

**Tetra Tech Responses to URS Comments  
Ghazi Boys High School  
Site Layout, Grading and Utility Drawings  
Kabul, Afghanistan**

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

| Comment #                          | Reviewer & Discipline | Reference       | Comment  | Response Code                             | Response  | Back-Check |
|------------------------------------|-----------------------|-----------------|--|---|---|------------|
| <b>URS COMMENTS <sup>(1)</sup></b> |                       |                 |  | <b>TETRA TECH RESPONSE <sup>(2)</sup></b> |   | <b>URS</b> |
| C-1                                | Coleman/Civil         | General         | Use matchlines in plan views   | A   | Corrected   |            |
| C-2                                | Coleman/Civil         | General         | Label existing features that are adjacent to proposed site improvements. Include material/composition of existing feature, i.e. ex.concrete sidewalk, ex. gravel assembly area, ex. fence, ex. curb etc. Show with distinct and different linetypes. | A   | Previously Corrected  |            |
| C-3                                | Coleman/Civil         | General         | Story is spelled 'STOREY' on several sheets.   | A   | Corrected   |            |
| C-4                                | Coleman/Civil         | General         | Dimension vertical concrete curb radii.  | A   | Previously Corrected  |            |
| C-5                                | Coleman/Civil         | General         | Dimension all parking areas and drive aisles. Dimension areas of proposed concrete paving.   | A   | Previously Corrected  |            |
| C-6                                | Coleman/Civil         | General         | Show graphical scale on all plan view drawings.  | A   | Previously Corrected  |            |
| C-7                                | Coleman/Civil         | General         | There are many undefined abbreviations and acronyms in the plans that should be provided in the legend.  | A   | Will Be Corrected   |            |
| C-8                                | Coleman/Civil         | General         | Water piping design calculations should be provided.   | AE  | Already Provided  |            |
| C-9                                | Coleman/Civil         | General         | Sewer piping design calculations should be provided.   | AE  | Already Provided  |            |
| C-10                               | Coleman/Civil         | C-03.3          | Are there any improvements proposed in the vicinity of the 'future monument'? How should the monument area be protected?   | AE  | The monument is a concrete structure that is the entrance to the old boy's school. A new walkway will be located between the monument and the new Administration Building, to be designed under Tetra Tech's Utilities Extension project. |            |
| C-11                               | Coleman/Civil         | C-03.5          | Label features in proposed bicycle lot.  | A   | Corrected   |            |
| C-12                               | Coleman/Civil         | C-04.1          | It is difficult to distinguish existing index contours vs. all proposed contours. It appears that contours cross near the northwestern corner of the building labeled BLOCK ONE.   | A   | Corrected   |            |
| C-13                               | Coleman/Civil         | C-04.1          | Spot shots have abbreviations that are not defined in the plan set.  | A   | Will Be Corrected   |            |
| C-14                               | Coleman/Civil         | C-04.1          | How will swale in the northeast corner (of plan sheet) drain through the existing perimeter wall?  | AE  | Swale cannot drain through the perimeter wall. Exterior grades are higher. Runoff will have to percolate in low area.   |            |
| C-15                               | Coleman/Civil         | C-04.1 - C-04.6 | C-04.1 - C-04.6 Consider adding appropriately placed proposed top of curb elevations to all grading sheets.  | D   | The curbs are all 150 mm above the concrete. Only calling out the elevations of the concrete walkway or paving is necessary.  |            |

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|-----------|-----------------------|-----------|---|---------------|--|------------|
| C-16      | Coleman/Civil         | C-04.2    | How will the swale around the existing latrine drain? No outfall is shown.  | AE            | The intent was to drain through the perimeter wall to an existing concrete drainage channel, however the pipe invert would have been only 200 mm above the bottom of the channel. These channels are often full of grey water, therefore there was a significant risk of a reverse flow from the channel into the site. This design has been eliminated. Runoff will now have to percolate in a low area west of the existing latrine. |            |
| C-17      | Coleman/Civil         | C-04.2    | How will swale in the northwest corner (of plan sheet) drain through the existing perimeter wall?   | AE            | Swale cannot drain through the perimeter wall. Exterior grades are higher. Runoff will have to percolate in low area. Grading has been extensively revised since 95%.  |            |
| C-18      | Coleman/Civil         | C-04.3    | Show proposed features consistently through plan set. Some proposed concrete paving is shown and some is not shown on the same sheet.   | A             | Previously Corrected   |            |
| C-19      | Coleman/Civil         | C-04.6    | Label contours shown around proposed fuel tanks and generator pads. Proposed grading is not tied to existing contours.  | A             | Corrected  |            |
| C-20      | Coleman/Civil         | C-04.6    | Tie proposed contours shown on western side (of plan sheet) along proposed parking area and walkway.  | A             | Previously Corrected   |            |
| C-21      | Coleman/Civil         | C-05.1    | All compaction requirements should be noted as 'compacted to 95% of Standard (or Modified) Proctor'   | D             | The native soil is a sandy clay that is very difficult to compact to 95% Modified Proctor. It has been decided to accept 90% compaction beneath sidewalks, pads, and roads.  |            |
| C-22      | Coleman/Civil         | C-05.1    | All dimensions should be shown with units, i.e. mm  | D             | There is a note on every drawing indicating dimensions shown are in millimeters unless otherwise noted.  |            |
| C-23      | Coleman/Civil         | C-05.1    | It appears from the sidewalk detail and looking at the sidewalk locations shown in the plan views that the sidewalks will act as a channel, where will runoff drain from sidewalks? | A             | Previously Corrected. Curbs that must allow drainage to pass will have 50 mm diameter PVC pipes inserted through the curbs, flush with the sidewalk or pavement, spaced every 5 meters.  |            |

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| C-24      | Coleman/Civil         | C-06      | Water and sanitary sewer are provided to Block One and Block Two but no other buildings. Should service be provided for the other existing buildings and the future Admin Building? | AE            | The existing latrines at this site are "dry" meaning that they are not served with water, and the waste must be manually pumped out by septage haulers. They are only going to be used as emergency backup facilities after the new utility systems are installed. The new Administration Building will be served by the utility system serving the school. |            |
| C-25      | Coleman/Civil         | C-07.1    | Note slope of sanitary sewer pipe on plan view as shown on C-07.2   | A             | Corrected   |            |
| C-23      | Coleman/Civil         | C-07.2    | Should the Existing Latrine be served by sanitary sewer?  | AE            | See response to comment C-24.   |            |
| C-25      | Coleman/Civil         | C-08.1    | All dimensions should be shown with units, i.e. mm  | D             | There is a note on every drawing indicating dimensions shown are in millimeters unless otherwise noted.   |            |
| C-26      | Coleman/Civil         | C-08.1    | Sewer Manhole Invert detail notes 'TYP SEWER MANHOLE SEE SHEET U-62' There is no sheet in the set.  | A             | Previously Corrected  |            |

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| URS COMMENTS <sup>(1)</sup> |                       |           |   | TETRA TECH RESPONSE <sup>(2)</sup> |  | URS        |
| SA-1                        | DTR                   | G-02      | Sheet C-12 Drawing Title: Add "Notes and" to title. "Potable Water Tank Notes and Details"  | A                                  | Corrected  |            |
| SA-2                        | DTR                   | G-02      | Sheet C-13 Drawing Title: Add space between "Grey" and Water", remove "s" from "tanks". "Grey Water Tank Plan"  | A                                  | Corrected  |            |
| SA-3                        | DTR                   | G-02      | Sheet C-14 Drawing Title: Add space between "Grey" and Water", remove "s" from "tanks". "Grey Water Tank Section"                                     | A                                  | Corrected  |            |
| SA-4                        | DTR                   | G-02      | Sheet C-15 Drawing Title: Add space between "Grey" and Water", remove "s" from "tanks", add "Notes and" to title. "Grey Water Tank Notes and Details" | A                                  | Corrected  |            |
| SA-5                        | DTR                   | G-02      | Add "Stair Details And" to title. "Pump House Stair Details and Schedules"  | A                                  | Corrected  |            |
| SA-6                        | DTR                   | G-02      | Add "Transformer and" to title. "Electrical Details Transformer and Generator"  | A                                  | Corrected  |            |
| SA-7                        | DTR                   | C-01      | Symbol for water shut off is scrambled  | A                                  | Previously Corrected   |            |
| SA-8                        | DTR                   | C-01      | Add symbol for crushed gravel   | A                                  | Corrected  |            |
| SA-9                        | DTR                   | C-01      | Grey water line symbol is jumbled   | A                                  | Corrected  |            |
| SA-10                       | DTR                   | C-01      | The symbol for fence is not the same as the one used on sheet C-03.2. Add symbol for "Chain Link Fence"   | A                                  | Corrected  |            |
| SA-11                       | DTR                   | C-03.1    | Add "Sheet" to title. "Sheet 1 of 6" All C-03 sheets.   | A                                  | Corrected  |            |
| SA-12                       | DTR                   | C-03.1    | Change "Storey" to "Story" throughout. "Existing three story building"  | A                                  | Corrected  |            |
| SA-13                       | DTR                   | C-03.1    | Text overlaps onto different page. Cannot read. Throughout.   | A                                  | Corrected  |            |
| SA-14                       | DTR                   | C-03.2    | Chain link fence symbol doesn't match legend on C-01.   | A                                  | Corrected  |            |
| SA-15                       | DTR                   | C-03.3    | Measurement is cut off. "10.97m"  | A                                  | Corrected  |            |
| SA-16                       | DTR                   | C-03.4    | Add call outs for "VCC" to curbs.   | A                                  | Corrected  |            |
| SA-17                       | DTR                   | C-03.5    | Existing Guardhouse building is skewed.   | A                                  | Corrected  |            |
| SA-18                       | DTR                   | C-03.6    | Existing Guardhouse building is skewed.   | D                                  | Shown correctly on our drawings                                      |            |
| SA-19                       | DTR                   | C-03.6    | Existing Latrine building is skewed.  | D                                  | Shown correctly on our drawings                                      |            |
| SA-20                       | DTR                   | C-03.6    | Add call outs for "VCC" to curbs.   | A                                  | Corrected  |            |
| SA-21                       | DTR                   | C-04.1    | "Existing Tube Well" uses a different symbol than C-03.6  | A                                  | Corrected  |            |
| SA-22                       | DTR                   | C-04.2    | Change (SEE C-10, 11, 12) to (SEE C-10 to C-12). For consistency  | A                                  | Corrected  |            |
| SA-23                       | DTR                   | C-04.2    | "Match Existing Concrete" has a misplaced leader and overlapping text.  | A                                  | Corrected  |            |
| SA-24                       | DTR                   | C-04.2    | Make the title "SHEET 2 OF 6" NOT bold. For consistency   | A                                  | Previously Corrected   |            |
| SA-25                       | DTR                   | C-04.3    | Unexplained line from block C3 to block G6. Proposed Elevation? Needs elevation.  | D                                  | Don't understand comment. Appears to have been previously corrected. |            |

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| SA-26     | DTR                   | C-04.3    | Fix overlapping text on future admin building. (F3)                       | A             | Previously Corrected   |            |
| SA-27     | DTR                   | C-04.3    | Fix overlapping text on Existing Linkway. (H5)                            | A             | Previously Corrected   |            |
| SA-28     | DTR                   | C-04.4    | Fix overlapping text on Existing Linkway. (A5)                            | A             | Previously Corrected   |            |
| SA-29     | DTR                   | C-04.4    | Drainage Ditch Outside Wall See Detail. Doesn't specify what detail. (H3) | A             | The latest grading plans eliminate this note.  |            |
| SA-30     | DTR                   | C-04.4    | Elevation of walkway 1820.80 shoule be 1819.80? (C2)                      | A             | Previously Corrected   |            |
| SA-31     | DTR                   | C-04.5    | Existing Guardhouse building is skewed. (C3)                              | D             | Shown correctly on our drawings  |            |
| SA-32     | DTR                   | C-04.6    | Latrine Building missing (G5)   | A             | Previously Corrected   |            |
| SA-33     | DTR                   | C-04.6    | "Existing Tube Well" uses a different symbol than C-03.6 (C5)             | A             | Corrected  |            |
| SA-34     | DTR                   | C-04.6    | Add call outs for "VCC" to curbs.   | D             | Not necessary. Already called out in the site layout drawings  |            |
| SA-35     | DTR                   | C-05.1    | Add "Sheet" to title. "Sheet 1 of 3" All C-05 sheets.                     | A             | Corrected  |            |
| SA-36     | DTR                   | C-05.1    | Add slope to outlet from WWTP wall penetration detail. (F5)               | A             | Corrected  |            |
| SA-37     | SPT                   | C-05.2    | Change "Fabric Width" to "Fabric Height" on C-L Security Fence Detail.    | A             | Corrected  |            |
| SA-38     | DTR                   | C-05.2    | Overlapping text on Steel Post Schedule. (H5, H6)                         | A             | Corrected  |            |
| SA-39     | DTR                   | C-05.3    | Details can be larger and be placed uniformly                             | A             | Corrected  |            |
| SA-40     | DTR                   | C-06      | Water/Sewer service should be provided for future and existing buildings. | O             | The extension of utilities to the new Administration Building is currently out of scope, and requires an approved amendment from USAID.                                    |            |
| SA-41     | DTR                   | C-06      | Overlapping text (F3)   | A             | Corrected  |            |
| SA-42     | DTR                   | C-06      | Overlapping text (H4)   | A             | Corrected  |            |
| SA-43     | DTR                   | C-06      | Upside down text (G4)   | D             | Not shown on our drawings  |            |
| SA-44     | DTR                   | C-07.1    | Overlapping text (C4)   | A             | Corrected  |            |
| SA-45     | DTR                   | C-07.1    | Missing sewer slopes  | A             | Corrected  |            |
| SA-46     | DTR                   | C-07.1    | Missing water pipe cover requirements.                                    | A             | Will be corrected  |            |
| SA-47     | DTR                   | C-07.1    | Overlapping text (E5)   | A             | Corrected  |            |
| SA-48     | DTR                   | C-07.2    | Overlapping text (A5)   | A             | Corrected  |            |
| SA-49     | DTR                   | C-07.2    | Overlapping text (C5)   | A             | Corrected  |            |
| SA-50     | DTR                   | C-07.2    | Overlapping text (G1) "GW symbol"   | A             | Corrected  |            |
| SA-51     | DTR                   | C-08.1    | Concrete pad shown incorrectly, should be flat. (B4)                      | A             | Corrected  |            |
| SA-52     | DTR                   | C-09.1    | Add "Bentonite" to Seal. "Bentonite Seal" (E4)                            | A             | Corrected  |            |
| SA-53     | DTR                   | C-09.1    | Need elevation for plug or cap. (E2)                                      | D             | A note has been added to the drawing to clarify that the depth of the well will be determined by the USAID implementing partner, after the well tests have been performed. |            |
| SA-54     | DTR                   | C-09.1    | Missing date in title block   | A             | Corrected  |            |
| SA-55     | DTR                   | C-09.2    | Add "Heat Tracing Power Connection" to drawing to match C-09.1 (C6)       | A             | Previously Corrected   |            |
| SA-56     | DTR                   | C-09.2    | Should "certainteed" read "gauranteed" ? (F5)                             | D             | Certainteed is the manufacturer of the pipe fitting being referred to in the table.  |            |
| SA-57     | DTR                   | C-09.3    | Add "Heat Tracing Power Connection" to drawing to match C-09.1 (D5)       | A             | Previously Corrected   |            |

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| SA-58     | DTR                   | C-10      | Detail callouts are crossed out (F5, B3)   | A             | Previously Corrected   |            |
| SA-59     | DTR                   | C-10      | Change "100 Vent" to "150 Vent to match C-11. (F4)   | A             | Will be corrected  |            |
| SA-60     | DTR                   | C-11      | Remove duplicate call out: "Flanged transition, HDPE SDR 17 to SCH 80 PVC" (B4)  | A             | Previously Corrected   |            |
| SA-61     | DTR                   | C-11      | Reorder callouts so leaders don't cross. (B5)  | A             | Previously Corrected   |            |
| SA-62     | DTR                   | C-11      | "Stainless Steel Hook Beyond" What is the hook beyond? Not enough info. (A3)   | A             | The word "beyond" has been deleted.  |            |
| SA-63     | DTR                   | C-11      | Detail callouts are crossed out (C1, E3)   | A             | Previously Corrected   |            |
| SA-64     | DTR                   | C-11      | Overlapping text (B2)  | A             | Previously Corrected   |            |
| SA-65     | DTR                   | C-12      | Rename Title: (Potable Water Tank Details)   | AE            | Renamed dwg "Potable Water Tank Notes and Details"   |            |
| SA-66     | DTR                   | C-14      | "Stainless Steel Hook Beyond" What is the hook beyond? Not enough info. (G5)   | A             | The word "beyond" has been deleted.  |            |
| SA-67     | DTR                   | C-14      | Reorder callouts so leaders don't cross. (E5)  | A             | Previously Corrected   |            |
| SA-68     | DTR                   | C-14      | Overflow pipe has different note than C-13. Change to same note for consistency. (F5)  | A             | Previously Corrected   |            |
| SA-69     | DTR                   | C-14      | Rename Title: (Grey Water Tank Sections)   | A             | Corrected  |            |
| SA-70     | DTR                   | C-16      | Fix leader. (C6)   | A             | Corrected  |            |
| SA-71     | DTR                   | C-16      | Fix leader. (D6)   | A             | Corrected  |            |
| SA-72     | DTR                   | C-16      | Fix leader. (E4)   | A             | Corrected  |            |
| SA-73     | DTR                   | C-16      | Change text to read "Flanged Transition CORR HDPE to SCH 80 PVC" (A3)  | A             | Previously Corrected   |            |
| SA-74     | DTR                   | C-16      | Add Gravel Hatching to Details (B1, E1)  | A             | Corrected  |            |
| SA-75     | DTR                   | C-16      | Flanges shown off center (B6, B5)  | A             | Previously Corrected   |            |
| SA-76     | DTR                   | C-16      | Change callout to read "Insect Screen" for consistency (C5)  | A             | Corrected  |            |
| SA-77     | DTR                   | C-17      | Fix leader. (B5)   | A             | Corrected  |            |
| SA-78     | DTR                   | C-19      | No difference between "Above ground pipe" and "Underground pipe" symbols. Should make one discernably different. (H5)  | A             | Corrected  |            |
| SA-79     | DTR                   | C-19      | Add "Ball Valve" symbol to legend. (H4)  | A             | Corrected  |            |
| SA-80     | DTR                   | C-19      | No indication of where sludge discharge pipes are going (B6, C6)   | D             | Plan view note refers reader to the sludge connection detail which shows the sludge line passing through the perimeter wall. |            |
| SA-81     | DTR                   | C-19      | No pipe shown for 100 DIA. Sludge Removal. (C5)  | A             | Previously Corrected   |            |
| SA-82     | DTR                   | C-19      | Make pipe support notes the same. (C3, E3)   | A             | Previously Corrected   |            |
| SA-83     | DTR                   | C-19      | "600 Crushed Gravel" points to concrete pad. Add limits of crushed gravel for clarity. (G2)  | A             | Previously Corrected   |            |
| SA-84     | DTR                   | C-19      | From Note 2: recommend removing "(If pipe could remain filled with sewage or sludge under normal operating conditions)" safer to make them protect all above ground pipes. | D             | There may be numerous lines above grade (air lines, gravity drain lines, etc.) that do not require heat tracing.             |            |
| SA-85     | DTR                   | C-21      | Change detail call outs to the standard detail callouts which list sheets.   | A             | Corrected  |            |

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| SA-86     | DTR                   | C-21       | Note 1: Calls for 300mm select granular material while the details call for 600mm crushed gravel. Amend so they both call for the same amount.   | A             | Previously Corrected  |            |
| SA-87     | DTR                   | C-21       | Clarifier Detail C-C calls for Compacted Select Fill while Slarifier Detail B-B calls for crushed gravel. Amend so they both call for crushed gravel. (G2)   | A             | Corrected   |            |
| SA-88     | DTR                   | C-22       | Remove leader for Transition flanges DIP/HDPE from 25 HDPE. Add callout for Transition flange CPVC/HDPE for 25 HDPE. (B5)  | A             | Corrected   |            |
| SA-89     | DTR                   | C-22       | Add callout for 150 DIP. (B5)  | A             | Corrected   |            |
| SA-90     | DTR                   | C-22       | 25 SCH 80 PVC appears to be a floating pipe, show connection point to chlorinator. (C4)  | A             | Will be corrected   |            |
| SA-91     | DTR                   | A-02       | Add "Pump House" to Title. I.E. "Pump House Floor Plan" Throughout A sheets.   | A             | "Pump House" added to all architectural sheet titles  |            |
| SA-92     | DTR                   | S-01.1     | Genral Note 5: Fix formatting so there's no gap in text.   | A             | Corrected   |            |
| SA-93     | DTR                   | S-01.1     | Add "Pump House" to Title. I.E. "Pump House Structural General Notes" Throughout S sheets.   | A             | Corrected   |            |
| SA-94     | DTR                   | M-01       | Remove a 0 from Sheet Reference number. Should read "M-01"   | A             | Mechincal plan sheet reference number is now M-01   |            |
| SA-95     | DTR                   | E-03       | More information needed for Trees. Are they to be protected? Cut down?   | A             | Corrected   |            |
| SA-96     | DTR                   | E-03       | Trees are shown in the middle of the generator. Are these existing trees to be removed? Please note.   | A             | Corrected   |            |
| SA-97     | DTR                   | E-04       | Trees are shown in the middle of the generator. Are these existing trees to be removed? Please note.   | A             | Corrected   |            |
| SA-98     | TC                    | WO-LT-0005 | Verify BOD5 Loading of 1/3 (0.167)lb/capita and 50% of total is correct. Based on black water/grey water seperation it would be expected that most of the BOD loading would be in the black water. A higher % of BOD loading should be applied to the black water. | A             | Based on a total population of 6,000 people (schools plus admin building), 1/3 of 0.167 lb BOD/capita/day, and 70% of this going to the WWTP, equates to 105 KG BOD/day. The capacity of the two treatment trains is 136 KG BOD/day, so sufficient capacity is available. |            |
| SA-99     | TC                    | WO-LT-0005 | Verify if 15 liters per day per student is a client requirement or based on other standards.   | A             | A comparison of water demand for schools at various countries concluded that 30 lpd per student would be reasonable. 50% was assumed to be wastewater (remainder is greywater).   |            |
| SA-100    | TC                    | WO-LT-0005 | How is continuity of service with the WWTP addressed?  | O             | The WWTP spec now contains a requirement for the Contractor to arrange with the WWTP manufacturer for a one year operations and maintenance contract, which includes a requirement to train the MOE operators. Not sure if this answers the question.                     |            |
| SA-101    | TC                    | WO-LT-0005 | Is sludge removal to be pump and haul? Where will it be landfilled or processed?   | O             | The WWTP has a sludge pump for pumping the sludge to a hauling truck (on the other side of the perimeter wall). The sludge disposal method will probably be land application, but this is beyond our scope.   |            |

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A - Agree  
D - Disagree  
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|-----------|-----------------------|--------------------------|--|---------------|---|------------|
| SA-102    | DTR                   | Pump Design Calcs        | In general: A C value of 100 is very conservative. Most manufacturers recommend a C value in the 140 range. When designing conservatively a C value of 120 is used for PVC pipe. | A             | The pump design calculations are conservative. Friction losses are very minor due to the low length of discharge lines.   |            |
| SA-103    | DTR                   | Package Plant Pump Calcs | Cannot verify whether selected pump is adequate without pump curves.   | D             | The operating conditions shown for the influent pump (dwg C-16) match or exceed the head/flow conditions determined in the calculations. Relevant pump curve will be provided during submittal review.  |            |
| SA-104    | DTR                   | Package Plant Pump Calcs | Based upon information given a TDH of 23.35 ft was calculated. This is very close to the original calculation of 23.13 ft.   | O             | That's good.  |            |
| SA-105    | DTR                   | Grey Water Pump Calcs    | Cannot verify whether selected pump is adequate without pump curves.   | D             | The operating conditions shown for the greywater pump (dwg C-14) match or exceed the head/flow conditions determined in the calculations. Relevant pump curve will be provided during submittal review.   |            |
| SA-106    | DTR                   | Grey Water Pump Calcs    | Based upon information given a TDH of 25.20 ft was calculated. This is very close to the original calculation of 24.75 ft.   | O             | That's good.  |            |
| SA-107    | DTR                   | Potable Water Pump Calcs | Cannot verify whether selected pump is adequate without pump curves.   | D             | The operating conditions shown for the booster pump (dwg C-22) match or exceed the head/flow conditions determined in the calculations. Relevant pump curve will be provided during submittal review.   |            |
| SA-108    | DTR                   | Potable Water Pump Calcs | Based upon information given a TDH of 159.9 ft was calculated. This is very close to the original calculation of 156.34 ft.  | O             | That's good.  |            |
| SA-109    | DTR                   | Well Pump Calcs          | Cannot verify whether selected pump is adequate without pump curves.   |               | The well pump operating characteristics will be determined after the completion of the well tests, based on the recommendations of the USAID implementing partner (i.e., Tetra Tech hydrogeologist). This is explained in the well pump specification 43 21 39. Relevant pump curve will be provided during submittal review. |            |
| SA-110    | DTR                   | Well Pump Calcs          | Based upon information given a TDH of 18.20 ft was calculated. This is very close to the original calculation of 17.73 ft.   | O             | That's good.  |            |
| SA-111    | SPT                   | 26 23 00                 | Para 1.3.a: Reference spec section 26 08 00 could not be found.  | A             | Will be corrected   |            |
| SA-112    | SPT                   | 05 50 13                 | Para 1.2: Add shop drawing submittal for bicycle rack.   | A             | Will be corrected   |            |
| SA-113    | SPT                   | 02 41 00                 | Para 1.5: Add demolition plan to Preconstruction Submittals.   | A             | Will be corrected   |            |

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Site Layout, Grading and Utility Drawings  
Kabul, Afghanistan**

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| <b>URS COMMENTS <sup>(1)</sup></b> |                       |           |   | <b>TETRA TECH RESPONSE <sup>(2)</sup></b> |  | <b>URS</b> |
| S-1                                | MWZ                   | S-00      | Design Loads Notes: Verify which IBC is used; calculations and notes on drawings indicate IBC 2006 while Design Analysis Narrative states IBC 2009.   | A   | Updated DA to 2006   |            |
| S-2                                | MWZ                   | S-00      | Design Loads Notes: Verify selection of Occupancy Category. If Occupancy Category III, then verify Importance Factor values for snow, wind and seismic.   | A   | Updated Calculations   |            |
| S-3                                | MWZ                   | S-00      | Design Load Notes: Indicate specific information required by IBC Sections 1603.1.1 through 1603.1.9; in particular, wind design data, earthquake design data and special inspection requirements.                     | AE  | Updated design loads. Special inspections are not available. |            |
| S-4                                | MWZ                   | S-00      | Design Loads Note #2: Clarify if reference to floor live loads for private rooms and public rooms is applicable to this project.  | A   | Clarified  |            |
| S-5                                | MWZ                   | S-00      | Design Loads Note #3: Verify wind loads and basic wind speed since structural calculations appear to be based on a basic wind speed of 85 mph.  | A   | Updated Calculations   |            |
| S-6                                | MWZ                   | S-00      | Design Loads Note #4: Indicate basic seismic-force-resisting system.  | A   | Update Note  |            |
| S-7                                | MWZ                   | S-00      | Foundations Note #7 and #8: Coordinate terminology for vapor barrier or vapor retarder.   | A   | Updated to barrier   |            |
| S-8                                | MWZ                   | S-00      | Foundations Note #8: Indicate polyethylene sheet thickness in metric units. Verify thickness is sufficient.   | A   | Updated  |            |
| S-9                                | MWZ                   | S-00      | Foundation Note #10: Verify applicability of this note to this project.   | A   | Note Deleted   |            |
| S-10                               | MWZ                   | S-00      | Cast-in-Place Concrete Note #1: Verify which ACI 318 is used; notes on drawings indicate ACI 318-05 while Design Analysis Narrative and calculations state otherwise.   | A   | Updated to 08 on plans                                       |            |
| S-11                               | MWZ                   | S-00      | Cast-in-Place Concrete Note #2: Verify concrete strength (f'c); notes on drawings and in the Design Analysis Narrative indicate value that differs from value indicated in strip footing design calculations.         | A   | Updated Calculations   |            |
| S-12                               | MWZ                   | S-00      | Cast-in-Place Concrete Note #6: Verify steel grade of reinforcing bars; notes on drawings and in the Design Analysis Narrative indicate value that differs from value indicated in strip footing design calculations. | A   | Updated Calculations   |            |
| S-13                               | MWZ                   | S-00      | Cast-in-Place Concrete Note #7: Verify availability of weleded wire reinforcement.  | A   | Deleted Welded Wire  |            |
| S-14                               | MWZ                   | S-00A     | Structural Steel Note #3: Coordinate with detail 3/S-05 regarding permissibility of field welds.  | A   | Updated Notes.   |            |
| S-15                               | MWZ                   | S-00A     | Structural Steel Note #9: Verify availability and applicability of hot dip galvanizing for this project.  | A   | Hot Dip Galvanizing is available.                            |            |
| S-16                               | MWZ                   | S-00A     | Provide steel roof deck notes.  | A   | Notes Added to S-01.2  |            |
| S-17                               | MWZ                   | S-00A     | Masonry Note #1: Verify which ACI 530 is used; notes on drawings indicate ACI 530-05 while Design Analysis Narrative and calculations indicated ACI 530-08.   | A   | Updated to 08 on plans                                       |            |

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|-----------|-----------------------|-----------|--|---------------|---|------------|
| S-18      | MWZ                   | S-00A     | Masonry Note #11: Verify steel grade of reinforcing bars.  | A             | Verified as 414 MPa                                       |            |
| S-19      | MWZ                   | S-00A     | Masonry Note #13: Verify availability of truss or ladder type horizontal reinforcement for this project.   | A             | Ladder Type Not Available Updated Plans                   |            |
| S-20      | MWZ                   | S-01      | Verify section cut for detail 3/S-05; there are two detail 3/S-05.   | A             | Updated   |            |
| S-21      | MWZ                   | S-01      | Indicate location and width of concrete ramp.  | A             | Deleted Ramp  |            |
| S-22      | MWZ                   | S-02      | Indicate roof construction and direction of roof slope.  | A             | Added Slope Indication                                    |            |
| S-23      | MWZ                   | S-02      | How are W200x19 beams that are parallel to CMU walls attached to walls? Provide detail?  | A             | Notes Added to S-03                                       |            |
| S-24      | MWZ                   | S-03      | Section A/S-03: How is interior wall laterally braced for out-of-plane seismic forces?   | A             | By intersecting walls and Bond Beams, Calculations added. |            |
| S-25      | MWZ                   | S-03      | Section A/S-03: Consider graphically showing vertical reinforcement in CMU walls.  | D             | Reinforcement shown sufficiently in details               |            |
| S-26      | MWZ                   | S-03      | Section A/S-03: Coordinate where first course for interior CMU wall occurs; section A/S-03 shows concrete above thickened slab while section O/S-05 does not.  | A             | Updated   |            |
| S-27      | MWZ                   | S-03      | Section A/S-03: Verify load path for getting lateral forces from roof deck down into masonry walls.  | A             | Verified as 414 MPa                                       |            |
| S-28      | MWZ                   | S-04      | Section B/S-04: Is top of CMU elevation indicated correct? Does it not vary?   | A             | Updated   |            |
| S-29      | MWZ                   | S-04      | Lap and Embedment Schedule: Lap lengths appears too short; verify if in accordance with ACI 318 and ACI 530.   | A             | Rounded up to nearest 50 mm                               |            |
| S-30      | MWZ                   | S-04      | Masonry Wall Elevation: Consider cutting section at overhead door; refer to 12/A-09.   | D             | Sufficient detail is shown                                |            |
| S-31      | MWZ                   | S-04      | Indicate where Typical CMU Corner Detail is used and where Control Joint Detail at Wall Corner is used.  | A             | Deleted Control Joint at Wall Corner                      |            |
| S-32      | MWZ                   | S-04      | Where are wall layout plans showing control joint locations as noted in Control Joint Detail at Wall Corner?   | A             | Deleted Control Joint at Wall Corner                      |            |
| S-33      | MWZ                   | S-04      | Consider labeling all details and sections with number or letter for easier referencing.   | D             | Considered. Details sufficiently labeled.                 |            |
| S-34      | MWZ                   | S-05      | Consider labeling all details and sections with number or letter for easier referencing.   | D             | Considered. Details sufficiently labeled.                 |            |
| S-35      | MWZ                   | S-05      | Section 1/S-05: Consider detailing concrete bond beam at base of wall integral with concrete stem wall, thus single pour.  | D             | Separated to meet ACI 530 P1.17.4.3.1.                    |            |
| S-36      | MWZ                   | S-05      | Section 3/S-05: Indicate size, depth, thickness (gage) of roof deck. Also, indicate method for fastening roof deck to structural supports.   | A             | Added #10 Screws to S-06                                  |            |
| S-37      | MWZ                   | S-05      | Section 3/S-05: Have #10 screws been designed for diaphragm forces?  | A             | Yes   |            |
| S-38      | MWZ                   | S-05      | Section 3/S-05: Is field welding permissible on this project?  | A             | Only where shown. See updated notes                       |            |
| S-39      | MWZ                   | S-05      | Section 3/S-05: Was any consideration given to sloping top of concrete bond beam and using as seat for steel beams? Are anchor bolts adequate to resist seismic forces in bending if grout becomes dislodged? Has beam rollover been considered? | A             | Considered. Details is adequate.                          |            |

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|-----------|-----------------------|---------------------------|--|---------------|--|------------|
| S-40      | MWZ                   | S-05                      | Typical Raised Slab Equipment Pad Detail: Verify availability of epoxy dowels for this project.  | A             | Updated to have dowels set in concrete.  |            |
| S-41      | MWZ                   | S-05                      | Strip Footing Transverse Section: Verify need for bars at each face of concrete stem wall and 180 hooks at top.  | A             | Considered. Sufficient detail is shown   |            |
| S-42      | MWZ                   | S-05                      | Strip Footing Transverse Section: Verify size of transverse bottom bars in footing with size indicated in strip footing design calculations.                     | A             | Updated bars to #12  |            |
| S-43      | MWZ                   | S-05                      | Strip Footing Transverse Section: Verify bottom of footing elevation.  | A             | Elevations verified.   |            |
| S-44      | MWZ                   | A-01                      | Provide north arrow.   | A             | North arrow added to all architectural plans (sheets A-02, A-03, A-06)   |            |
| S-45      | MWZ                   | A-05                      | B/A-05: Verify section cut 4/A-08.   | D             | Detail 4 on sheet A-08 is an enlarged detail showing gutter connection to building. It is referenced on building elevation sheets A-04.1 and A-04.2. Gutter is located behind building section B cut location, you would not see this condition in building section B. |            |
| S-46      | MWZ                   | Design Analysis Narrative | III. Basis of Design: Verify selection of Occupancy Category. If Occupancy Category III, then verify Importance Factor values for snow, wind and seismic.        | A             | Updated Calculations   |            |
| S-47      | MWZ                   | Design Analysis Narrative | III. Basis of Design: Verify wind loads and basic wind speed since structural calculations appear to be based on a basic wind speed of 85 mph.                   | A             | Updated Calculations   |            |
| S-48      | MWZ                   | Design Analysis Narrative | IV. Material Properties: Verify concrete strength since calculations appear to be based on f'c = 3000 psi.   | A             | Updated Calculations   |            |
| S-49      | MWZ                   | Design Analysis Narrative | IV. Material Properties: Verify steel grade of reinforcing bars since calculations appear to be based on Grade 40 steel.   | A             | Updated Calculations   |            |
| S-50      | MWZ                   | Design Analysis Narrative | V. Code References: Verify which IBC is used; Design Analysis Narrative states IBC 2009 while calculations and notes on drawings indicate IBC 2006.              | A             | Updated plans to 2006  |            |
| S-51      | MWZ                   | Design Analysis Narrative | V. Code References: Verify which ACI is used; Design Analysis Narrative differs from calculations and notes on drawings.   | A             | Verified   |            |
| S-52      | MWZ                   | Calculations              | Horizontal Seismic Acceleration (page 2): Verify value of site coefficient, Fa.  | A             | Fa updated from 1.05 to 1.0  |            |
| S-53      | MWZ                   | Calculations              | Rafter Design (page 4): Verify wind loads and basic wind speed.  | A             | Updated Calculations   |            |
| S-54      | MWZ                   | Calculations              | Rafter Hold Down Bolts (page 9): Verify wind loads and basic wind speed.   | A             | Updated Calculations   |            |
| S-55      | MWZ                   | Calculations              | Pump House Shear Walls (page 18): Verify load path for getting lateral forces from roof deck down into CMU masonry walls. Have diaphragm forces been calculated? | A             | Wall designed for tributary lateral out of plane loads   |            |
| S-56      | MWZ                   | Calculations              | Pump House Shear Walls (page 24): Have CMU masonry walls been designed for out of plane forces?  | A             | Yes.   |            |

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| <b>URS COMMENTS <sup>(1)</sup></b> |                       |                   | <b>TETRA TECH RESPONSE <sup>(2)</sup></b>  |               |   | <b>URS</b> |
| M-1                                | MW                    | M-01              | Provide load calculation for selection of ventilation and heating equipment                                    |               | For Pump Room Vent. 20 AC/Hrx2120 SF= 700 CFM. 700CFM/800 FPM=0.875 SF free area louver x 50% FA=1.75 SF or 252 Square inch, say 20"x12" equals a 500 mm x 300 mm louver. 700 CFMx1.7 M3/hr = 1190 M3/hr exhaust fan.                 |            |
| M-2                                |                       |                   |  |               | For Pump House Heat: 265 SFx70 BTU/SF=18,500 BTU. 18,550 BTUx1kW/3413 BTU=5 kW.   |            |
| M-3                                |                       |                   |  |               | For Disinfect or Dry Stor Rm Vent.: 20 AC/Hr x 688 SF= 230 CFM. 230 CFM/800 FPM=0.288SF free area louver x 50% FA=0.575 SF or 83 Square inch, say 10"x10" equals a 250 mm x 250 mm louver. 230 CFMx1.7 M3/hr = 425 M3/hr exhaust fan. |            |
| M-4                                |                       |                   |  |               | For Disinfect and Dry Stor. Heat: 86 SFx70 BTU/SF=6,020 BTU. 6,020 BTUx1kW/3413 BTU=1.8kW.  |            |
| M-4                                | MW                    | M-01              | Consider motorized damper in Note 1 of Wall Exhaust Fan Schedule   | D             | Backdraft dampers selected to work on negative pressure only to prevent danger of freezing from malfunction of damper left in open position.  |            |
| M-4                                | MW                    | M-01              | Provide disconnect switch for each fan in Wall Exhaust Fan Schedule  | D             | Disconnect by Electric Contract; see Motor Connection Schedule on drawing E-001.  |            |
| M-4                                | MW                    | M-01              | Provide thermostat for EF 2 and 3 of Wall Exhaust Fan Schedule and indicate on plan                            | D             | EF-2 and EF-3 run continuously and are not thermostatically controlled; see Sequences of Operation on Wall Exhaust Fan Schedule.  |            |
| M-4                                | MW                    | M-01              | Consider motorized damper interlocked with exhaust fan in lieu of gravity dampers in Note 3 of louver schedule | D             | See response to comment M-2 above.  |            |
|                                    | MW                    | M-01              | Define setpoint in Note 3 of Unit Heater Schedule  | A             | The heat setpoint will be noted as 12 degC on the Unit Heater Schedule.   |            |
|                                    | MW                    | M-01              | Provide disconnect switch for each unit heater in Unit Heater Schedule   | D             | Unit disconnect is indicated in Note 4 of the Unit Heater Schedule.   |            |
|                                    | MW                    | M-01              | Confirm unit heater not required for dry storage area  | D             | According to scoping documents, there is no plumbing or cold-sensitive equipment in the Dry Storage Area.   |            |
| <b>Abbreviations:</b>              |                       |                   |  |               |   |            |
|                                    | AC                    | Air Change        |  |               |   |            |
|                                    | SF                    | Square Feet       |  |               |   |            |
|                                    | FA                    | Free Area         |  |               |   |            |
|                                    | CFM                   | Cubic Ft per Min. |  |               |   |            |
|                                    | FPM                   | Feet per Min.     |  |               |   |            |
|                                    | SI                    | Square Inch       |  |               |   |            |
|                                    | kW                    | Kilowatt          |  |               |   |            |

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| <b>URS COMMENTS <sup>(1)</sup></b> |                       |             |   | <b>TETRA TECH RESPONSE <sup>(2)</sup></b> |   | <b>URS</b> |
| E-1                                | DMR                   | LT0005 E-01 | Show power connection to 20 hp booster pump   | A   | Connection circuit to PH-01 shown on the floor plan detail 1 drawing E-10.1 will be corrected to show the correct circuit of PH1-25, 27, 29.                        |            |
| E-2                                | DMR                   | LT0005 E-01 | Provide note to clarify that battery pack unit shall be connected tap ahead of the light control switch   | A   | We concur with this comment.  |            |
| E-3                                | DMR                   | LT0005 E-01 | Provide lightning protection  | O   | Lightning protection is not a code requirement and is currently not in our scope of services.   |            |
| E-4                                | DMR                   | LT0005 E-01 | Provide abbreviation. Define all acronym and abbreviation used  | A   | TAE will review the current Abbreviations list on E-01 and reference sheet E-01 or provide additional abbreviations   |            |
| E-5                                | DMR                   | LT0005 E-01 | Fill out EF-2 and EF-3 starter type column on motor connection schedule   | A   | We concur with this comment.  |            |
| E-6                                | DMR                   | LT0005 E-01 | Provide power to the other greywater tank location  | O   | GW-02 is served from the secondary bus (See Dwg E-05). Panel PH1-1 in the pump house only provides power to GW-01.  |            |
| E-7                                | DMR                   | LT0005 E-02 | Connect ground to main water pipe   | A   | We concur with this comment.  |            |
| E-8                                | DMR                   | LT0005 E-02 | Coordinate length of ground rod between ground system and building grounding electrode connection details. Both ground rod should be 3000 mm long | A   | We concur with this comment.  |            |
| E-9                                | DMR                   | E-01        | Correct the spelling of busbar in TMGB abbreviation   | A   | The abbreviation is not used in this project so it will be removed from the list.   |            |
| E-10                               | DMR                   | E-02        | Reference enlarge drawing E-03  | A   | Plan notes to reference both sheets E-03.1 and E-03.2 have been added.  |            |
| E-11                               | DMR                   | E-02        | Clarify note "SIZE LOADS UNDER OTHER SECTION (TYP)"   | A   | The plan note has been removed and a symbol for a hexagon with a horizontal division has been added to E-01 describing it as a "Load Defined under other Sections". |            |
| E-12                               | DMR                   | E-02        | Reference panelboard schedule in drawing LT0005 E-01 for power connection to greywater pump, sanitary pump, well pump                             | D   | The panelboard section is already part of the drawing set and no additional reference to it is required.  |            |
| E-13                               | DMR                   | E-02        | Provide power connection to sump pump in greywater tank   | D   | Load GW-01 is shown served by service lateral GW01. No dwg adjustment is needed.  |            |
| E-14                               | DMR                   | E-02        | Define hexagon with symbol with GW/01, W/01, PS/01, PP/01 and GW/02   | A   | A symbol for a hexagon with a horizontal division has been added to E-01 describing it as a "Load Defined under other Sections".                                    |            |
| E-15                               | DMR                   | E-02        | Show location of Waste water Treatment Plant (WWTP), Sanitary Pimp Station and Well Pump  | D   | Loads W-01, PS-01 and PP-01 are already shown on dwg E-03.2   |            |
| E-16                               | DMR                   | E-02        | Provide power to the well pump  | D   | Load W-01 is already shown served by service lateral W01 on dwg E-03.2  |            |

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| E-17      | DMR                   | E-02      | Coordinate background with civil drawing   | AE            | I'm sure that an outdated version of the dwg was being looked at to generate this comment. The latest dwg should be correct.   |            |
| E-18      | DMR                   | E-02      | Define 1x2, 2x2 and 2x3  | D             | Ductbanks are called out by the number and configuration of ducts in them. In our opinion this does not require further explanation.   |            |
| E-19      | DMR                   | E-02      | Cut section to underground ductbank route and provide detail for each configuration  | O             | This level of detailing would be out of scope. The duct bank detail is applicable to all duct bank on this project.  |            |
| E-20      | DMR                   | E-03      | Delete tree from the background. No value to the design  | A             | It will be noted that the trees are to be demolished.  |            |
| E-21      | DMR                   | E-03      | Delete note "RIP OUT EXISTING ABANDONED CONCRETE FOUNDATION". Not an electrical item   | A             | The note has been changed with a reference to the demolition plan.   |            |
| E-22      | DMR                   | E-03      | Indicate if the 15kV or 20kV new line from BADS is by others, otherwise provide cable and/or conduit size including section detail of conduits   | AE            | DABS. Da Afghanistan Breshna Sherkot. The division of responsibility between the scope of work under these documents and DABS has still not been fully resolved. When there is resolution an ammendment will be issued to more fully describe the work and coordination. |            |
| E-23      | DMR                   | E-03      | Provide more information on rectangular box labeled 400V and 20kV. Is it a switchboard with weatherproof enclosure?  | AE            | These items are more fully described on E-06. No drawing revision is needed.   |            |
| E-24      | DMR                   | E-03      | Provide note and reference other drawing for details   | A             | Additional notes have been added.  |            |
| E-25      | DMR                   | E-03      | Show all dimensions on the enlarge drawing   | D             | The reviewer may be looking at an older drawing version. Current drawing has dimensions.   |            |
| E-26      | DMR                   | E-04      | Transfer all raceway and underground feeder information to drawing E-03. Show grounding information only   | D             | The site plan (E-03.1) and the electrical grounding plan (E-04) show surface features and underground work respectively. Combining the two would be counterproductive.   |            |
| E-27      | DMR                   | E-04      | Indicate size of ground rod.   | A             | A plan note, "Ground Rod, Copper-clad steel, 19-mm dia, 3000-mm long (typ)" has been added.  |            |
| E-28      | DMR                   | E-04      | Delete tree from the background. No value to the design  | A             | The trees that have been identified for demolition on E-03.1 have been deleted from E-04.  |            |
| E-29      | DMR                   | E-04      | Do not show fuel fill line on electrical drawing. It's not an electrical item.   | AE            | The reviewer may be looking at an older drawing version. Current drawing does not show fuel lines.   |            |
| E-30      | DMR                   | E-04      | Provide a mechanical drawing to show fuel oil piping details, sizes and requirements for connection for fuel oil supply / fuel oil return between fuel oil tank, day tank and generators | A             | Fuel oil piping details will be provided.  |            |

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- (2) Tetra Tech responses are based on the Bid Documents Submittal dated September 9, 2010.

**Tetra Tech Responses to URS Comments  
Ghazi Boys High School  
Site Layout, Grading and Utility Drawings  
Kabul, Afghanistan**

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

| Comment # | Reviewer & Discipline | Reference | Comment  | Response Code | Response  | Back-Check |
|-----------|-----------------------|-----------|--|---------------|---|------------|
| E-31      | DMR                   | E-05      | Provide fuse size at revenue meter location. If fuse size is by others, indicate so  | A             | A note has been added, "Coordinate required fuse size with DABS. For 15-kV primary approx. fuse size is 20-A. For 20-kV primary approx. fuse size is 15-A.  |            |
| E-32      | DMR                   | E-05      | Double check service disconnect and generator circuit breaker size. It seem undersized   | D             | 400-kVA at 400-V, 3-phase is 578-A. A 630-A transformer secondary protection circuit breaker is acceptable. 200-kVA at 400-V, 3-phase is 289-A. A 300-A generator protection circuit breaker is acceptable.   |            |
| E-33      | DMR                   | E-05      | Double check service cable size for Block 1 and 2. It seem undersized considering the distance from the switchboard location. Provide voltage drop calculation   | A             | Using Beeman's famous formula and getting the best values obtainable for mm <sup>2</sup> CU conductors in non-ferrous pipe a 145-A load on 120-mm <sup>2</sup> has a 2% drop at 145-m. The service lateral length to Block 2 is 140-m so the voltage there should be 400-8=392-V. The lateral length to Block 1 is 305-m so the voltage would be 400-16=384-V. Both are acceptable. |            |
| E-34      | DMR                   | E-05      | Provide calculation in to show how the transformer and generator size was derive   | A             | The load study was derived at a 1/14/2010 meeting working with International Relief and Development (IRD) electrical engineers. A memorandum documenting this meeting was provided to Daryl Artz, URS, 7/31/2010.   |            |
| E-35      | DMR                   | C-07.2    | Coordinate reference drawing with electrical. There is no drawing E-10   | A             | Corrected reference.  |            |
| E-36      | DMR                   |           | Coordinate reference drawing with electrical. Pump control service and electrical service is not shown on E-03 drawing   | D             | It's not clear what drawing the reviewer is referring to. It could be that the reviewer is looking at an older version of the drawings.   |            |
| E-37      | DMR                   | C-16      | Coordinate reference drawing with electrical. Power connection information on Top Slab Plan is not shown on E-03 drawing   | A             | Corrected reference.  |            |
| E-38      | DMR                   | General   | Coordinate electrical drawing with civil. Name convention of in electrical drawing does not match the civil drawing. Its hard to coordinate the load in the civil drawing because it called differently in the electrical drawing. For example GW/02. There is no GW/02 in civil. Somebody need to guess if refer to greywater and this true for GW/01, PS/01, W/01, PP/01, etc... | D             | It appears that an outdated version of the dwg was being looked at to generate this comment. The latest civil drawing showing the greywater tanks (C-14) shows electrical service to this structure and refers to the panel as GW-01 or GW-02.  |            |

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|-----------|-----------------------|-----------|---|---------------|---|------------|
| E-40      | DMR                   | General   | Double check the electrical calculations provided. It seem that the calculation is not for this project | D             | The calculation we provided was the load study derived at a 1/14/2010 meeting (see response to comment E-34). The load study provided is clearly for the Ghazi project, so it appears that the reviewer is referring to some other calculation. |            |

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