

NOTE: ALL MATERIAL SUPPLIED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE SPECIFIED.
ALL STEEL HARDWARE AND EQUIPMENT SHALL BE GALVANIZED.

SPACE FOR POWER COMPANYS CONNECTION
TO POLE AS PER POWER CO. REQUIREMENTS

5 FT. MINIMUM

10 FT.

POLE CLASS #3 BY POWER CO.

TYPE F CONDUIT FITTING

CONDUIT CLAMP

INCOMING TELCO CABLE BY TELEPHONE
CO. TO DEMARCATION BOX AT TRAILER
TRENCHING BY CONTRACTOR

TYPE F CONDUIT FITTING
CONDUIT CLAMP

1 1/2" GAL. RIGID CONDUITS BY CONTRACTOR
FOR TELCO LINES

2" GAL. RIGID CONDUIT

2 HOLE PIPE STRAPS 5' 0" APART

1 1/2" GAL. STEEL
CONDUIT

2" CONDUIT

GROUND

TYP 2" STANDARD
SWEEP-ELL TYR
GROUND BUSHING
3'-0" MIN.

D.E.B.

3-1/2" #2 600 V TYPE USE

COPPER WELD
GROUND ROD
5/8" X 6'0"

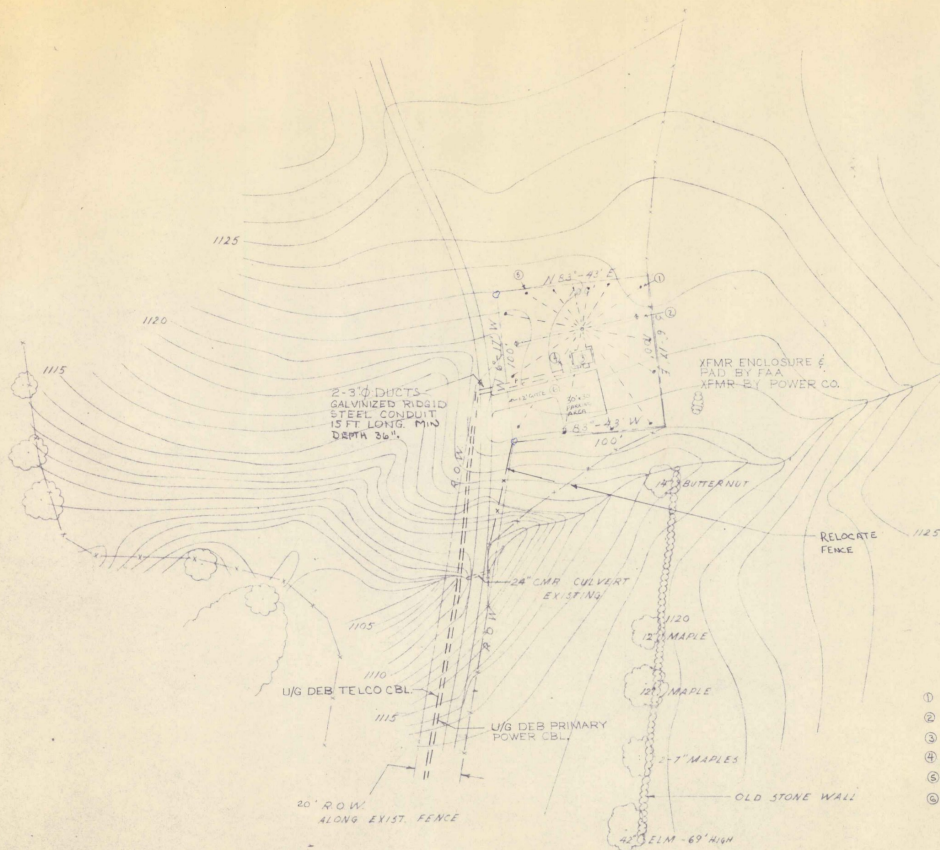
1 1/2" SWEEP ELL
END BUSHING

BARE
COPPER
WIRE

DATE	7/27/72
BY	CH
CHECKED	CH
APPROVED	CH
REVISION	
NO.	
DATE	
BY	
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REVISION	
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REVISION	
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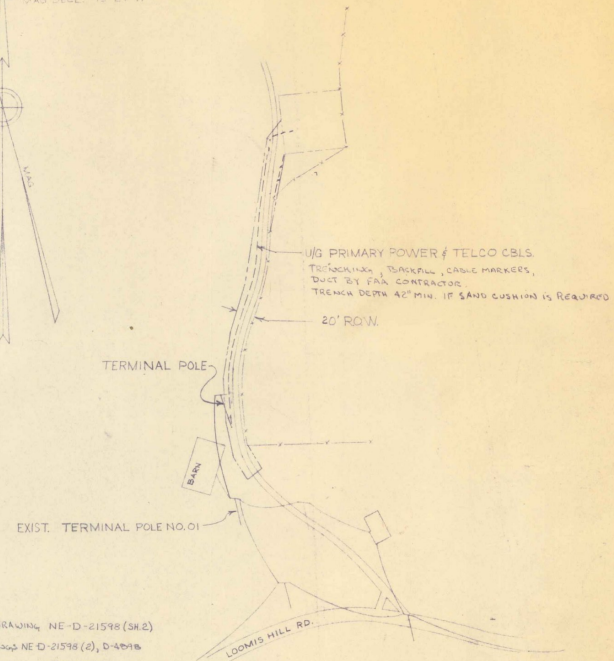
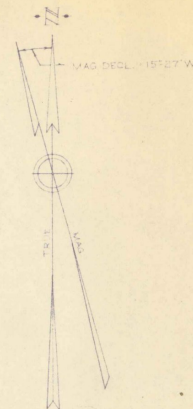
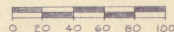
POWER & TELCO

FEDERAL AVIATION

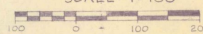


PLOT LAYOUT

SCALE: 1" = 40'



VICINITY SKETCH
SCALE: 1" = 100'



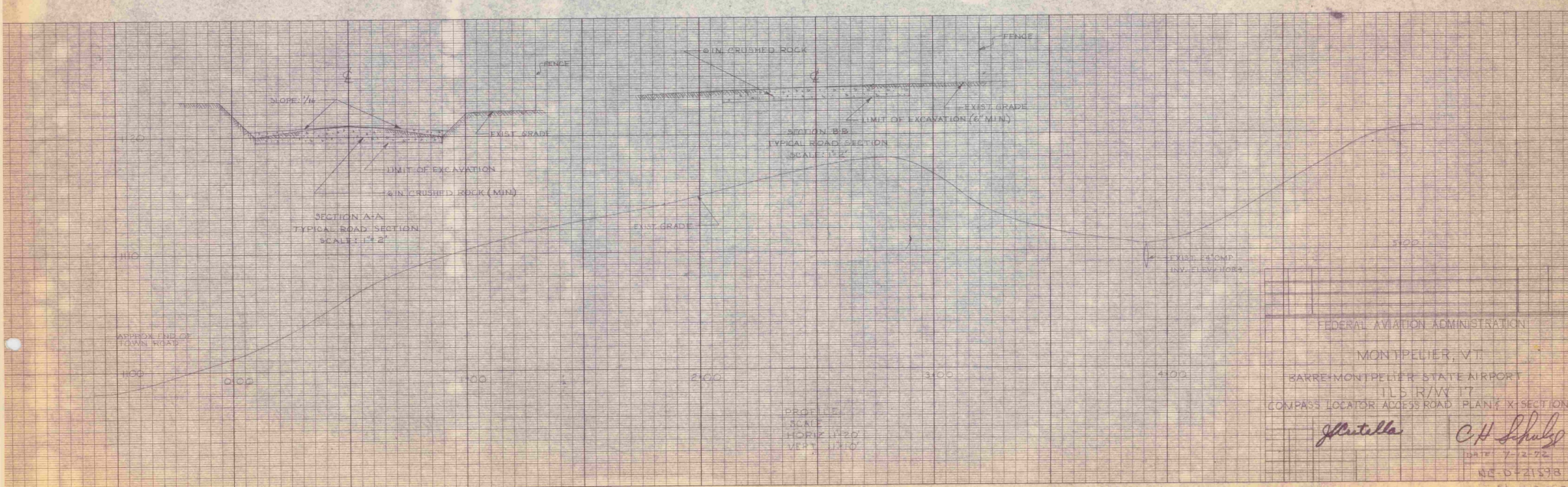
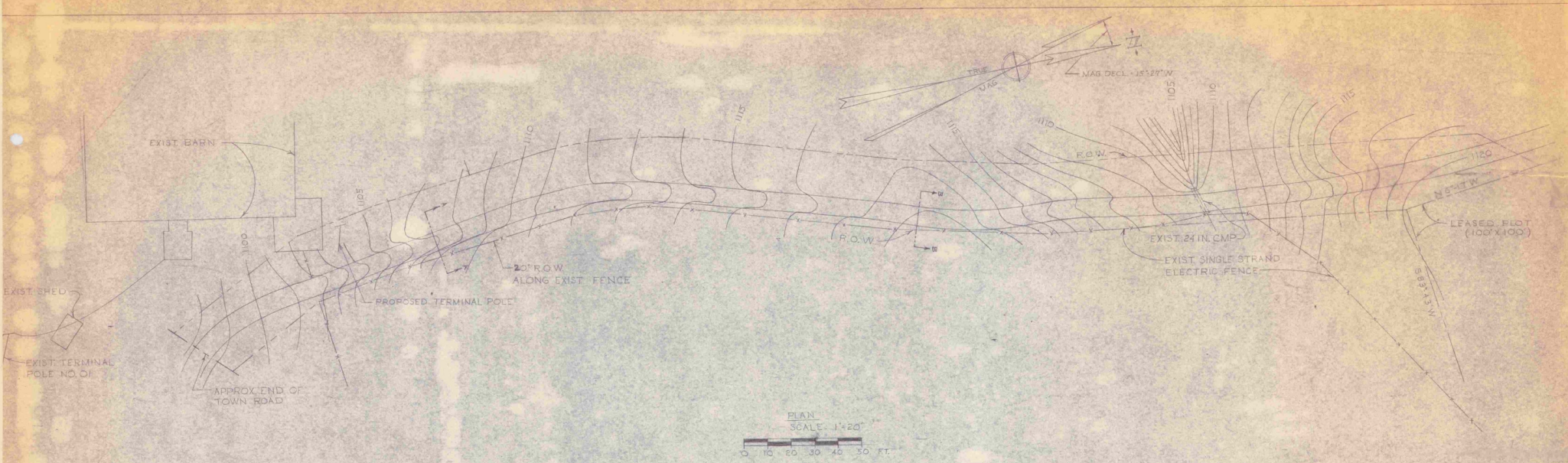
- LEGEND
- ① GROUND RADIAL SYSTEM SEE DRAWING NE-D-21598 (SK.2)
 - ② FLAT TOP ANTENNA SEE DRAWING NE-D-21598 (2), D-40MB
 - ③ SKILL EQUIPMENT SHELTER SEE DRAWING NE-D-2078 (2) NE-D-21598
 - ④ TRANSFORMER, ENCLOSURE SEE DRAWING EN-D-2455
 - ⑤ CLASS "C" SEE DRAWING 366
 - ⑥ GRAVEL SURFACE ROAD & PARKING AREA

NOTE

- 1 THE RESIDENT ENGINEER SHALL STAKE OUT THE CABLE TRENCH

REV.	DATE	DESCRIPTION	CHECKED	APPROVED
FEDERAL AVIATION ADMINISTRATION				
EASTERN REGION NEW YORK, N.Y.				
MONTPELIER, VT.				
BARRE-MONTPELIER STATE AIRPORT				
ILS R/W 17				
COMPASS LOCATOR VICINITY SKETCH				
REVIEWED BY	SUBMITTED BY	APPROVED BY	DATE	REV.
	<i>Stetler</i>	<i>CH Schulze</i>	6-13-72	
DESIGNED BY	ISSUED BY	DATE	REV.	
		NE-D-21598		
CHECKED BY				

EF 10400
COMPASS LOCATOR
VICINITY SKETCH



FEDERAL AVIATION ADMINISTRATION

MONTPELIER, VT

BARRE-MONTPELIER STATE AIRPORT

ILS R/W 17

COMPASS LOCATOR: ACCESS ROAD - PLAN & X-SECTIONS

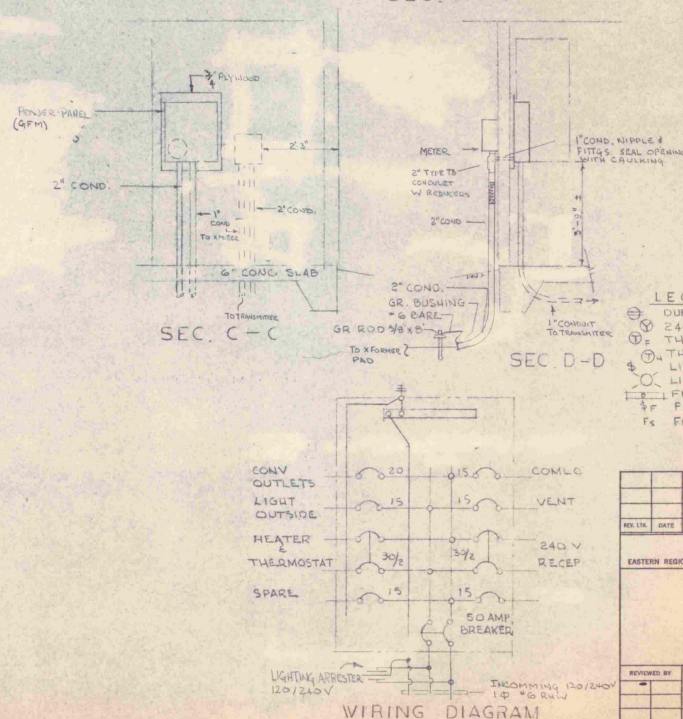
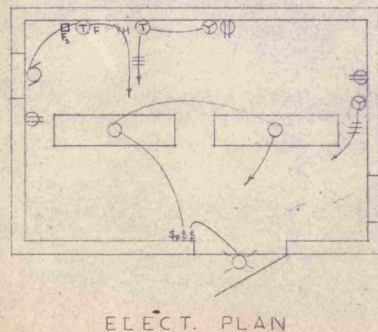
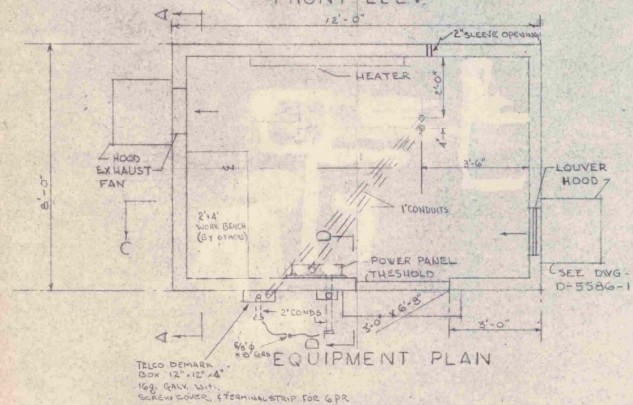
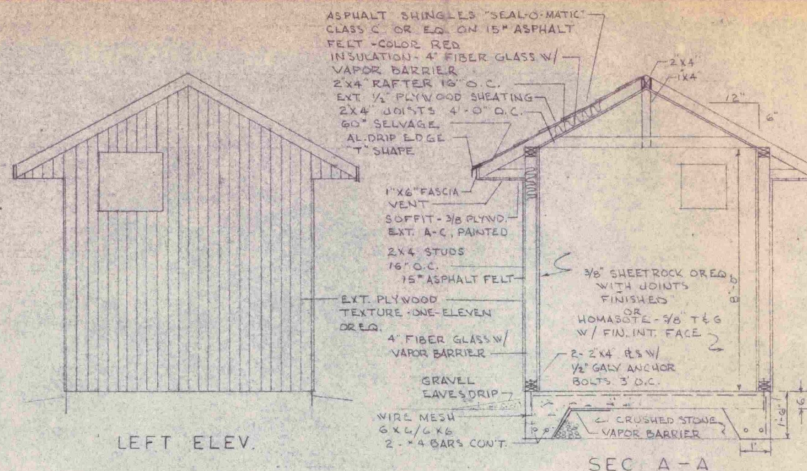
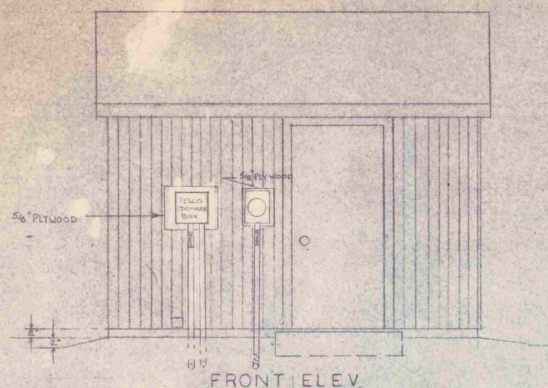
Wentz

C.H. Shultz

DATE: 7-2-72

NO. D-21598

Scale: 1" = 10'

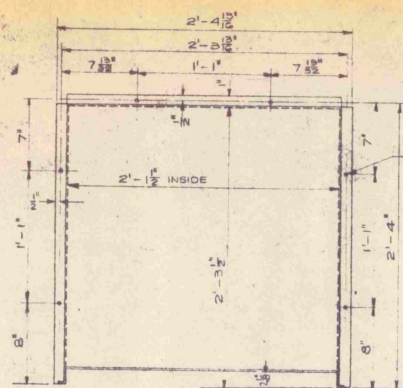


- NOTES

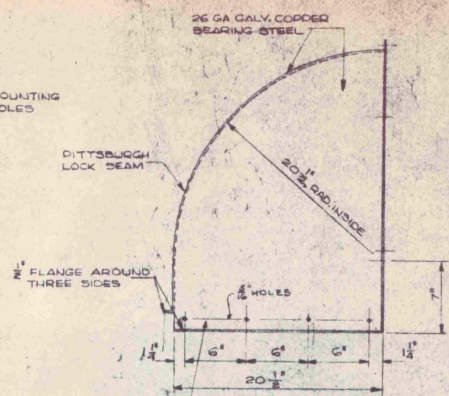
1. ELECTRICAL WIRING SHALL CONFORM TO SPEC. FA. 7-1217 & NATIONAL ELECT. CODE.
2. MOUNT ARRESTER IN BUILDING, CONNECT TO INCOMING SERVICE.
3. ALL CONDUIT RISERS SHALL INCLUDE FLEX. CONDS.
4. ALL CONDUIT TERMINATED IN BOXES, PANELS SHALL HAVE DOUBLE LOCKWYTS & BUSHINGS.
5. ALL UNDERGROUND CONDUITS TERMINATE WITH GROUNDING BUSHINGS.
6. METER TO BE INSTALLED BY POWER CO.
7. THE CONTRACTOR IS TO PROVIDE ALL WORK UNLESS NOTED BY OTHERS.
8. EQUIPMENT TO BE INSTALLED IN THE BLDG. SHALL CONFORM TO COMPASS LOCATOR BUILDING EQUIPMENT SPEC.

- LEGEND
- ⊕ DUPLEX REC 4' ABOVE FLOOR.
⊙ 240V REC 4' ABOVE FLOOR.
⊕ THERMOSTAT - FAN
⊕ THERMOSTAT - HEATER
⊕ LIGHT SWITCH 4' 6" ABOVE FLOOR
⊙ LIGHT FIXTURE - EXT.
⊕ FLUORESCENT LIGHT FIX.
⊕ FAN - MANUAL STARTER
F₆ FUSTAT

NO. 176	DATE	DESCRIPTION	CHECKED	APPROVED	
FEDERAL AVIATION ADMINISTRATION					
EASTERN REGION			NEW YORK, N.Y.		
ILS COM LO BLDG PLANS & ELEVATIONS					
FORWARDED BY	SUBMITTED BY			APPROVED BY	
-	<i>Whetalla</i>			<i>C.H. Schulz</i>	
DRAWN BY	DESIGNED BY	ISSUED BY		DATE	
				7-5-72	
CHECKED BY	NE-436		REMARKS: NE-D-21610		



FRONT VIEW

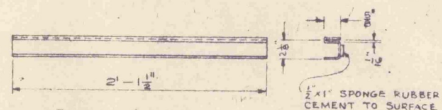


SIDE VIEW

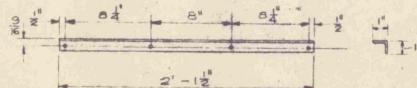
① FASTEN SIDE GUIDES TO SIDE PIECES OF HOOD WITH $\frac{1}{4}$ " B.H. SCREWS, NUTS & LOCKWASHERS, NUTS OUTSIDE.



① SIDE FILTER GUIDE
16 GA. GALV.
2 REQ.

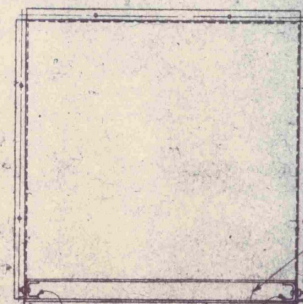


② FRONT COVER
16 GA. GALV.
1 REQ.



③ REAR FILTER SUPPORT
16 GA. GALV.
1 REQ.

③ FASTEN REAR FILTER SUPPORT TO BUILDING WALL AT INSTALLATION WITH NO. 14 $\times \frac{1}{2}$ " Q.H. SHEET METAL SCREWS

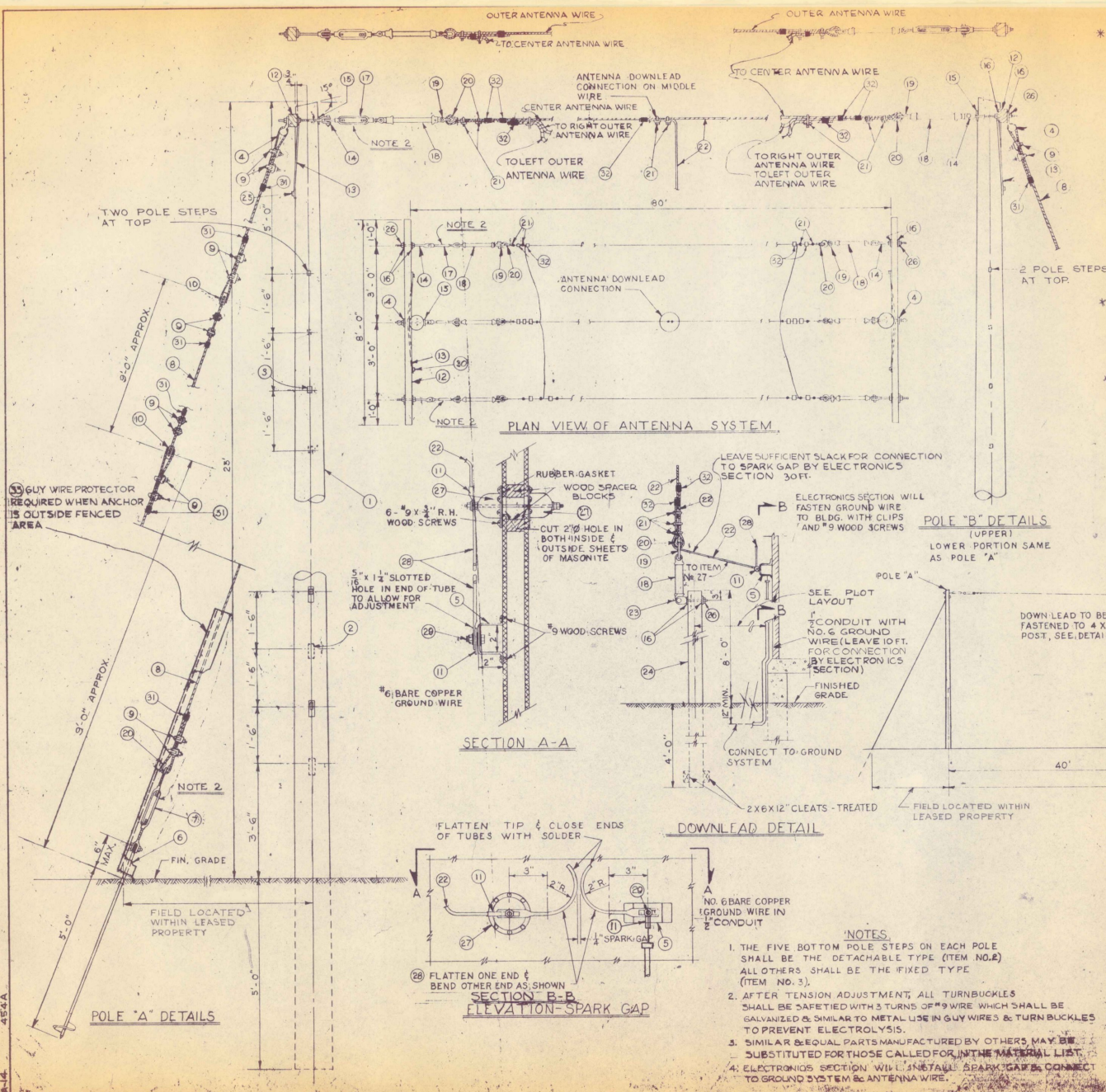


ASSEMBLY VIEW

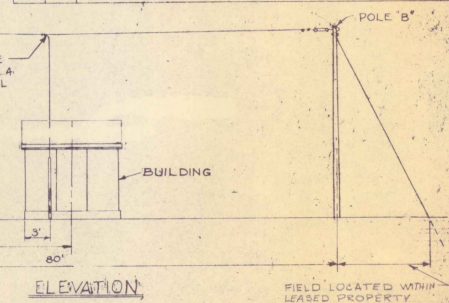
NOTES

- HOOD SHALL BE SHIPPED KNOCKED DOWN FOR FIELD ASSEMBLY.
- HOOD SHALL ACCOMMODATE ONE 19 $\frac{1}{2}$ " $\times$ 24 $\frac{1}{2}$ " $\times$ 2" FILTER TO BE SUPPLIED BY OTHERS.
- MAKE $\frac{1}{8}$ " HEM ON ALL FLANGES OF HOOD.
- EACH COMPLETE HOOD SHALL BE PACKED IN A CARDBOARD CARTON SUITABLE FOR DOMESTIC SHIPMENT. EACH CARTON SHALL CONTAIN ASSEMBLY INSTRUCTIONS TO BE FURNISHED BY THE GOV'T. AND EACH CARTON SHALL BE MARKED WITH THE FOLLOWING: HOOD, TYPE HV-1, PURCHASE ORDER NO. (NUMBER).
- TOLERANCE FOR HOLE DIMENSIONS AND FOR ASSEMBLED HOOD DIMENSIONS IS $\pm \frac{1}{16}$ ".
- A PROTECTIVE SHEET METAL STRIP SHALL BE PLACED IN EACH UNASSEMBLED LOCK BEAM JOINT TO PREVENT DAMAGE DURING HANDLING AND SHIPPING.
- FURNISH THE FOLLOWING WITH EACH HOOD:
6- $\frac{1}{4}$ " $\times$ 2 $\frac{1}{2}$ " Q.H. MACHINE SCREWS WITH NUTS & LOCKWASHERS.
4-NO. 14 $\times \frac{1}{2}$ " Q.H. SHEET METAL SCREWS.
ALL SCREWS AND LOCKWASHERS TO BE ZINC COATED.
- PAINT ALL CORNERS OF SHEET METAL BENDS WHERE GALVANIZING IS CRACKED OR LOOSE. THE PAINT SHALL BE ALUMINUM IN ACCORDANCE WITH FEDERAL SPECIFICATION TT-A-468 OF THE LATEST ISSUE IN EFFECT.

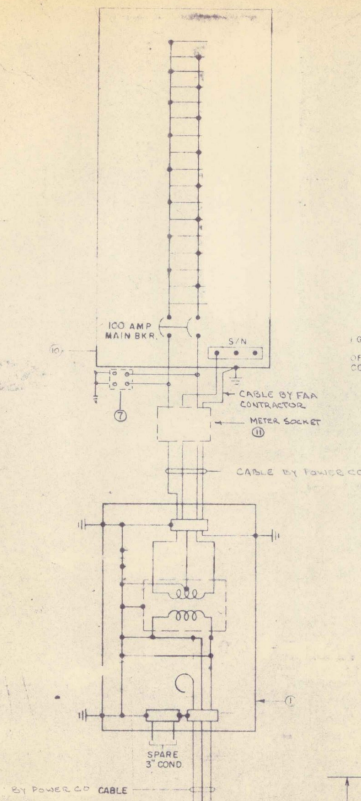
NO.	REVISIONS	DATE	CHG'D	BY
FEDERAL AVIATION AGENCY AVIATION FACILITIES SERVICE SYSTEMS EQUIPMENT DIVISION PLANT ENGINEERING BRANCH WASHINGTON 25, D.C.				
HOOD, HV-1A TYPE SHOP DETAILS				
DESIGNED BY	CHECKED BY		APPROVED BY	
DATE	DATE		DATE	



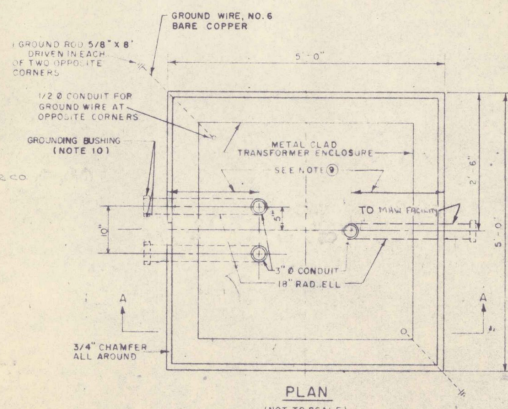
ITEM NO.	DESCRIPTION	QUANTITY
1	2 POLES, WOOD, 80 FT. LONG, CLASS 3, FULL LENGTH, PRESSURE TREATED, PAINTABLE.	2
2	10 STEPS, POLE DETACHABLE, GALV., HUBBARD NO. 7236 (LAG AND PLATE) AND NO. 7236 STEP, GALV.	10
3	16 STEPS, POLE, HOOK HEAD 5/8" x 6", GALV., HUBBARD NO. 7124.	16
4	2 ANGLE THIMBLE, HUBBARD #100 FOR 1/2" BOLT, GALV.	2
5	1 BRACKET, 10 GA. 1/2" STEEL FLAT, GALV. (AS SHOWN).	1
6	2 ANCHORS, GUY, STEEL WING, OVAL EYE, 3/4" x 5/8" FT., GALV. HUBBARD NO. 7326-A.	2
7	2 TURNBUCKLES, EYE & CLEVIS, 1/2" x 12 HUBBARD #713, GALV.	2
8	1011 STRAND, STEEL 3/4, GUY, SIEMENS-MARTIN - GALV. CLASS "A" COATING OR BETTER	1011
9	24 CLIPS FOR 1/2" WIRE ROPE, HUBBARD # 7481, GALV.	24
10	4 INSULATORS, GUY, PORCELAIN, 1 1/2" HOLES, HUBBARD NO. 506-TERMINAL LUG, (AS SHOWN)	4
11	2 CROSSARMS, WOOD, 8" x 8", STANDARD 3/4" x 4 1/4" CREOSOTED.	2
12	BRACES, CROSSARM, FLAT, 3/4" x 1 1/2" x 32" GALV. HUBBARD NO. 8032.	4
13	4 BOLTS, CLEVIS, 3/4" x 14" HUBBARD NO. 6814, GALV. WITH NUT	4
14	2 WASHERS, CURVED, 2 1/2" x 2 1/2", HUBBARD NO. 7822, GALV.	2
15	10 WASHERS, SQUARE, 2" x 2", HUBBARD NO. 7812, GALV.	10
16	3 TURNBUCKLES, EYE & CLEVIS, 1/2" x 6" HUBBARD #643, GALV.	3
17	7 INSULATOR, ANTENNA, LAPP INSULATOR CO. #43808 P12, 12 INCH.	7
18	7 SHACKLES, DROP FORGED STEEL 2" x 1 1/2" WITH 3/8" DIA. PIN GALV., HUBBARD NO. 6793.	7
19	9 THIMBLES, FOR 3/4" WIRE ROPE, GALVANIZED - HUBBARD #7593	9
20	19 CONNECTORS, COPPER, KEARNEY NO. 840-2.	19
21	20 FT. WIRE, ANTENNA #4 STRANDED SILICON BRONZE OR EQUAL.	20
22	1 BOLT, CLEVIS, 3/4" x 5" HUBBARD NO. 6805 GALV. WITH NUT	1
23	1 POST, WOOD, 4 x 4 x 12 FT. LONG, DOUGLAS FIR OR EQUAL - PRESSURE TREATED.	1
24	2 LAG SCREWS, 1/2" x 3", GALV.	2
25	2 NUTS, HEX. 5/8" GALV.	2
26	2 BOWL INSULATOR, LOCKE NO. 24107 WITH GALV. 1/2" x 6 1/2" STUD BOLT.	2
27	1 SET ARCING HORNS, 3/4" O.D. COPPER TUBES (FABRICATE AS SHOWN)	1
28	2 GUY WIRE PROTECTOR WITH 2" BOLTS - HUBBARD #7558	2
29	1 BOLT, 1/2" x 1 1/2" WITH NUT, LOCK WASHER, 2 PLAIN WASHERS - ALL GALV.	1
30	4 CARRIAGE BOLT, 3/8" x 4", GALV.	4
31	12 SERVISLEEVES #7453 HUBBARD GALV.	12
32	17 SERVISLEEVES #7452 HUBBARD GALV.	17



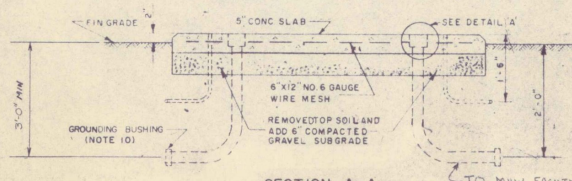
GOVERNMENT FURNISHED			
7	ADDITIONAL INSULATOR IN SECT. A-A	11-20-45	PRP
6	CHANGED NOTES, PARTS LIST, AND CONNECTIONS OF 2, 3, 22 IN PLAN VIEW, ALSO IN SPARK GAP ELEVATION. NOTED SECT. B-B.	7-10-61	WHP/JS
5	REVISED, SECT. A-A, ADDED NOTE	4-15-60	WHP/JS
4	AS PER REGIONAL SUGGESTION - MINOR REVISIONS	9-14-59	WHP/JS
3	ROTATED POLE STEPS 90°	1-18-59	WHP/JS
2	REDRAWN AND MINOR REVISIONS	7-23-56	WHP/JS
1	MINOR REVISIONS	12-11-57	WHP/JS
NO	REVISIONS	DATE	APPROVED
CIVIL AERONAUTICS ADMINISTRATION OFFICE OF FEDERAL AIRPORTS ESTABLISHMENT ENGINEERING DIVISION			
INSTRUMENT LANDING SYSTEM COMPASS LOCATOR - FLAT TOP TYPE T ANTENNA DETAILS & ERECTION			
1-12-72 D-4898			



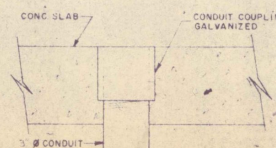
WIRING DIAGRAM



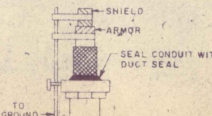
PLAN
(NOT TO SCALE)



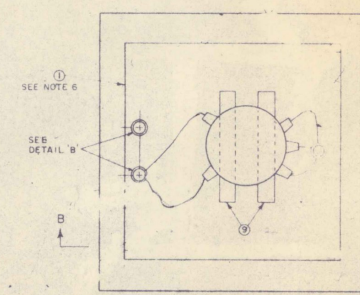
SECTION A-A



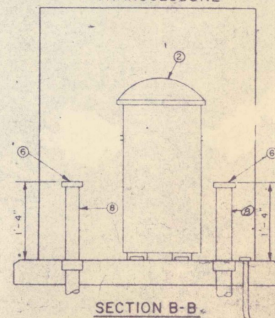
DETAIL 'A'



DETAIL 'B'



PLAN
TRANSCLASURE



SECTION B-B

- EQUIPMENT LIST**
- * ① TRANSCLASURE 54" X 54" X 71" H
 - ② TRANSFORMERS 2400-120/240 VOLTS 10 KVA
FURNISHED AND INSTALLED BY POWER CO.
 - ③ INSULATING BUSHING GROUNDING TYPE 02 BL3104 OR EQUAL
 - ④ LOW VOLTAGE LIGHTING ARRESTOR 100/240 V
 - ⑤ 3" CONDUIT GALVANIZED STEEL
 - ⑥ SUPPORT CHANNEL 3" X 3" X 4"
 - * ⑦ DISTRIBUTION PANEL 120/240, 55 AMP MAIN BREAKER
 - ⑧ THE METER SOCKET AVAILABLE FROM POWER CO.

* GOVERNMENT FURNISHED EQUIPMENT.

- NOTES**
1. ALL ELECTRICAL WORK SHALL CONFORM TO THE NATIONAL ELECTRIC CODE AND LOCAL REGULATIONS.
 2. GROUND ALL NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT USING #6 BARE COPPER WIRE. USE SPLIT BOLT CONNECTORS AND GROUNDING LUGS FOR THE ABOVE UNLESS OTHERWISE SPECIFIED.
 3. ALL GROUND WIRE FOLLOWING STEEL FRAME SHALL BE FASTENED AT LEAST EVERY 18" AND WITHIN 6" FROM BEND OR JUNCTION. THE SHAPING OF GROUND WIRE SHALL FOLLOW PARALLEL OR PERPENDICULAR TO ALL SURFACES.
 4. CHAMFER 3/4" TO 5/8" CABLE FITTING, FROM INSIDE OF TRANSCLASURE PANEL TO BE COMPATIBLE WITH POWER REQUIREMENTS.
 5. ALL CONDUIT FITTINGS, NUTS, BOLTS AND STEELWORK SHALL BE GALVANIZED.
 6. STENCIL THE FOLLOWING ON HINGED DOORS IN "I" LETTERS "TO DE-ENERGIZE TRANSFORMER, CUTOFF MUST BE OPEN."
 7. THE 1/2" CONDUITS FOR THE GROUND WIRE SHALL TERMINATE AT PAD LEVEL WITH BUSHING.
 8. GROUND RESISTANCE SHALL NOT EXCEED 10 OHMS. ADDITIONAL GROUND RODS SHALL BE INSTALLED IF NECESSARY TO MEET THIS REQUIREMENT.
 9. DUE TO DIFFERENT SIZES OF TRANSFORMERS AND ENCLOSURES THE DIMENSION FOR PLACEMENT OF CONDUIT SHALL BE DETERMINED IN FIELD.
 10. SPARE CONDUIT SHALL BE CAPPED ON BOTH ENDS.
 11. SEE DR. NO. W-0-01578, SHEETS 1 & 2, FOR LOCATION AND LAYOUT.

DRAWING NOT TO SCALE

NO.	DATE	REVISION	DESIGNED	CHECKED
1				

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

XFMR. AND WIRING DIAGRAM

4/1/72

EA-0-24852