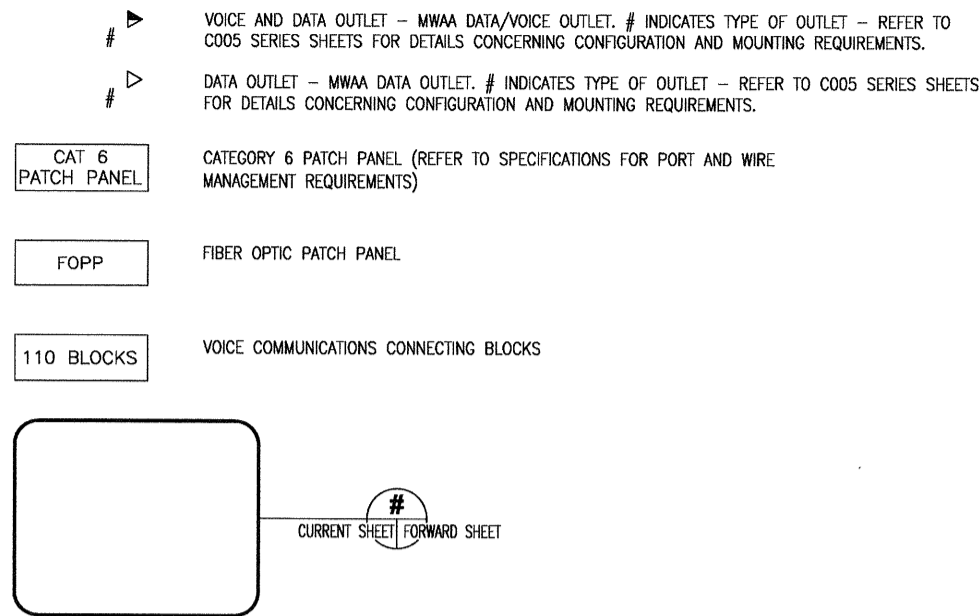
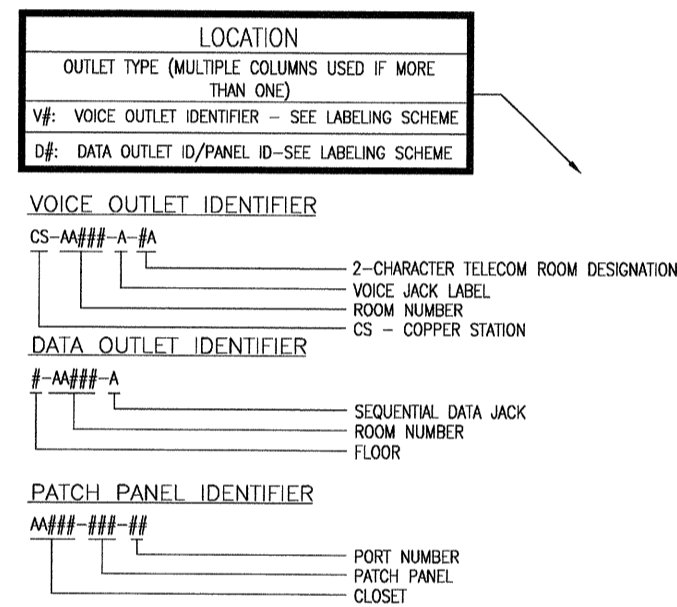


SYMBOLS LEGEND:



COMMUNICATION OUTLET LABELING SCHEME:



ABBREVIATIONS:

- ACS AIRPORT COMMUNICATIONS SYSTEM
- AFF ABOVE FINISHED FLOOR
- AWG AMERICAN WIRE GAUGE
- CAT6 CATEGORY 6
- CBP CUSTOM AND BORDER PATROL
- COTR CONTRACTING OFFICER TECHNICAL REPRESENTATIVE
- EIA ELECTRONIC INDUSTRIES ASSOCIATION
- FOPP FIBER OPTIC PATCH PANEL
- ID IDENTIFIER
- LED LIGHT EMITTING DIODE
- MUFIDS MULTI-USER FLIGHT INFORMATION DISPLAY SYSTEM
- MWAA METROPOLITAN AIRPORTS AUTHORITY
- NEC NATIONAL ELECTRICAL CODE
- PB PULL BOX
- TIA TELECOMMUNICATIONS INDUSTRY ASSOCIATION
- TR TELECOMMUNICATIONS ROOM
- UTP UNSHIELDED TWISTED PAIR
- VMUSE VIRTUAL MULTI-USER SYSTEM ENVIRONMENT

GENERAL NOTES:

1. PLENUM-RATED COMMUNICATIONS CABLING MAY BE INSTALLED IN THE EXISTING CABLE TRAY SYSTEM (SEE CO05 SERIES SHEETS FOR ROUTING). WHERE NOT INSTALLED IN THE CABLE TRAY SYSTEM, SUCH CABLES SHALL BE INSTALLED IN CONDUIT.
2. ALL TELECOMMUNICATIONS CONDUITS, BOXES, CABLE TRAYS AND RACEWAYS SHALL BE INSTALLED PER TIA/EIA-569B STANDARDS. INSIDE BEND RADI OF INNERDUCT AND CONDUITS SHALL BE AT LEAST 6 TIMES INTERNAL DIAMETER FOR INNERDUCT AND CONDUITS UNDER 2 INCHES, AND 10 TIMES THE INTERNAL DIAMETER FOR CONDUITS 2" AND LARGER.
3. BETWEEN PULL POINTS OR PULL BOXES, NO SECTION OF CABLE TRAY, CONDUITS SHALL BE LONGER THAN 100FT, CONTAIN MORE THAN 180 DEGREES OF TOTAL BEND, NOR CONTAIN A REVERSE BEND. PULL BOXES SHALL BE IN STRAIGHT SECTIONS OF CABLE TRAY, CONDUITS BEFORE OR AFTER BENDS, BUT SHALL NOT BE USED IN LIEU OF A BEND. PULL BOXES SHALL HAVE A LENGTH OF AT LEAST 8 TIMES THE TRADE-SIZE DIAMETER OF THE LARGEST RACEWAY.
4. CONDUITS, CABLE TRAYS, JUNCTION AND PULL BOXES SHOWN ARE REQUIRED BUT DO NOT REPRESENT ALL CONDUITS, JUNCTION OR PULL BOXES WHICH MAY BE REQUIRED. ADDITIONAL CONDUITS, JUNCTION OR PULL BOXES SHALL BE PROVIDED AS REQUIRED FOR THE WORK. CONTRACTOR SHALL COORDINATE WITH WORK OF OTHER TRADES BEFORE INSTALLATION OF COMMUNICATION CONDUITS.
5. MINIMUM SIZE OF CONDUIT SHALL BE 1".
6. ALL COMMUNICATIONS CABLING AND TERMINATIONS SHALL BE INSTALLED TO COMPLY WITH TIA/EIA-568B STANDARDS AND TELECOMMUNICATIONS SERVICE BULLETINS. ALL CABLING SHALL BE CONTINUOUS FROM OUTLET TO TELECOM ROOM. USE ALL MEASURES NECESSARY TO PROTECT THE CABLING FROM BEING BENT TIGHTER THAN THE MINIMUM BEND RADIUS.
7. CABLE TRAYS AND CONDUITS SHALL BE PROPERLY SUPPORTED BY TRAPEZE HANGERS, STRUT, OR CONDUIT CLAMPS.
8. CABLE TRAY AND CONDUITS SHALL BE GROUNDED PER NEC REQUIREMENTS. GROUNDING CONDUCTORS AND JUMPERS SHALL BE USED WHERE NECESSARY TO MAINTAIN A CONTINUOUS GROUND PATH.
9. SEAL ALL PENETRATIONS IN CEILINGS, FLOORS, AND WALLS WITH APPROVED 2-HOUR RATED FIRE RESISTANT PACKING AND CAULK. SEAL ALL EXTERIOR PENETRATIONS WITH APPROVED WEATHER-TIGHT CAULK.
10. ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE AND ALL OTHER APPLICABLE STATE AND LOCAL CODES AND REGULATIONS.
11. PATCH ALL HOLES AND DENTS IN WALLS DUE TO WORK OF THIS CONTRACT AND PAINT TO MATCH EXISTING COLOR. PAINT ALL EXPOSED CONDUIT IN FINISHED AREAS TO MATCH SURROUNDING WALL/CEILING COLOR. PAINTING EXPOSED CONDUIT IS NOT REQUIRED ONLY WHERE CONDUIT IS RUN ON UNPAINTED CONCRETE UNLESS EXPOSED DIRECTLY TO WATER (PAINT GRAY WHERE EXPOSED TO WATER).
12. INNERDUCT AND CONDUIT FILL SHALL NOT EXCEED 40%, AND CABLE TRAY FILL SHALL NOT EXCEED 50%, UNLESS OTHERWISE INDICATED. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS FOR FIBER OPTIC CABLES, PATCH PANELS, AND CONNECTORS. USE PLENUM RATED INNERDUCT IN CABLE TRAYS.
13. WHERE CABLES ARE RUN IN CONDUIT, MARK CONDUITS AT 25 FT INTERVALS, ON EACH SIDE OF WALL OR FLOOR WHERE CONDUIT PENETRATES WALL OR FLOOR, AND AT EACH SIDE OF JUNCTION OR PULL BOXES WHERE CONDUIT ENTERS BOX. AFFIX LABELS TO BE VISIBLE FROM NORMAL VIEWING POSITION OF CONDUIT.
14. ALL VOICE STATION CABLING (YELLOW) SHALL BE TERMINATED IN DESIGNATED COMMUNICATIONS ROOMS ON 110 BLOCKS.
15. ALL DATA STATION CABLING (COLOR VARIES) SHALL BE TERMINATED IN DESIGNATED COMMUNICATIONS ROOMS ON CAT 6 PATCH PANELS. REFER TO PLANS FOR SPECIFIC TERMINATION POINTS IDENTIFIED FOR THE VARIOUS CABLING SYSTEMS.
16. CONTRACTOR SHALL VERIFY WITH COTR THE FINAL LOCATIONS OF DATA/VOICE OUTLETS PRIOR TO INSTALLATION.

DESIGN CRITERIA:

THE DESIGN OF THE COMMUNICATIONS SYSTEMS FOR THIS PROJECT IS BASED ON TECHNICAL CRITERIA CONTAINED IN THE FOLLOWING:

1. BUILDING INDUSTRY CONSULTING SERVICE (BICS), TELECOMMUNICATIONS DISTRIBUTION METHOD (TDM) MANUAL, 11TH EDITION
2. TIA/EIA-568-B: COMMERCIAL TELECOMMUNICATIONS WIRING STANDARD
3. EIA/TIA-569-B: COMMERCIAL BUILDING STANDARD FOR TELECOMMUNICATIONS PATHWAYS AND SPACES
4. TIA/EIA-598-A: OPTICAL FIBER CABLE COLOR CODING
5. TIA/EIA-606: ADMINISTRATION STANDARD FOR TELECOMMUNICATIONS INFRASTRUCTURE OF COMMERCIAL BUILDINGS
6. TIA/EIA-607: COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS
7. METROPOLITAN WASHINGTON AIRPORTS AUTHORITY DESIGN MANUAL (2010)
8. METROPOLITAN WASHINGTON AIRPORTS AUTHORITY AIRPORT COMMUNICATIONS SYSTEMS (ACS) DESIGN MANUAL

DEMOLITION NOTES

1. REMOVAL OF COMMUNICATIONS CIRCUITS SHALL BE COORDINATED/SCHEDULED IN ADVANCE WITH THE COTR. THE COTR WILL ARRANGE FOR MWA AND/OR UNITED AIRLINES REPRESENTATIVES TO ENSURE CABLES ARE DISCONNECTED PRIOR TO DEMOLITION. MWA WILL ASSUME RESPONSIBILITY FOR REMOVING/TAGGING CABLING WITHIN THE ASSOCIATED TELECOM CLOSETS. ALL OTHER DEMOLITION WORK SHALL BE PERFORMED BY THE CONTRACTOR.
2. UNLESS OTHERWISE NOTED, REMOVAL OF COMMUNICATIONS CIRCUITS SHALL INCLUDE COMPLETE REMOVAL OF CABLE FROM COMMUNICATIONS OUTLET TO DESIGNATED TELECOM ROOM.

		 201 N UNION ST. SUITE 500 ALEXANDRIA, VIRGINIA 22314 (T) 703 836 0588 (F) 703 836 8027	 10621 GATEWAY BLVD. SUITE 106 MANASSAS, VIRGINIA 20110 TEL: (703) 365-0021 FAX: (703) 361-9858	100% Design Submission	DATE August 31, 2011 SCALE 1/8" = 1'-0" DESIGNED AKP CHECKED MTW DRAWN AKP ACCEPTED B.J.L. SUBMITTED DRH APPROVED FDH	 METROPOLITAN WASHINGTON AIRPORTS AUTHORITY OFFICE OF ENGINEERING DESIGN DEPARTMENT	GATE A23/25 - A31 STERILE CORRIDOR RENOVATION WASHINGTON DULLES INTERNATIONAL AIRPORT WASHINGTON, DC COMMUNICATIONS SYSTEM SYMBOLS, ABBREVIATIONS AND GENERAL NOTES	PROJECT IDENTIFIER IT1111 SHEET NAME CO00.001 VOLUME NUMBER 1 of 1 SHEET NUMBER 19 of 35
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