Lakenheath Air Base
Installation Facilities Standards (IFS)

List of Amendments:

Section	Update
B02.3 Bullet 6	Added: Crosswalks / road crossings require paving identifiers for the visually impaired.
B02.3.1	Added: Photograph
B02.3.1 Bullet 3	Added: Distinguish communal parking spaces in housing districts with differing paver colours to private spaces.
B02.3.4 Bullet 3	Added: Ensure speed signs are located at all housing district entry and exit routes.
B03.2.4 Bullet 1	Added: Fence to be 1 foot below ground to comply with UFC. Where this is not achievable, seek derogation.
Appendix G01.2	Replace 'Base Standards' with Installation Facilities Standards (IFS)
Appendix G01.2	Para 3, replace' Appendices Cand D' with 'Appendices G11'
Appendix G01.2	Para 3, replace 'Supplementary Resources & Specialist Standards' with 'Appendices G11'
Appendix G01.2	Para 5 replace 'Base Standards Section 4 – Design' with 'IFS Appendices'
Appendix G01.3	Replace 'Base Standards' with 'IFS'
Appendix G01.4	Replace 'Base Standards is delegated by the Wing Commander to the BCE as of 08 March 2022' with 'appendices are as per IFS Section A'
Appendix G01.5	Replace 'Base Standards' with 'IFS'
Appendix G01.5	Para 3 Replace 'working group' with 'IFS Manager'
Appendix G01.6	Replace paragraphs with 'These Appendices are supported by supplementary information resources and technical standards applicable to specialisms as per Appendix G11'
Appendix G01.7	Replace 'Base Standards' with 'IFS'
Appendix G01.8	Add paragraph 'As per the main IFS document Section A Overview, point 1: Conformance to Air Force Corporate Facilities Standards (AFCFS) and Installation Facilities Standards (IFS) are required by Air Force Instruction (AFI) 32-1023 and Air Force Memorandum. Please refer to the AFCFS website for links to documentation on current policy.'
Appendix G01.8	Para 2 (Advisory) add 'following the derogation process.'
Appendix G01.11	Add new section. Contents relocated from G05-D5030
Appendix G01.12	Add new section
Appendix G03.B2021.1	Replace 'Lt' with 'Ltd'.
Appendix G03.B2021.2	Replace 'Kappa Float' with 'Optitherm'.
Appendix G03.B2030	Remove 'Units 3-4 ZK Park, 23 Commerce Way, Croydon. CR0 4ZS.'
Appendix G03.B2031.5	Replace 'Kappa Float' with 'Optitherm'.
Appendix G03.B2031.5	Replace '30 - 100mm' with ' 40-150mm'.
Appendix G03.B3011.5	Replace '65 - 135mm' with ' 75-181mm'.
Appendix G03.B3016.2	Replace 'Osma Wavin' with 'Wavin Osma'
Appendix G03.B3016.3	Replace 'Osma Wavin' with 'Wavin Osma'

Appendix G03.B3016.4	Replace 'Osma Wavin' with 'Wavin Osma'
Appendix G04.C1011.2	Add 'to existing or satinwood to new'.
Appendix G04.C1023	Remove 'Units 3-4 ZK Park, 23 Commerce Way, Croydon. CR0 4ZS.'
Appendix G04.C3012.3	Add 'or Dulux Cotton White'.
Appendix G04.C3012.4	Remove section.
Appendix G04.C3012.5	Remove section.
Appendix G04.C3012.6	Remove section.
Appendix G04.C3012.7	Remove section.
Appendix G04.C3012.8	Remove section.
Appendix G04.C3012.9	Remove section.
Appendix G04.C3032.1	Replace '(formally Armstrong UK)' with '(Previously Called Armstrong)'. Replace 'Prelude 24/ Prelude 15' with 'Gridline 24/Gridline 15/Gridline 24 Corrosive Resistant Grid'. Replace 'N/A' with 'EN13501-1/Euroclass A2-s1, d0'. Replace 'White' with 'Global White'.
Appendix G04.C3032.2	Add '/Class C Acoustic Rated Buildings'. Replace '(formally Armstrong UK)' with '(Previously Called Armstrong)'. Replace 'Tegular Square Dune range. Perla OP / dB range' with 'Zentia Aruba (Class C)'. Replace 'N/A' with 'EN13501-1/Euroclass A2-s1, d0'. Replace 'White' with 'Global White'. Remove ' Fibre'. Replace '600mm x 600mm x 17mm minimum thick tiles; Rh >95%; light reflection >85%; wt. minimum 4.5kg/sm.' with '600mm x 600mm x 15mm, Board, Tegular, 24 & Tegular 15. Acoustic Class C'.
Appendix G04.C3032.3	Replace 'Rest Rooms & Shower Cubicles – Board.' with 'Education Buildings/Class A Acoustic Rated Buildings.' Replace '(formally Armstrong UK)' with '(Previously Called Armstrong)'. Replace 'Ceramaguard.; with 'Oplia hA+' Replace 'N/A' with 'EN13501-1/Euroclass A2-s1, d0'. Replace 'White' with 'Global White'. Remove 'N/A.' Replace '600mm x 600mm x 15mm thick Sound 39dB; light >79%; thermal 0.067W/mK; wt 7.3kg/sm; Tru-lock grid system with exposed tee. Corrosive resistant grid and hangers. Room function to dictate if 600mm centres on main ceiling grid is to be used for high humidity areas.' with '600mm x 600mm x 20mm, Board, Tegular, 24 & Tegular 15. Acoustic Class A.'
Appendix G04.C3032.4	Add section.
Appendix G04.C3032.5	Replace 'General – Acoustic Board.' with 'Commercial Kitchens – Tile.' Add 'Zentia (Previously Called Armstrong).' Replace 'Parafon Hygien; tegular/ sq tile' with 'Hygiene.' Replace 'N/A' with 'EN13501-1/Euroclass A2-s1, d0'. Replace 'N/A' with 'White'. Replace 'Size – 600mm x 600mm x 18mm thick; Tech Spec - Light reflection 82%; Board 1.3 kg/ sm.' with '600mm x 600mm x 18mm. Board. Acoustic Class A.'
Appendix G04.C3032.6	Add section.
Appendix G05.D2010	Replace 'Twyfords Sola 380 ref WB2516WH one taphole left hand with support

	bracket SR1315XX with Lever Mixer Spray Tap SF5247CP' with 'Twyfords or Bristan one taphole left hand with support bracket with Lever Mixer Spray Tap.'
	Add 'Approved kite marked manufactures in these standards are as follows: Gerberit, Ideal Standard (and Armitage Shanks, such as Sandringham or similar ranges), Tywords, Wolseley, Pegler.' Remove 'This specification is for admin office environments only. Manufacturer; Twyfords, Lawton Rd, Alsager, Stoke on Trent, ST7 2DF Tel: 01270 879777. http://www.twyfordbathrooms.com. Technical helpline 0870 840 0437. E-Mail: twyfordtechnical@twyfordbathrooms.com'
Appendix G05.D2011	Replace 'Bowl 'Galerie HO' (GN1148WH), 6 litre close coupled cistern and fittings (ref GN 2396WH) Heavy duty seat and cover with s/s bottom fix hinges (ref GN 7815WH).' with '6 litre close coupled cistern and fittings. Heavy duty seat and cover with s/s bottom fix hinges.'
Appendix G05.D2013	Replace 'No site specific content.' with 'Rounded or oval. Square is not permitted. For confinement facilities refer to specialist standards and requirements that supersede this document.'
Appendix G05.D2014.1	Remove 'Tiffany'
Appendix G05.D2014.2	Remove 'Marlow'
Appendix G05.D2014.3	Remove 'Fairline'
Appendix G05.D2014.4	Add '/Shaws'. Remove 'Aqualon'
Appendix G05.D2015	Replace 'Neptune 1700mm x 700mm or 1500mm x 700mm to fit, 1,8mm wall thickness' (NE9572WH/NE9472WH) Bath front and side panel: 'Neptune' to suit. Chain waste and overflow: Twyfords ref WF 5650 CP.' with '1700mm x 700mm or 1500mm x 700mm to fit, 1,8mm wall thickness' Bath front and side panel to suit. Pop up waste: Twyfords.'
Appendix G05.D2017	Replace 'Shower trays: 'Calypso 2', 800mm x 800mm fireclay (FC3103WH with WF 4343CP grid waste).' with 'Shower trays: 800mm x 800mm fireclay.' Replace 'Mira Excel' with 'Mira'.
Appendix G05.D2020	Add 'Washbasins: Approved manufacturers are in these standards are as follows: Gerberit, Ideal Standard (and Armitage Shanks), Tywords, Wolseley, Pegler. ' Remove 'Pe Logics basin monoblock (LG5191CP) with pop-up waste and Logics handles LG5800CP. Baths: Logics deck mounted bath filler (LG5250CP) with Logics handles LG5800CP and chain waste to suit.'
Appendix G05.D2022	Add 'Where a project dictates a Point of Use Water Heater, such as in retrofit situations, Ariston or similar may be considered appropriate.'
Appendix G05.D2030	Add Section 'Underground Sanitation System For instances where the underground waste water pipework systems (black, gray and storm) have failed / blocked due to root ingress / cracking / utility strikes / liner displacement / spiral cracking (etc.). The required solution to any / all of the above should be relining of the affected network line / branch by

	UV or blue light liner technology. An accredited provider of this service is IWJS (Industrial Water Jetting Services) - also called NRCWWS. This is a more resilient and cost effective solution to the traditional methods of repairing by replacement (excavation - removal - replacement - reinstatement) and CIPP (Cured In Place Pipeline) of the affected underground network.'
Appendix G05.D3067	Add 'Inside Plant Network Cabling: Network premise wiring or horizontal cabling shall be, at minimum, Category 6 Ethernet cable. Fiber optic cable can also be used as premise wiring, most commonly in classified environments. The inside plant fiber cable shall be a minimum of 6 strand enhanced 50-micron multimode OM4 fiber optic cable. Inside plant telecommunications cabling installation shall be in accordance with applicable standards, e.g., ANSI/BICSI N1, ANSI/TIA-568.2, ANSI/TIA-568.3, ISO/IEC 11801-1.' Remove 'Primary LAN Network Cable (Ethernet, LON or BACNet) This uses the site-wide Ethernet, which is installed by others. However, if this has to be extended, then the network cable shall be Cat 5e or Cat 6, which shall be run within a separate containment system, of either galvanized steel conduit or trunking. This cable shall be of a different colour to all other cables for identification. The length of the extended run would be supervised/approved by the RAF Lakenheath Communication Squadron, prior to connection to the site-wide Ethernet. The maximum cable length from the data cabinet will be 90 metres. Secondary Network Cable (Ethernet Cat5e or Cat6) As with the primary network, the secondary network cable shall be run separately from power cable and installed in a unique colour. The cable shall be pairs of twisted copper cables with solid copper conductors with a UTP or STP shielding. But specific details would be specified per project. The cable shall have a nominal impedance of 100 Ohm ± 15% at 1-100Mhz. The Cat5e or Cat6 cable segment length shall not exceed 100m . If the Ethernet cable is to be installed externally, in ducts and/or exposure to UV, the cable used shall be duct grade. An amplification module shall be installed as required to maintain the performance of the network.'
Appendix G05.D4010	Replace 'The provision of sprinkler fire suppression systems (or alternative fire suppression systems) will be reviewed for all new and refurbished buildings as part of a 'Fire Risk Analysis' and 'Fire Strategy' study, executed during the design period. A standard approach for the provision of sprinkler installations will be required to ensure a consistent design standard and level of protection in facilities is achieved. The provision of sprinkler fire suppression systems will not be considered in isolation, but will be reviewed in unison with the overall fire strategy. During the design period careful consideration will be given to the selection of specific Design Codes, Standards, Base Criteria and Base Fire Officer

	requirements that will affect the sprinkler systems design and installation. The provision of sprinkler systems provided will be reviewed against the various criteria indicated in the Index of Specifications and Standards which highlight the relevant UK and USVF fire protection codes. Note that where standards are different or conflict that the more stringent will apply. This may result in a combination of sprinkler fire suppression systems being designed/installed utilising both extracts from both UK, US Standards and specific Base requirements. The provision of sprinkler suppression systems may be required in some sleeping areas. All new and refurbished buildings will have automatic fire detection and/or fire suppression systems which will be monitored to send signals to Base fire station and/ or central control or monitoring facilities. Fire alarm panels and fire-man's cut of switches will be located in the primary entrance vestibule of the respective building. Zonal areas of protection and operation will be graphically depicted in a professional manner in keeping with the respective Codes and Standards adopted. Kitchen and cooking facilities will include: • Hood and duct systems constructed to National Fire protection association Code (NFPA96) Standards. • Fire suppression systems for hoods and ducts will comply with NFPA 96, NFPA 17, NFPA17A and AFOSH 27- 59, and EN 16282-7. The designer will be required to conduct water pressure and flow tests and an overall appraisal of the site fire main characteristics prior to the design of any sprinkler fire suppression systems. Note the requirement for sprinkler suppression systems in data processing areas to be dry pipe systems with reference to UFC's. Note the requirement for suppression systems within existing and new air craft hangers are required to confirm to all current UFC's. Automatic supervised wet pipe sprinkler systems are required to be designed and installed to confirm to BS 5306 (LPC rules) and take into account the more stringent requirements of NFPA13.' With 'The provision of sprinkler fire suppression systems (or alternative fire suppression systems) will be reviewed during the design period, careful consideration will be given to the selection of specific Design Codes, Standards, Base Criteria and Base Fire Officer requirements that will affect the sprinkler systems design and installation. Sprinkler systems provided will be reviewed against the various criteria indicated in the DoD Index of Specifications and Standards which highlight the relevant UK and USVF fire protection codes. Note: Although as previously stated, UFC will be considered as the minimum standard, however, where standards are different or conflict, that the more stringent will apply. This may result in a combination of sprinkler fire suppression systems being designed/installed utilizing both extracts from both UK, US Standards and specific Base requirements. All new automatic fire detection and/or fire suppression systems which will be

	monitored to send signals to Base fire station and/ or central control or monitoring facilities. The designer will be required to conduct water pressure and flow tests and an overall appraisal of the site fire main characteristics prior to the design of any sprinkler fire suppression systems. Fire alarm panels, applicable zonal maps and fireman's cut off switches will be located in the primary entrance vestibule of the respective building. Zonal areas of protection will be graphically depicted in keeping with the respective Codes and Standards adopted. Note the requirement for suppression systems within existing and new aircraft hangers are required to conform to all current UFC's. Automatic supervised wet pipe sprinkler systems are required to be designed and installed to conform to BS 5306 (LPC rules) and take into account the more stringent requirements of NFPA13.'
Appendix G05.D4032	Replace 'To be recess mounted wherever possible, alternatively surface mounted. Follow current NFPA 10 guidance on cabinets. For recessed or surface mounted cabinets, they must be sized to suit extinguishers dimensions, have glass vision panel in door and be white, red or stainless steel in colour. ' With 'Due to the American Disabilities Act (ADA), 2010, which states the provision to / of 'protruding objects'. Although this Act is not specific to fire extinguishers, the cabinets must comply with general ADA protrusion, reach and operability standards, so that the extinguishers are accessible and safe. Due to these requirements, the necessary recesses needed to achieve the below will be deemed as part of the structure and therefore will need to be included into the building plans. Key ADA information, is as follow: 1. Protruding Objects – Section 307 •307.2 Protrusion Limits: Objects mounted on walls (like fire extinguisher cabinets) cannot protrude more than 4 inches into the circulation path if the object's bottom edge is between 27 inches and 80 inches above the floor. •This is to ensure that people who are blind or have low vision won't walk into objects that stick out into pathways. 2. Reach Ranges – Section 308 •If a fire extinguisher is expected to be accessed in an emergency by anyone, it should be within ADA compliant reach ranges: •15 inches minimum above the floor •48 inches maximum for a forward reach (or 54 inches for a side reach if certain clearances exist). 3. Operability – Section 309

	•Controls and operating mechanisms (like the fire extinguisher pull handle) must be: •Operable with one hand •Not require tight grasping, pinching, or twisting of the wrist •Exertion of no more than 5 pounds of force. As previously stated, this is to be cross-referenced with the equivalent UFC's and/or relevant standards.'
Appendix G05.D5012	Replace 'Where FP200 cable is used it shall have a LSF sheath.' With 'Where FP200 (NFPA and British Standards compliant / equivalent) cable is used it shall have a LSF sheath.'
Appendix G05.D5030	Remove section. Contents relocated to Appendix G01.11
Appendix G05.D5037	Replace 'The exact design of a fire alarm system is determined by the facility space's occupancy classification and the local codes mandated by the Authority Having Jurisdiction (AHJ) for that specific occupancy classification. But regardless of the system design, all fire alarm systems must have a Fire Alarm Control Panel (FACP). Fire Alarm Panels (FAP) receives information from devices designed to detect and report fires, monitors their operational integrity and provides for automatic control of equipment, and transmission of information necessary to prepare the facility for fire based on a predetermined sequence. As each building is different, there is no 'one size fits all' FAP. Therefore, the term 'standardisation' means that we use the same type (usually this refers to the same manufacturer) of FAP but not necessarily that all FAP's need to have the same capabilities. FAP's will be chosen based on the following; • The purpose and use of the building • The floor space sizing of the building, plus 25%. • Must be cost effective All FAP orders shall include: • Relevant pictorial zonal maps and their maintenance to be included • Instruction and training to be provided. The below is a list of regulations/ standards should be referred to for each system install. Be advised that the design is to include the following for consideration but this list is not exhaustive: •NFPA 1 (Fire Code) •NFPA 72 (National Fire Alarm and Signalling code) •NFPA 101 (Life Safety Code) •U.F.C 3-600-01 (Fire Protection Engineering for Facilities) (Auxiliary references are as follows: BS 5839-9:2021; BS 5839-6:2019+A1:2020; BS 5839-6:2019; PD 6531:2018; BS 5839-1:2017; BS 5839-1:2013; BS 5839-3:1988; BS 5839-6:2013; BS 5839-8:2013; BS 5839-9:2011; PD 6531:2010)'

	With 'Fire alarm panels, applicable zonal maps and fireman's cut off switches will be located in the primary entrance vestibule of the respective building. Zonal areas of protection will be graphically depicted in keeping with the respective Codes and Standards adopted. All new automatic fire detection and/or fire suppression systems which will be monitored to send signals to Base fire station and/ or central control or monitoring facilities. The designer will be required to conduct water pressure and flow tests and an overall appraisal of the site fire main characteristics prior to the design of any sprinkler fire suppression systems. Fire alarm panels, applicable zonal maps and fireman's cut off switches will be located in the primary entrance vestibule of the respective building. Zonal areas of protection will be graphically depicted in keeping with the respective Codes and Standards adopted. The mass notification and fire alarm system shall be a combination system, using voice evacuation. Design the main Fire Alarm Control Panel and required components so that the system can be expanded in the future (including the addition of twenty-five per cent (25%) more circuits or zones) without disruption or replacement of the existing control panel. This shall include hardware capacity, software capacity and cabinet space. A Monaco transmitter shall be used to communicate with the Emergency Dispatch Centre. Antenna. The entire antenna system shall be installed according to Monaco Enterprises guidelines. The contractor will be responsible for relocating the antenna if the required signal strength cannot be obtained.'
Appendix G05.D5092	Replace 'All emergency (external to the luminaire) should be carried out using FAP200 cable with an outer sheath of LSF white.' With 'All emergency (external to the luminaire) should be carried out using FP200 (NFPA and British Standards compliant / equivalent) cable with an outer sheath of LSF white.'
Appendix G08.G2010	Add 'The first responding fire emergency vehicles will be that of United States (US) design and dimensions and not UK. Therefore, all emergency vehicle approaches, and hard standings are to be designed for the needs of the local Fire Department vehicles. The vehicle needs can be found in UFC 3-600-01; however, it is strongly advised to contact the local US Fire Department in case they have updated their fleet.'
Appendix G08.G3014	Replace 'Mueller Centurion Fire Hydrants with 5 inch Stortz connections and KNOX Company FDC (Fire Department Connection) end caps in hard anodized aluminium.'

	With 'Mueller Centurion Fire Hydrants with 5 inch Stortz connections and end caps in hard anodized aluminium.'
Appendix G09.1	Add 'IFS Installation Facilities Standards'
Appendix G010.1	Add 'Notes: As per the main IFS document Section A Overview, point 1: Conformance to Air Force Corporate Facilities Standards (AFCFS) and Installation Facilities Standards (IFS) are required by Air Force Instruction (AFI) 32-1023 and Air Force Memorandum. Please refer to the AFCFS website for links to documentation on current policy. Proposed derogations shall be routed to the Installation Facilities Standards Manager of whom will review and escalate to the Base Civil Engineer for review, forwarding and / or sign off.' Form amended with approval signatories, concur / non concur buttons, notes.
Appendix G011.1	Replace entire section with 'Air Force Corporate Facilities Standards (AFCFS) Air Force Handbook (AFH), Instructions (AFI), Manuals (AFM / AFMAN), Joint Manuals (AFJ / AFJMAN), Pamphlets (AFP), Policy (AFP), Air Force Policy Directive (AFPD) including Department of Air Force (DAFMAN) equivalents, including Air Mobility Command (AMC) equivalents, including General Services Administration (GSA) equivalents, including Bureau of Diplomatic Security equivalents Construction Technical Letters Department of Defense (DoD) Directives, Policy, Instructions Engineering Technical Letters National Association of Corrosion Engineers International (NACE) National Fire Protection Association (NFPA Standards) The Americans with Disabilities Act Accessibility Guidelines (ADAAG) USAF Installation Force Protection Guide Unified Facilities Criteria (UFC's) US Building Codes ASHRAE Handbooks'
Appendix G011.2	Replace entire section with 'UK Law, eg: UK Building Regulations, Construction (Design Management) Regulations (CDM) British Standards and Codes of Practice Environment Agency Standards Health and Safety Executive Guidance eg: Asbestos Regulations, Legionella Regulations UK Ministry of Defence: Defence Infrastructure Organisation (DIO) Codes, Policies, Standards, Technical Bulletins and Memoranda, Functional Standards (FS), Safety Warning Notices - Rules and Procedures, DE (W) & PSA Standards DIO (MoD) Multiple Practitioner Guides, DIO - Major Programmes and Projects Annex B: Construction Project Arrangements Building Services Research and Information Association (BSRIA) CIBSE Design Guides CIBSE Water Regulations (Anglian Water)

	IEE Wiring Regulations (I.E.E.) National Building Specification (NBS) Tech-012 Project Handover Procedure (Appropriate to Project Manager's & Contractors)'
Appendix G011.3	Replace entire section with 'Air Cooled Chiller & Heat Pump Specification (Dec2020- Rev1) Carrier UK Ltd Asbestos Register TRENCHING CROSS SECTION v1 RAF Lakenheath/48 CES TNAP AMP (+441638521950) BMS Graphic Standards RAF Lakenheath/48 CES BMS Administrator (+441638521950) PLANT ROOM SIGN V1 RAF Lakenheath/48 CES Mech. Engineer (+441638526351) DE/USF Policy on Fuel storage DE/USF Procedural Guides Medical Facilities – Use UK Health Technical Memorandum - For any works related to medical facilities or buildings with medical functions, contact 48th Medical Group Medical AP, RAF Lakenheath, Bldg 916 Telephone: (01638) 52-8421 or DSN – 226-8421 Performance Specification Guide – Auto-Start Diesel Generator Sets Above Ground Storage Tanks (AST's) – Diesel Fuel for Heating & Generators – Guide '
AFCEC amendments:	
Section	**Update**
General	General Requirements Follow UFC 1-300-01 and replace the term "shall" with "will," "must," "should" or as appropriate in the IFS Worksheets, PDF and supplemental documents narrative. Where "shall" was hardcoded in earlier versions of the PDF, it is removed in the 2025 version. Change "AT/FP" and all references to antiterrorism to "AT" following UFC 4-010-01, Appendix D. Follow AFH33-337 and referenced style guides for writing narrative. Abbreviating Department of Defense, to "DoD" per UFC 1-300-01. In the IFS PDF, where sections end near the top or center of a page and there is a large amount of white space, add "End of Section" following the last bullet. Add captions, and "N/A" in spec sections, where there are blanks. If text exceeds the text field, shorten the text entry and / or adding a bullet in the preceding narrative. Update PDF to 2025 Versions.
A.	A. Overview A03. Facility Districts Update Overview Map on p. 7 to fit format and with larger text. General recommendations and standard 2025 updates are integrated as applicable.

B	B. Installation Elements General recommendations, as listed above, are integrated into the worksheet as applicable. Standard 2025 updates are included as applicable.
C	C. Site Development General recommendations and standard 2025 updates are integrated as applicable.
D	D. Facilities Exteriors Add images and captions to complete these 3 sections: D03.1. Orientation, Massing and Scale D03.2. Architectural Character D03.3. Details and Color General recommendations, standard 2025 updates, and images and captions are integrated as applicable
E	E. Facilities Interiors General recommendations and standard 2025 updates are integrated as applicable.
F	F. Appendix - Facility Districts Update Overview Map on p. 160 to fit format and with larger text. General recommendations and standard 2025 updates are integrated as applicable.
G	G. Appendix – References Substitute "must", "will" or "should" for "shall" throughout. Change "Unified Facility Criteria (UFC)" to "Unified Facilities Criteria (UFC)" and use "Unified Facilities Criteria (UFC)" in the first occurrence in each document. In the first use of a specific UFC number, add a comma and include the title in italics, i.e., "UFC 4-021-01, *Design and O&M: Mass Notification Systems*". G01: Add Force Doctrine Publication (AFDP) 3-10, Force Protection." When referring to antiterrorism (AT), include, "following UFC 4-010-01, DoD Minimum Antiterrorism Standards for Buildings." Use "Unified Facilities Criteria (UFC)" in lieu of "Unified Facility Criteria" and after "3-201-01" include the title, "UFC 1-200-01, *DoD Building Code* (general building requirements)". UFC 4-021-01, *Design and O&M: Mass Notification Systems* UFC 1-200-01, *DoD Building Code (general building requirements)* G11: Unified Facilities Guide Specifications (UFGS) are to be listed under "G11.1 US Standards." Standard 2025 updates are integrated as applicable.