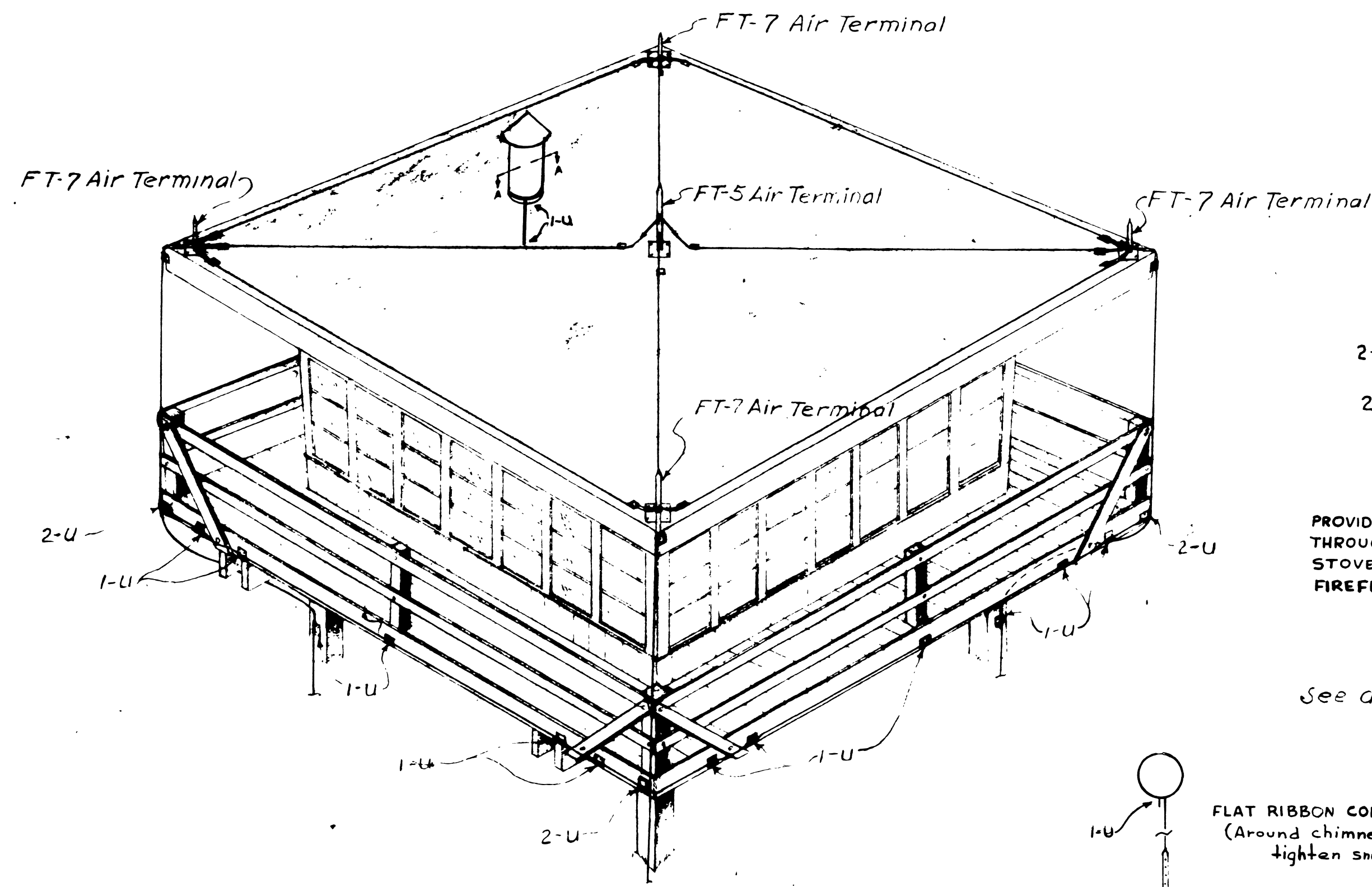
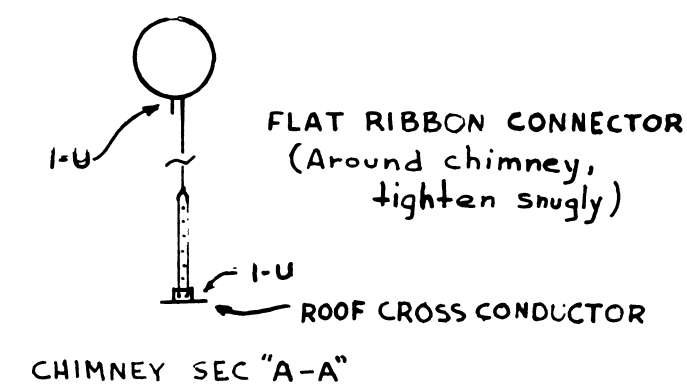




WIRING FOR FLAT TOP HOUSE

SCALE: 1/4" = 1'-0"

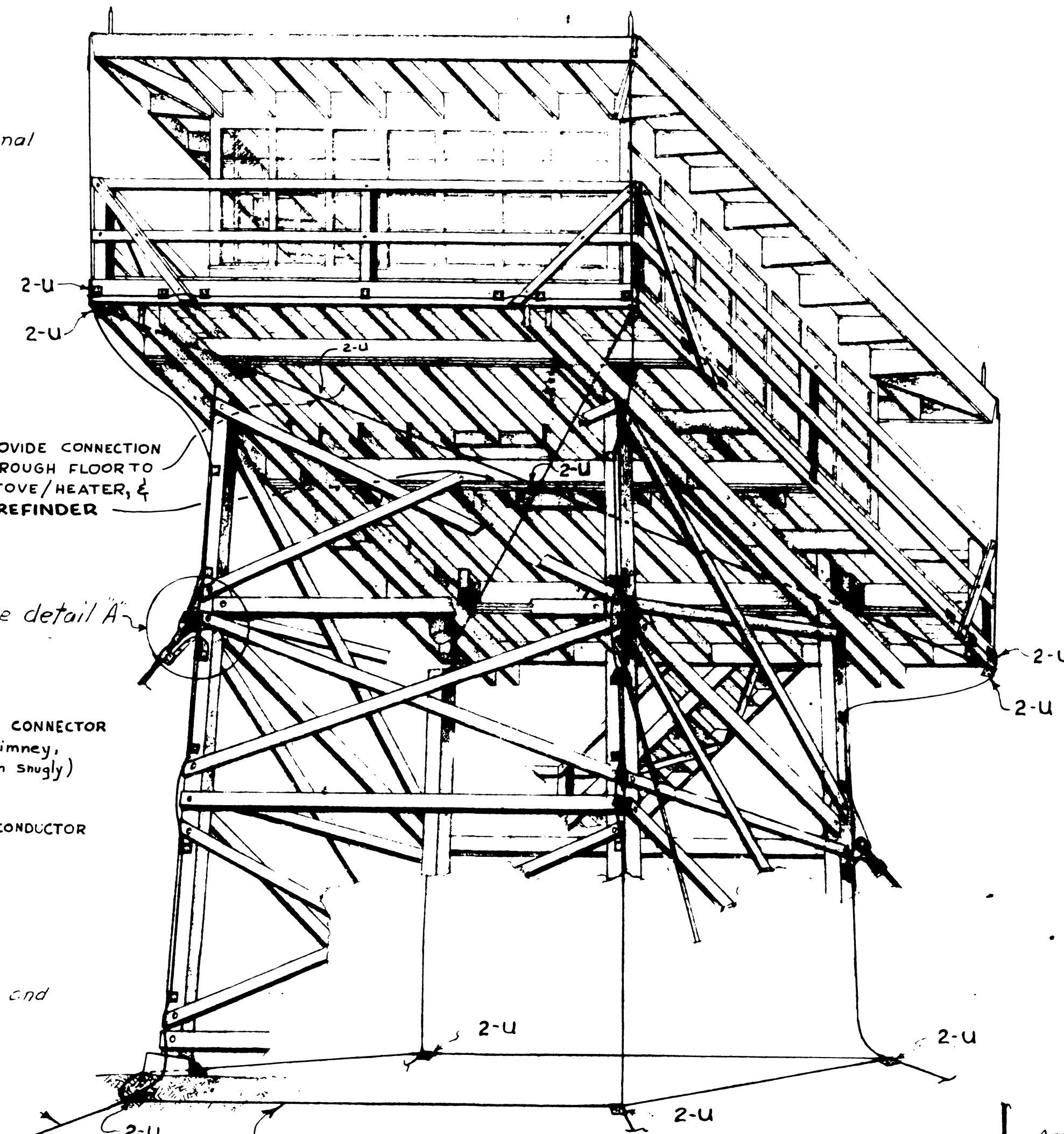
Extend Each Down Conductor 80' For Ground, and Bury In Earth, or Weight Down with Stones On Solid Rock Surface



CHIMNEY SEC "A-A"

See detail A

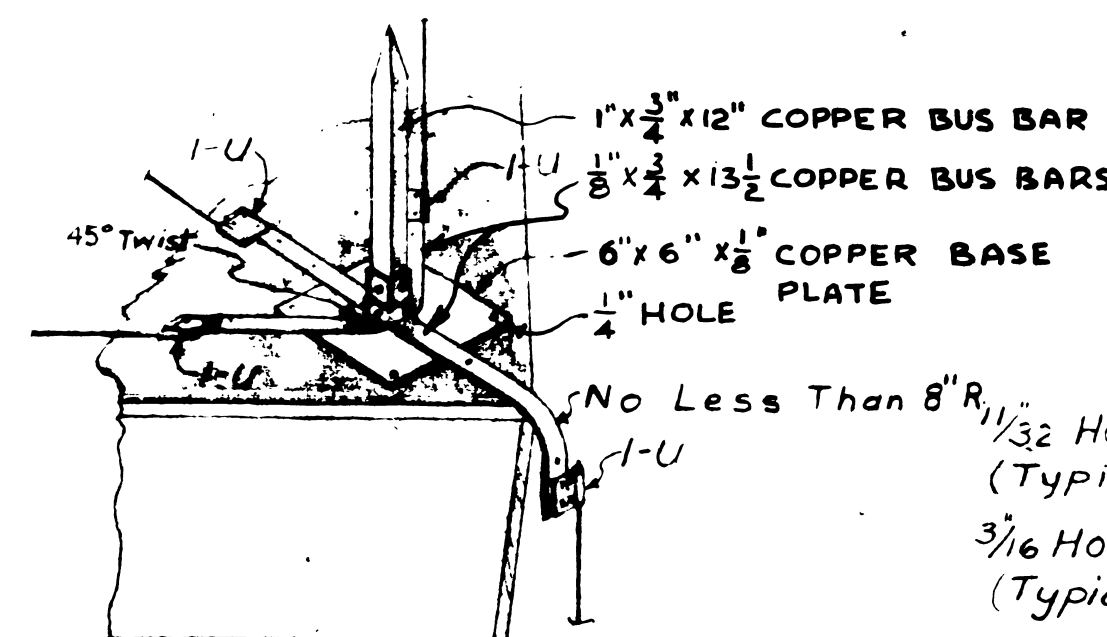
PROVIDE CONNECTION THROUGH FLOOR TO STOVE/HEATER, & FIREFINDER



WIRING FOR TOWER (TYPICAL)

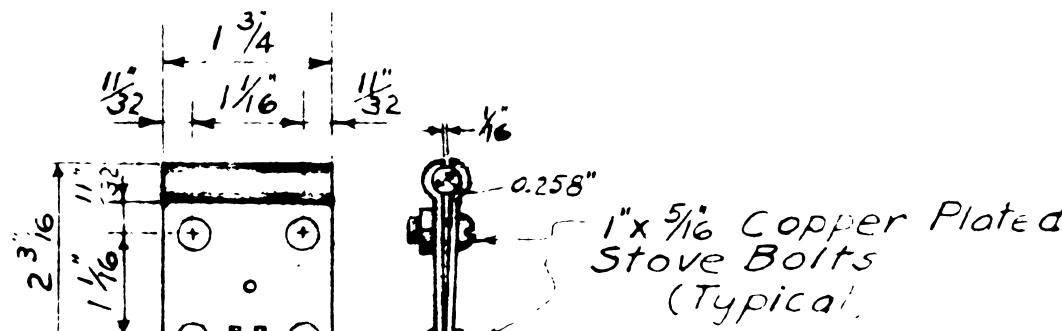
SCALE: 1/4" = 1'-0"

Bury Loop Conductor in earth or weight down with stones on solid rock surface

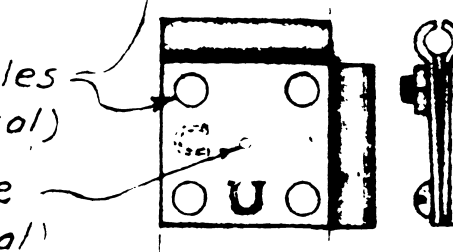


FT-7 AIR TERMINAL

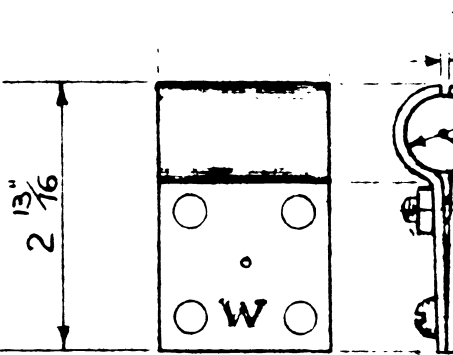
SCALE: NONE



1-U Connector



2-U Connector



"W" Connector

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

"W" Connector

1" x 1/16" Dead Soft Flat Copper Ribbon Connector With 1/32" Holes 1 1/2" Apart.

DETAIL "A"

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

MATERIAL LIST

	Req'd 10' Tower	Req'd 20' Tower	Req'd 30' Tower	Req'd 41' Tower	Req'd 53' Tower	Req'd 67' Tower	Req'd 82' Tower
FT-5 Air Terminal Assembly	1	1	1	1	1	1	1
FT-7 Air Terminal Assembly	4	4	4	4	4	4	4
Type "U" Connectors	100	110	120	130	140	150	160
1" x 5/16" Copper Plated Stove Bolts with Nuts	320	360	400	440	480	520	560
10d Copper Nails, Lbs.	1 3/4	1 3/4	2	2	2 1/4	2 1/4	2 1/2
Ribbon Connectors, Ft.	4	4	12	12	12	12	12
#2 B & S Gage S.D. Bare Copper Wire	850'	900'	950'	1025'	1100'	1060'	1250'
TYPE "W" CONNECTORS	-	-	4	4	4	4	4

850 900 950 1025 1100 1060 1250

Notes:

All Wire Conductors Shall Be #2 B & S Gage Bare Copper Wire.

All Lightning Protection Materials Are Available from Fausche Electric Mfg. Co. 900 N. Stanton, Portland, B. Ore.

Conductors Shall Be Installed in One Continuous Length Between The Terminals Shown on This Drawing, Unless Permission To Splice a Conductor Has Been Obtained. Splicing May Be Permitted Provided Splices Are Made With Compression Type Sleeves Such as Nicopress.

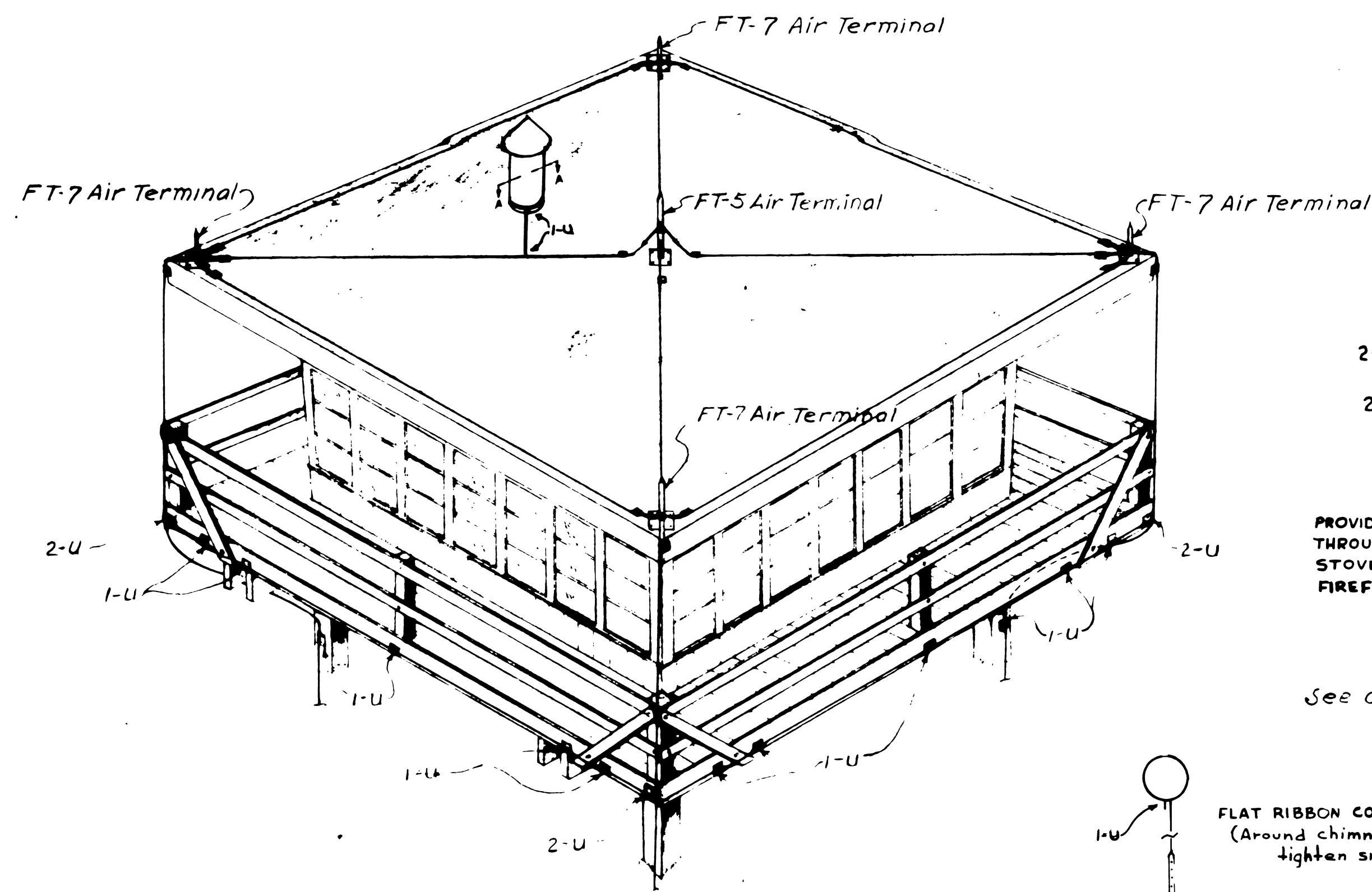
Fasten Air Terminals and U Connectors To Lookout Structure With 10d Copper Nails. No Conductors Shall Be Installed With Bends Of Less Than 8" R.

11-26-63 ADD STOVE & CHIMNEY CONNECTIONS
REV. MATERIAL LIST BAH
REVISED 6/17/60 - CONDUCTOR BANDS - C.V.D.

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

LIGHTNING PROTECTION SYSTEM
FOR
TT-1 TOWER WITH FLAT TOP HOUSE

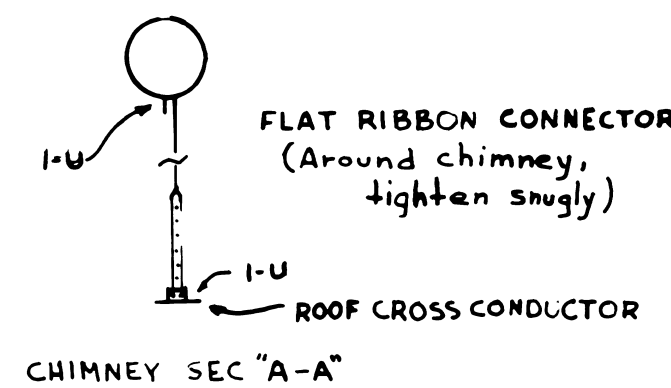
DESIGNED: O.M.H. DRAWN: R.W.C. TRACED:
SCALE: AS NOTED CHECKED: R.W.C.
APPROVED: J.M. Brackwell DATE: 2-5-68
ASSISTANT REGIONAL FORESTER



WIRING FOR FLAT TOP HOUSE

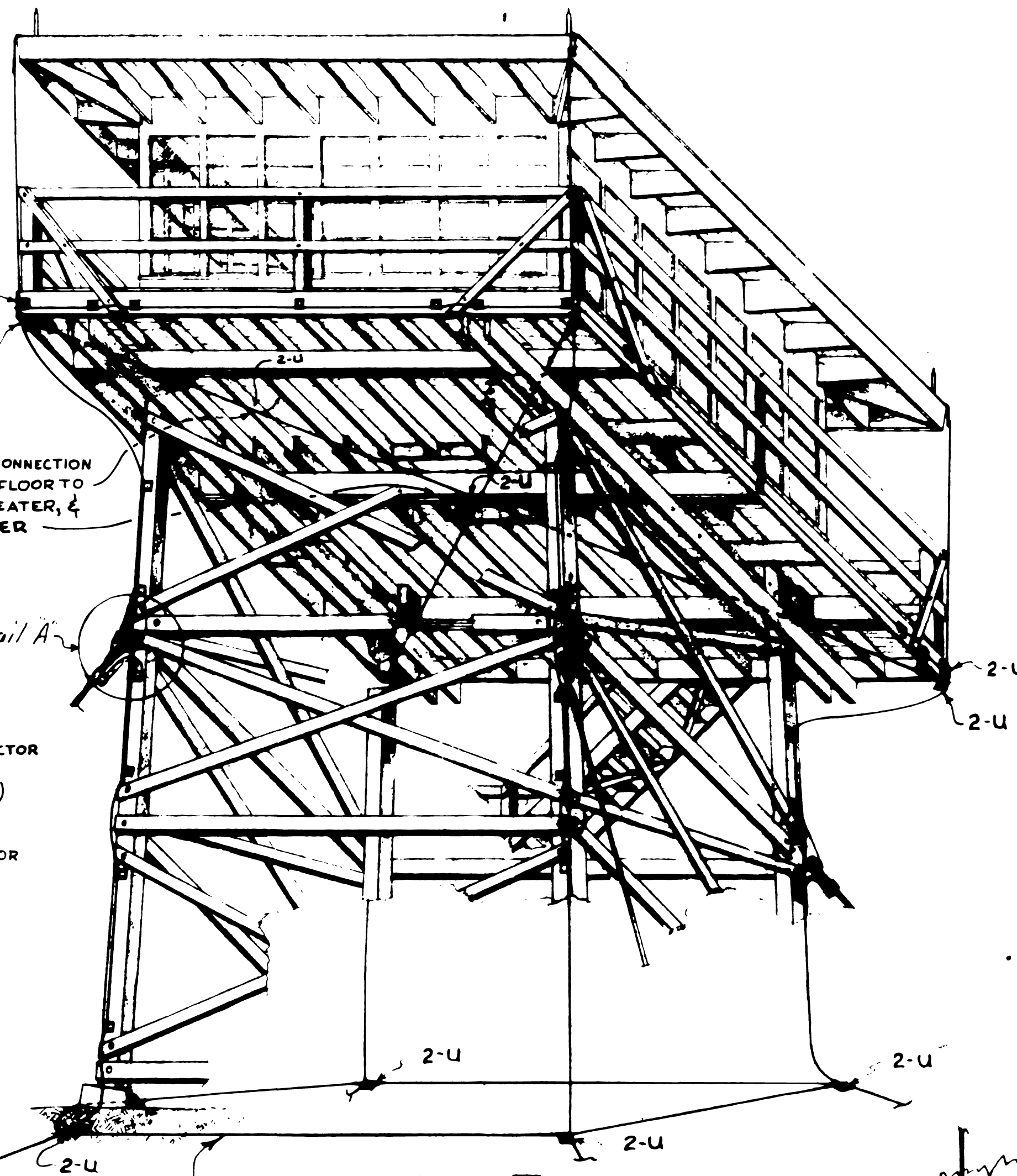
SCALE: 1/4" = 1'-0"

Extend Each Down Conductor 80' For Ground, and Bury In Earth, or Weight Down with Stones on Solid Rock Surface



see detail A

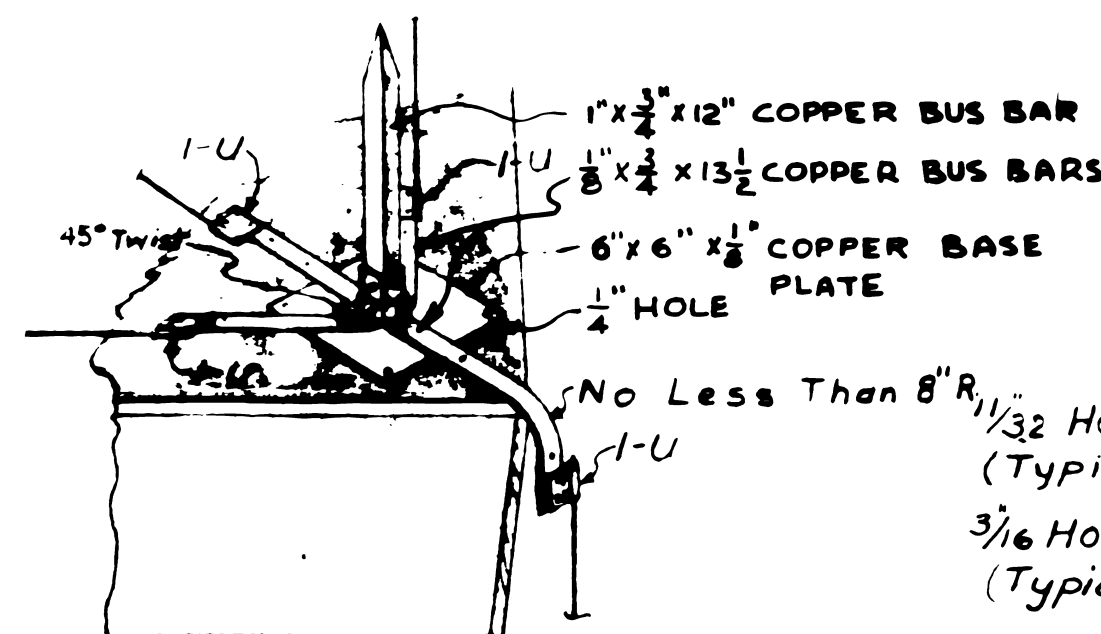
PROVIDE CONNECTION THROUGH FLOOR TO STOVE/HEATER, & FIREFINDER



WIRING FOR TOWER (TYPICAL)

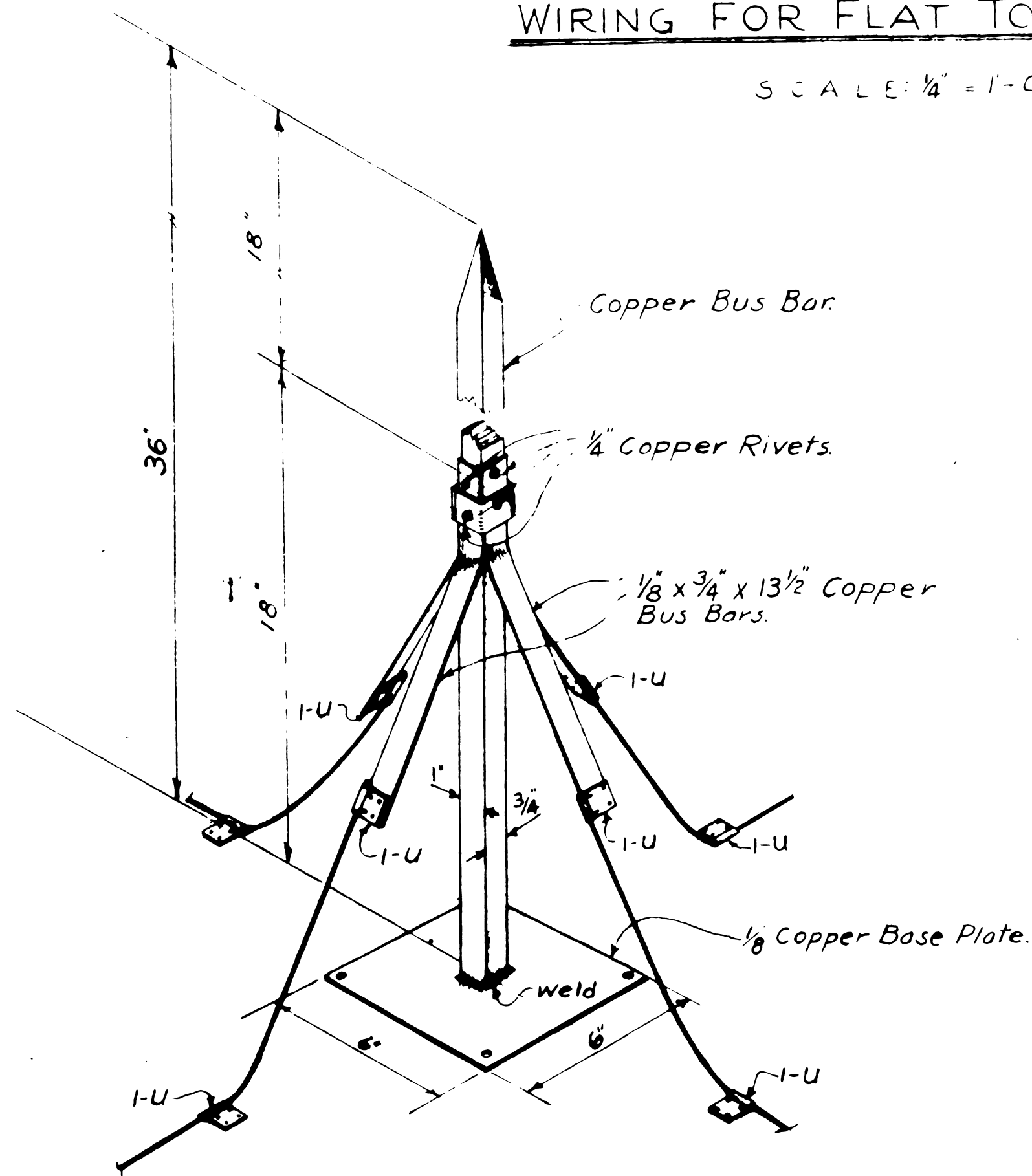
SCALE: 1/4" = 1'-0"

Bury Loop Conductor in earth or weight down with stones on solid rock surface



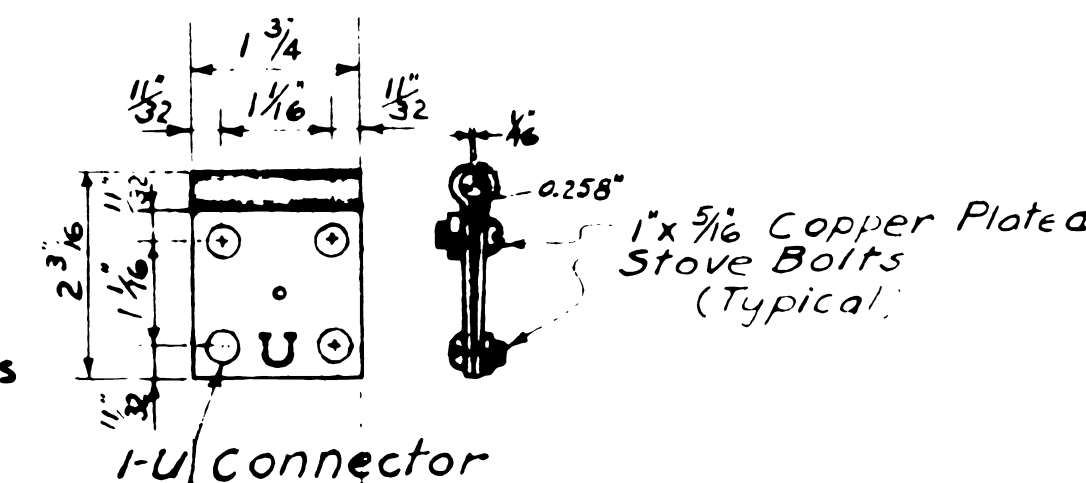
FT-7 AIR TERMINAL

SCALE: NONE

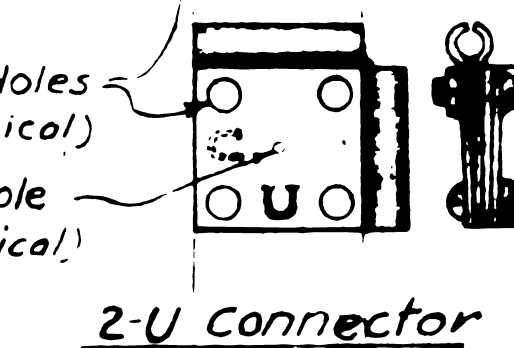


FT-5 AIR TERMINAL

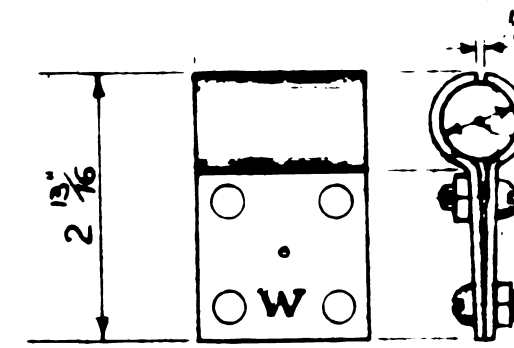
SCALE: NONE



1-U connector



2-U connector



W connector

SCALE: 1/4" = 1'-0"
FABRICATE "U" & "W" CONNECTORS FROM 1/8" COPPER PLATE

"W" Connector

1" x 1/16" Dead Soft Flat Copper Ribbon Connector With 1/32" Holes 1 1/16" Apart.

DETAIL "A"

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

MATERIAL LIST

	Req'd. 10' Tower	Req'd. 20' Tower	Req'd. 30' Tower	Req'd. 41' Tower	Req'd. 53' Tower	Req'd. 67' Tower	Req'd. 82' Tower
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1" x 5/16" Copper Plated Stove Bolts with Nuts	320	360	400	440	480	520	560
10d Copper Nails, Lbs.	1 3/4	1 3/4	2	2	2 1/4	2 1/4	2 1/2
Ribbon Connectors, Ft.	4	4	12	12	12	12	12
#2 B & S Gage S.D. Bare Copper Wire	850'	900'	950'	1025'	1100'	1060'	1250'
TYPE "W" CONNECTORS	-	-	5	5	5	5	5

(1" = 60 Nails)

Notes:

All Wire Conductors Shall Be #2 B & S Gage Bare Copper Wire.

Conductors Shall Be Installed in One Continuous Length Between The Terminals Shown on This Drawing, Unless Permission To Splice a Conductor Has Been Obtained. Splicing May Be Permitted Provided Splices Are Made With Compression Type Sleeves Such as Nicopress

Fasten Air Terminals and U Connectors To Lookout Structure With 10d Copper Nails. No Conductors Shall Be Installed With Bends Of Less Than 8" R.

CONNECT SAFETY WIRE FENCING TO LIGHTNING PROTECTION SYSTEM TWICE EACH STAIR RUN AS SHOWN ON DRAWING #L 22041. CONNECT CATWALK FENCING TO LIGHTNING PROTECTION SYSTEM AS NOTED ON DRAWING #L 22041.

11-26-63 ADD STOVE & CHIMNEY CONNECTIONS
REV. MATERIAL LIST BAH
Revised 6/17/60 - Connecting Bases - C.V.D.

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

LIGHTNING PROTECTION SYSTEM
FOR
TT-1 TOWER WITH FLAT TOP HOUSE

DESIGNED: O.M.H. DRAWN: P.M.C. TRACED:
SCALE: As Noted
APPROVED: J.M. [Signature] CHECKED: [Signature] DATE: 2-2-64
ASSISTANT REGIONAL FORESTER

