



100% Design Review
KABUL UNIVERSITY DINING FACILITY
drawings dated September 30, 2010
WO-LT-0015

Response Legend
A - Agree
D - Disagree
O - out of scope
AE - Agree with exception

<u>Excel Worksheet Name</u>	<u>Description</u>	<u>Printed Page Number</u>
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Comment #	Reviewer	Reference	Comment (by Tetra Tech)	Response Code	Response	Back-Check
ARCHITECTURAL DRAWINGS						
A-1	TMH	Arch. Specs	Add Rigid Insulation Section to spec for exterior walls			
A-2	TMH	Arch. Specs	Section for Painting missing, both Interior and Exterior.			
A-3	TMH	Arch. Specs	Add section for Tiles for tiling of floors and walls in Kitchen, and Restrooms.			
A-4	TMH	Arch. Specs	Section for Fire Exit Door Hardware missing.			
A-5	TMH	Arch. Specs	Revise Batt Insulation type to be faced with foil as a vapor barrier to match drawings.			
A-6	TMH	Arch. Specs	Section for painting of metal guard rails and pickets with exterior grade paint needs expanding beyond "brush finish".			
A-7	TMH	All Sheets	Add Disclaimer Note to more accurately reflect agreed upon code deviations. Ex.: " VEC and its affiliates are not liable for complying with sections of the current international code, IBC 2006, per certain allowed deviations from the code as agreed upon with USAID"			
A-8	TMH	A01	Fire Sprinklering is still required by code. No Code Deviation has been granted.			
A-9	TMH	A02,A03	Material Schedule does not indicate any wall insulation as part of the exterior wall construction. The 2006 IBC, Chapter 13 Energy Efficiency, references the International Energy Conservation Code. Table 502 of this code requires a minimum 'R' value of 5.7 for Mass walls above grade, Zone 4, which is the equivalent climate zone for Kabul. Minimum insulation thickness required is 2.5 cm.			
A-10	TMH	A02,A03	Roof note indicates a Pre-Engineered roof system, to date no drawings have been provided for review. Roof decking as shown is self-supporting, calculations are needed to verify that no structural members are needed to support the roof deck.			
A-11	TMH	A01	Exterior Walls do not need to be fire rated as indicated by 'A1' & 'H1'			
A-12	TMH	A01	Indicate (3) Lavs on each side of serving, adjacent to condiment counters.			
A-13	TMH	A01	Delete urinals and urinal screens. Shift sinks down wall in Restroom 2.			
A-14	TMH	A01	Indicate Door D5 as oversize on plan.			
A-15	TMH	A02	Revise window sizes on Elevations; casements below , fixed window above.			
A-16	TMH	A02	Details are needed at canopies at front and side entrances.			
A-17	TMH	A02	Downspouts require splashblocks.			
A-18	TMH	A04	Exterior doors D1,D2,D3, do not need to be fire rated.			

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A-19	TMH	A04	Dining Facility entry Doors D1, are high traffic doors, and should have vision glass. Glass to be 700mm wide x 900mm high.			
A-20	TMH	A04	Doors D1 to have fire exit hardware (push/pull) per IBC 1008.1.10.Reccomend a center door stile for latching			
A-21	TMH	A04	Add rigid insulation on door and window details at exterior walls.			
A-22	TMH	A04	Doors D6 & D7 missing from Elevations.			
A-23	TMH	A04	Kitchen Serving, Cooking Area, and Dishwashing Room walls need a durable, water resistant finish such as ceramic tile, or FRP panels, in place of painted CMU.			
A-24	TMH	A04	Revise Window Type 'W1' to reflect casements below & fixed window above.			
A-25	TMH	A06	Locker Elevation 4/A06.1 missing.			
A-26	TMH	A06.01	Serving Counter and Dishwashing Counter are indicated as "By Others". These should be part of the Design-Build package, for the Dining Facility. Dishwashing counter to be stainless steel.			
A-27	TMH	A07	Indicate Toilet Room partition and doors to be plastic laminate per the specifications.			
A-28	TMH	A08	Revise Restroom Elevations to indicate wall tile.			
A-29	TMH	A09	Detail G indicates plywood soffit, suggest metal to match gutters for durability.			
A-30	TMH	A09	Detail L- metal gutters and downspouts need to be galvanized.			
A-31	TMH	A09	Detail L - concrete splash blocks needed at downspouts.			



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CIVIL COMMENTS - DINING FACILITY BUILDING 28						
C-01	JWH	01-C03 & C04	Benchmarks are pointed out but should include descriptions			
C-02	JWH	28-C05	The plan calls out several manholes that are not shown. Show man holes.			
C-03	JWH	28-C05	Plan shows sewer man hole but no sewer lines. Show sewer lines with slopes, material and diameter. Extend building lateral to the sewer.			
C-04	JWH	28-C05	Show where the water line enters the building. Include size and material.			
C-05	JWH	28-C05	Provide calculations and details for the grease trap.			
C-06	JWH	28-C05	The plan shows an existing 15 kv line terminating near the building. Where does this go? What is happening with this?			
C-07	JWH	28-C05	The east side of Alignment D-2 slopes immediately away from the pavement at a slope of 2:1. This is a potential hazard. Is it necessary to start the slope that close to the pavement?			
C-08	JWH	28-C06	Alignment D-3 provides access to an existing structure. Identify the structure and purpose.			
C-09	JWH	28-C05	Provide a detail of the FDOT Type C inlet			
C-10	JWH	28-C05	How the drainage system is designed to function is unclear. It has an inlet at each end and no outlet is shown. As designed the pipe will stay full of water			
C-11	JWH	28-C05	Pipe sizes have not been provided			
C-12	JWH	28-C05	Provide section marks to show where the swale sections are taken			
C-13	JWH	Engineering & Utility Report Tables 1 & 2	For fixtures listed water demand can be expected to equal wastewater generation. It is unclear why some fixtures were ignored in the calculations			
C-14	JWH	General	Water sewer and drainage have not been designed and have been eliminated from this package.			



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STRUCTURAL COMMENTS - DINING FACILITY BUILDING 28						
S1	FRS	Dwg 28-A09	Revise details K & L to match shape of concrete beam.			
S2	FRS	Dwg 28-S05 Detail 11	Section mark should read 12/S04. Show ground rod embedded in the slab.			
S3	FRS	Dwg 28-S05 Detail 3 & 5	Joint detail should show column hoops extending into the beam/ column joint to address ACI 315-99 high seismic risk, joint restraint details.			
S4	FRS	Dwg 28-S05 Column & Beam Schedule	Include note for beam and column hoops, stirrups and ties shall terminate in 135 degree ends. This is a standard seismic detail.			



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MECHANICAL COMMENTS - DINING FACILITY BUILDING 28						
M-1	CSR	28-G02	Drawing Index does not match drawing title for sheets 28-M08 and 28-M09. Either change Index or M-drawing titles.			
M-2	CSR	28-M07, Note M-2 65% review	There does not appear to be any provision for weight and support of kitchen make-up air unit on the structural drawings and no coordination requirements are noted.			
M-3	CSR	Specs.	No Comments.			
M-4	CSR	Design Analysis: Engineering Report & Calculations	Report reviewed; no comments. Note that Section 4a Energy Calculations not provided for review.			



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PLUMBING COMMENTS - DINING FACILITY BUILDING 28						
P-1	GPD	28-C05	Need to indicate size and inverts on (3) sanitary building drains serving dining building. Refer to Drawing 28-P01.			
P-2	GPD	28-C05	For future submission, indicate water service size and coordinate service entrance location with Drawing 28-P02.			
P-3	GPD	28-C07	Drawing not included in set. No sanitary sewer profiles included.			
P-4	GPD	28-P01	No issues taken.			
P-5	GPD	28-P02	No issues taken.			
P-6	GPD	28-P03	No issues taken.			
P-7	GPD		No issues taken.			
P-8	GPD	28-P05	No issues taken.			
P-9	GPD	28-P06	No issues taken.			
P-10	GPD	Specs	No issues taken.			
P-11	GPD	Engineering and Utilities Report	No issues taken.			



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ELECTRICAL COMMENTS - DINING FACILITY BUILDING 28						
E-1	JAS	28-E01	The top of the LEGEND and the first 6 symbols are missing from the sheet			
E-2	JAS	28-E02	For Fixture Type F3 and F4 - Verify that these fixtures are available with IP54 rating. Did not see it as an option in the manufacturer web site.			
E-3	JAS	28-E02	Recessed troffers are not an appropriate fixture type for the Boiler Room. Recommend an industrial type fluorescent fixtures. Coordinate with Architectural Finish Schedule on 28-A04. It does not show an acoustic ceiling in the Boiler Room. This comment was raised at the 65% review and not adequately addressed.			
E-4	JAS	28-E02	There is no emergency egress lighting provided outside the exit discharge doors, as required by the International Building Code (IBC). Egress lighting is provided inside the building, but nothing is provided on the EXTERIOR of the building. This comment was raised at the 65% review and not adequately addressed.			
E-5	JAS	28-E02/Design Narrative	Provide lighting calculations verifying an average of 1 foot-candle (10 lux) illumination in the path of egress. Annex A of the Design Narrative is listed as having photometrics, but nothing was included. This comment was raised at the 65% review and not adequately addressed.			
E-6	JAS	28-E03	There is no equipment shown in the Boiler Room. The Boiler Burner and circulating pumps all require an electrical connection which should be shown on the electrical drawings. This equipment is listed in the Panel Schedule, but no equipment locations are shown. An enlarged plan showing the layout is recommended. This comment was raised at the 65% review and not adequately addressed.			
E-7	JAS		In the last line of Note 2 the word HIGH is misspelled.			
E-8	JAS	28-E06	Detail 8, Note 1 - The reference should be to Structural Drawing 28-S05.			
E-9	JAS	Design Analysis: Engineering Report & Calculations	Report reviewed; no comments. Note that Annex A Electrical Calculations Photometrics Floor Plan was not provided for review.			
E-10	JAS	Specifications	Technical specs reviewed. No comments.			