

**Combined Arms Collective Training Facility PH II
(PN 59376) Fort Riley, Kansas
W912DQ-04-B-0011**

**Questions and Answers
20 Aug 04**

General Questions

1. I have a question about the UAC Station 3 Grenadier Gunnery. Looking at drawing SE101 of Vol.2 I am wondering about details of the rubber matting on the façade of the target backstop. It notes Lintex as a supplier but does not give other details for the system. What durometer of matting would be applicable to the psi load hitting the target? I would assume a standard 60 durometer would suffice. Also the thickness of the matting I have assumed to be ½ inch. Unfortunately Linatex is not certain of what product would be best for this application.

Provide Linatex, Linaplus OZ, 1 inch thickness, or approved equal. This information will be shown by amendment dated 8/18/04.

2. Plans, sheet V_SE101, Plan notes, call for walls by others, and are this correct?

Drawings are correct as shown.

3. Plans, sheet L_SE 101, Plan note call for the walls to have T & B 2x6 plates, not shown on the elevations

Plans and elevations have been revised for clarity. See amendment dated 8/18/04.

4. Plans, sheet Z_AE100, plans show type 4 walls to be concrete. Our plans do not show concrete on sheet Z_SE100 & sheet Z_SE 101 in not legible. Are the wall indeed poured conc.?

Will be issued by amendment. See amended sheet AE506 in Volume 2.

5. Volume 2 Sheet L_SE101 UAC Stations 1 & 1A
Note refers to ricochet resistant protective sheeting - please specify product and where does it go since the note refers to behind all targets. Is this a Linatex product?

Product is not required. Requirements have been revised by amendment dated 8/18/04.

6. Volume 2 Sheet W_SE101 UAC Station 3
Note 1 Linatex rubber matting - please identify specific product. A variety of Linatex products, some extremely costly, could be used in this application.

Provide Linatex, Linaplus OZ, 1 inch thickness, or approved equal. This information will be shown by amendment dated 8/18/04.

7. Volume 1, Sheet CG501, Note 3 of the drawings indicates that the footings are to be at least 48 inches below grade; however, the Wall Section and Pilaster Footing Detail indicate the top of footing at 30 inches below grade. Which is correct?

See amendment dated 8/18/04

8. Volume 1, Sheet CG501, what is the type and color of the concrete masonry units for the Shantytown Perimeter Wall?

See amendment dated 8/18/04

9. Volume 1, Sheet A_SE102 states that the roof pitch for Truss Type 3 (utilized for the "T" and "U" Townhouses) is 4/12. Utilizing this pitch, there is a conflict with the 4'-8" height dimension at the peak of the truss. Additionally, Volume 1, Sheets T_AE201 and U_AE201, Elevations B and D, state that the roof pitch for the Townhouses is 2/3, the same as the porches. What is the correct roof pitch for the Townhouse roofs and porches?

Roof pitch shall match architectural requirements. Information has been revised by amendment dated 8/18/04.

10. Volume 1, Sheet T_SE100, detail 1/SE301 of the drawings does not show the actual condition at this location to coincide with Sheet T_AE100. We assume the detail should be similar to detail 5 on Sheet SE301, except the wall is 8 inches thick. Please provide the size and spacing of the reinforcing steel for this wall and the elevation of the footings for the basement of the Townhouses. Conditions are similar for the UAC Station 4 (reference Volume 2, Sheet A_SE100).

Will be issued by amendment. See amended sheets AE506 in Volume 1 and AE506 in Volume 2. Also note amended sheet Z_AE101 in Volume 2.

11. Volume 1, Sheet T_SE101 of the drawings call for detail 9 on Sheet SE303. This detail is not on Sheet SE303, please provide it?

Structural plans and sections cuts for the townhouse buildings have been revised for clarification. See amended drawings dated 8/18/04.

12. Volume 1, Sheet T_SE101 of the drawings calls for details 6/SE303, 5/SE803, and 8/SE803. These details indicate concrete beams, which appear to span an opening which does not exist. Do the beams bear on the concrete basement walls or should they be similar to details 1/SE303, 2/SE303, and 3/SE303?

Structural plans and sections cuts for the townhouse buildings have been revised for clarification. See amended drawings dated 8/18/04.

13. Volume 1, Sheet T_AE100 of the drawings indicates a Type 4 wall, which is not depicted on the Structural Drawings. Please provide details for the footing or thickened edge (if required) and the size and spacing of the reinforcing steel.

Will be issued by amendment. See amended sheets AE506 in Volume 1 and AE506 in Volume 2.

14. Volume 1, Sheets AE301 (Details A, B, and C) and AE302 (Details B and C) of the drawings indicate 4" perforated pipe for buildings that do not have basements. The Sump & Foundation Drain Note 4 on Sheet SE306 indicates that the foundation drains are required for buildings without basements. Similar conditions also apply to Volume 2 of the drawing.

Foundation drains have been revised to 4". Drain line requirements have been clarified on drawings. See amended drawings dated 8/18/04.

15. Volume 1, Sheet AE602 of the drawings, T Townhouse Door Schedule, Door T222 is a hollow metal door, however, no door size or hardware set is specified. Directly below it, Door opening T223 states that it receives Hardware Set 6 and that it is "insulated"; however, there is no door to be provided for that opening. Please clarify what is required for these two openings.

Will be issued by amendment. See amended sheet AE602.

16. Volume 1, Sheet AE606, Details 2 ("1" and "2"), 3 ("1" and "2"), and 4 ("1" and "2")/AE606 of the drawings show that the windows are to receive a 4' x 4' x 5/8" plywood insert. The inserts will not be large enough to cover the window openings. A similar situation exists in Volume 2, Sheet AE605, Details 2 ("1", "2" and "3"), 3 ("1", "2" and "3"), and 4 ("1", "2", and "3")/AE605. Please advise if larger plywood inserts are desired.

The retaining angles should be positioned at the top and bottom of each window to hold a 4'-0" high plywood insert, which will cover the 3'-8" vertical opening for each window type. The majority of window types can be covered by a 4'-0" wide insert as indicated, but plywood inserts can be larger for the larger window types (Volume 1 types F and G). For the one smaller window type (Volume 2 type C) a shorter insert can be used.

17. Volume 1, Sheet AE606, Details 2 ("1" and "2"), 3 ("1" and "2"), and 4 ("1" and "2")/AE606 of the drawings show a 2" x 4" wood window jamb with countersunk washers and nuts at the window openings. What is the size, spacing, and type of anchor required for the wood window jambs? A similar situation exists in Volume 2, Sheet AE605, Details 2 ("1", "2", and "3"), 3("1", "2", and "3"), and 4("1", "2", and "3")/AE605.

Use a threaded masonry anchor (1/2" Dia. to interchange nuts with those on the door frames). On jambs space 6" O.C. from top and bottom of opening, for head and sills space 6" O.C. from each side of opening. If necessary, another anchor should be added in the center of each side of the opening.

18. Volume 1, Sheet T_P-100 of the drawings indicates to connect 4" footing drain to sump. The Sump & Foundation Drain Note 4 on Sheet SE306 indicates that the foundation drains are 6". What is the required size? Similar conditions also apply to Volume 2 of the drawing.

Foundation drains have been revised to 4". Drain line requirements have been clarified on drawings. See amended drawings dated 8/18/04.

19. Volume 2, Sheet CS307 of the drawings; the Key for the flagpoles and bollards are reversed. Also on this sheet, what does "HP" indicate?

The key for flagpoles and bollards are reversed. 'fp' is abbreviation for flagpole and 'b' is abbreviation for bollard. 'hp' is an abbreviation for highpoint.

20. Volume 2, Sheet CG503, CMU Wall elevation C/CG503 does not indicate the type of foundation, reinforcing, or type and color of the concrete masonry units. Please provide additional details.

See amendment dated 8/18/2004

21. Volume 2, Sheet A_SE100 indicates wall partition non-load bearing, see Sheet SE703, which is for concrete masonry partitions; Sheet A_AE100 calls

for a Type 4 partition, which is concrete. Do you want masonry or concrete partitions? If they are concrete, please provide reinforcing information.

Will be issued by amendment. See amended sheet AE506 in Volume 2.

22. Volume 2, Sheet Z_SE100 does not indicate a sump for the foundation drainage. Where does the piping drain?

This building has a walkout basement. The piping shall drain to daylight, similar to non-basement buildings.

23. Volume 2, Sheet B_AE101 of the drawings indicates mouseholes, please provide additional information to estimate this work. What size are the mouseholes, at what elevation are they installed, and how are the SACON blocks supported above the mouseholes?

Mousehole details and requirements have been added. See amended drawings dated 8/18/04.

24. Volume 2, Sheet P_M-101, Note 3 of the drawings states that unit heater shall be of the explosion proof type. Unit heater IRH-IP shown for the Control Tower HVAC Plan 2/P_M-101 is not explosion proof. Which is correct?

Note 3 does not apply to sheet P_M-101. It was inadvertently copied from sheet G_M-101. Note 3, Volume 2, sheet P_M-101 will be deleted by amendment.

25. Volume 2, Sheet M-502, Detail B of the drawings shows a 2000 gallon LPG tank; however, Sheet CS316 shows a 1000 gallon LPG tank. Which is correct?

The tank sizes are correct as shown on the Civil drawings. Replace the note "1-2000 GAL LPG TANK PER NFPA 58 FOR BLDGS A, B & C (TYPICAL)" on sheet M-502, Volume 2, with "LPG TANK PER NFPA 58, SEE CIVIL SHEETS FOR SIZE, LOCATION AND QUANTITY." Will be revised by amendment.

26. Volume 2, Sheet M-601, Exhaust & Ventilation Fan Schedule, Note 4 of the drawings calls for massive pipe bollard for tank protection for EF-3A, EF-10 and EF-20. Sheet M-501, Detail G, Note 3 indicates that bollards are required at the Offensive/Defensive Building (EF-3A) only. Do you want bollards for EF-10 and EF-20? If so, how many and are they the same as the Bollard Detail on Sheet CG501.

Only EF-3A requires the pipe bollards. Clarification will be issued by amendment.

27. Volume 2, Sheet M-601, Air Compressor Schedule, Note 1 and 2 of the drawings indicates a dry-pipe fire protection system for the sewage holding tank; however, no fire protection is shown or specified. Please clarify?

AC-1F as shown in the Air Compressor Schedule on sheet M-601 of Volume 2 only references Note 3. Delete Notes 1 and 2 from the Air Compressor Schedule on sheet M-601 of Volume 2. Will be issued by amendment.

28. Volume 2, Sheet M-601, Air Handling Unit Schedule, Condensing Unit Schedule, Infra-Red Heater Schedule, and Electric Propeller Unit Heater Schedule of the drawings. Please provide the basis of design.

The bidder is asking for the "basis for design" for several items listed in the various schedules shown on sheet M-601 of Volume 2. It is not clear what information the bidder believes is specifically missing from the plans and

specifications. It is assumed that the bidder is looking for a manufacture and model number for each piece of equipment. Federal regulations prohibit the release of this information to prevent limiting the competition. The bidder must bid the job as shown on the plans and specifications.

29. Volume 2, Sheet M-601, Infra-Red Heater Schedule of the drawings, heaters IRH-2F and IRH-1P are not available in 8500 BTU/HR with a 10 amp, 115 volt, 1 phase service. The stated power ratings will not deliver the specified BTU/HR. Please advise.

Electric Infra-Red Heaters IRH-2F and IRH-1P are the same model specified on other projects and the Infra-Red Heater Schedule on sheet M-601 of Volume 2 will not change. Bidders must bid it as they see it.

30. Vol I; Details 5, 6, 8 /SE 303 appear to show the beams that go over the porch openings. Sheet T_SE 101 shows the cuts where the first floor slab bears on the basement wall. Please clarify and provide details for the slab bearing on basement wall at the porches.

The plans and section cuts have been revised by amendment. See amendment dated 18/Aug/04.

31. Vol; Plan 1/V_SE 101 does not scale correctly even at 1/8" = 1'-0". Please verify.

V_SE101 is not shown at correct scale, however, the dimensions shown are correct. V_AE101 is shown at a correct scale and dimensioning.

32. Will all base bid items be awarded as one contract?

That is correct.