Architectural Peer Review has been conducted and comments

8.

	addressed.		
9.	Interior design aspects of project will be developed in accordance with UFC 3-120-10 Interior Design unless directed otherwise.		
10.	The appropriate Corps of Engineers Center of Expertise for this project ( <a href="http://www.usace.army.mil/civilworks/cecwe/coexpert/">http://www.usace.army.mil/civilworks/cecwe/coexpert/</a> ), has provided assistance in the design of this project in accordance with ER 1110-1-8158.		
11.	For projects designed to be used primarily by foreign personnel, cultural considerations unique to the user have been identified and appropriate features incorporated into the design.		
12.	Where present, Sensitive Compartmented Information Facilities (SCIFs) have been designed in accordance with ICD 705 TECHNICAL SPECIFICATIONS FOR CONSTRUCTION AND MANAGEMENT OF SENSITIVE COMPARTMENTED INFORMATION FACILITIES		
13.	Installation Design Guides have been followed.		
14.	Roofing system selection was made after reviewing UFC 3-330-02A Commentary On Roofing Systems.		
15.	If metal buildings are used, UFC 3-320-04A Metal Building Systems, with Change 2 has been reviewed		
16.	If project is design / build, the Design / Build Instructions for Military Construction has been reviewed.		
17.	Peer reviews are accomplished IAW memo titled "Implementation of Quality Control in Facilities Development Division" found on the EC-TF web site.		
В.	Drawings:		
Item #	<u>Item</u>	Chec	
	B1 General –	<u>Des</u>	<u>Rev</u>
1.	The CADD Standards for the project have been adhered to in setting up all design files. Particular attention should be given to font size, level symbology, detail reference symbol, scale, etc.		

2.	The information within the Title Block of each drawing has been reviewed for accuracy including the "Designed By", "Drawn By", "Checked By" and "File No." fields.	 
3.	The Index Sheet has been coordinated with the current list of architectural drawings with respect to drawing number and title.	 
4.	Where the specifications state wording such as "as shown", the drawings have been prepared to actually include that information.	 
5.	Dimensions are based upon locally available materials to the greatest extent possible. Accordingly, nominal metric dimensions have been utilized – i.e., $100 \text{mm}/150 \text{mm}/200 \text{mm}$ for wall thicknesses, etc.	 
6.	Graphic scales are included on all drawings. Where more than one scale is used on a drawing, the appropriate graphic scales have been included.	 
	B2 Abbreviations & Symbols –	
1.	A drawing has been included to identify abbreviations and symbols utilized on the project drawings and have been coordinated with the other architectural drawings for compliance.	 
	B3 Floor Plans –	
1.	A Composite Floor Plan has been included for those buildings that are to large in size to fit on a single floor plan drawing at a scale of 1:100 and the overall building dimensions are indicated on this plan.	 
2.	Where a Composite Floor Plan is utilized, break lines are shown where the floor plan is broken down into partial plans and the sheet number where the partial plan can be found is noted.	 
3.	Wall types are clearly identified on the drawings and reference is made to the appropriate Typical Wall Types drawing.	 
4.	Fire rated partitions are clearly identified on the drawings and have been <u>coordinated</u> with the <u>Fire Protection Engineer</u> with respect to rating and location.	 
5.	Doors and windows have been clearly identified with a unique	 

	identifier and reference is made to the appropriate sheet where Door and Window Schedules are drawn.	
6.	All interior partitions have been located by dimension as have openings in all exterior and interior partitions.	 
7.	Where floor slopes are required, direction and degree of slope is indicated and <u>coordination with Structural Engineer</u> has been done.	 
8.	North Arrow has been included on the drawing and its placement has been <u>coordinated with the Civil Engineer</u> . If Plan North is used, it is appropriately shown.	 
9.	Splash blocks have been provided where roof leaders discharge onto finished grade and coordination has been done with the Civil Engineer if alternative treatment (i.e., rock beds) is desired.	 
10.	Adjacent site features – pads, walkways, walls, etc shown have been <u>coordinated</u> with the <u>Civil Engineer</u> and site drawings.	 
11.	Floor elevations have been <u>coordinated</u> with <u>Civil Engineer</u> .	 
12.	Coordination with Structural Engineer has been completed with respect to column designation, grid spacing, column sizes, building expansion joints, depressed slabs, equipment pads, roof penetrations, finished floor elevations, cross bracing, bearing walls, etc.	
13.	Location and size of mechanical and electrical spaces have been coordinated with the appropriate engineering discipline.	 
14.	The locations of wall and building section cuts are clearly indicated on the floor plans.	 
15.	The gross floor area is indicated on each of the floor plan drawings and the gross building area is indicated on the ground floor plan.	 
	B4 Roof Plan & Details –	
1.	Drawing clearly indicates direction and degree of roof slope. Slope for elastomeric membrane roofing is not less than 2%. This has been <u>coordinated</u> with the <u>Structural Engineer</u> .	 

2.	Rooftop equipment has been located and provided with appropriate equipment pad. <u>Coordination with Mechanical and Structural Engineers</u> has been done.	 
3.	Roof penetrations for ducts, vent pipes, hatches, etc. have been located and sized and have been coordinated with the appropriate engineering discipline. Where used, roof scuttles have been coordinated with Specification Section 05500, Miscellaneous Metal.	 
4.	Reference has been made to the appropriate drawing where roof details are shown.	 
5.	Interior roof drains have been avoided to the greatest extent possible in favor of perimeter roof drainage. Gutters, scuppers, leaders and other roof drainage components have been clearly shown and identified on the plan.	
6.	The roof flashing details shown on the drawings have been coordinated with the specifications and are appropriate for the system used.	 
7.	Where visibility of rooftop equipment from the ground is likely to be objectionable, measures have been taken to provide adequate screening.	 
8.	For ballasted elastomeric membrane systems, locally available concrete pavers or ballast has been utilized.	 
	B5 Building Elevations –	
1.	Fenestration – doors, windows, louvers, etc has been coordinated with the floor plan drawings with respect to size and location and reference number.	 
2.	Finished floor elevations and top of parapet elevation are identified and have been <u>coordinated with the Structural Engineer and Civil Engineer</u> .	 
3.	Where applicable, stucco control joints have been identified and located by dimension.	 
4.	Exterior building finishes and colors have been noted.	 
5.	Approximate finished grade has been shown and <u>coordinated</u>	

	with the Civil Engineer.	
6.	Floor to floor heights and other vertical dimensions (i.e., window and louver sills, exterior stair landings, etc.) have been identified.	 
	B6 Building Sections –	
1.	Building section cut locations have been noted on the floor plans.	 
2.	Vertical dimensions and finished floor elevations have been noted as have room names/numbers.	 
3.	Coordination has been done with the Mechanical Engineer to assure that sufficient space exists above suspended ceilings and below floor/roof slab to accommodate mechanical ductwork and other utilities.	 
4.	Column grids and bubbles have been shown and coordinated with the floor plans.	 
5.	Finished floor (or top of slab) and top of parapet elevations have been <u>coordinated</u> with the <u>Structural Engineer</u> .	 
6.	Ceiling heights shown have been coordinated with those listed on the Room Finish Schedule.	 
	B7 Reflected Ceiling Plans –	
1.	Reflected ceiling plan has been provided and clearly identifies all ceiling materials and systems by notation.	 
2.	Suspended ceiling grids associated with acoustical tile systems have been shown and <u>coordinated with the Mechanical</u> , <u>Fire Protection and Electrical Engineers</u> .	 
3.	Diffusers, supply registers, lights and fire protection elements have been shown and identified on the Legend and any interferences have been identified and the appropriate designers have been advised.	 
4.	Coordination has been done with Electrical and Mechanical Engineers to insure that they are aware of the use of metric ceiling grid (600mm X 1200mm module) so that light fixtures and ceiling mounted mechanical features are appropriately	 

	sized.	
5.	Accommodation has been made for access to any mechanical	 
	equipment located in the space between the suspended ceiling and the structure above.	
	and the structure above.	
	B8 Wall Sections –	
1.	Wall section cut locations are correctly shown on the floor plans.	 
2.	Vertical dimensions and finished floor elevations are indicated.	 
3.	Construction materials have been indicated or noted.	 
4.	Required thermal values for wall and roof assemblies have been	 
	noted but insulation thickness has <u>NOT</u> been indicated.	
5.	Column grid and bubble have been provided.	 
6.	Intersection of metal walls and masonry walls in pre-engineered	
0.	buildings has been clearly detailed with respect to flashing	 
	condition.	
	B9 Typical Wall Types –	
1.	The various wall types have been indicated by unique designator	
	and all materials clearly noted.	
2.	Clear indication is given as to whether wall extends to structure,	 
	or terminates at a set distance above suspended ceiling, and that	
	distance above the ceiling is dimensioned.	
3.	Anchorage of interior partitions to structure above has been	 
	coordinated with Structural Engineer and adequately detailed.	
4.	Where acoustical insulation has been utilized, the desired STC	 
	rating for the partition has been clearly indicated by notation.	
	B10 Room Finish Schedule –	
1.	Abbreviations used on the schedule have been coordinated with	 
	those on the Abbreviations & Symbols drawing.	
2.	Clear indication is given as to the intention of whether or not to	 
	use sealer or hardener on exposed concrete floor surfaces.	

	<del>-</del>	
3.	Interior and exterior material color/pattern selections have been noted and are in compliance with any stated or applicable design guidelines.	 
4.	Requirement for depressed slab has been noted where either tile or wood athletic flooring floor finish is specified, or where walk-in refrigeration units are present. Coordination with Structural Engineer has been done.	 
5.	Slip resistant floor finishes have been used in wet areas.	 
	B11 Door Schedule –	
1.	Abbreviations used on the schedule have been coordinated with the Abbreviations & Symbols drawing.	 
2.	Builder's hardware sets have been listed and coordinated with specifications.	 
3.	Exterior doors requiring compliance with Force Protection guidelines have been noted as being metal with solid oak core and have been provided with appropriate hardware in accordance with guidelines contained on the EC-TF homepage at <a href="https://tac50.tac.usace.army.mil/internal/techweb/pdtf.htm">https://tac50.tac.usace.army.mil/internal/techweb/pdtf.htm</a> .	 
4.	Head, jamb and sill details have been coordinated with the sheets on which they are drawn.	 
5.	The need for undercuts or louvers has been <u>coordinated with the Mechanical Engineer</u> and appropriate dimensions noted on the schedule.	 
6.	Any requirement for electric locks, balanced magnetic switches, motorized operators, etc., has been noted on the drawings and coordinated with the Electrical Engineer. Additionally, terminology and nomenclature is consistent between architectural and electrical drawings and specs.	 
7.	Doors in rated partitions have been identified with the appropriate fire rating and glass area (if applicable) is in accordance with NFPA.	 
8.	Metal thresholds have been provided for exterior doors and coordinated with the specifications.	 
9.	Dimension of doors and frames located in masonry walls have	 

	been established with consideration to the metric masonry coursing module of 200mm.	
10.	Door type designation is consistent with the Steel Door Institute standard door design nomenclature listed in ANSI A250.7 and SDI 106.	 
	B12 Enlarged Partial Plans (Toilets, Kitchens, Etc.) –	
1.	Enlarged plans have been keyed to building floor plans with appropriate bubbles and reference boxes.	 
2.	Built-in fixtures and features have been located by dimension.	 
3.	Reference symbols for interior elevations have been properly placed.	 
4.	Floor drains have been identified where present and floor slope shown.	 
5.	Water proofing has been provided and clearly noted under tile floors in wet areas on upper levels and behind wall tile in separation walls in shower rooms.	 
6.	Toilet partitions are floor mounted and door sizes are manufacturer's standard.	 
7.	Enclosures for showers and Eastern-style water closets are constructed of masonry with ceramic tile finish rather than modular manufactured shower enclosures or toilet partitions to insure durability.	 
	B13 Interior Elevations –	
1.	Elevations have been properly reference to the floor plan.	 
2.	Vertical dimensions for ceiling heights are shown and fixture, equipment or toilet accessory mounting heights, etc. have been provided.	 
3.	Wall openings have been coordinated with the floor plans with respect to width and location.	 
4.	Where host nation personnel are likely to make significant use of the toilet rooms, the toilet partitions extend to 100mm above finished floor elevation and space between panels is kept to	 

	absolute minimum or vision guards are installed to afford a heightened degree of privacy.	
	B14 Equipment and Furniture Plans & Schedules –	
1.	Where systems furniture is utilized, care has been taken to insure that NFPA 101 Life Safety Code egress requirements have not been compromised.	 
2.	Items requiring connection to building utility systems have been coordinated with the appropriate engineering design discipline and utility requirements have been identified on the schedule.	 
3.	Differentiation is clearly made between Contractor Furnished and Government Furnished items.	 
	B15 Stair Details –	
1.	Stair plans have been referenced back to the floor plans using appropriate detail symbols and reference box.	 
2.	Tread, riser, railing and guard dimensions comply with NFPA 101.	 
3.	Design of concrete stairs has been <u>coordinated with the Structural Engineer</u> and non-skid finish and non-slip non-ferrous metal nosings have been provided.	 
4.	Handrails have been clearly identified with respect to material, finish and profile (and diameter), and have been coordinated with the Specifications Section 05500, Miscellaneous Metals.	 
	B16 Elevator Details –	
1.	Elevator plan has been referenced back to the floor plans using appropriate detail symbols and reference box.	 
2.	Elevator hoistway dimensions have been coordinated with the elevator manufacturer's product literature for the required cab size and elevator capacity.	 
3.	Machine room has been provided for hydraulic elevator and is sized from a manufacturer's product literature.	 
4.	Depth of elevator pit is noted and has been coordinated with	 

	been coordinated with Specification Section 05500, Miscellaneous Metal.	
5.	The need for a sump pit has been <u>coordinated with the Mechanical Engineer</u> .	 
6.	Elevator has been designed IAW TI 810-90 Elevator Systems, or on U.S. Navy projects, the elevator has been designed in accordance with NAVFAC Elevator Design Guide, 10 Jan 01.	 
	B17 Door Details –	
1.	Head, jamb and sill conditions have been detailed for each door in the project.	 
2.	Sill conditions have been coordinated with the Room Finish Schedule and changes in finish have been provided with appropriate transition strip.	 
3.	Critical frame dimensions have been provided. Avoid dimensioning wall thickness since it is likely to vary from door to door and should be indicated on the floor plan drawings.	 
4.	Jamb anchors have been indicated and coordinated with specifications with respect to type.	 
5.	Exterior jambs in masonry walls are filled solid with grout.	 
6.	Marble saddles have been utilized at locations with ceramic or quarry tile flooring.	 
7.	Caulking and sealants have been clearly indicated and identified by notation. Type of sealant is noted on drawing or in Specification Section 07900 Joint Sealing	 
	B18 Casework Details –	
1.	Casework details have been referenced back to the floor plans.	 
2.	Section cuts have been shown on casework plans. Materials have been clearly identified by notation and critical dimensions shown.	 
3.	Hardware has been appropriately identified and coordinated with the specifications.	 

4.	Built-in electrical items have been coordinated with Electrical	
	Engineer.	 
_		
5.	Location of receptacles has for appliances has been <u>coordinated</u> with Electrical Engineer.	 
	with Electrical Engineer.	
	B19 Expansion & Control Joint Details –	
1.	Building expansion joints have been coordinated with Structural	 
	Engineer with respect to location and dimension, and have been	
	clearly identified on floor plan and building elevation drawings.	
2.	Building expansion joints have been provided with appropriate	
2.	floor, wall, roof and ceiling covers for adjacent material	 
	finishes.	
3.	Coordination with Structural Engineer has been done to insure	 
	that masonry control joints are located and detailed.	
4.	Stucco and plaster expansion joints have been detailed and	
<b>-</b>	dimensioned, and are clearly located on building elevations or	 
	reflected ceiling plan as appropriate.	
	B20 Column Details –	
1.	Provide large scale details of conditions where columns intersect	
1.	with partitions, clearly identifying method of anchorage and	 
	materials by notation.	
	•	
2.	Reference details back to floor plans and include column line	 
	designations.	
	B21 Signage –	
1.	If significant signage requirements exist on the project, signage	
	details to include elevations (with dimensions), method of	
	mounting and material indications have been provided.	
2.	Requirements of NFPA 101 have been incorporated.	 
3.	Signage schedule to include text message, size, type, etc. is	
.	included and coordinated with project specifications.	 
4.	Braille requirements have been met IAW ADAAG and UFAS.	 
5.	Signage location plan if deemed necessary is included clearly	

	identifying where signage is to be placed.	 
6.	For projects where significant host nation use is anticipated, use of dual language signage has been included.	 
	B22 Miscellaneous Items –	
1.	Metal louvers that are not part of the HVAC system (and therefore not specified by the Mechanical Engineer) have been adequately detailed and addressed in Specification Section 07600 Sheet Metalwork, General.	 
2.	Operable windows include insect screens.	 
3.	Recessed cabinets have been provided for portable fire extinguishers and locations have been coordinated with the Fire Protection Engineer.	 
4.	Any adjacent exterior features that are visually objectionable – dumpsters, generators, etc have been provided with the appropriate screening treatment.	 
5.	Where Force Protection measures apply, the window sill height in occupied buildings is at least 1200mm above the finished floor elevation unless noted otherwise by project specific Force Protection design guidance.	 
6.	Window blinds have been provided to afford privacy or solar control.	 
7.	If demolition is involved, the extent of the demolition work is clearly identified through the use of drawings and has been coordinated with the specifications.	 
8.	Requirements for equipment such as monorails, bridge cranes, vehicle lifts, etc. have been <u>coordinated with Mechanical</u> , <u>Electrical and Structural Engineers</u> as appropriate.	 
9.	For renovation projects, clear definition has been made on the drawings between new and existing work.	 
10.	Where warranted by the quantity of window types, a window schedule has been prepared to supplement the window detail drawings. Schedule included unique identifier, window dimensions, material indication and detail reference numbers.	 

11.	Metal building system components have been selected to perform acceptably in the conditions present at the project site.		
12.	Where warranted by project location, seismic features have been incorporated into the design.		
13.	Figured or opaque glass has been used in windows in toilet and locker rooms to afford privacy.		
C.	Specifications:		
<u>Item #</u>	<u>Item</u>	<u>Che</u> <u>Des</u>	<u>ck</u> Rev
1.	Project specifications have been developed in accordance with ER 1110-1-8155, 24 Dec 98. Unified Facilities Guide Specifications (UFGS) have been utilized to the greatest extent possible. Where a UFGS does not exist for a particular feature, the UFGS format has been utilized in creating a new section.		
2.	Use of proprietary commercial product trade names has been avoided.		
3.	Terminology is consistent with drawings.		
4.	Information in the specifications is not duplicated in other specification sections or on the drawings. If a conflict exists, the specifications will govern.		
5.	The specifications have been tailored to this project and any inapplicable information from the UFGS has been deleted, including the list of applicable publications.		
6.	Designer choices indicated within brackets in the UFGS have been selected and required data in blank spaces has been inserted.		
7.	Applicable publications paragraph has been reviewed to insure that the most current versions are listed.		
8.	The notes to the spec writer have been reviewed for guidance in preparing the various specification sections during the editing process.		
9.	Force Protection design blast pressures, material and mounting guidance and other pertinent information provided by the		

	Protective Design Center have been included in the Steel	
	Window and Steel Doors & Frames specifications, as appropriate.	
10.	Use of wood in exterior locations has been avoided or kept to a	 
	minimum. Where used, selection of species is based upon local availability and performance and flush joints have been avoided.	
	Specifications have included an appropriate finish.	
11.	Toilet accessories have been coordinated with the floor plans for	
11.	toilet rooms and janitor closets with respect to selection, style	 
	and nomenclature.	
12.	Where items are likely to require regularly scheduled	
	maintenance (i.e., elevators, food service equipment, etc.),	
	specifications include the requirement for manufacturer's authorized and qualified local service representative.	
13.	Electrically operated items are required to operate on locally available power supply (i.e., 50 or 60 Hz) and that power supply	 
	has been included within the specifications. Coordination with	
	Electrical Engineer has been done.	
14.	Where utilized, suspended plaster ceilings are unrestrained and	
	access panels have been located for any equipment requiring	 
	service or maintenance.	
15.	In Specification Section 09900, Painting, General, paragraphs	 
	indicating surfaces not to be painted, or for which painting is	
	prohibited have been completed. Resistance to corrosion for the project location has been considered in paint selections. Also,	
	the preferred Designer options have been selected and	
	Contractor options maintained.	
16.	Submittal register has been completed in coordination with the	 
	designated CETAC-EC-T specifications POC.	
17.	Metal studs have been specified as the 22 gauge that is readily	
	available in the Middle East.	
18.	The use of loose fill insulation has been avoided due to the	_
	inability to adequately insure that masonry cells are free of	 
	obstructions that might prohibit the flow of insulation.	
19.	Coordination with Structural Engineer has been done with	 
	respect to information contained within sections on	

	Architectural Concrete, Masonry, Miscellaneous Metal, Metal		
	Siding, Standard Metal Building Systems and Overhead Electric		
	Cranes.		
20.	Coordination with Mechanical Engineer has been done where		
20.	Hydraulic Elevator spec is used and with the Electrical Engineer		
	where the Electric Elevator spec is used.		
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D.	Design Analysis:		
<b>T</b> . 11	▼.	C1	•
Item #	<u>Item</u>	<u>Che</u>	<u>ck</u>
		<b>T</b>	D
		<u>Des</u>	Rev
1	Design analysis has been created utilizing the standard CETAC-	<u>Des</u>	Rev
1.	Design analysis has been created utilizing the standard CETAC-EC-TF template.	<u>Des</u>	<u>Rev</u>
1.	Design analysis has been created utilizing the standard CETAC-EC-TF template.	<u>Des</u>	<u>Rev</u>
1.		<u>Des</u>	<u>Rev</u>
	EC-TF template.	<u>Des</u>	<u>Rev</u>
	EC-TF template.  Coordination between design analysis and drawings has been	<u>Des</u>	<u>Rev</u>
2.	EC-TF template.  Coordination between design analysis and drawings has been done with respect to selected building systems, design thermal (u) values, required toilet fixture counts, corrosiveness, etc.	<u>Des</u>	<u>Rev</u>
	EC-TF template.  Coordination between design analysis and drawings has been done with respect to selected building systems, design thermal	<u>Des</u>	<u>Rev</u>