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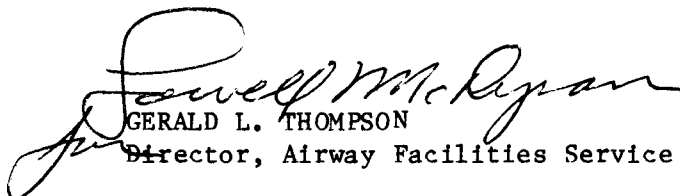
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

6340.18

11/17/80

SUBJ: AIR ROUTE SURVEILLANCE RADAR (ARSR-2) STEEL TOWER STANDARD DRAWINGS.

1. PURPOSE. This order lists the ARSR-2 tower standard drawings, series D-5547 and D-5548 in appendix 1. It includes drawings to be used when FPS-60 series radar antennas are installed on ARSR-2 towers.
2. DISTRIBUTION. This order is distributed to the division level in the Airway Facilities and Systems Research and Development Services in Washington headquarters; to branch level in the regional Airway Facilities divisions (except AEU); the FAA Depot and the Facility Support Division at the Aeronautical Center and to the Director, FAA Technical Center.
3. BACKGROUND. This series of drawings was developed and distributed in 1960. There is now no current order which lists the drawings. Therefore, this order lists all the drawings with the latest revision date.
4. APPLICATION. These drawings shall be used for the fabrication and erection of ARSR-2 antenna towers. Inquiries or comments regarding these drawings should be directed to the Chief, Environmental Systems Division, AAF-500.
5. DEVIATION FROM STANDARDS. No deviation from the standard is authorized without the prior approval of the Director, Airway Facilities Service. Dimensional errors, discrepancies, or suggestions for modification or addition of details should be brought to the attention of Chief, Environmental Systems Division, AAF-500.
6. CORRECTIONS TO STANDARDS. Correction to the standards may be made by the Director, Airway Facilities Service, without further regional or interservice coordination. These may include misspellings, correction of dimensional errors, and modification, addition, or deletion of minor details.
7. DISTRIBUTION OF DRAWINGS. Reproducible copies of the drawings may be obtained from the Administrative Staff, AAF-10, Airway Facilities Service.


GERALD L. THOMPSON
Director, Airway Facilities Service

Distribution: A-W(AF/RD)-2; A-X(AF)-3;
A-Y(DE/FA)-3; A-Z-1

Initiated By: AAF-510

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Appendix 1

APPENDIX 1. AIR ROUTE SURVEILLANCE RADAR (ARSR-2) STEEL TOWER DRAWINGS

<u>Drawing</u>	<u>Date</u>	<u>Title</u>
D-5547-1	5-17-62	ARSR-2 Tower, Tower Elevation, Anchor Bolt Plan & Dwg. Requirements.
D-5547-2	4-30-65	ARSR-2 Tower, Parts Lists for Sub-Assemblies.
D-5547-3	4-30-65	ARSR-2 Tower, Parts List & Erection Sequence, Parts List and Shipping Requirements.
D-5547-4	4-30-65	ARSR-2 Tower, Section "A-A" Top Deck.
D-5547-5	5-17-62	ARSR-2 Tower, Truss Assembly Dwgs. Top Sect.
D-5547-6	5-17-62	ARSR-2 Tower, Stair Details & Erect. Dwgs. For Top Sect. Mezz. Level "B-B".
D-5547-7	5-17-62	ARSR-2 Tower, Sect. "B-B" & "C-C" Erect.
D-5547-8	5-17-62	ARSR-2 Tower, Stair Details & Erect., Dwg for Mid Sect. Levels "C-C" & "D-D".
D-5547-9	5-17-62	ARSR-2 Tower, Sect. "D-D" & "E-E" Erect.
D-5547-10	7-15-80	ARSR-2 Tower, Stair Details & Erect. "E-E" & "F-F" Level & Top Sect. Work Platform.
D-5547-11	5-17-62	ARSR-2 Tower, Sect. "F-F" Erect.
D-5547-12	5-17-62	ARSR-2 Tower, Grating Assembly Erect. at Mezz. Floor and Lower Levels.
D-5547-13	4-30-65	ARSR-2 Tower, Shipping List - 75' Tower.
D-5547-14	4-30-65	ARSR-2 Tower, Shipping List - 50' Tower.
D-5547-15	4-30-65	ARSR-2 Tower, Shipping List - 25' Tower.
D-5547-16	5-17-62	ARSR-2 Tower, Grating Erection Layout @ Main Floor.

<u>Drawing</u>	<u>Date</u>	<u>Title</u>
D-5547-17	5-17-62	ARSR-2 Tower, Floor Plate Erection Layout @ Main Floor, Dome Support Ring Erection.
D-5547-18	10-28-60	ARSR-2 Tower, Dome Support Ring Erection
D-5547-19	11-14-60	ARSR-2 Tower, Obstruction Lights - Disconnect Type, Erection.
D-5547-20	4-30-65	ARSR-2 Tower, Wave Guide & Conduit Support Details (Sheet 1).
D-5547-21	4-30-65	ARSR-2 Tower, Wave Guide & Support Details, (Sheet 2).
D-5547-22	4-30-65	ARSR-2 Tower, Wave Guide Support & Erections
D-5547-23	4-30-65	ARSR-2 Tower, Antenna Pedestal Platform Framing.
D-5548-0	8-20-80	ARSR-2 Tower, Title Sheet
D-5548-00	8-20-80	ARSR-2 Tower, Index Sheet
D-5548-1	10-28-60	ARSR-2 Tower, Base Assemblies & Anchor Bolts For 25', 50' & 75' Towers & Misc. Steel.
D-5548-2	10-28-60	ARSR-2 Tower, Gusset Plates.
D-5548-3	10-28-60	ARSR-2 Tower, Gusset Plates.
D-5548-4	10-28-60	ARSR-2 Tower, Column Legs & Vertical & Diagonal Bracing.
D-5548-5	10-28-60	ARSR-2 Tower, Bracing & Beams At Stair Landings.
D-5548-6	10-28-60	ARSR-2 Tower, Stairs - Handrail & Misc. Steel.
D-5548-7	10-28-60	ARSR-2 Tower, Gusset Plates.
D-5548-8	10-28-60	ARSR-2 Tower, Gusset Plates.

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Appendix 1

<u>Drawing</u>	<u>Date</u>	<u>Title</u>
D-5548-9	10-28-60	ARSR-2 Tower, Gusset Plates & Clip Angles.
D-5548-10	10-28-60	ARSR-2 Tower, Gusset Plates.
D-5548-11	10-28-60	ARSR-2 Tower, Truss Members.
D-5548-12	10-28-60	ARSR-2 Tower, Truss Members.
D-5548-13	10-28-60	ARSR-2 Tower, Truss Members.
D-5548-14	6-17-62	ARSR-2 Tower, Platform Framing.
D-5548-15	10-28-60	ARSR-2 Tower, Miscellaneous Steel.
D-5548-16	5-17-62	ARSR-2 Tower, Handrails & Handrail Posts.
D-5548-17	4-30-65	ARSR-2 Tower, Miscellaneous Steel.
D-5548-18	4-30-65	ARSR-2 Tower, Cover Plates & Miscellaneous Steel.
D-5548-19	10-28-60	ARSR-2 Tower, Miscellaneous Steel.
D-5548-20	10-28-60	ARSR-2 Tower, Miscellaneous Steel.
D-5548-21	5-17-62	ARSR-2 Tower, Miscellaneous Steel
D-5548-22	4-30-65	ARSR-2 Tower, Hangers & Stairwell Enclosure Steel Mesh.
D-5548-23	10-28-60	ARSR-2 Tower, Handrails & Handrail Posts.
D-5548-24	10-28-60	ARSR-2 Tower, Handrails & Miscellaneous Steel.
D-5548-25	4-30-65	ARSR-2 Tower, Miscellaneous Steel.
D-5548-27	5-17-62	ARSR-2 Tower, Grating & Stair Treads, Misc. Details.

<u>Drawing</u>	<u>Date</u>	<u>Title</u>
D-5548-28	5-17-62	ARSR-2 Tower, Grating Details @ Main Floor.
D-5548-30	5-17-62	ARSR-2 Tower, Grating Details @ Main Floor.
D-5548-31	10-28-60	ARSR-2 Tower, Floor Plate Details @ Main Floor.
D-5548-32	4-30-65	ARSR-2 Tower, Floor Plate Details @ Main Floor.
D-5548-33	10-28-60	ARSR-2 Tower, Dome Support Ring Details.
D-5548-34	10-28-60	ARSR-2 Tower, Stair Well Cover Details.
D-5548-35	7-15-80	ARSR-2 Tower, Miscellaneous Steel.
D-5548-36	8-20-80	ARSR-2 Tower, FPS-60 Series Radar, Radome Mounting Ring on ARSR-1 & 2 Towers.
D-5548-37	8-20-80	ARSR-2 Tower, FPS-60 Series Radar, Antenna Mount Adaptor Beams on ARSR 1 & 2 Towers.