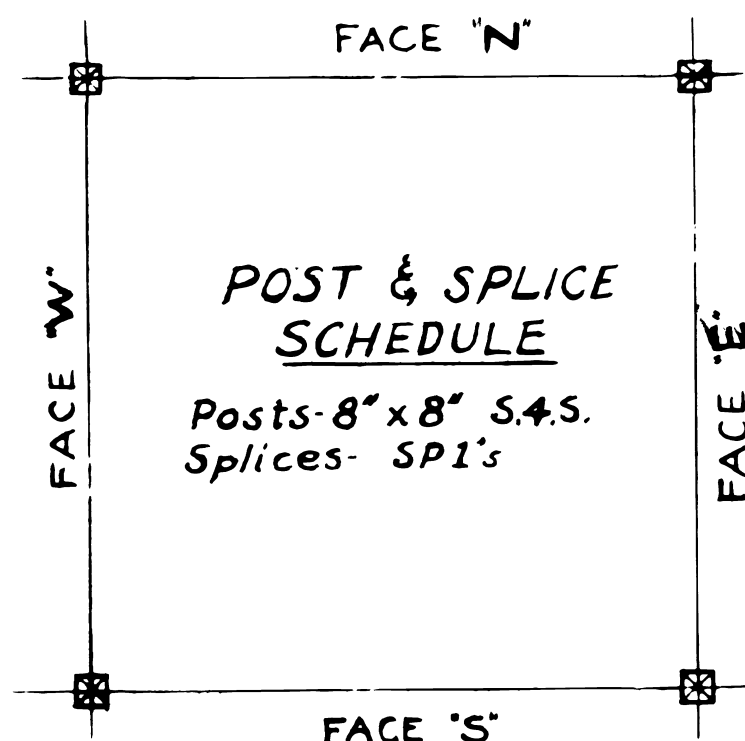
FACE "E" & "W"



FACE "N"

POST	SPLICE
NW1	SP1
NW2	

POST	SPLICE
SW1	SP1
SW2	



POST	SPLICE
NE1	SP1
NE2	

POST	SPLICE
SE1	SP1
SE2	

DESIGN DATA

- Loading: (a) 30 lbs. per sq. ft. on projected area of 14' x 14' or 15'-4" x 15'-4" house.
 (b) 30 lbs. per sq. ft. on 1/2 times projected area of tower frame.
 (c) 30 lbs. per sq. ft. on full projected area of stairs.
 (d) Assumed dead load of house 12,000 lbs.

Stresses: Stresses shown on Sheet 8 are design stresses.
 Guy stresses shown are components in plane of tower faces.

Timber Design: In accordance with No. 15 Grading Rules of W.C.L.A. for Select Structural Coast Douglas fir and National Design Specification for Stress-Grade Lumber and its Fastenings 1953 of the N.L.M.A.

NOTE

Except as noted, all bolt holes drilled 13/16" for 3/4" galvanized machine bolts. Bolts in joints are not to be tightened until all members of joints are assembled. See Bill of Hardware for size, length and location of galvanized machine bolts, split rings, shear plates and carriage bolts.

LEGEND
 Bolts = Machine bolts with malleable iron washers.
 S.R. = Split ring connectors.
 S.P. = Shear plate connectors.

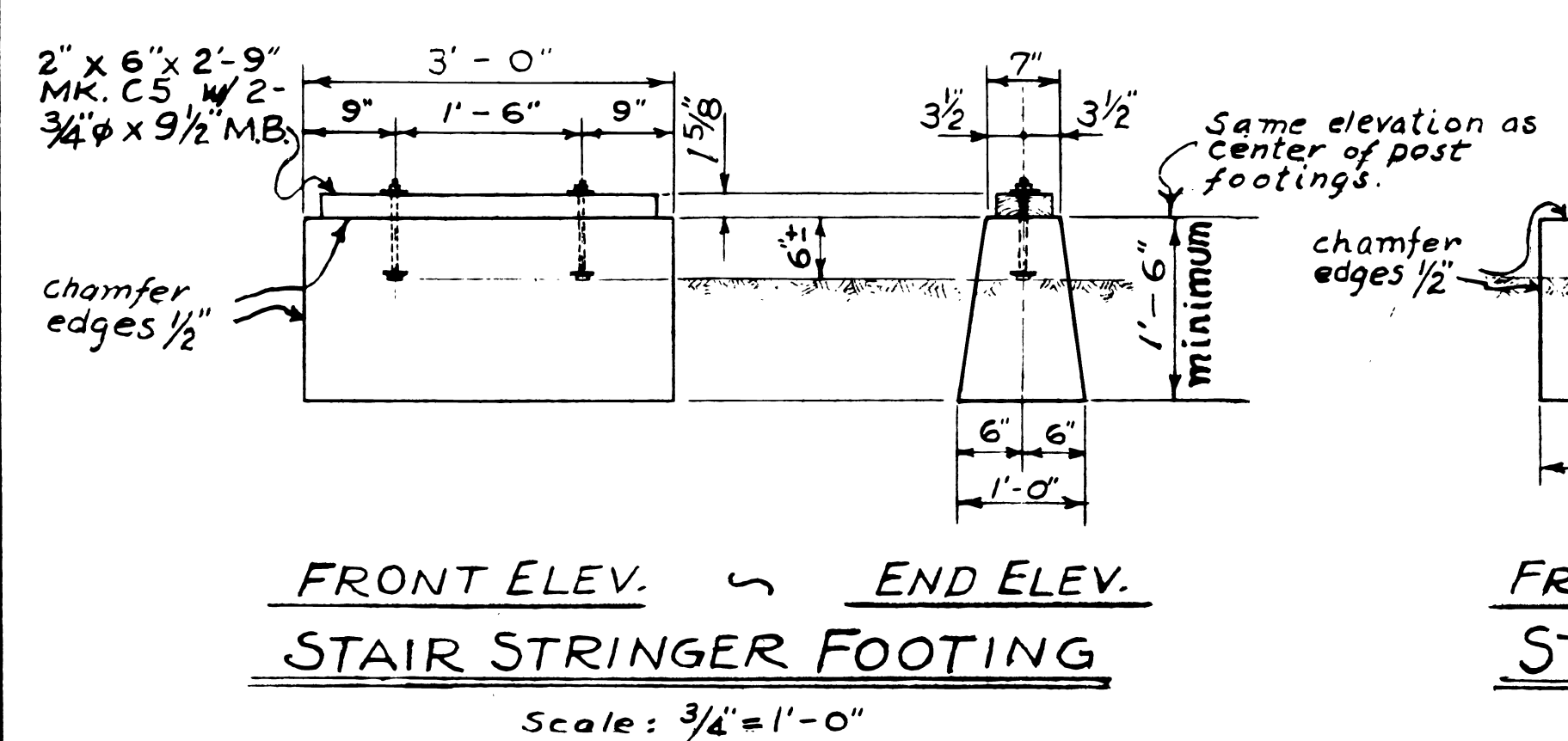
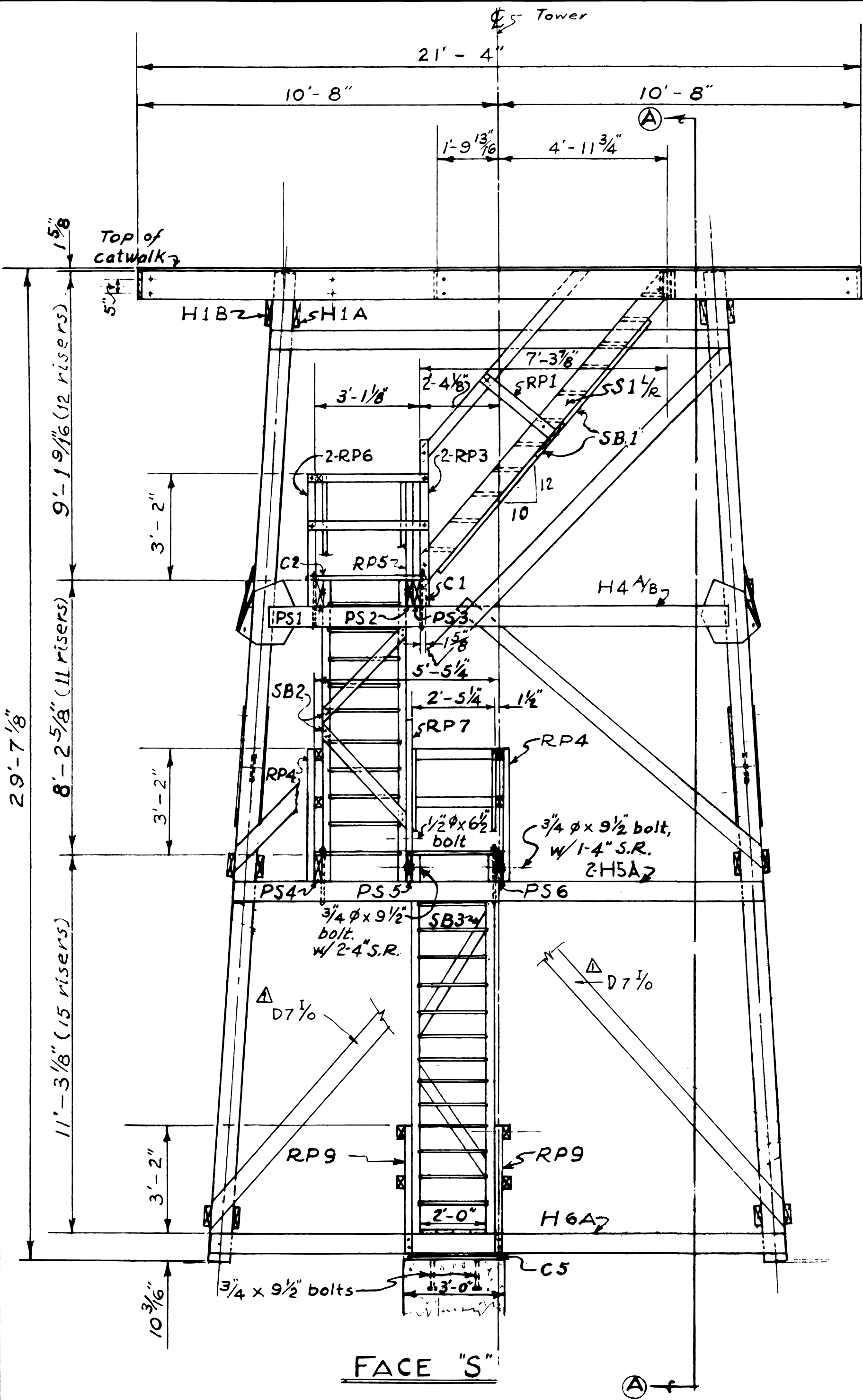
REV. 6-3-63 D7 1/2 DIM. L.E.M

DELETED D7 1/2, D8 1/2 & FB1A, ADDED NEW D7 1/2, FB4A & 2 #A & 1/2" x 2'-6" 3-6-64 J.M.

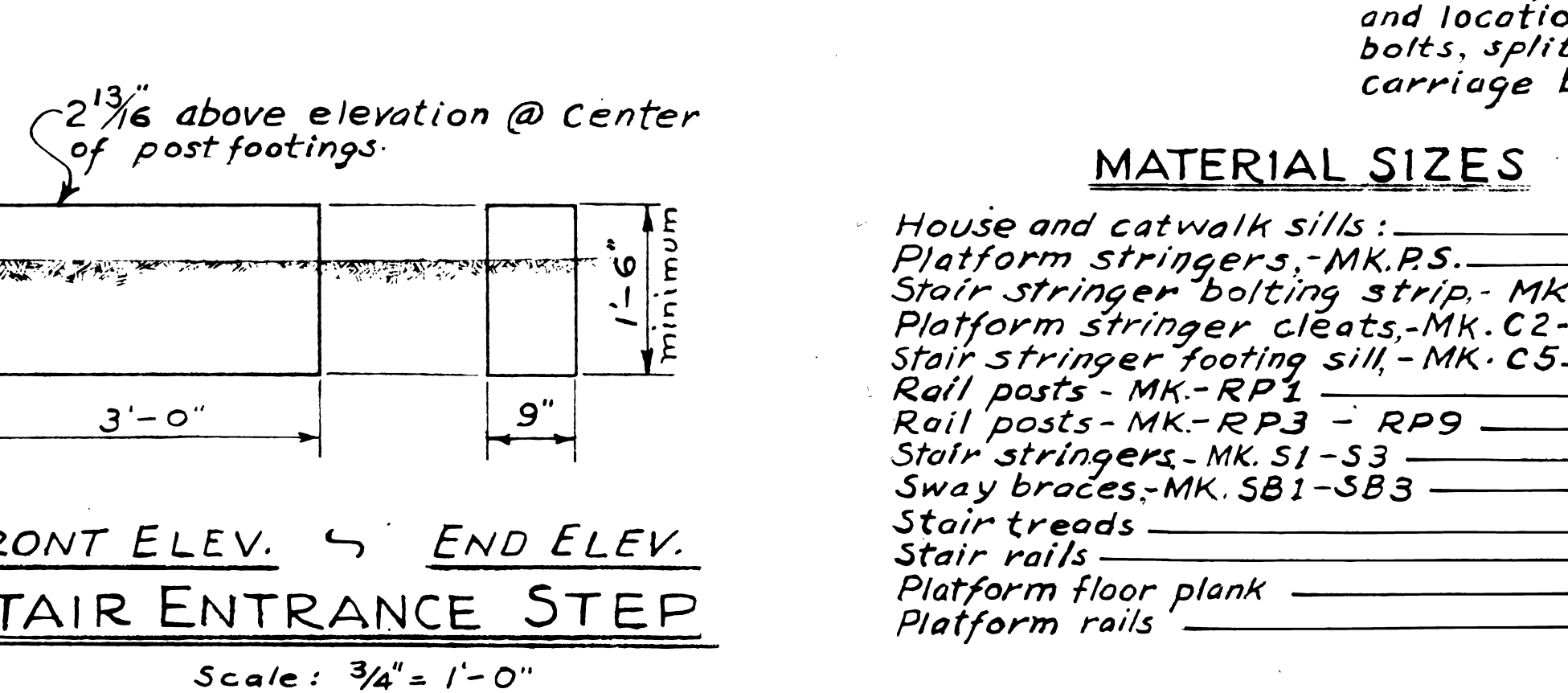
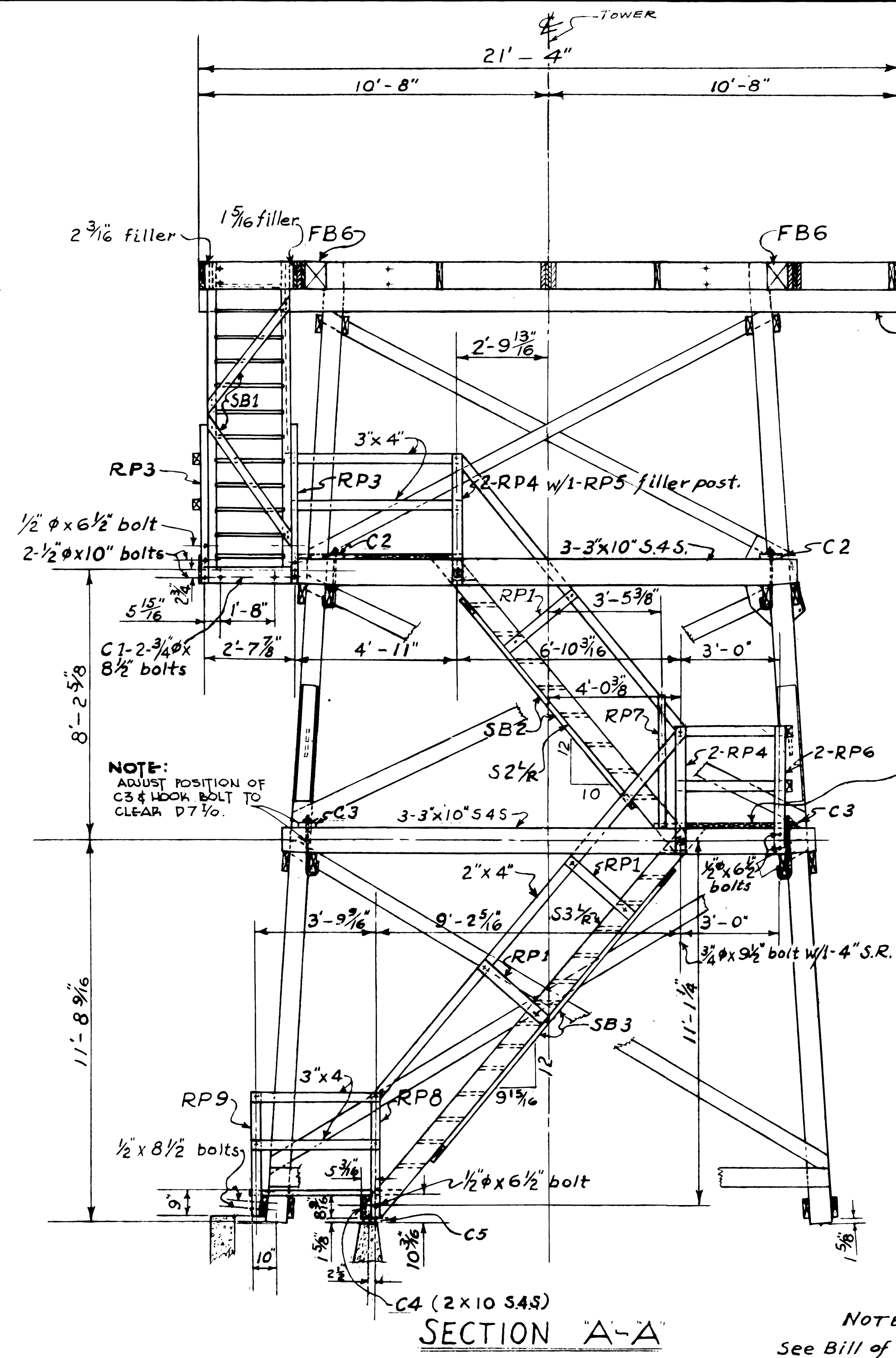
U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
 REGION SIX R. F. GREFE REGIONAL ENGINEER

30-FOOT TYPE TT-1
TREATED TIMBER LOOKOUT TOWER
 FOR 14'-0" x 14'-0" or 15'-4" x 15'-4" HOUSE
GENERAL ELEVATIONS

DESIGNED: O.M.H. DRAWN: J.P.B. CHECKED: R.M.A.
 SCALE: 3/8" = 1'-0" DATE: 1-15-1964
 APPROVED: J.M. ASSISTANT REGIONAL FORESTER



NOTE: See sheet 3, Foundation Layout, for location of stair stringer footing and stair entrance step.



NOTE: See Bill of Hardware for size length and location of galvanized machine bolts, split rings, shear plates and carriage bolts.

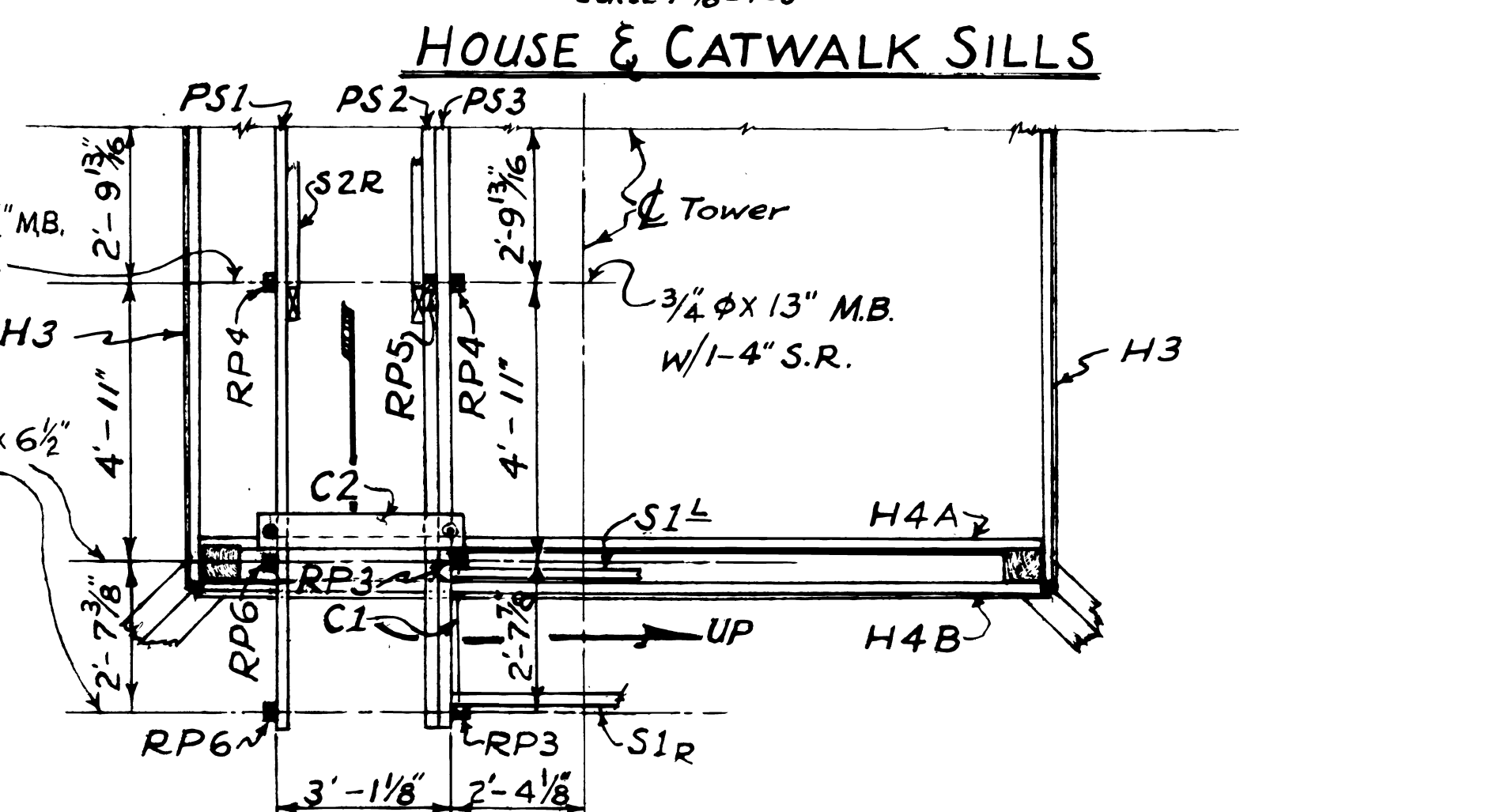
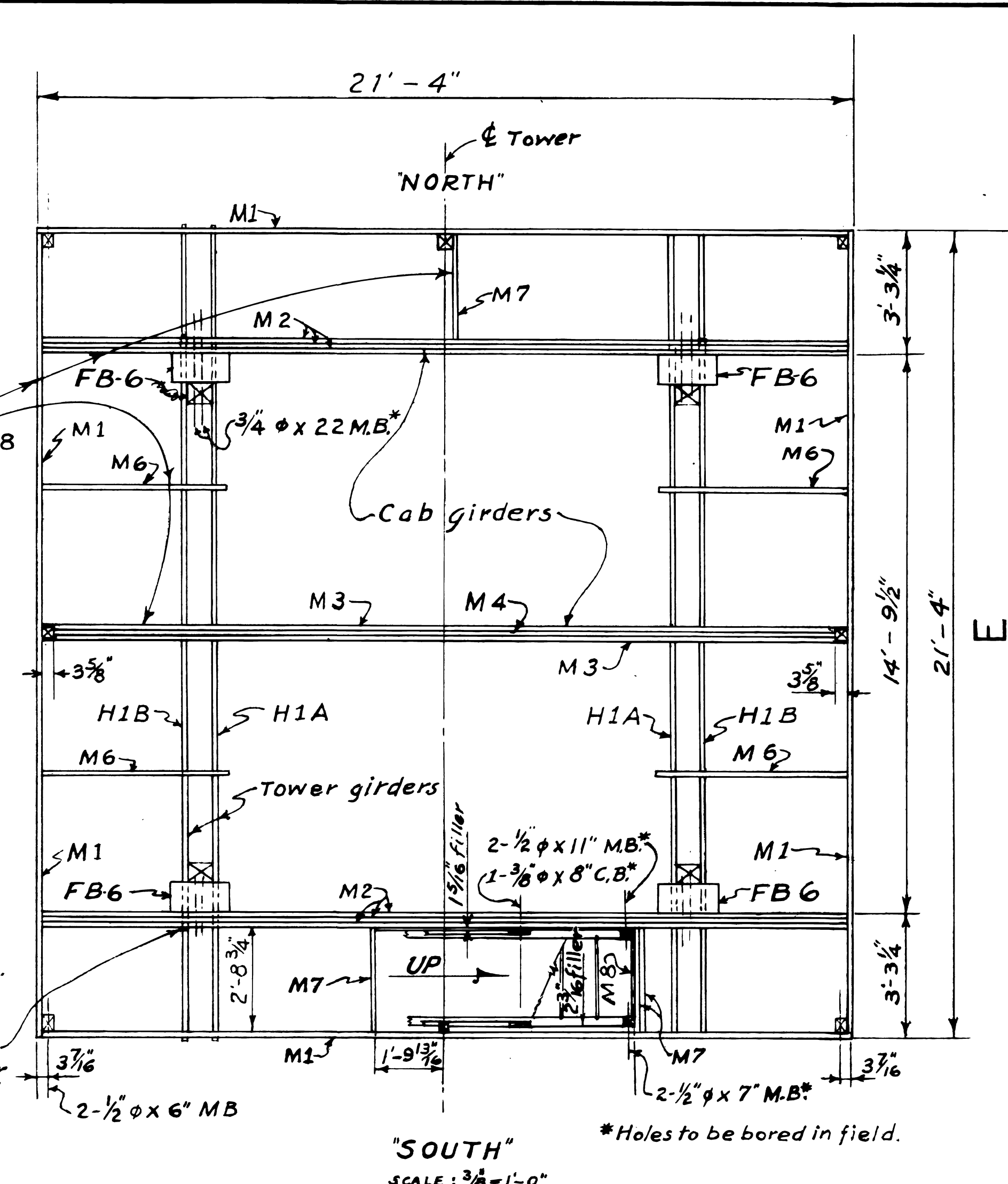
MATERIAL SIZES

House and catwalk sills	2"x10" S4S	Treated
Platform stringers, MK-PS	3"x10" "	"
Stair stringer bolting strip, MK-C1	2"x6" "	"
Platform stringer cleats, MK-C2-C3	2"x8" "	"
Stair stringer footing sill, MK-C5	2"x6" "	"
Rail posts, MK-RP1	2"x4" "	"
Rail posts, MK-RP3 - RP9	3"x4" "	"
Stair stringers, MK-S1-S3	3"x8" "	"
Sway braces, MK-SB1-SB3	2"x4" "	"
Stair treads	2"x10" S4S	Untreated
Stair rails	2"x4" "	"
Platform floor plank	2"x6" "	"
Platform rails	3"x4" "	"

NOTE: MEMBERS M-1 thru M-8 to be furnished by others.

Platform plank and platform stringer cleats to be nailed to each stringer with two 20# nails w/ cup of plank down. Stair treads to be nailed with two 20# nails each.

2-3/4" x 7 1/2" M.B. For 3"x1/2" anchor plate furnished with house.



DELETED D7 1/2, ADDED D7 1/2 28 FEB 62 R.J.R.

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE

REGION SIX R. F. GREFE REGIONAL ENGINEER

30-FOOT TYPE TT-1
TREATED TIMBER LOOKOUT TOWER
FOR 14'-0" x 14'-0" OR 15'-4" x 15'-4" HOUSE

STAIR DETAILS

DESIGNED O.M.H. DRAWN P.W. COOK TRACED
SCALE 3/4" = 1'-0" EXCEPT AS NOTED CHECKED O.M.H.
APPROVED R. F. GREFE DATE 1-15-60
ASSISTANT REGIONAL FORESTER

NOTE:

FACE
"N"

This dimension, for each guy, is determined in the field to suit a connection on tower.

To be determined field. (11 ft. min.)

1" ϕ x 12" dowed
on $\frac{3}{4}$ " to 12 batter

VIEW "A"-A VIEW "B"-B
CONCRETE POST FOOTING

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

SNOW POST "U"-BOLT

Required, Galvanized.
SCALE: $\frac{3}{8}'' = 1'$

GP1 FACE GP2 FACE

ASSEMBLY BLOCK

SCALE: 1" = 1' - 0"

PLATFORM STRINGER

HOOK BOLT
Required - Galv

SCALE: 1" = 1'-0"

CONCRETE GUY ANCHOR

4 Required
SCALE: 1/4

Fit around
string $\rightarrow$ $11\frac{1}{16}$ Rad.

NOTE: SEE GUY ROPE SAG CURVE & DIAGRAM, SHEET 7.

6D3 - (ONNECTS D7 & U5A

FABRICATE 2 EA FROM $5/16"$ R. GALV. AFTER FAB.

CONCRETE QUANTITIES
(minimum depths shown on the details)

CONCRETE QUANTITIES
(For minimum depths shown on the details)

<u>LOCATION -</u>	<u>NO. REQUIRED -</u>	<u>UNIT QUANTITY</u>	<u>TOTAL QUANTITY</u>
-------------------	-----------------------	----------------------	-----------------------

Post Footings.	4	0.42 cu. yds.	1.67 cu. yds.
----------------	---	---------------	---------------

Guy Anchors.	4	1.49	"	"	5.97	"	"
--------------	---	------	---	---	------	---	---

Stair stringer Ftg. 1 0.14 " " 0.14 " "

Stair Entrance step. 1 0.12 " " 0.12 " "

Snow Post Footings, 4 0.17 " " 0.67 " "

Total Concrete 8.57 cu. yds.

REV DIM GP3	G-4-G3	LEM
 ADDED CONNECTION DETAIL D7% TO H5A- MARK GP3 VONA	28 FEBRU 96-68 R.J.R.	
U. S. DEPARTMENT OF AGRICULTURE FOREST SERVICE		
REGION SIX	R. F. GREFE	REGIONAL ENGINEER

**30 FOOT TYPE TT-1
TREATED TIMBER LOOKOUT TOWER
FOR 14'-0" x 14'-0" or 15'-4" x 15'-4" HOUSE
DETAILS of
FOUNDATION & HARDWARE**

DESIGNED R.M.H. DRAWN P.W. COSTRUCED -
SCALE AS NOTED CHECKED R.M.H.
APPROVED R. S. *[Signature]* DATE 1-15-1962

NOTE:

Fabricate, assemble & bore pin holes for one each of the Following assemblies:

GP1R & GP2L	- Matchmark	A
GP1R & GP2L	"	B
GP1L & GP2R	"	C
GP1L & GP2R	"	D

Assemblies A, B, C, & D, to be bolted to assembly block similar to above detail views. Pin hole to be bored w/ plates in assembled position, after which plates are to be stamped for plate & match marks in a manner which will be readily visible after galvanizing.

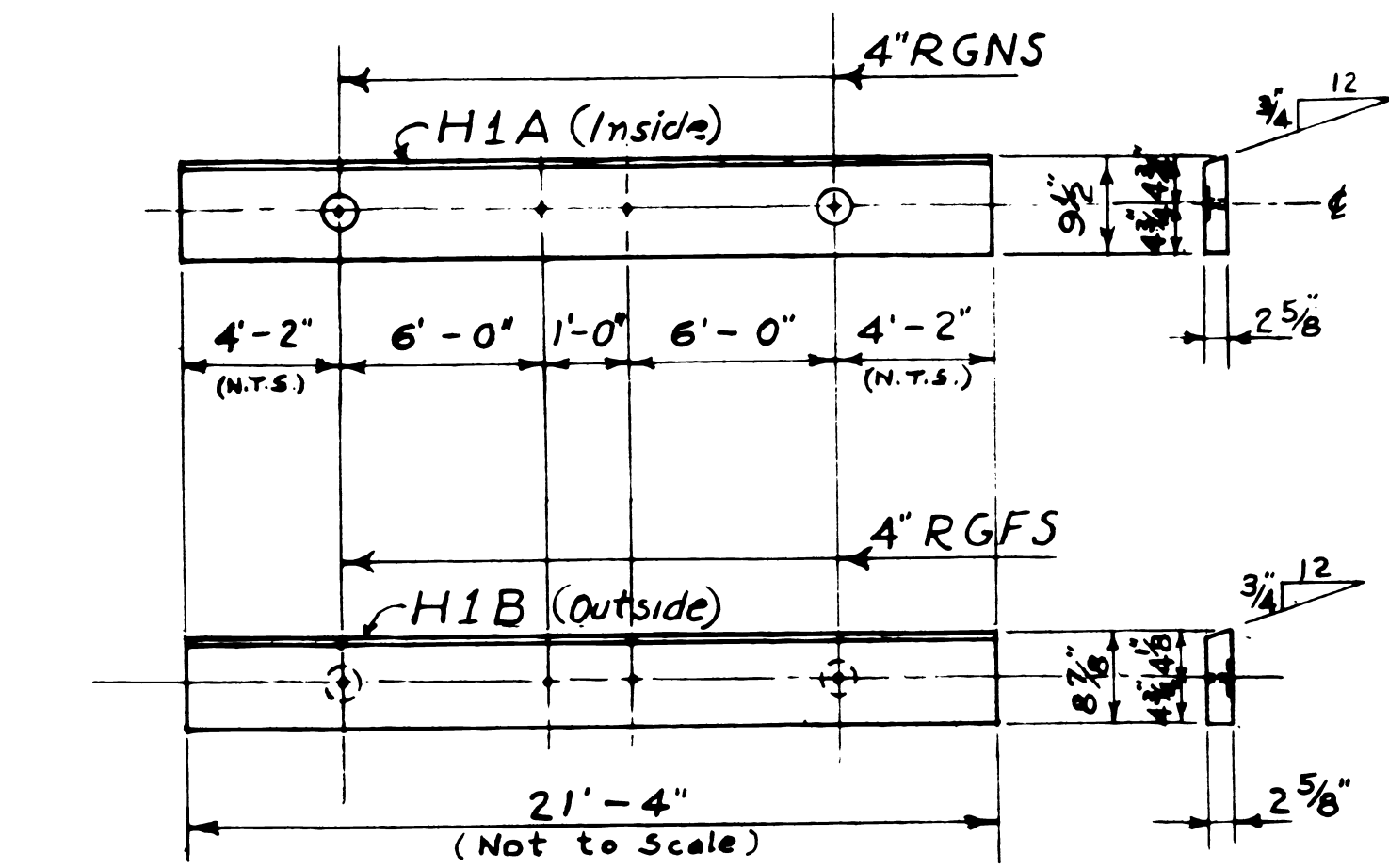
DETAIL VIEWS of GUY CONNECTION TO GUSSET PLATE ASSEMBLY

S C A L E: $1\frac{1}{2}" = 1' - 0"$

LT L22093196003

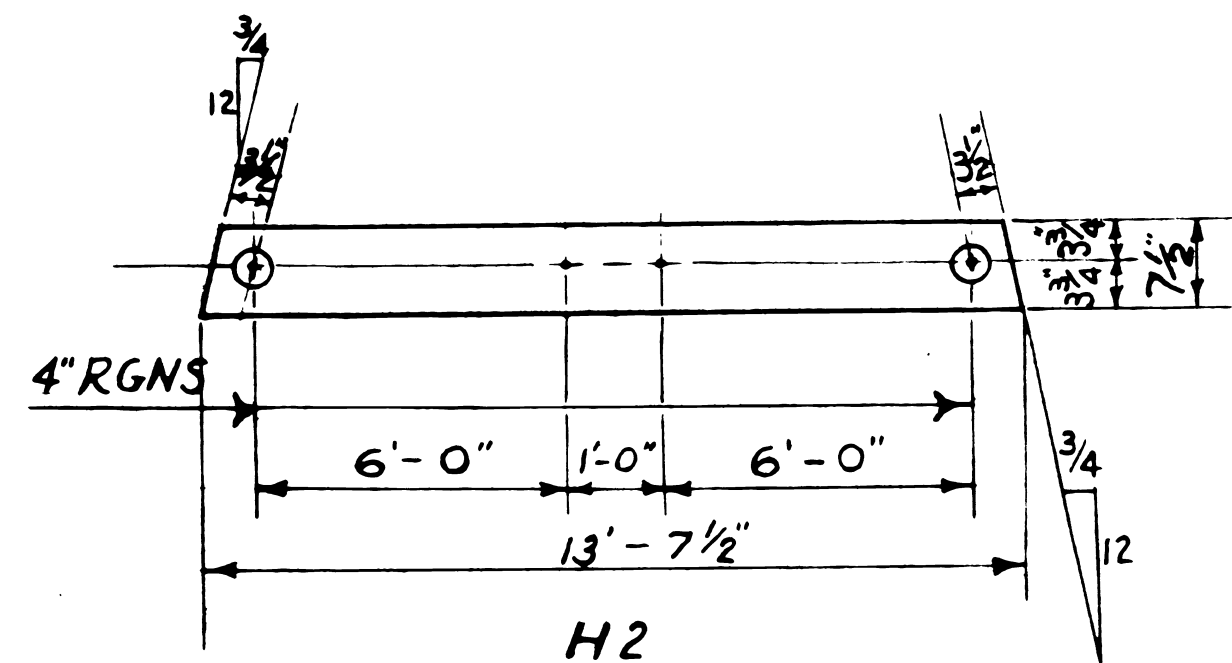
SHEET 3 OF 7

L-22093

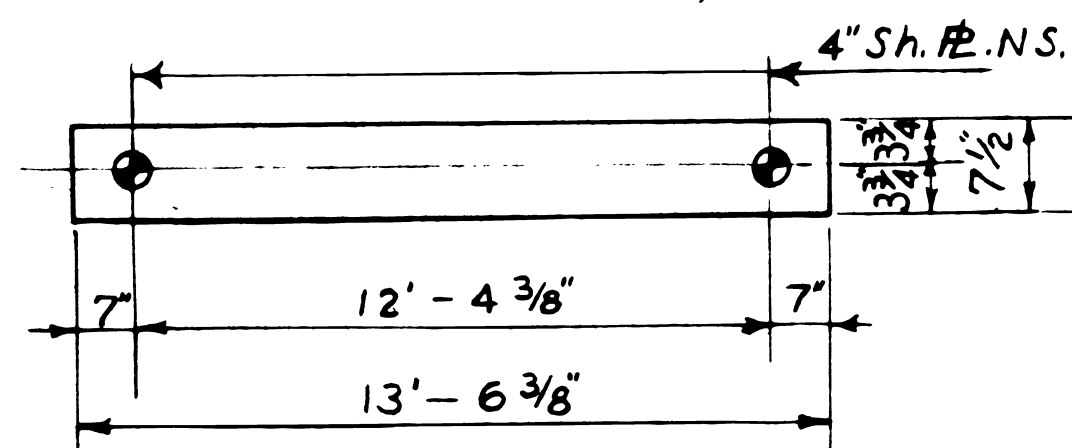


H1A
Make 2-3"x10", S4S

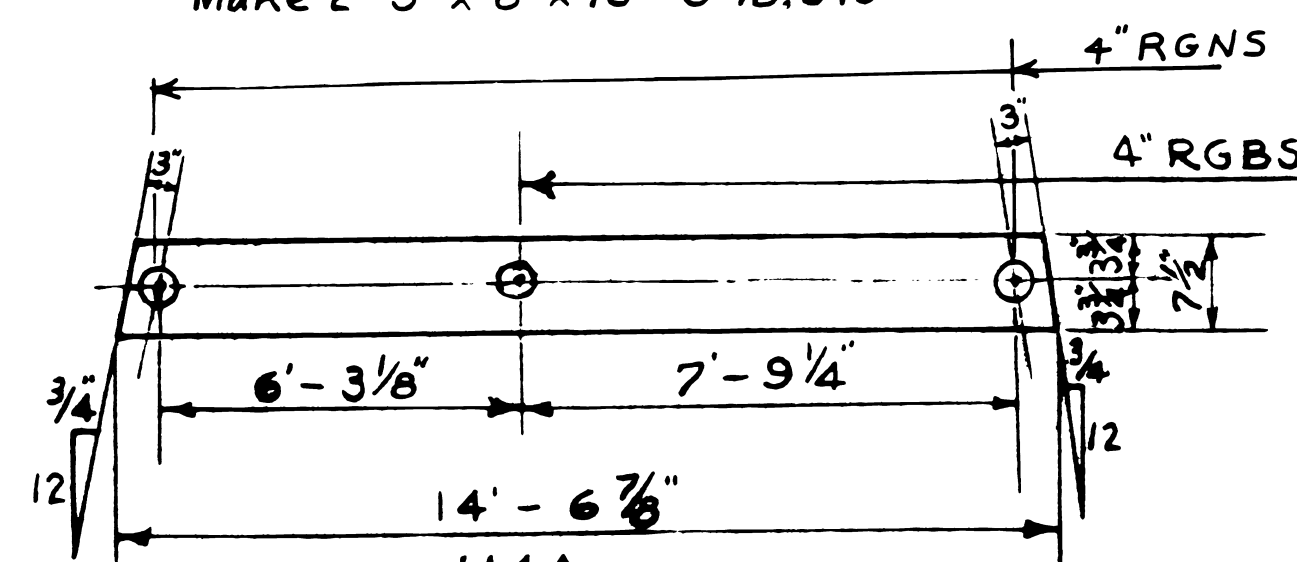
H1B
Make 2-3"x10", S4S



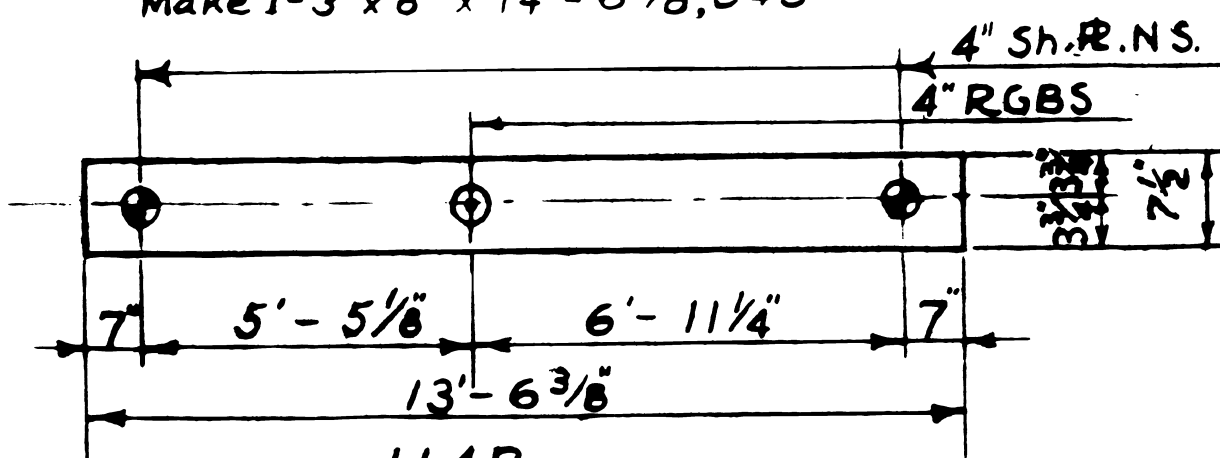
H2
Make 4-3"x8"x13'-7 1/2", S4S



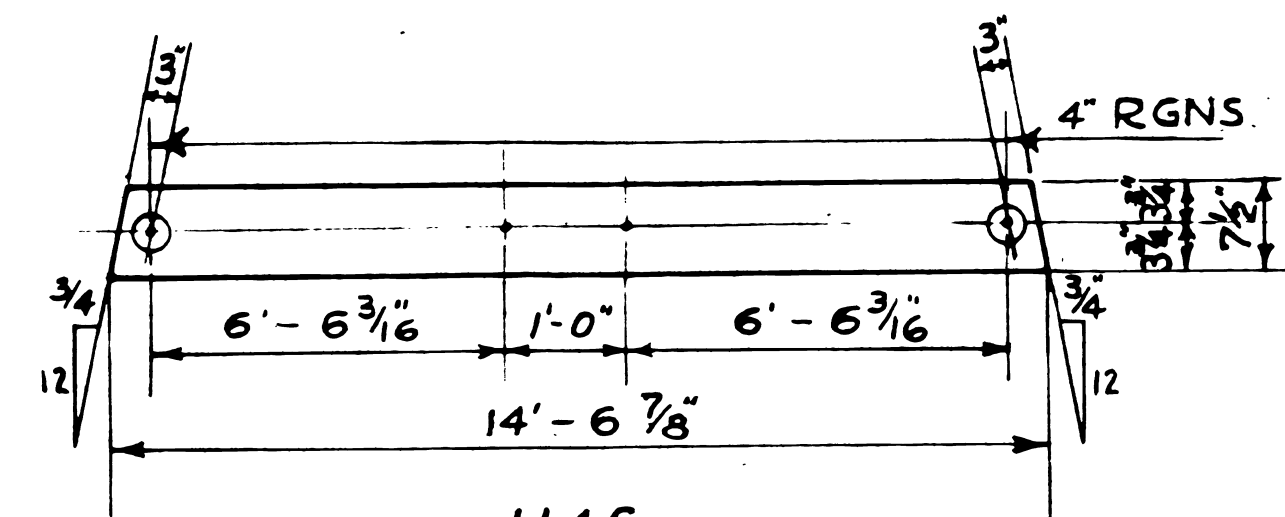
H3
Make 2-3"x8"x13'-6 3/8", S4S



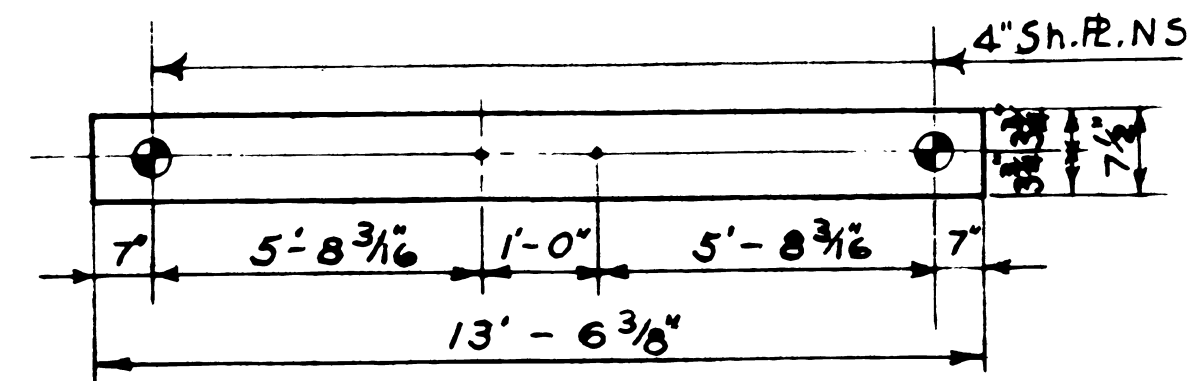
H4A
Make 1-3"x8"x14'-6 7/8", S4S



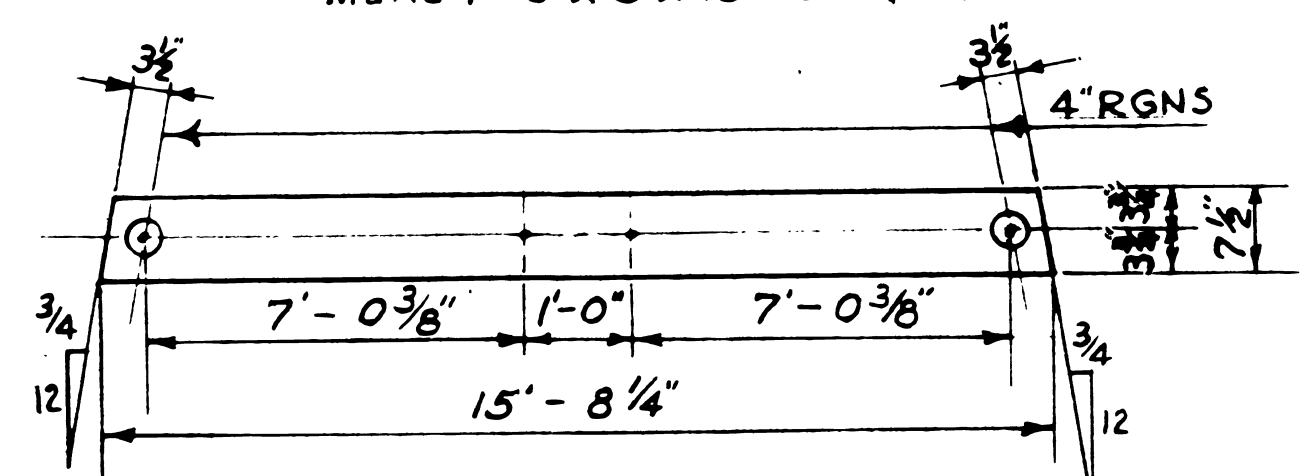
H4B
Make 1-3"x8"x13'-6 3/8", S4S



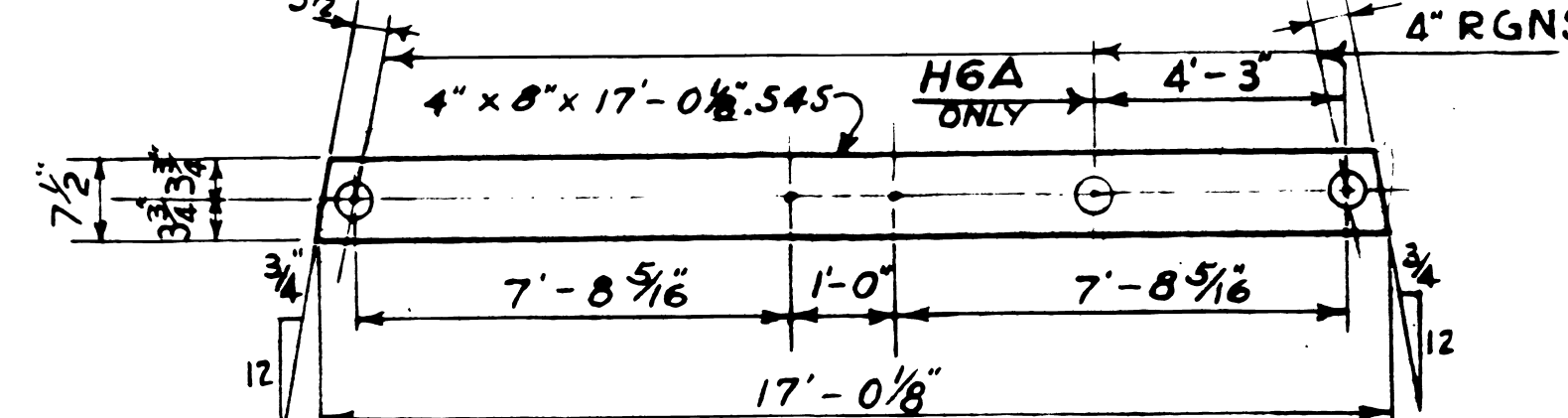
H4C
Make 1-3"x8"x14'-6 7/8", S4S



H4D
Make 1-3"x8"x13'-6 3/8", S4S

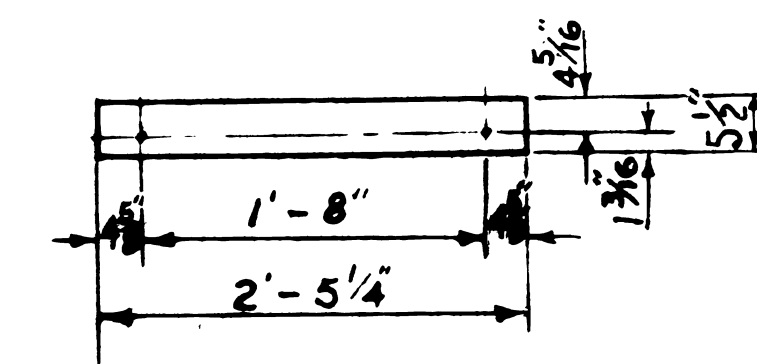


H5
Make 6-3"x8"x15'-8 1/4", S4S

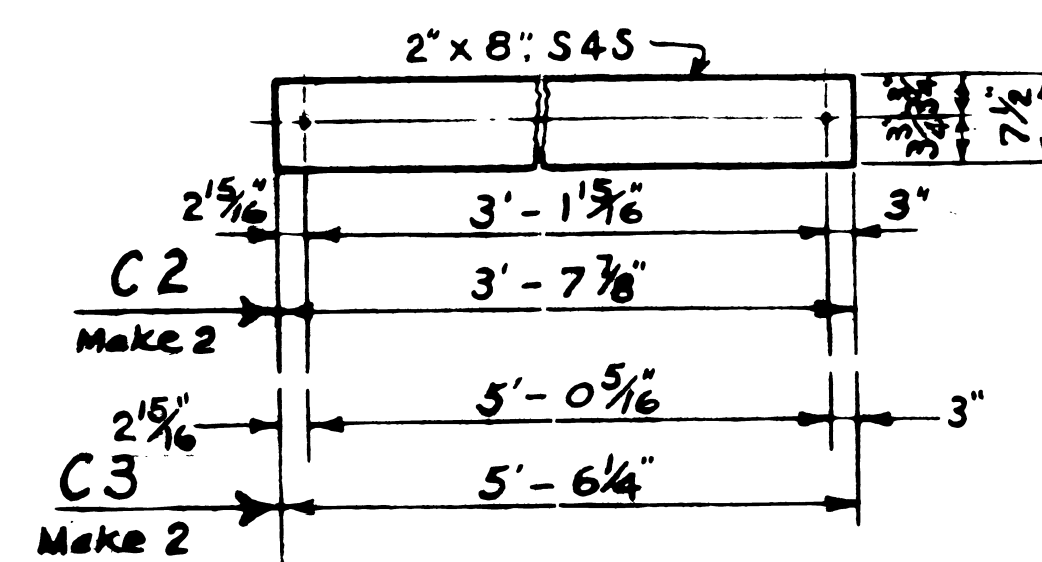


H6
Make 6 as noted

H6A
Make 1 as noted
Make 1 opp. Hand

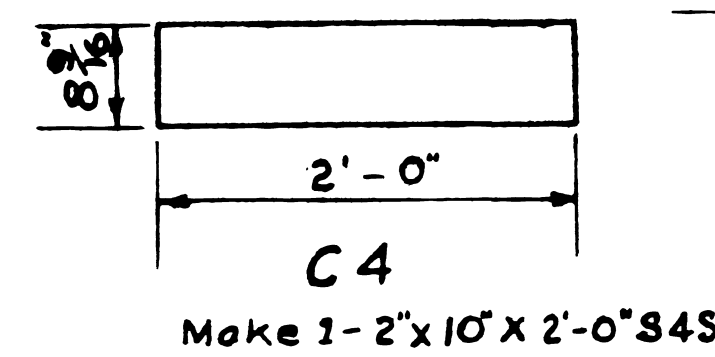


C1
Make 1-2"x6"x2'-5 1/4", S4S

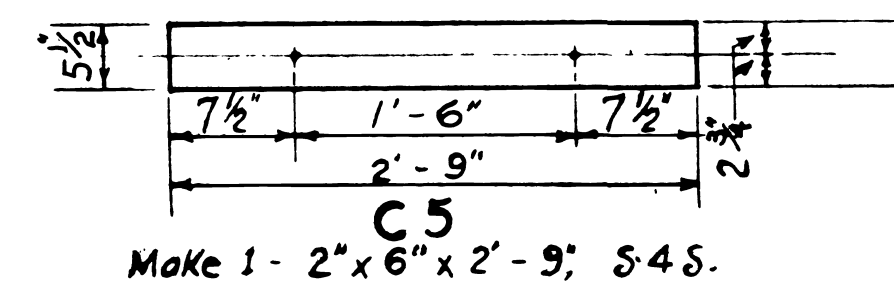


C2
Make 2

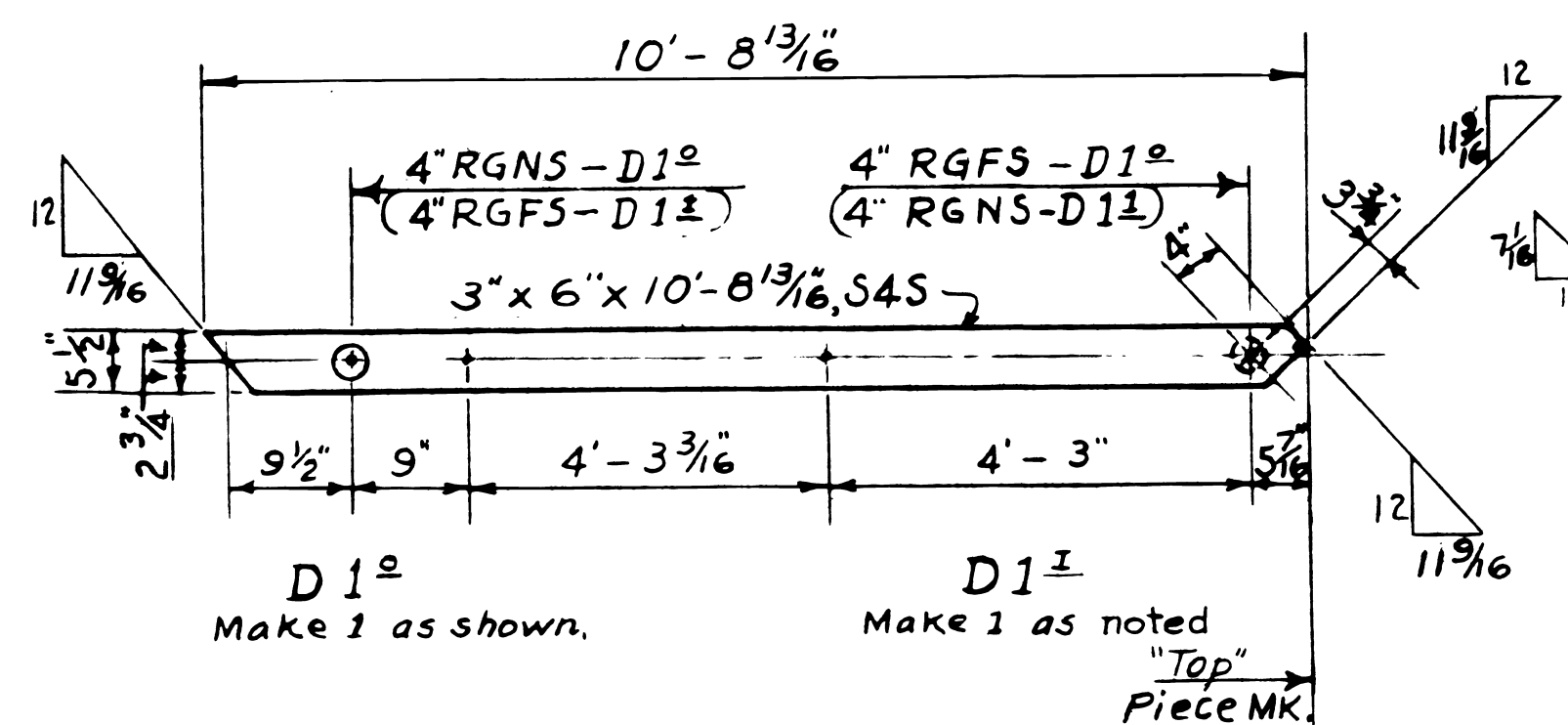
C3
Make 2



C4
Make 1-2"x10"x2'-0" S4S

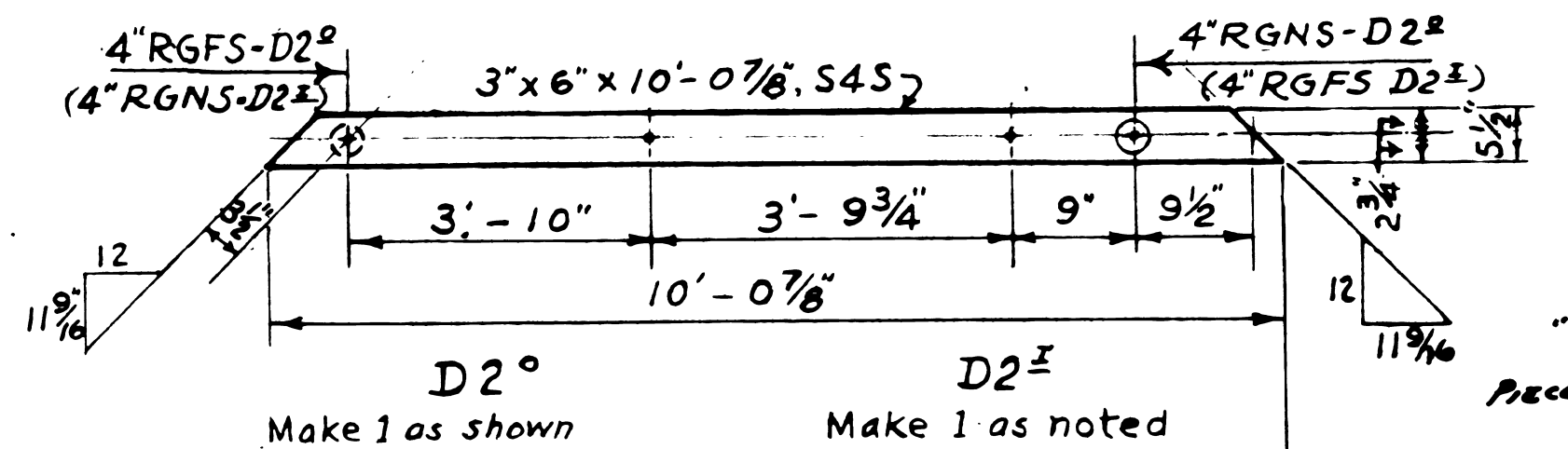


C5
Make 1-2"x6"x2'-9", S4S



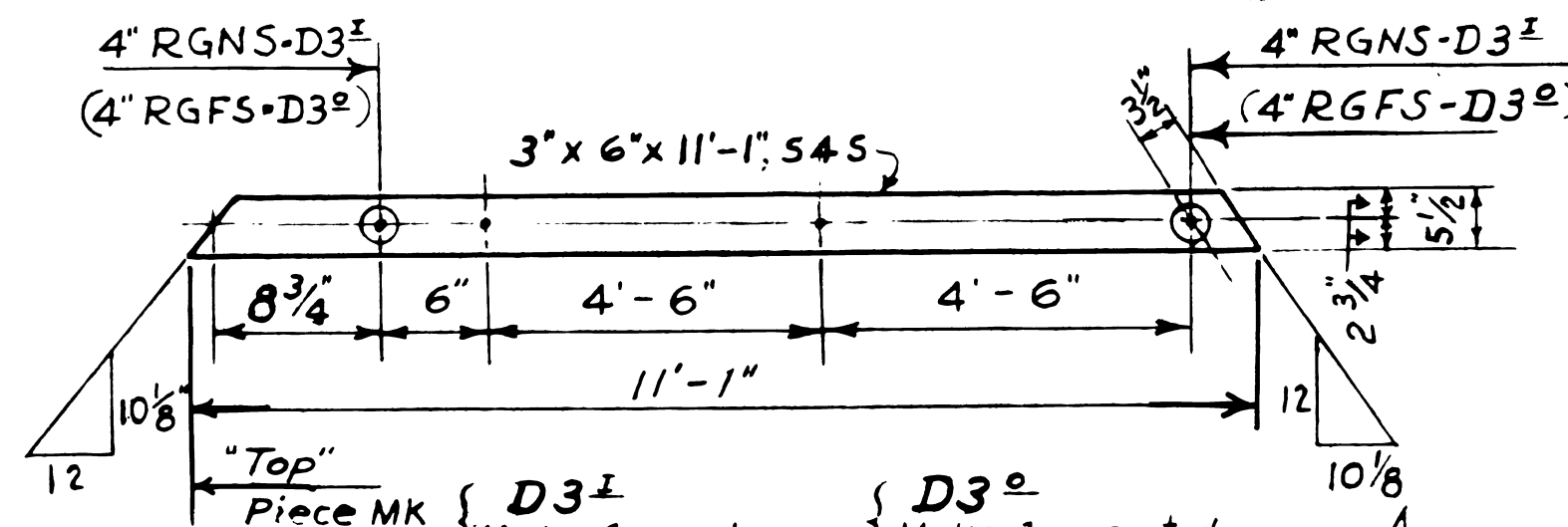
D1
Make 1 as shown

D1L
Make 1 as noted
"Top" Piece MK.



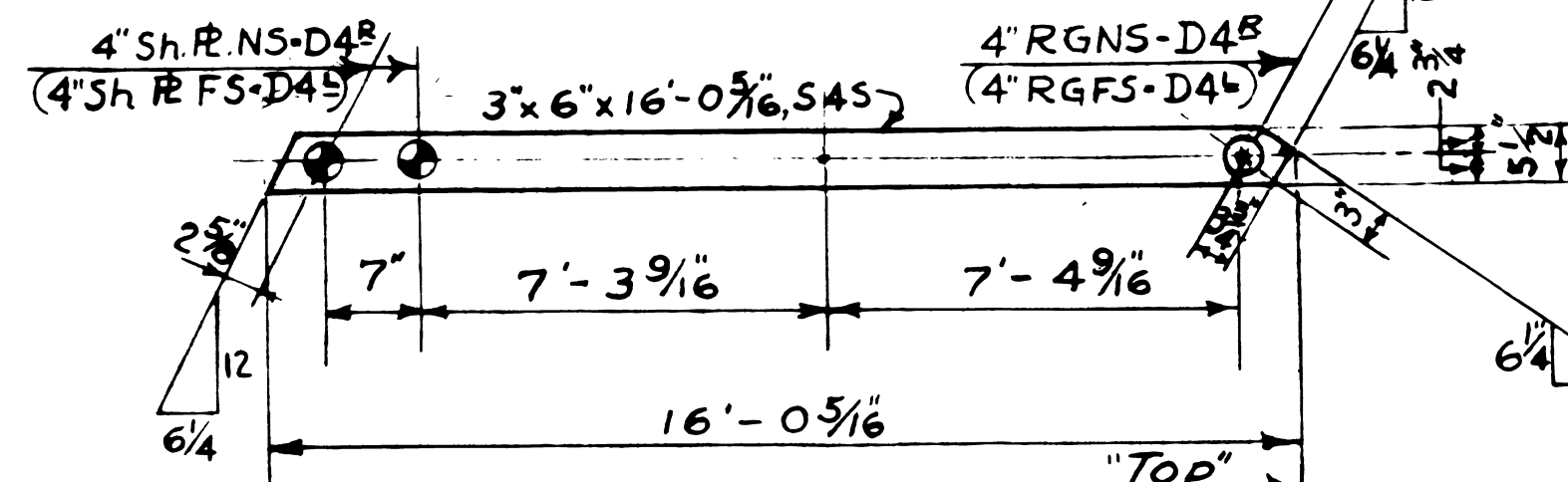
D2
Make 1 as shown

D2L
Make 1 as noted
"Top" Piece MK.



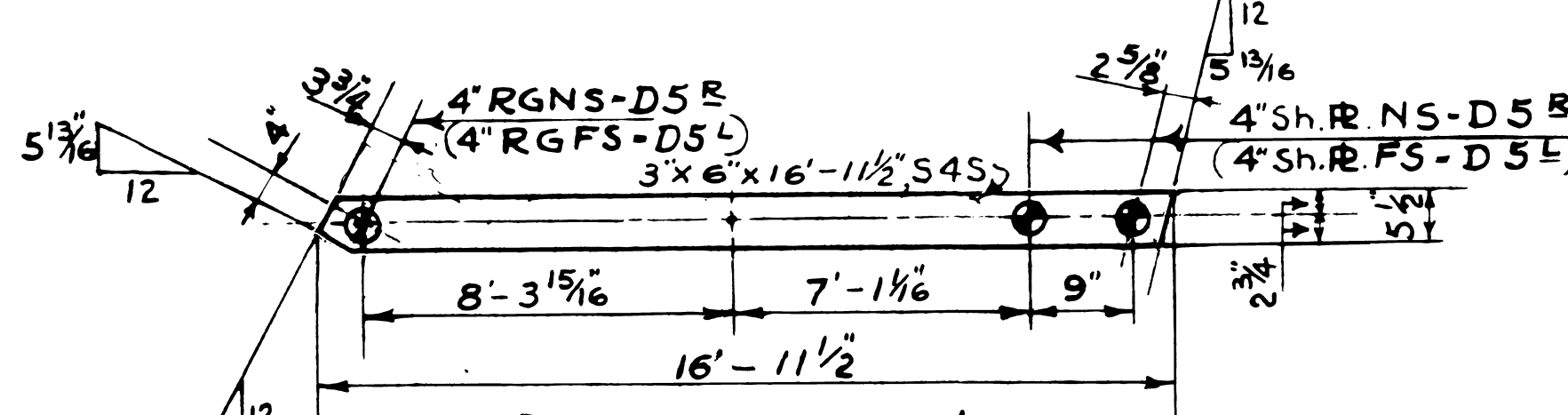
D3
Make 1 as shown

D3L
Make 1 as noted



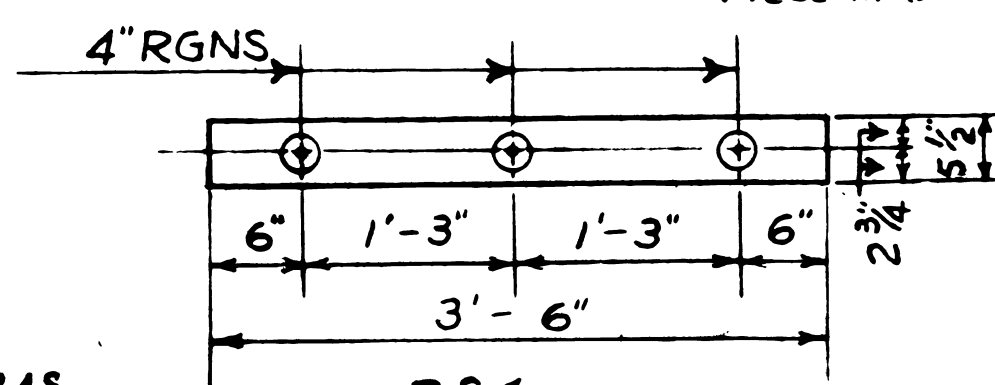
D4
Make 3 as shown

D4L
Make 3 as noted



D5
Make 3 as shown

D5L
Make 3 as noted
"Top" Piece MK.



DS1
Make 2-3"x6"x3'-6", S4S

LEGEND

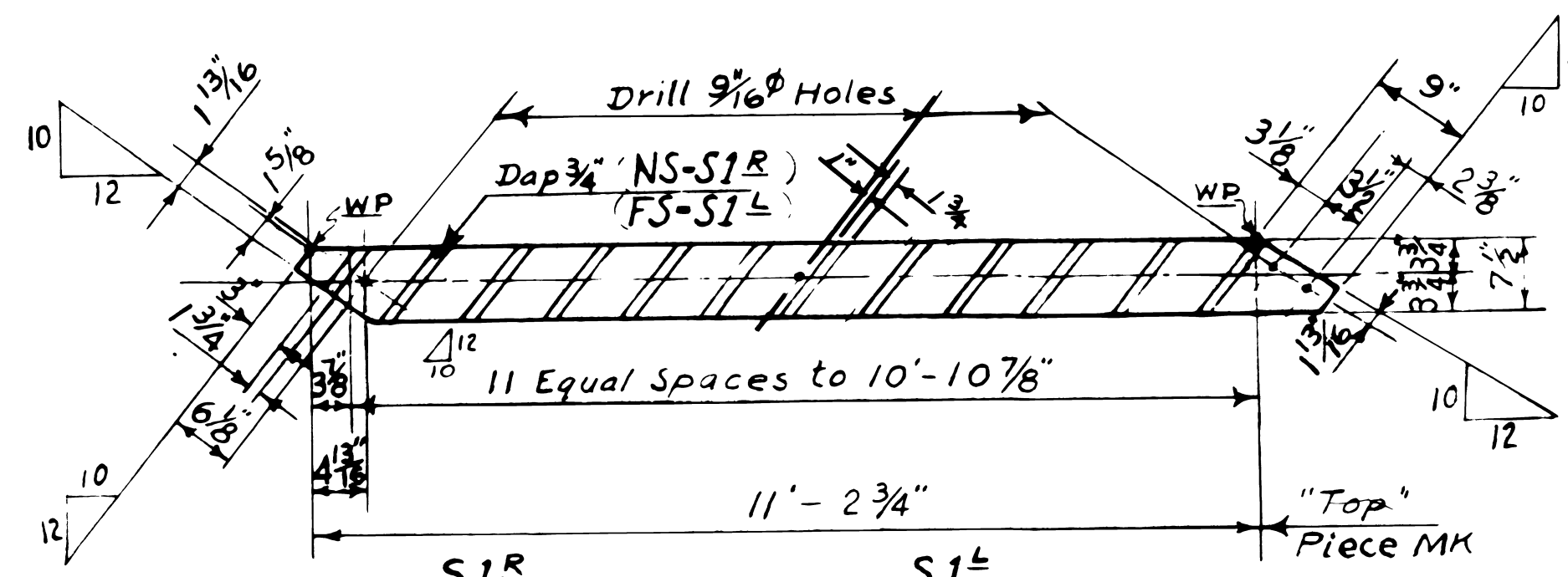
- 4" RG, ⊙ = 4" Ring Groove
- 4" Sh R, ⊙ = 4" Shear Plate
- NS = Near Side
- FS = Far Side
- BS = Both Sides

6/4/63 REV DIM D7 3/8
2/28/62 DELETED D7 & 8, NEW DETAIL FOR D7
7/8/60 - H4A, D3, D6, D8, FB2 - C.V.D.

U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
REGION SIX R.F. GREFE REGIONAL ENGINEER

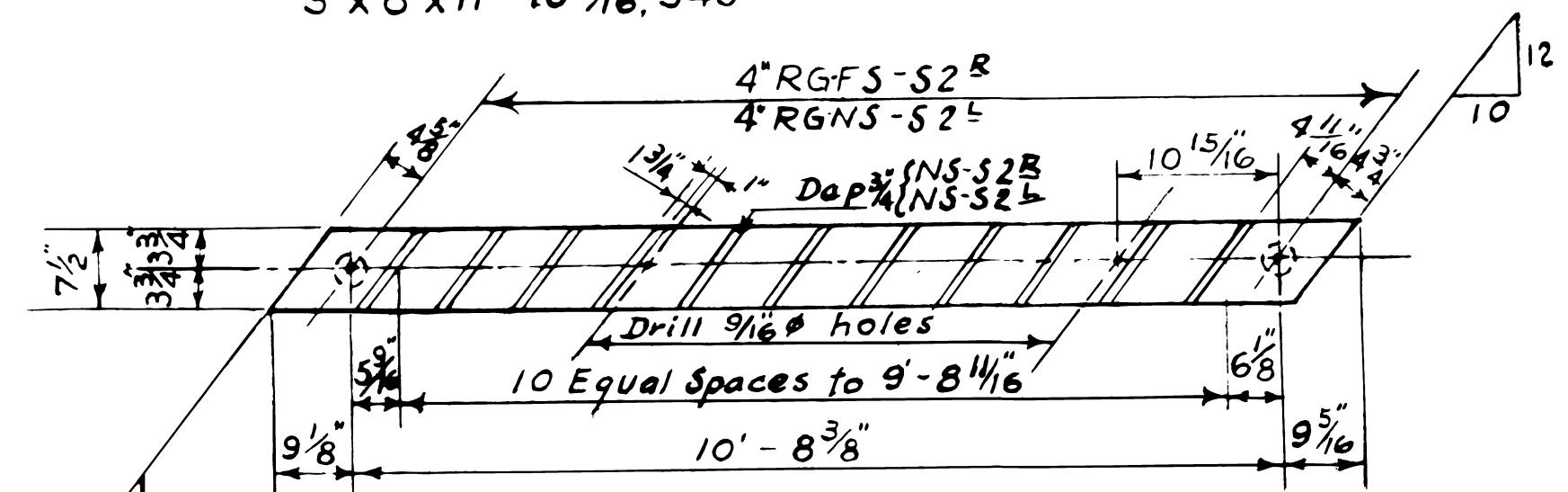
30-FOOT TYPE TT-1
TREATED TIMBER LOOKOUT TOWER
FOR 14'-0" x 14'-0" OR 15' x 4" x 15' x 4" HOUSE
SHOP DETAILS

DESIGNED BY: DRAWN BY: COOK TRACED BY:
SCALE: NONE CHECKED BY: O.M.H.
APPROVED BY: DATE: 1-15-60



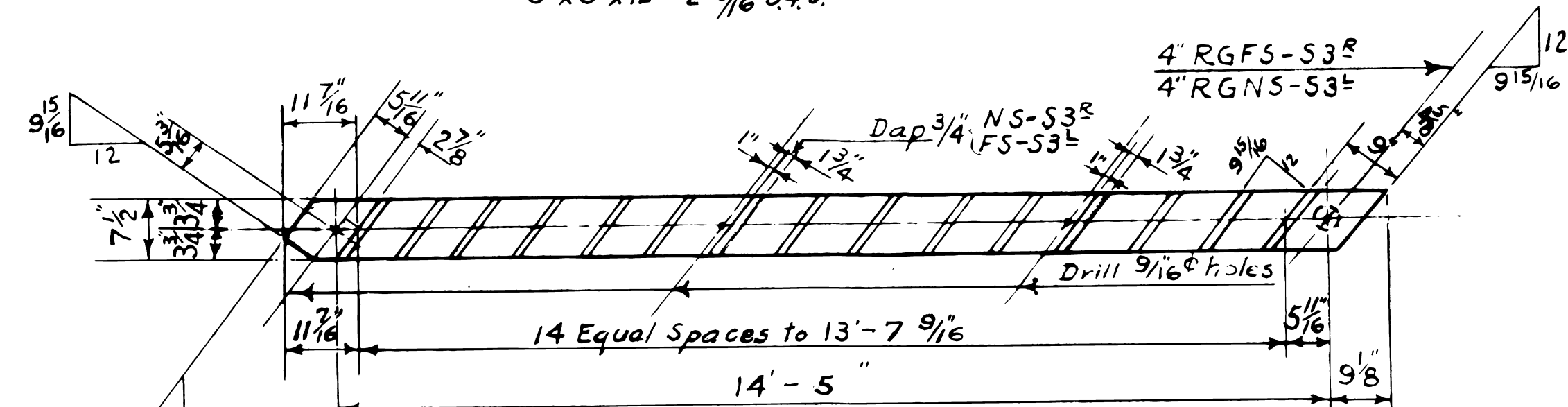
S1R
Make 1 as shown
3' x 8' x 11'-10 11/16\"/>

S1L
Make 1 Opp. Hand as noted



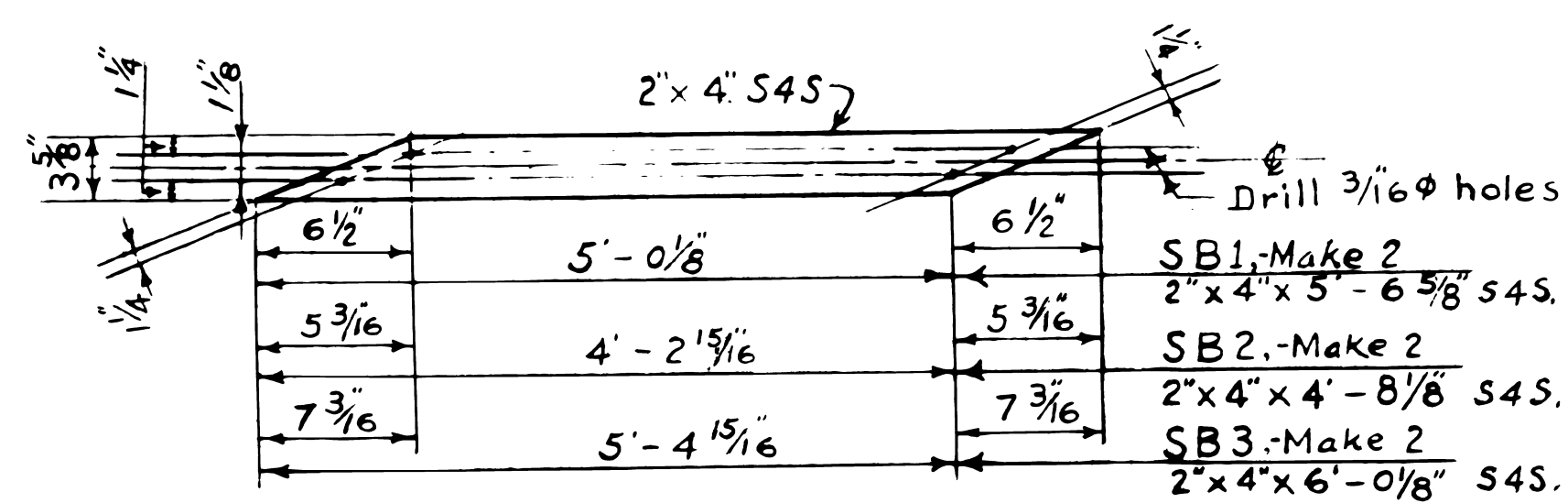
S2R
Make 1 as shown.
3' x 8' x 12'-2 13/16\"/>

S2L
Make 1 Opp. Hand as noted.

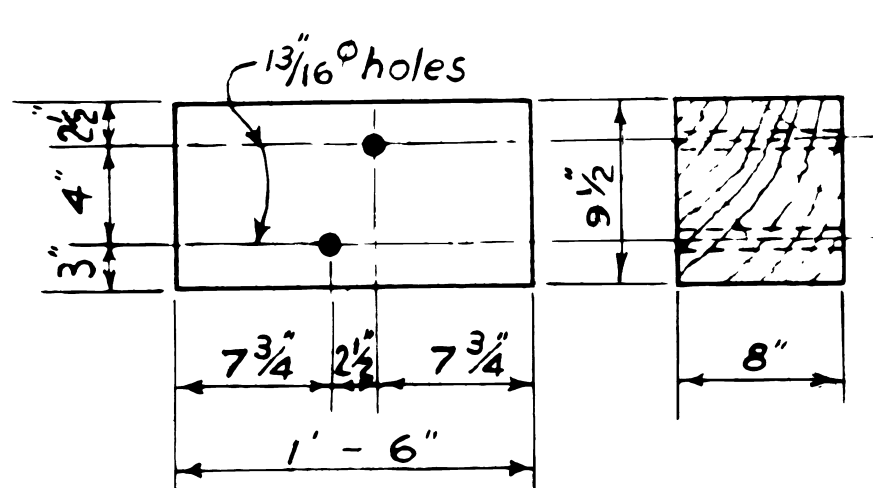


S3R
Make 1 as shown
3' x 8' x 15'-10 1/16\"/>

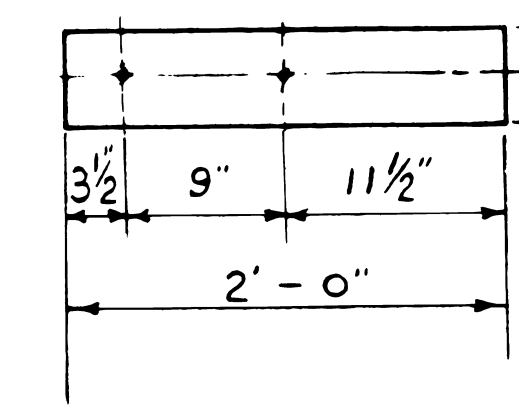
S3L
Make 1 Opp. Hand as noted.
"TOP" Piece MK.



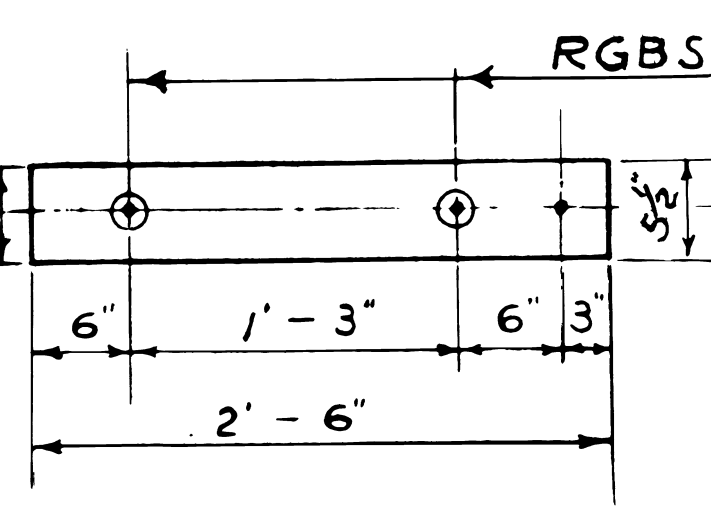
SB1, SB2, SB3.



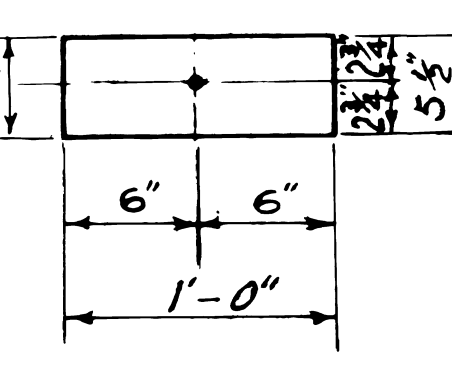
FB-6
Make 4
8' x 9 1/2' x 1'-6\"/>



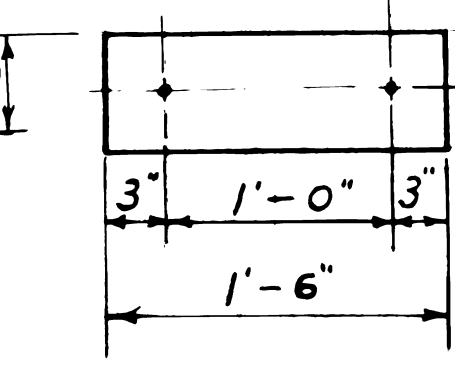
FB-5
Make 2
6' x 8' x 2'-0\"/>



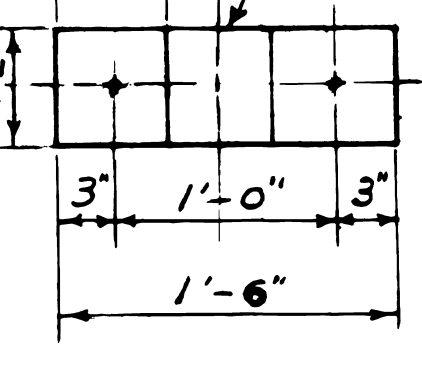
FB4
Make 1
6' x 8' x 2'-6\"/>



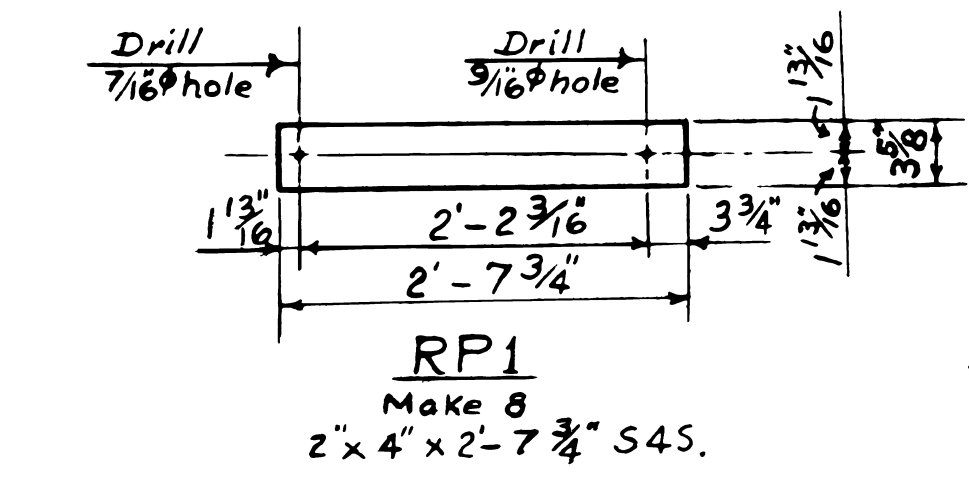
FB3
Make 3
6' x 8' x 1'-0\"/>



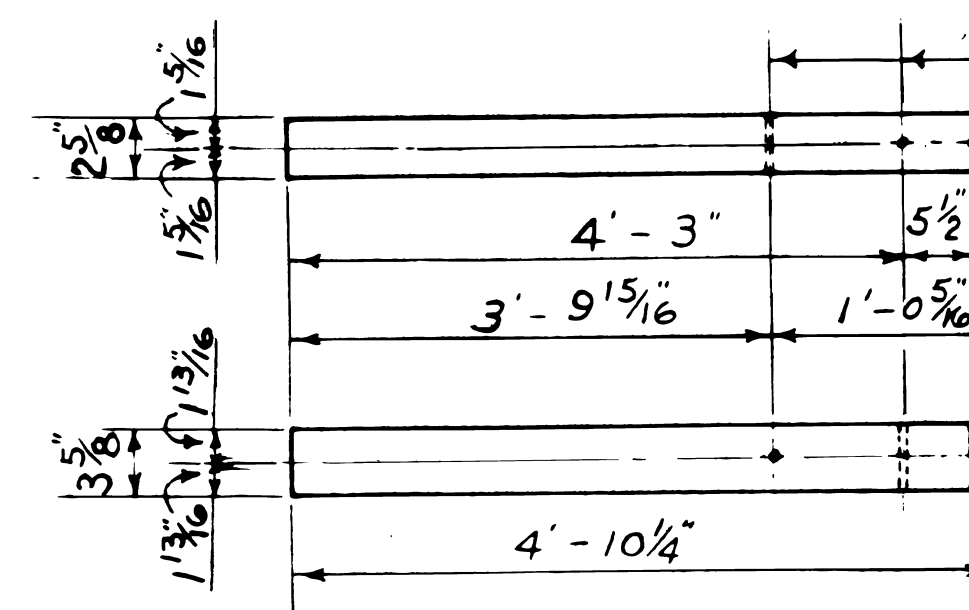
FB1
Make 11
8' x 8' x 1'-6\"/>



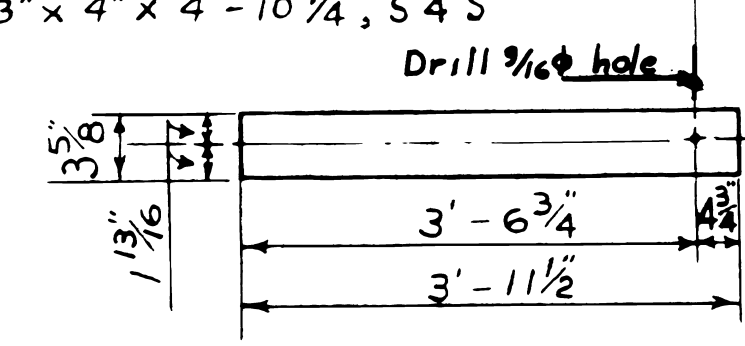
FB1A
Make 2
8' x 8' x 1'-6\"/>



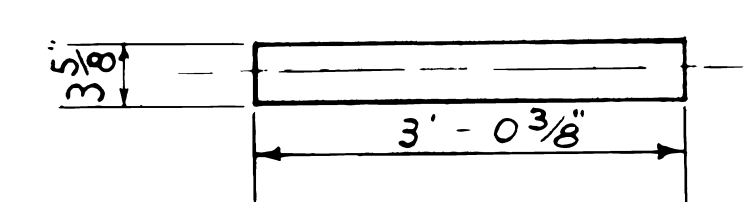
RP1
Make 8
2' x 4' x 2'-7 3/4\"/>



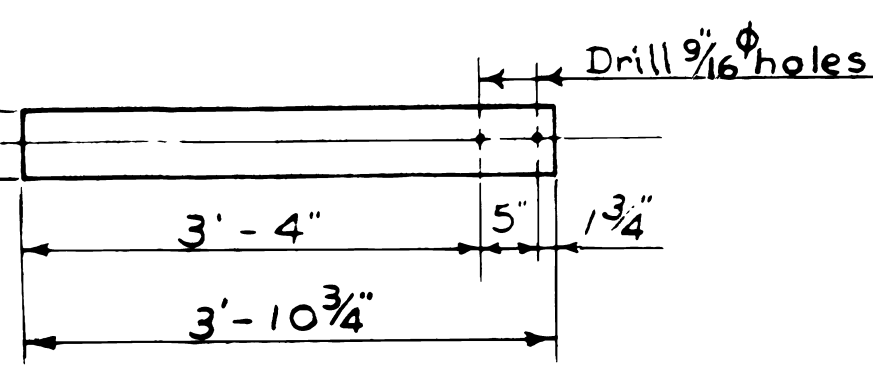
RP3
Make 2
3' x 4' x 4'-10 1/4\"/>



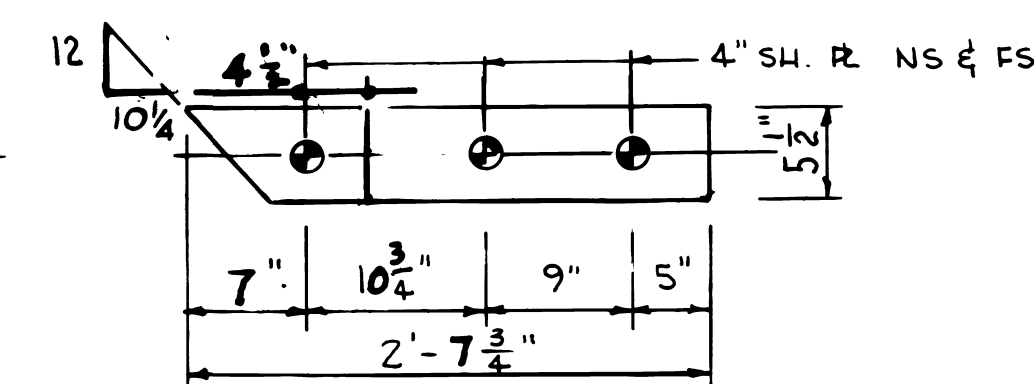
RP4
Make 4
3' x 4' x 3'-11 1/2\"/>



RP5
Make 1
3' x 4' x 3'-0 3/8\"/>



RP6
Make 4
3' x 4' x 3'-10 3/4\"/>

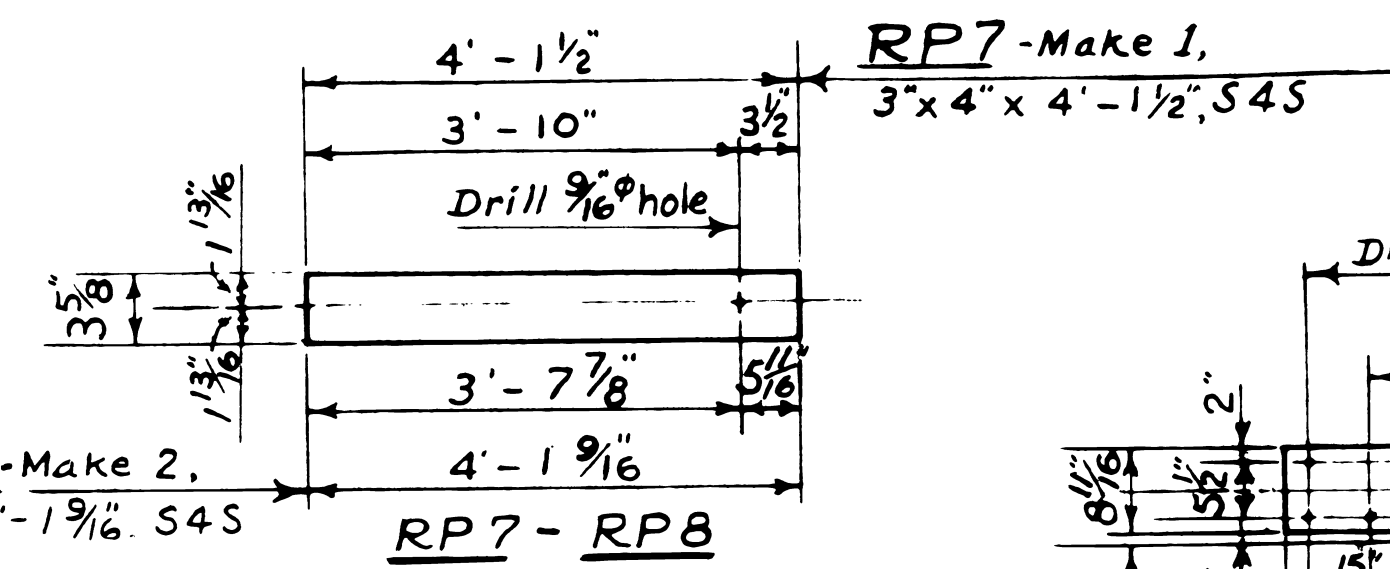


FB4A
MAKE 2 FROM 6' x 8' x 2'-8 3/4\"/>

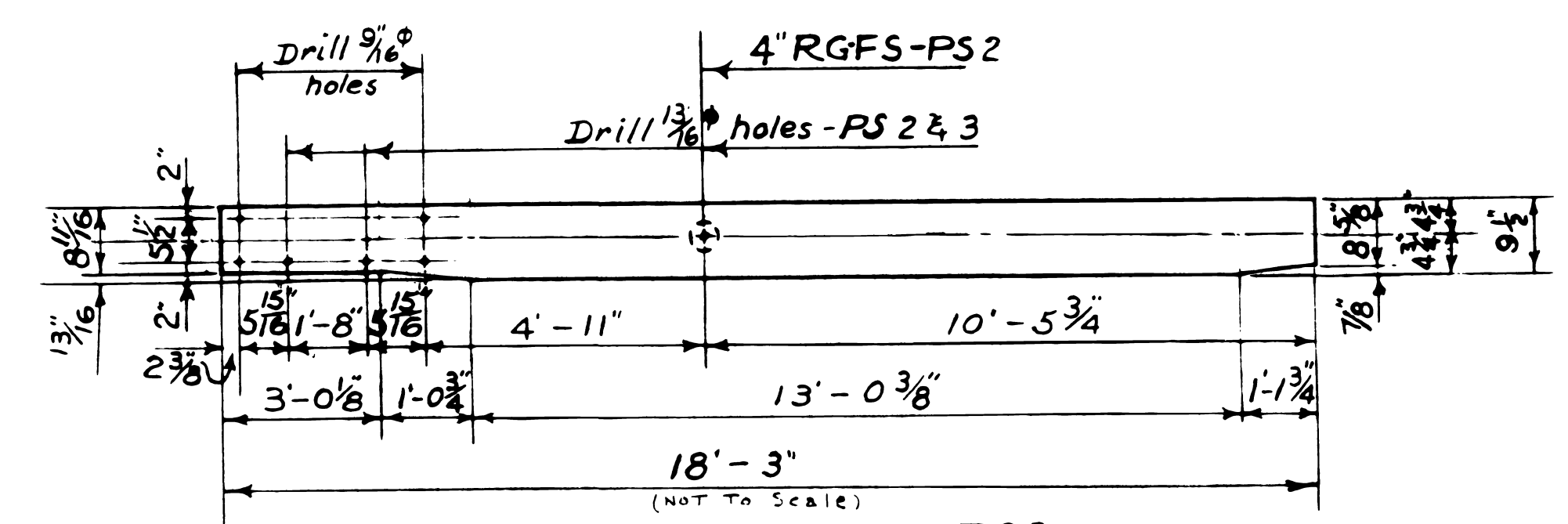
RP8-Make 2,
3' x 4' x 4'-1 9/16\"/>

RP7 - RP8

RP9,
Make 2 as shown
3' x 4' x 3'-9 1/2\"/>

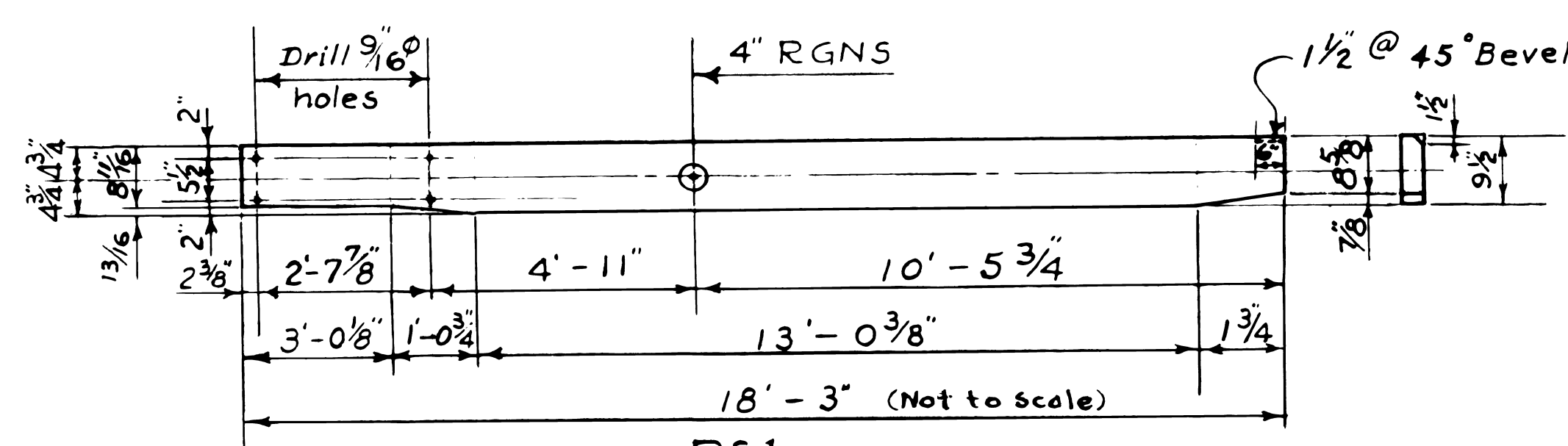


RP7-Make 1,
3' x 4' x 4'-1 1/2\"/>

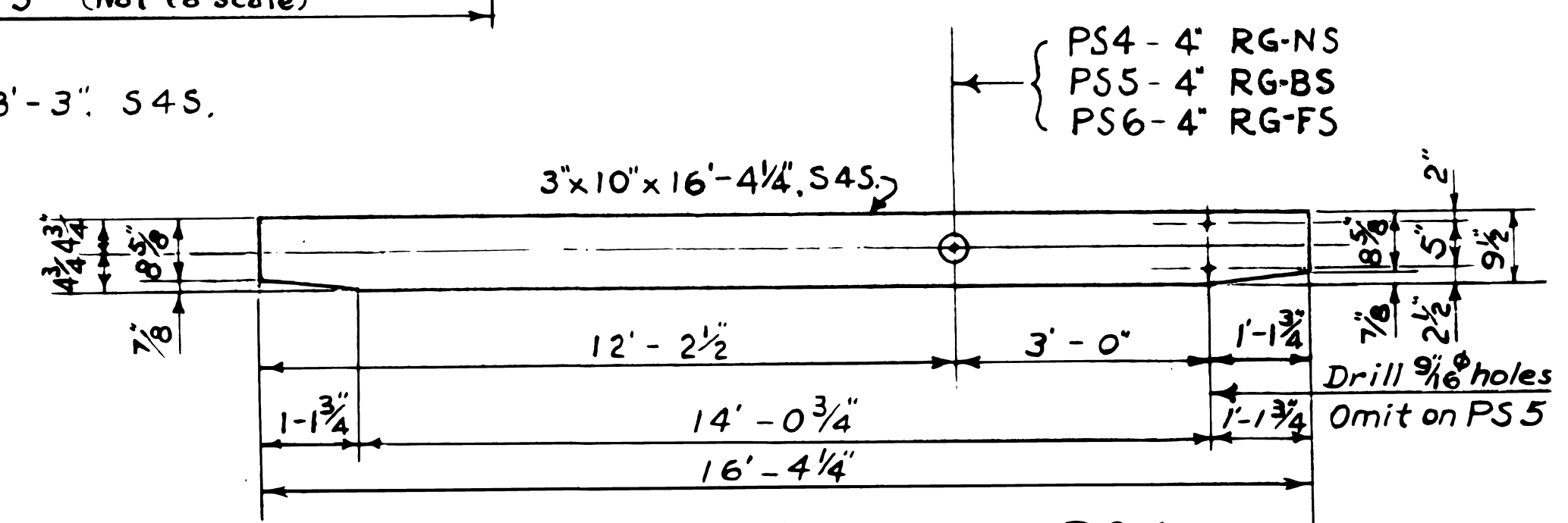


PS2
Make 1 as shown
3' x 10' x 18'-3\"/>

PS3
Make 1 as noted.
Note: Superimpose PS2 on PS3
for drilling all holes.



PS1
Make 1- 3' x 10' x 18'-3\"/>



PS4 PS5 PS6
Make 1 as shown. Make 1 as noted. Make 1 as noted.

NOTE:
All holes to be drilled 13/16\"/>

LEGEND

- 4'-RG-NS ⊙ 4" ring groove-Near Side.
- 4'-RG-FS ⊙ " " " -Far Side.
- 4'-RG-BS ⊙ " " " -Both Sides.

2/26/62 ADDED FB4A R.J.P. 1/3-6-62 omg
7/8/60- S1, S3, RP4. C.V.D.

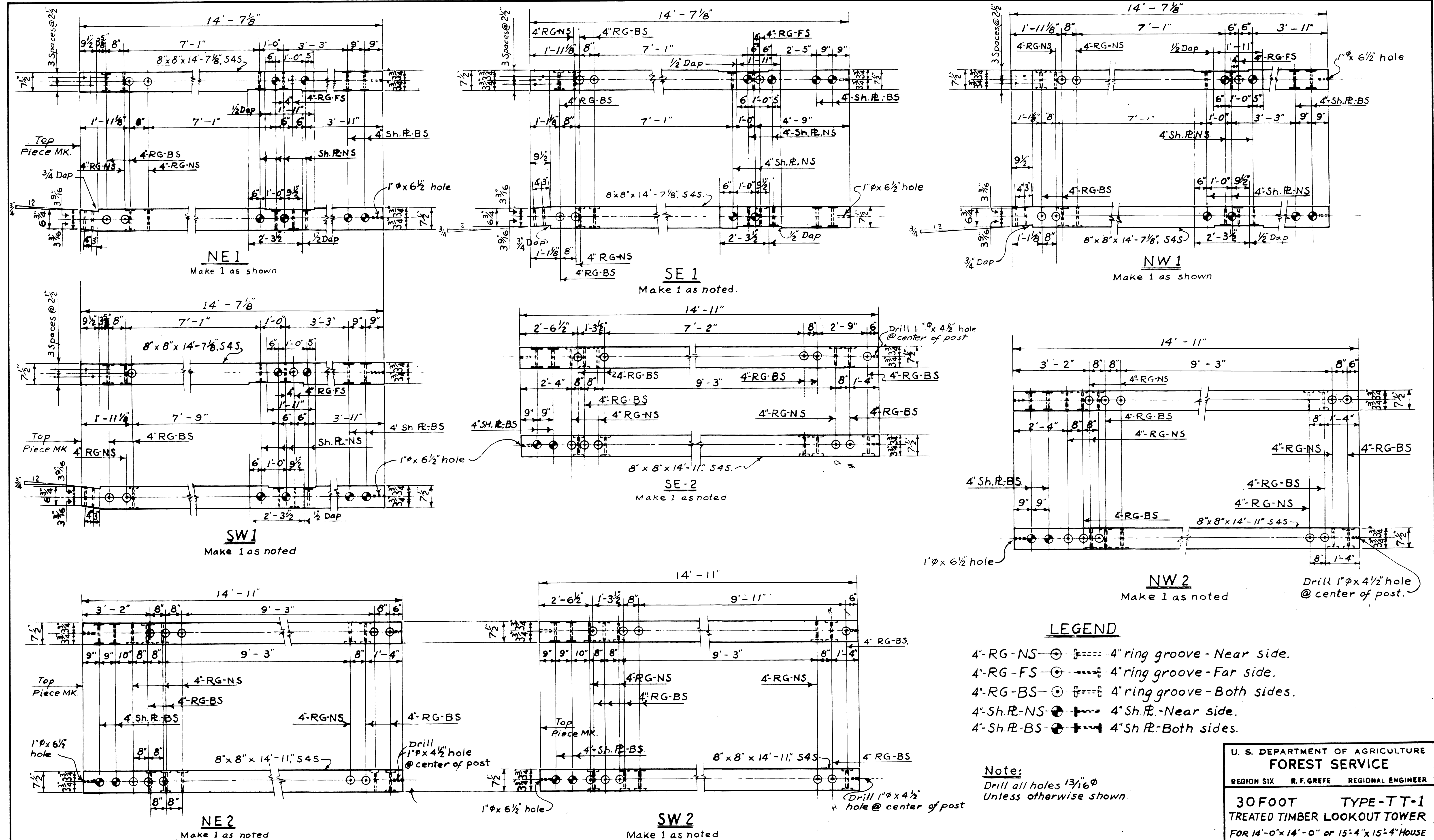
**U. S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE**

REGION SIX R. F. GREFE REGIONAL ENGINEER

**30 FOOT TYPE-TT 1
TREATED TIMBER LOOKOUT TOWER
FOR 14'-0" x 14'-0" or 15'-4" x 15'-4" HOUSE**

SHOP DETAILS

DESIGNED O.M.H. DRAWN R.W. CONTRACTED
SCALE: NONE CHECKED O.M.H.
APPROVED: [Signature] DATE 1-15-60
ASSISTANT REGIONAL FORESTER



U. S. DEPARTMENT OF AGRICULTURE		
FOREST SERVICE		
REGION SIX	R. F. GREFE	REGIONAL ENGINEER
30 FOOT TYPE-TT-1		
TREATED TIMBER LOOKOUT TOWER		
FOR 14'-0" x 14'-0" or 15'-4" x 15'-4" HOUSE		
SHOP DETAILS		
DESIGNED O.M.H.	DRAWN P.W.C.	CHECKED O.M.H.
SCALE: None		DATE 1-15-60
APPROVED: <i>[Signature]</i>	ASSISTANT REGIONAL FORESTER	

7/24/63 - NW1 & NE2 - L.E.M.
7/8/60 - SE2 - C.V.D.

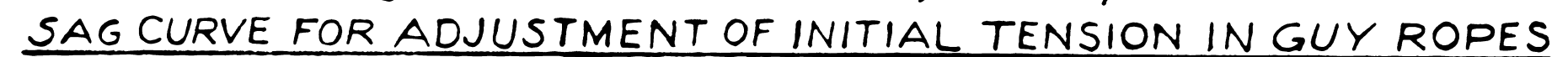
Approx. total weight 2111 lbs.
All except items 1 & 2 to be galvanized 2 oz.

7

Number required includes 1 extra for 20 or less, (or 5% extra, for over 20). All items to be galvanized 2 oz.
Approx. Total weight = 838 LBS.

[illegible]

Untreated Lumber FBM 340



LT L22097196007