

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

6820.9

6/3/83

SUBJ: YOR, VOR/DME, VORTAC INSTALLATION STANDARD DRAWINGS

- PURPOSE. This order directs the use of the following standard installation 1. drawings for the FA-9996 Very-High-Frequency Omnidirectional Range (VOR), Very-High-Frequency Omnidirectional Range/Distance Measuring Equipment (VOR/DME), Very-High-Frequency Omnidirectional Range Tactical Air Navigation (VORTAC) equipment. See appendices 1 and 2.
- DISTRIBUTION. This order is distributed to branch level in Systems Engineering and Program Engineering and Maintenance services within Washington headquarters, the FAA Technical Center, and the Aeronautical Center, and to branch level within regional Airway Facilities divisions.
- APPLICATION. These drawings coordinate the available information from existing installations to give a standard floor layout for the FA-9996 VOR, VOR/DME, VORTAC installation. Detailed information is contained in the latest edition of Order 6820.8 VOR, VOR/DME, VORTAC Installation Standards Handbook.
- DEVIATION FROM STANDARD. No deviation from the standard is authorized without prior approval of the Director, Program Engineering and Maintenance Service. Regional site adaptation to accommodate terrain, utility connections, parking lots, access roads, and similar details is authorized without further clearance. Dimensional errors, discrepancies, or suggestions for modification or addition of details should be brought to the attention of Chief, Navigation and Landing Division, APM-400, Program Engineering and Maintenance Service.
- 5. CORRECTIONS TO STANDARD. Corrections to the standards may be made by the Director, Program Engineering and Maintenance Service, without further regional or interservice coordination. These may include misspellings, corrections of dimensional errors, and modification, addition, or deletion of minor details.
- DISTRIBUTION OF DRAWINGS. A reproducible copy of each drawing is being forwarded to the FAA Technical Center, each region (except AEU), Attention: Airway Facilities Division, and two copies of each drawing to the Aeronautical Center, Attention Chief, FAA Depot. Additional copies of the drawings may be obtained from the Program Engineering and Maintenance Service, Attention: APM-10.

Director, Program Engineering and Maintenance Service

APPENDIX 1. D-6189 SERIES DRAWINGS, VOR, VOR/DME, AND VORTAC FACILITIES, FA-9996 EQUIPMENT INSTALLATION

Drawing	Date	Rev.	<u>Title</u>
D-6189-001	2/22/83		VOR, VOR/DME, VORTAC Facility, 36' x 36' Building Floor Plan and Duct Layout, FA-9996 Equipment Installation
D-6189-002	2/22/83		VOR, VOR/DME, VORTAC Facility, 36' x 36' Building Equipment and Duct, FA-9996 Equipment Installation Details
D-6189-003	2/22/83		VOR, VOR/DME, VORTAC Facility, 25' x 31' Building Floor Plan and Duct Layout, FA-9996 Equipment Installation
D-6189-004	2/22/83		VOR, VOR/DME, VORTAC Facility, 25' x 31' Building Equipment and Duct, FA-9996 Equipment Installation Details
D-6189-005	2/22/83		VOR, VOR/DME, VORTAC Facility, 20' x 36' Building Floor Plan and Duct Layout (Type S Building), FA-9996 Equipment Installation
D-6189-006	2/22/83		VOR, VOR/DME, VORTAC Facility, 20' x 36' Building Equipment and Duct (Type S Building), FA-9996 Equipment Installation Details
D-6189-007	2/22/83		VOR, VOR/DME, VORTAC Facility, 16' x 28' Building Floor Plan and Duct Layout, FA-9996 Equipment Installation (VORTAC)
D-6189-008	2/22/83		VOR, VOR/DME, VORTAC Facility, 16' x 28' Building Equipment and Duct, FA-9996 Equipment Installation Details (Installation Plan A - VORTAC)
D-6189-009	2/22/83		VOR, VOR/DME, VORTAC Facility, 16' x 28' Building Equipment and Duct, FA-9996 Equipment Installation Details (Installation Plan B - VORTAC)
D-6189-010	2/22/83		VOR, VOR/DME, VORTAC Facility, 16' x 28' Building Floor Plan and Duct Layout, FA-9996 Equipment Installation (VOR/DME)
D-6189-011	2/22/83		VOR, VOR/DME, VORTAC Facility, 16' x 28' Building Equipment and Duct, FA-9996 Equipment Installation Details (VOR/DME)
D-6189-012	2/22/83		VOR, VOR/DME, VORTAC Facility, 16' x 16' Building Floor Plan and Duct Layout

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Drawing	Date	Rev.	Title
D-6189-013	2/22/83		VOR, VOR/DME, VORTAC Facility, 16' x 16' Building Equipment and Duct, FA-9996 Equipment installation Details
D-6189-014	2/22/83		VOR, VOR/DME, VORTAC Facility, 10' x 24' Trailer Floor Plan and Duct Layout, FA-9996 Equipment Installation
D-6189-015	2/22/83		VOR, VOR/DME, VORTAC Facility, 10' x 24' Trailer Equipment and Duct, FA-9996 Equipment Installation Details
D-6189-016	2/22/83		VOR, VOR/DME, VORTAC Facility, 19' Hex Building Floor Plan and Duct Layout, FA-9996 Equipment Installation
D-6189-017	2/22/83		VOR, VOR/DME, VORTAC Facility, 19' Hex Building Equipment and Duct, FA-9996 Equipment Installation Details
D-6189-018	2/22/83		VOR, VOR/DME, VORTAC Facility, 21' Diameter Building Floor Plan and Duct Layout, FA-9996 Equipment Installation
D-6189-019	2/22/83		VOR, VOR/DME, VORTAC Facility, 21' Diameter Building Equipment and Duct, FA-9996 Equipment Installation Details (Installation Plan A)
D-6189-020	2/22/83		VOR, VOR/DME, VORTAC Facility, 21' Diameter Building Equipment and Duct, FA-9996 Equipment Installation Details (Installation Plan B)
D-6189-021	2/22/83		VOR, VOR/DME, VORTAC Facility, 32' Diameter Building Floor Plan and Duct Layout, FA-9996 Equipment Installation
D-6189-022	2/22/83		VOR, VOR/DME, VORTAC Facility, 32' Diameter Building Equipment and Duct, FA-9996 Equipment Installation Details
D-6189-023			VOR, VOR/DME, VORTAC Facility, Miscellaneous Shelter Installation Details, FA-9996 Equipment Installation Details
D-6189-024	2/22/83		VOR, VOR/DME, VORTAC Facility, Ground Check System Typical Layout & Conduit Details, FA-9996 Equipment Installation Details
D-6189-025	2/22/83		VOR, VOR/DME, VORTAC Facility, Ground Check System Miscellaneous Installation Details, FA-9996 Equipment Installation Details

Drawing	Date	Rev.	<u>Title</u>
D-6189-026	2/22/83		VOR, VOR/DME, VORTAC Facility, Mountaintop Facility Plot Layout & Trenching Details, FA- 9996 Equipment Installation Details
D-6189-027	2/22/83		VOR, VOR/DME, VORTAC Facility, Mountaintop Facility Ground Check System Installation Details, FA-9996 Equipment Installation Details
D-6189-028	2/22/83		VOR, VOR/DME, VORTAC Facility, 36' x 36' Building Floor Plan and Duct Layout (Mountaintop VORTAC Facility), FA-9996 Equipment Installation Details
D-6189-029	2/22/83		VOR, VOR/DME, VORTAC Facility, 36' x 36' Building Equipment and Duct Installation Details (Mountaintop VORTAC Facility), FA-9996 Equipment Installation Details
D-6189-030 A, B, C	2/22/83		VOR, VOR/DME, VORTAC Facility, VORTAC Station Interconnect Wiring Diagram (TACAN Subsystem), FA-9996 Equipment Installation Details
D-6189-031 A, B, C	2/22/83		VOR, VOR/DME, VORTAC Facility, VOR/DME Station Interconnect Wiring Diagram (DME Subsystem), FA-9996 Equipment Installation Details

APPENDIX 2. D-6216 SERIES DRAWINGS, WILCOX/ITT VORTAC-VOR/DME EQUIPMENT REPLACEMENT DRAWINGS

Drawing	Date	Rev.	<u>Title</u>
D-6216-1	1/30/83		VORTAC-VOR/DME Equipment Replacement 36' x 36' Building Floor Plan and Duct Layout (VORTAC Facility)
D-6216-2	1/30/83		VORTAC-VOR/DME Equipment Replacement 36' x 36' Building Equipment and Duct Installation Details (VORTAC Facility)
D-6216-3	1/30/83		VORTAC-VOR/DME Equipment Replacement 25' x 31' Building Floor Plan and Duct Layout (VORTAC Facility)
D-6216-4	1/30/83		VORTAC-VOR/DME Equipment Replacement 25' x 31' Building Equipment and Duct Installation Details (VORTAC Facility)
D-6216-5	1/30/83		VORTAC-VOR/DME Equipment Replacement 20' x 36' Building Floor Plan and Duct Layout (VORTAC Facility) (Type S Building)
D-6216-6	1/30/83		VORTAC-VOR/DME Equipment Replacement 20' x 36' Building Equipment and Duct Installation Details (VORTAC Facility) (Type S Building)
D-6216-7	1/30/83		VORTAC-VOR/DME Equipment Replacement 20' x 36' Building Floor Plan and Duct Layout (VOR/DME Facility) (Type C Building)
D-6216-8	1/30/83		VORTAC-VOR/DME Equipment Replacement 20' x 36' Building Equipment and Duct Installation Details (VOR/DME Facility) (Type C Building)
D-6216-9	1/30/83		VORTAC-VOR/DME Equipment Replacement 16' x 28' Building Floor Plan and Duct Layout (VORTAC Facility)
D-6216-10	1/30/83		VORTAC-VOR/DME Equipment Replacement 16' x 28' Building Equipment and Duct Installation Details (VORTAC Facility) (Installation Plan A)
D-6216-11	1/30/83		VORTAC-VOR/DME Equipment Replacement 16' x 28' Building Equipment and Duct Installation Details (VORTAC Facility (Installation Plan B)

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Drawing	Date	Rev.	<u>Title</u>
D-6216-12	1/30/83		VORTAC-VOR/DME Equipment Replacement 16' x 28' Building Floor Plan and Duct Layout (VOR/DME Facility)
D-6216-13	1/30/83		VORTAC-VOR/DME Equipment Replacement 16' \times 28' Building Floor Plan and Duct Installation Details (VOR/DME Facility)
D-6216-14	1/30/83		VORTAC-VOR/DME Equipment Replacement 16' x 16' Building Floor Plan and Duct Layout (VOR/DME Facility)
D-6216-15	1/30/83	×	VORTAC-VOR/DME Equipment Replacement 16' x 16' Building Equipment and Duct Installation Details (VOR/DME Facility)
D-6216-16	1/30/83		VORTAC-VOR/DME Equipment Replacement 10' x 24' Trailer Floor Plan and Duct Layout (VOR/DME Facility)
D-6216-17	1/30/83		VORTAC-VOR/DME Equipment Replacement 10' x 24' Trailer Equipment and Duct Installation Details (VOR/DME Facility)
D-6216-18	1/30/83		VORTAC-VOR/DME Equipment Replacement 19' Hexagonal Building Floor Plan and Duct Layout (VOR/DME Facility)
D-6216-19 (# mconect # 6219	1/30/83 on draw	ving	VORTAC-VOR/DME Equipment Replacement 19' Hexagonal Building Equipment and Duct Instal- lation Details (VOR/DME Facility)
D-6216-20	1/30/83		VORTAC-VOR/DME Equipment Replacement 21' Diameter Building Floor Plan and Duct Layout (VOR/DME and VORTAC Facilities)
D-6216-21	1/30/83		VORTAC-VOR/DME Equipment Replacement 21' Diameter Building Equipment and Duct Instal- lation Details (Installation Plan A)
D-6216-22	1/30/83		VORTAC-VOR/DME Equipment Replacement 21' Diameter Building Equipment and Duct Instal- lation Details (Installation Plan B)
D-6216-23	1/30/83		VORTAC-VOR/DME Equipment Replacement 32' Diameter Building Floor Plan and Duct Layout (VORTAC Facility)
D-6216-24	1/30/83		VORTAC-VOR/DME Equipment Replacement 32' Diameter Building Equipment and Duct Instal- lation Details (VORTAC Facility)

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Drawing	Date	Rev.	<u>Title</u>
D-6216-25	1/30/83		VORTAC-VOR/DME Equipment Replacement Miscel- laneous Shelter Installation Details
D-6216-26	1/30/83		VORTAC-VOR/DME Equipment Replacement Ground Check System Typical Layout and Conduit Details
D-6216-27	4/26/82		VORTAC-VOR/DME Equipment Replacement Ground Check System Miscellaneous Installation Details
D-6216-28	11/24/82		VORTAC-VOR/DME Equipment Replacement Mountain- top Facility Plot Layout and Trenching Details
D-6216-29	11/24/82		VORTAC-VOR/DME Equipment Replacement Mountain- top Facility Ground Check System Conduit Installation Details
D-6216-30	1/30/83		VORTAC-VOR/DME Equipment Replacement 36' x 36' Building Floor Plan and Duct Layout (Mountaintop VORTAC Facility)
D-6216-31	1/30/83		VORTAC-VOR/DME Equipment Replacement 36' x 36' Building Floor Plan and Duct Installation Details (Mountaintop VORTAC Facility)
D-6216-32	1/30/83		VORTAC-VOR/DME Equipment Replacement Inter- connect Wiring Diagram VORTAC Station (SH 1 of 3) (TACAN Subsystem)
D-6216-32	1/30/83		VORTAC-VOR/DME Equipment Replacement Inter- connect Wiring Diagram VORTAC Station (SH 2 of 3) (Power Subsystem)
D-6216-32	1/30/83		VORTAC-VOR/DME Equipment Replacement Inter- connect Wiring Diagram VORTAC Station (SH 3 of 3) (VOR Subsystem)
D-6216-33	1/30/83		VORTAC-VOR/DME Equipment Replacement Inter- connect Wiring Diagram VOR/DME Station (SH 1 of 3) (DME Subsystem)
D-6216-33	1/30/83		VORTAC-VOR/DME Equipment Replacement Inter- connect Wiring Diagram VOR/DME Station (SH 2 of 3) (Power Subsystem)
D-6216-33	1/30/83		VORTAC-VOR/DME Equipment Replacement Inter- connect Wiring Diagram VOR/DME Station (SH 3 of 3) (VOR Subsystem)

