

F5-2681-02-RFP02-1045; Amend **04, Attachment X**  
Central Lab & Office Building General Construction

The following questions, with answers, are hereby incorporated into subject solicitation.

**Question 1:** Unable to locate drawing E8.30.46.A1. Should this drawing be added?

Answer 1: After thorough review it has been determined that drawing E8.30.46.A1 should not be part of this project. Reference Section G, Drawing List and delete E8.30.46.A1 drawing.

**Question 2:** Can the resource loaded schedule and the construction progress schedule (to be submitted with the bid) be submitted on "Suretrack" as a concentric schedule?

Answer 2: Our position is that the initial proposal submittal can be submitted on "Suretrack" as a concentric schedule, however, this will not relieve them of the post-award requirement of schedule submittals in Primavera 3.0 or higher. There are some limitations for files brought over from Suretrak to P3. The CPM schedule during execution of the job will need to be P3 Ver. 3.0 or 3.1. (This reply provided by Steven Tourville (K/J Scheduler).

**Question 3:** Will AutoCAD versions of the drawings be provided to the successful Subcontractor? If yes, is there an additional cost? If yes, will they be provided at the time of Award?

Answer 3: The AE/CM will provide "Native" files, i.e., AutoCAD or micro-station (for civil) of model plans and overall building sections. Sections, details, schedules, and notes will not be included.

**Question 4:** Reference drawing H2.01.63, R0 At Col 11-12 and J & G, VAV Boxes CL-140 and CL-141 show duct drops for lab hoods. Is there a detail available that shows the typical connection location and configuration?

Answer 4: No, specific details are not in package. See H8.10.45 for more information and the associated architectural sheets for locations.

**Question 5:** Reference drawing H2.01.63, R0. This drawing shows work continuing East from Col. 13 (Area 66). No detail drawings are provided for this area. Was Area 66 deleted from the building design?

Answer 5: Yes, area 66 was deleted. The inclusion for sector 66 is a mistake. Ignore that sector and bid on the rest of H2.01.63.

**Question 6:** Reference drawing H2.03.63, R1. On the Mechanical Room plan level, along Col. E, there are several ducts from the smoke exhaust plenum to the building louvers with unidentified devices located in those ducts. Should these be motorized control dampers or are gravity back draft dampers acceptable?

Answer 6: Smoke exhaust fans SEF-CL-1 thru CL-4 have a back draft damper associated with them per sheet H9.10.40.

**Question 7:** Reference drawing H2.B1.63, R1. Several Fan-Coil Units are shown on this drawing without an associated designation for either the supply or return air distribution devices served by the FCU's. Please provide the required device designations.

Answer 7: Fan coil units FCU-CL-002 thru CL-009, on sheet H2.B1.63, do not have the associated designators for supply or return, see sheet H9.10.44 for CFM. The supply diffusers (quantity 6) should be of type Titus PDS with a 10" diameter neck. The return diffusers (quantity 8) should be of type Titus PDR with a 10" diameter neck. FCU-CL-002 thru CL-008 is concealed with diffusers tying into the ceiling system. FCU-CL-009 is to be a cabinet type, in an exposed ceiling elevator mechanical room. This fan coil needs to have a front supply grille and a stamped back return louver. A design change notification will be issued for this area.

**Question 8:** Reference Amendment 02: As part of this amendment, the CM now furnishes the Air Handling Units. Does this also mean that the CM will provide the Fan-Coil Units? In either case, please provide the contact source where units will be procured from so that a quotation may be solicited for the additional items specified as that brand. This will ensure that the supplier is aware of all the project specific requirements.

Answer 8: Reference Amendment 03, page 3, paragraph d: The Air Handling Units and Fans that are being provided as Construction Management-Furnished Equipment (CM-FE) is listed by tag number. Wade & Associates (POC: Harry Wade, 865/588-5577) is providing the AHU.

**Question 9:** Reference drawing H0.00.03, R0. This drawing describes the required piping materials. Several specifications allow the use of Vic-Press as an acceptable piping system. Do the requirements of the drawing preclude the use of Vic-Press, where allowed by the specifications?

Answer 9: Section 15106 of the Title II-CFC specifications calls for flanged, threaded or mechanically coupled fittings. No press fit system is specified, but we are aware that this system is being used in other projects on this project. The press fit system can be used for piping systems similar to other buildings (e.g. compressed air, chilled water and heating, etc.).

**Question 10:** Request that the "completed Pricing Schedule & Pricing Support", Volume II, and Volume III of the bid submittal be turned in twenty-four (24) hours after the bid due date.

Answer 10: Offeror's shall submit **completed Section C; Pricing Schedule** with their initial proposal (closing April 4, 2002). The Construction Cost Estimate Breakdown (see Attachment A and B herein) shall be submitted not later than April 8, 2002; noon.

**Question 11:** While reviewing the panel board schedules I have noticed that most of the 120/208V panel boards have an A.I.C. rating of 10k and some of the 277/480V panel boards are rated at 22k. It was our understanding and was noted on the submittal register for the FELK Project that all 120/208V panel boards were to be rated 22k and that all 277/480V panel boards were to be rated 42k. Please verify required A.I.C.

Answer 11: All 120/208vac panel boards are to be 22kAIC rated. All 277/480vac panel boards are to be 42kAIC rated.

**Question 12:** Building elevations label several column covers as "metal", most detail sheets call all these column covers "GFRC". Please clarify that all exterior column covers are GFRC, if any are metal please specify which ones.

Answer 12: All exterior column covers are to be Glass Fiber Reinforced Concrete (GFRC).

**Question 13:** Please provide existing topographical drawing (if different from existing grades shown on drawing C3.27.01).

Answer 13: Reference Amendment 03, issued Feb 26, 02, for elevation sketch C-SK-067.

**Question 14:** Please confirm that footings can utilize earth forms (need to know this before bid—not after).

Answer 14: Earth forms may **not** be utilized.

**Question 15**: Please provide corrected kitchen/servery interior elevation marks—most do not match reference elevation.

Answer 15: On Drawing A5.50.40, Detail 3 will be revised to 2, Detail 4 will be revised to 3. On A5.50.41, upper Detail 5 will be revised to 2, Detail 2 will be revised to 3, Detail 6 will be revised to 4, and the upper Detail 7 will be revised to 5. These changes of designation will match the existing designations on the plan (1/A50.50.40). In addition, lower Detail 5 will be revised to 6 (matches plan A2.02.63.A1).

**Question 16**: Does Qualico furnish the Pedestrian walkway steel, anchor bolts, etc.?

Answer 16: If the optional line item (CLIN 0002; Bridge from CLO to Target Building) is awarded, then Qualico is responsible for providing the structural steel.

**Question 17**: Reference Section E, paragraph 1.8B; Specific Milestone dates. Would it be possible to notify the bidders within a reasonable time after the oral presentations as to who is the selected contractor in order that the unsuccessful bidders could release its personnel designated for this project to be assigned to other projects?

Answer 17: Formal notice of award will be issued as soon as possible.

**Question 18**: Section C, Pricing Schedule. It will be impossible to provide accurate information for all 16 pages of the pricing schedule at the 4:00 p.m. bid time. We would suggest that you receive pages 1 and 2 and pages 15 and 16 of the pricing schedule at the bid due date. We would request 24 hours to give you the additional pages of the pricing schedule. By doing this, you have the base and alternate prices locked in at the specified bid date and then you will have accurate backup data once the other pricing sheets are submitted.

Answer 18: See reply given to question 10 above.

**Question 19**: Section C, Pricing Schedule; Reference Special Note 4 on page 15 of 16. We have not received the cost estimate breakdown forms requested by this note. If these breakdowns are as extensive as requested on other bid

packages, and if the breakdowns are required for each CLIN, then it may take several days after the bid closing date to accurately obtain this information.

Answer 19: The referenced cost estimate breakdown forms are provided herein (See Attachment A of this amendment).

**Question 20:** Reference is made to Volume 2, Technical Requirements, of the proposal submittal. In Part I, Project Execution Plan, please identify the difference between "Preliminary Resource Loaded Schedule in Primavera (P3) software" and "Proposed Construction Progress Schedule."

Answer 20: Reference Section B; Proposal Instructions and Conditions, paragraph 6b: The requirement for "Proposed Construction Progress Schedule" has been deleted. All that is now required is a "Proposed Resource Loaded Schedule...).

**Question 21:** There are several portions of Volume 2 and Volume 3 of the proposal requirements that need to be accurately completed after all subcontract and material prices have been received. This would include the Resource Loaded Schedule, the Small Business Subcontracting Plan and Small Business Participation. Would it be possible to submit these requirements 48 hours after the bid closing date?

Answer 21: All information requested for Volume I; Subcontract Requirements, Volume II; Technical Requirements and Volume III; Management Requirements shall be submitted along with the initial proposal (closing April 4, 2002) except as noted below. The information listed below is due not later than noon; April 8, 2002.

Volume I: Small Business Subcontracting Plan. See reply give to question 10 above.

Volume II, Part III: Major Subcontractors/Suppliers Experience Statement AND Subcontractors/Suppliers List.

Volume III: Small Business Participation.

**Question 22:** Section 14420 vertical platform lift specifies 171" vertical travel distance---is this correct? (Appears should be 24" per drawings).

Answer 22: 24" is the correct vertical travel.

**Question 23:** Topographical drawing C.SK.067 issued with Amendment 03 is too small to read. If the grades are the same as on drawing C3.27.01, this is OK. Please provide a full size drawing if they are different.

Answer 23: See <http://www.sns.gov/constr/convfac/solicitations/solicitations.htm>, Amendment 03 for drawing C.SK.067 in .pdf format.

**Question 24:** On roof plans, note 2 x 2 Heavy Weight Faced Insulation appears in conjunction with the designation for 2 rows of 2x2 pre-cast pavers. Does this simply mean to place this type insulation under the 48" wide strips of pre-cast pavers?

Answer 24: 2'x 2' pre-cast concrete pavers are not utilized on this project. 2'x 2' Heavy Weight Faced Insulation is to be used in heavier traffic roof areas as indicated on the plans. It is also to be utilized throughout the 5<sup>th</sup> floor terrace area.

**Question 25:** Please provide entity responsible for furnishing steel entry canopy (A3.40.45). It is not on the SOW, Attachment Div. 5 Supply Delineation.

Answer 25: The general contractor (e.g., awardee) is responsible for furnishing the steel entry canopy.

**Question 26:** The waste compactor specified in Section 11172 appears incorrect (assuming this is the one that goes at the dock in the pit); please confirm that it is the right one, or specify another.

Answer 26: The size specified is correct.

**Question 27:** Dock levelers specified couldn't interface with the truck restraints if they are "mechanical" type as called for. Please clarify.

Answer 27: The manufacturers contacted have confirmed that powered levelers are NOT required for interface with truck restraints. Levelers with mechanical operating systems should be provided as specified.

**Question 28:** Please provide schedule-detailing location of window blinds (Section 12511). Where do they are to go? Just in offices, or at all windows, curtain wall, etc. The same applies for roller shades (Section 12494); which alternate do they affect?

Answer 28: Roller Shades are an alternate to Horizontal Blinds. Blinds or shades are located at all exterior Offices, the Cafeteria, the Locker Rooms, the Gallery (B1-1-1), all exterior Conference Rooms, exterior Labs, the Central Control Room (1-4-122), all exterior open Offices, Control Room Observation (2-4-136), Library (4-2-111), and Reception (5-1-2).

**Question 29**: Reference drawing A2.B1.65 - Is the at-grade sidewalk beneath the pedestrian bridge to be part of the alternate bid OR part of the base bid?

Answer 29: Sidewalk is to be installed to the project limits indicated (curb of ellipse road) as part of the Base Bid.

**Question 30**: A2.01.61.A1 – Please advise required number of auditorium seats. Plan indicates “226 + 4”. (Actual count of drawn spaces is 222 in solid outline and 10 in dashed outline.)

Answer 30: 222 seats plus 10 removable seats (for the handicapped) is the correct count.

**Question 31**: A2.02.61.A1 – Please advise required number of auditorium seats. Plan indicates “115”. (Actual count of drawn spaces is 114.)

Answer 31: 114 seats.

**Question 32**: A2.02.63.A1 – Please advise elevation of dry lab casework.

Answer 32: The elevation is on Drawing A5.50.41. It is incorrectly numbered as elevation 5 (lower).

**Question 33**: A3.30.48 – Please advise if this area is part of this building and where it can be found.

Answer 33: This drawing has been eliminated.

**Question 34**: A4.10.40 - Detail 2 indicates metal wall panels at the auditorium entrance where precast wall panels are indicated on other plans. Please clarify on this issue and also provide detail at intersection of precast wall panels at exterior wall (curtain wall/metal panel/precast intersection).

Answer 34: Insulated metal panels have replaced all precast concrete panels.

**Question 35:** A4.10.42 – There is some confusion in the elevations/sections as to which walls are to be precast vs. site cast. Please advise.

Answer 35: All precast concrete walls have been eliminated and replaced with either metal panels or site cast concrete.

**Question 36:** A5.30.40 – Section 13 indicates a “site cast coping” at Stair E. Is this to be in addition to the 8” slab shown on the structural drawings in Section 2/S4.20.44, or should the 2’-4” dimension in the structural section (to top of slab) be revised to 3’-1” above the landing elevation?

Answer 36: The top of the coping should be 3'-1" above the landing elevation as shown on Drawing A5.30.40.

**Question 37:** A5.50.41 – Please advise which labs are to follow elevation 7 (accessible).

Answer 37: Provide two accessible labs on Level 2 (Sector 63) and two accessible labs on Level 3 (Sector 63).

**Question 38:** A7.20.40 – Partition schedule indicates that sound batt insulation is to be included at metal stud partitions where an “S” has been added to the wall type designation. Have not found any walls designated with an “S” suffix. Is this correct?

Answer 38: Yes.

**Question 39:** Please advise on scope (base bid vs. alternate) at exterior walls of rooms that are alternates. Is the base bid to include the metal stud, insulation and drywall on the interior of the exterior wall system or is part of this work to base bid and part to be included in the alternate?

Answer 39: This work is to be included in the base bid.

**Question 40:** Please advise on scope (base bid vs. alternate) at interior/corridor walls of rooms that are alternates. Is the base bid to include the drywall on the room side of the partition? (What if the wall is rated...base bid would not include a rated wall if the room side drywall were left out)

Answer 40: The base bid will include all required construction to achieve rated walls. If not rated, the room side will not include the drywall finish.

**Question 41:** S2.B1.63 – Please advise elevation of footing at Column M-5. Is this to be at 76-1 or 79-1? (See also S2.B1.64 & 65 -- There is a stepped footing indicated between Columns M-4 and M-5, but not on opposing sides of M-5 toward M-6 and L-5.)

Answer 41: 76-1 is correct. Delete footing steps indicated between column lines 4 & 4.9. Add 1 additional footing step between column lines 1 & 2.

**Question 42:** Section B - Given the size of this project, the number of subcontractors and suppliers involved, and the extent of technical and pricing support information to be provided, can the technical submission and pricing support be provided at a time later than the proposal submission due date?

Answer 42: See reply given to questions 10 and 21 above.

**Question 43:** Section C – Pricing Schedule: Bid form includes line items for the alternates and a brief one-line description. Can you provide a matrix to match the descriptions on the drawings (alternates 1a, 1b, 1c, 1d, 1e and 2) to the bid form line items? Please also provide a narrative to help in determining the limits of the alternates (e.g.: for a corridor wall that is part of the base bid and adjacent to a room that is an alternate -- is the drywall on the room side of the corridor wall studs to be in the base bid or in the alternate? i.e. the wall would not have the required rating in the base bid if the drywall is not installed on the room side)

Answer 43:

<b>Price Schedule Option</b>	<b>Description</b>	<b>Dwg #</b>	<b>Alternate</b>
CLIN 0002	Bridge from CLO to Target Building	A2.02.65 A2.03.65	2 2
CLIN 0003	Complete 2 <sup>nd</sup> Floor Lab	A2.02.63.A1	1D
CLIN 0004	Complete Cafeteria and B1 level	A2.B1.61.A1 A2.B1.62.A1	1C 1C
CLIN 0005	Complete 5 <sup>th</sup> Floor Conference Room	A2.05.61	B1
CLIN 0006	Complete Auditorium	A2.01.61.A1 A2.02.61.A1 A2.03.61.A1	1E 1E 1E
CLIN 0007	Complete 3 <sup>rd</sup> Floor Labs and Offices	A2.03.63.A1	1A

These drawings designated with .A1 shows the “Option Bid” interior construction requirements. See notes on drawings for areas to be completed. Drawings numbered the same without the .A1 show “hatched area” or spaces to be shelled

out and interior wall construction requirements for base bid (e.g., A2.01.61.A1 & A2.06.61). Rated assemblies must be completed for occupancy. Reference building & egress plans (A1.01.40 – A1.05.40.A1).

**Question 44:** Section C – Special Notes #4: Please provide a listing of the categories/systems that the cost breakdown is to follow (similar to Target solicitation).

Answer 44: Incorporated herein (see Attachment A & B).

**Question 45:** Section 02528 – Indicates that sidewalk/pavement concrete mix design is to match sample panels. Please advise if this would involve any materials other than those included with the directed procurement mix design.

Answer 45: The drawings indicate various finishes for the paving around the CLO. The mix will have a specific aggregate size and color because of the fact that there will be sandblasted finishes, which will expose the aggregate. Cement color will also be established. The structural capabilities of the mix are specified in the structural concrete specification.

**Question 46:** Section 03312 – Please advise any special mix design requirements, which will need to be accounted for in addition to the directed procurement, mix designs.

Answer 46: Mix design will adhere to the parameters per paragraph 2.6 of Specification 03312. It will be available from the direct procurement supplier.

**Question 47:** Section 03331 – Indicates to match CM's design reference sample. Please advise a) if this sample is available for review, and b) if the directed procurement supplier for concrete will have a mix design and unit price for this work.

Answer 47: Currently a sample is not available for review. Mix design will adhere to Paragraph 2.6 of Specification 03331. Aggregate will be local to the area.

**Question 48:** Please advise specification for architectural precast concrete panels.

Answer 48: Architectural precast concrete panels have been eliminated from the project and replaced with either insulated metal panels or cast-in-place concrete.

The specification for precast treads and landings for Stair No. 6 and Stair No. 7 and concrete counters are in Specifications Section 03450.

**Question 49:** Please advise specification for precast concrete counters and stone countertops.

Answer 49: For precast concrete counters, see Specification Section 03450. There are no stone counter tops. Counter tops are plastic laminate (see Specification Section 06402).

**Question 50:** Section 03450 – Indicates that Owner will employ testing agency to perform field welding inspection. Please confirm if this is correct.

Answer 50: Reference Section G; Specification 03450; Plant-precast Architectural Concrete: Delete paragraph 3.3A and replace with “The General Contractor shall employ an Independent Testing Laboratory to perform all required welding inspections”

**Question 51:** Section 14210 Electric Traction Elevators, Paragraphs 1.7.B & C: Will the bid form be modified to include spaces for inserting the maintenance agreement costs or are we to provide this as part of the pricing support? (Similarly Section 14240, Paragraphs 1.9.A & B)

Answer 51: The bid form will **NOT** be modified to include extended (e.g., preventive) maintenance agreement costs. The bid should include costs for the 12-months commencing on date of final acceptance of all elevators by the CM.

**Question 52:** Section 11400 - Please advise on the following “substitutions/equals”:

a. Can all stainless items be considered “Custom Fab”?

Answer: Kitchen contractor must provide name of proposed fabricator for approval prior to being approved.

b. Item 025 and 060: Garland or South Bend

Answer: Garland is acceptable.

c. Item 001, 002, 009a, 028, 030, etc., Metro

Answer: Metro is acceptable.

d. Item 004: WA Brown or Thermokool

Answer: WA Brown is acceptable.

e. Item 013: Robot Coupe

Answer: Robot Coupe is acceptable.

f. Item 014: Berkel

Answer: Berkel is acceptable.

g. Item 015: Varimixer

Answer: Varimixer is acceptable.

h. Item 021, 022: Groen or Legion

Answer: Groen is acceptable.

i. Item "All hoods": Captive Aire

Answer: Provide Halton Hoods per original specifications.

j. Item 062: Pitco

Answer: Pitco is acceptable.

k. Item 026: Blodgett or Cleveland

Answer: Provide Rational Combi per original specifications.

**SPECIAL NOTE:** Kitchen contractor must coordinate any and all dimensional changes as a result of site and alternate equipment.

Answer 52: See above replies.

**Question 53:** Section 11610 - Paragraph 2.3 specifies Bypass Fume Hoods, paragraph 2.3.d indicates, "Hoods with auxiliary-air system" and paragraph 2.4 specifies Restricted Bypass Fume Hoods with VAV Control. HVAC drawings indicate non-bypass fume hoods. Please confirm which hood is to be furnished.

Answer 53: In response to Specification questions #12 and #13, the hoods must be of the non-bypass type. The hoods must not have any kind of by-pass or auxiliary air connection. The variable air volume (VAV) exhaust and supply system will be useless if it is by-passed. The fume hood should be provided under Division 11 (11610). The fume hood is to be provided without sash or VAV sensors. All sensors and controllers are to be provided under division 15 (15960).

**Question 54:** Section 11610 - VAV control sensors and output transmitter. Is this not also specified under 15960? Who is to furnish?

Answer 54: See reply to question 53 above.

**Question 55:** Section 12494 - Title of specification indicates, "alternate". Are these to be included in the base bid?

Answer 55: Yes. The roller shades are an alternate to the horizontal louver blinds.

**Question 56:** Section 12511 – Please advise where these are shown/indicated to be provided.

Answer 56: See reply to question 55 above.

**Question 57:** In order to avoid substantial additional costs (overtime, double shifts, etc), we are requesting that SNS consider a 60 day extension to the CLO dry-in date of 6/2/03 (requesting 8/2/03) in paragraph 1.8.B of the "Summary of Work".

Answer 57: REFERENCE QUESTION #114 BELOW. THIS QUESTION HAS BEEN SUPERSEDED.

**Question 58:** Shouldn't Section 03450 Plant-precaster Architectural Concrete list "wall panels at Lobby 1-1-15 west wall" under paragraph 1.1-A?

Answer 58: The Architectural finish on the west wall of Lobby 1-1-5 is insulated panel Type 1B.

**Question 59:** Where are 2 x 2 precast roof pavers specified?

Answer 59: 2'x 2' precast roof pavers are not utilized on this project.

**Question 60:** Reference drawing E4.B2.62:

- a. At Column C-14.7, please advise information regarding motor shown and circuitry to provide.
- b. At Column B-14.7, please advise information regarding motor shown and circuitry to provide.
- c. At Column B-14.7, please advise circuitry for EF-CL-4.

Answer 60a: PM Neutralization Pumps LWP-CL-001A and 001B. Fed from B1MCCA, see E2.10.44.

Answer 60b: Sump Pump SP-CL-001A and 1B. Fed from B1MCCA, see E2.10.44.

Answer 60c: Fed from B1MCCA, see E2.10.44.

**Question 61**: Reference drawing E4.B1.63:

- a. At Column M-7, please advise information regarding two motors shown near the Water Service Room.
- b. At Column M-5, please advise circuiting information for EF-CL-8. Key Notes N006 & N017 refer to Panel B1R4A. Please provide panel schedule, feeder and location for this panel.

Answer 61a: DI Water Circulation Pumps P-CL-001 and 002 fed from B1MCCA, see E2.10.44.

Answer 61b: EF-CL-8 fed from 3MCCA, see E2.10.40.

**Question 62**: Reference drawing E4.01.61:

- a. At Column D.4-4.1, please advise circuitry for CH-CL-101.
- b. At Column C-9, please advise circuitry for VAV-CL-100.

Answer 62a: Provide (1) 20A, 120vac branch circuit from panel 1R2B-20.

Answer 62b: This is a non-electric mechanical device.

**Question 63**: Reference drawing E4.01.61.A1:

- a. At Electrical Room 1-1-6, please provide panel schedule for Panel 1R2B.
- b. Key Note N004: Please advise location of this disconnect.
- c. Key Note N005: Please advise location of this disconnect.

Answer 63a: For Panel 1R2B, provide (1) 100MCB, 30pole, NEMA 1, surface mounted, 22kAIC rated panel with (15) 1pole, 20A circuit breakers. Circuit devices shown as noted in E4.01.61.A1.

Answer 63b: See E8.10.41, see E8.10.41.

Answer 63c: See E8.10.41, see E8.10.41.

**Question 64:** Reference drawing E4.01.62:

- a. At Column C-14, please advise circuitry for VAV-CL-103.
- b. At Column B-15, please advise circuitry for VAV-CL-102.
- c. Reserved. See Amendment 05.

Answer 64a: Panel 1R7A does not exist, delete from E8.10.41.

Answer 64b: These are non-electric mechanical devices.

Answer 64c: Reserved. See Amendment 05.

**Question 65:** Reference drawing E4.01.63:

- a. In Electrical Room 1-3-75, Panel 1R7A is shown (in enlarged plan), but is not found on the riser diagram or panel schedule. Please advise.
- b. Please advise circuitry for VAV boxes this sheet.

Answer 65a: Panel 1R7A does not exist, delete from E8.10.41.

Answer 65b: These are non-electric mechanical devices.

**Question 66:** Reference drawing E4.01.64, please advise circuitry for CH-CL-103.

Answer 66: Provide (1) 20A, 120vac circuit from panel 1R1A-6.

**Question 67:** Reference drawing E4.02.61, please advise any circuitry requirements for ST-CL-5A, 5B, 26A, 26B and 26C.

Answer 67: These are non-electric mechanical devices.

**Question 68:** Reference drawing E4.02.62, please advise circuitry for VAV boxes this sheet.

Answer 68: These are non-electric mechanical devices.

**Question 69:** Reference drawing E9.40.40:

- a. Feeder #1111: Please advise location of panel B163C.
- b. Feeder #1232: Please advise location of panel B1R2A.

Answer 69a: Delete feeder #1111 and panel B163C.

Answer 68b: See E8.10.40, Rm. B1-1-9.

**Question 70:** Reference drawing E9.40.41:

- a. Feeder #1593: Please advise location of transformer 5ETA.
- b. Feeder #1594: Please advise location of panel 5EA.

Answer 70a: See E8.10.40, Rm. B1-1-9.

Answer 70b: Locate next to 5ETA on E4.05.62.

**Question 71:** Reference drawing E9.40.42:

- a. Feeder #3113: Please advise what this serves.
- b. Feeder #3581: Please advise location of panel 3E2A.
- c. Feeder #3612: Please advise location of panel B2T6A.
- d. Feeder #3613: Please advise location of panel B2RB.
- e. Feeder #3620: Please advise location and schedule for B2L1A.

Answer 71a: Delete feeder #3113 from schedule.

Answer 71b: Delete feeder #3581 and panel 3E2A from the feeder schedule.

Answer 71c: Delete feeder #3612 and panel B2T6A.

Answer 71d: Delete feeder #3613 and panel B2RB.

Answer 71e: Delete feeder #3620, panel B2L1A and circuit breaker in B2DPA.

**Question 72:** Reference architectural drawings: Please advise waterproofing requirements of the elevator pits.

Answer 72: See Specifications Section 07131, Rubberized Asphalt Sheet Waterproofing, Type I.

**Question 73:** Reserved. Original question moved to Amend 05.

**Question 74:** Reference electrical drawing E4.01.61 – Note 6 (similarly Note 5 on E4.01.62) indicates a receptacle for projection screens to be mounted at 12” below ceiling. a) Please advise if there is to be a remote switch for the screen operation, and b) there are two receptacles in these conference rooms (1-1-26, 1-2-31 & 1-2-32) for projection screens, but the architectural plans seem to indicate only one screen per room – please advise.

Answer 74: Provide one switched receptacle per room at screen location shown per architectural plans.

**Question 75:** Reference electrical drawing E9.40.41 – Cable tag numbers 2500, 2600, 2700 and 2800 has no size set for the cable. Please advise cable sizes and quantities.

Answer 75: Cable quantities and sizes are 2-4”, 4-350MCM, #3G(EA) . Under alternate feeder schedule “conduit only” is to be installed.

**Question 76:** Reference specifications, sections 14210, 14240: Please advise on use of Thyssen Krupp (formerly Dover Elevator) as equal to those manufacturers listed.

Answer 76: Thyssen Krupp (Dover) is **not** approved as equal to those manufacturers listed, and must **not** be considered.

**Question 77:** Reference drawing A2.B1.64:

- a. Please advise details of drywall partitions shown at Clerestory Plan for the “Upper UPS Room B1-4-84” that do not match up with the wire and drywall partitions below.
- b. There appears to be a catch basin shown inside the UPS Room (see C3.35.01).
- c. Please also advise waterproofing details of the 18” deep slab edge/depressed slab (that is the roof of the UPS room).
- d. Is there to be an expansion joint in this depressed slab? (Slab appears to join steel members on both side of the expansion joint along Column Line 5.)

Answer 77a: Upper UPS Room plan is to match the lower plan.

Answer 77b: The catch basin will be moved South.

Answer 77c: See Specifications Section 07131, Rubberized Asphalt Sheet Waterproofing, Type I.

Answer 77d: There is an expansion joint in this depressed slab.

**Question 78**: Reference drawing A2.B1.61: Detail 2, Mezzanine Plan indicates a drywall partition on three sides of the mezzanine level slab. Structural detail 9/A5.20.41 appears to show masonry at this location. Please advise.

Answer 78: Provide Type "G" partition (cement board facing). Masonry is not to be utilized.

**Question 79**: Reference drawing C3.27.02: The catch basins and storm drain lines along the west face of the laboratory appear to conflict in elevation with the EPS foam backfill. Please advise detail for interface of catch basins and foam. (Do we rout out the foam to install catch basins and piping?)

Answer 79: Catch basin will be moved South, away from foundation wall. See Detail 1, Drawing C2.27.01 for foundation drainage. Routing of foam is not necessary.

**Question 80**: Reference drawing A5.10.46: In Detail 1, section indicated as 10/A9.70.40 cannot be found. Please provide section of these wall grilles and advise specification for grilles. (Mechanical drawings indicate these are not to be furnished by the mechanical contractor)

Answer 80: This is to be an Architectural grille made up of 1/8" thick aluminum blades, 1" center to center, 3" deep, with silver metallic powder coat paint.

**Question 81**: Please advise if there are any fire extinguisher cabinets to be provided other than those shown in the Laboratories (6/A5.50.41).

Answer 81: None are required.

**Question 82**: Please advise if there are any crash rails and corner guards (Section 10265) to be provided other than those shown at the Laboratory

Corridors (4/A5.10.43). Also, does this elevation apply to Corridors 2-3-84, 2-3-126, 3-3-86, and 3-3-113?

Answer 82: The crash rails are to be provided in Corridors B1-3-39, B1-3-53, B1-3-64, 1-3-69, 1-3-116, 2-3-84, 2-3-93, 2-3-102, 2-3-114, 2-3-126, 3-3-86, 3-3-94, 3-3-97, 3-3-100, 3-3-105 and 3-3-113.

**Question 83**: H2.01.61: Please advise size of ducts associated with FPB CL-102.

Answer 83: FPB –CL-102 will need a 12x10 duct with a 10x10 branch duct.

**Question 84**: H2.01.63: Please advise regarding portion of work that appears to be in a “Sector 66”. No drawings have been provided for this area and there are VAV’s and FPB’s scheduled for this area.

Answer 84: Sector 66 is to be disregarded. Ignore everything to the right of match line 13.1.

**Question 85**: H2.01.64: Control Room 1-4-122 indicates floor grates in the access flooring. Are these be furnished by the access floor contractor?

Answer 85: No, the ducts shown, 12x8 typical, see H2.B1.64 for continuation, are penetrating through floor from AHU-CL-12. They will supply air horizontally along the plane of the floor. The outlet has a mesh screen to keep out debris. The ducts will also require fire dampers in the floor penetrations.

**Question 86**: H2.02.64: Please advise size of ducts associated with FPB CL-213, FPB CL-214 and VAV CL-211.

Answer 86: VAV-CL-211 will need a quantity of 2-12x10 ducts. FPB-CL-214 will need a 18x12 duct reducing to a 14x12 and then 12x12, with reductions every other diffuser. FPB-CL-213 will need a 14x12 duct reducing to a 12x12 and then 10x12, with reductions every other diffuser.

**Question 87**: Are the view windows shown in elevation #6, drawing A5.10.43, titled “Window Wall”, aluminum or hollow metal?

Answer 87: The windows shown on this elevation are hollow metal. Where is the title “Window Wall”?

**Question 88:** Alternate #1E encompasses the theater. However, on the door schedule all doors that appear to apply to alternate #1E are noted in the door schedule to be provided under alternate #1C.

Answer 88: Alternate #1E is correct.

**Question 89:** There are a number of doors which are shown as fire rated are assigned to a hardware set which does not meet labeling requirements, e.g., doors #2-2-74 thru 2-2-76, 2-4-142A, 2-4-142B, etc. The same is true on some pairs of doors, e.g., 1-3-84A, B & C, 1-3-96A & B, etc.

Answer 89: Doors 2-2-74, 2-2-75, 2-2-76, 2-4-142A and 2-4-142B are to have hardware set 10A. Doors 1-3-84A, B & C, and 1-2-96a & B are to have hardware set 14A. Hardware sets indicated are for specific doors, mentioned above. For additional doors, maintain existing lock function and/or additional hardware (closers, automatic flush bolts, coordinator, etc.) to meet applicable codes.

**Question 90:** Certain doors that are pairs are assigned to a hardware group which is for a single door, e.g., B1-3-48A.

Answer 90: Provide hardware set 14 for Door B1-2-48A. For additional doors, maintain existing lock function and/or additional hardware (closers, automatic flush bolts, coordinator, etc.) to meet applicable codes.

**Question 91:** Please clarify whether frames at openings #I-4-128A and 128B are hollow metal or aluminum.

Answer 91: These frames are aluminum.

**Question 92:** I could not find door B1-3-43D on the door schedule.

Answer 92: This door is on the door schedule.

**Question 93:** On sheet A2.02.61.A1, there appears to be a door that has not been assigned a door number. It comes from the void space (under seating) to a hallway and is close to 2-1-1B.

Answer 93: The hardware set for this door is 4A.

**Question 94:** There is no specification detail on the many sidelight frames on this job; however, in several wall elevations there are two different details shown regarding the sill of the sidelight. Please refer to attached detail (provide via fax). If we are to use elevation B, please give us a detail of the treatment below the horizontal mullion but above the floor.

Answer 94: The top of the bottom rail is to be 4" above the finished floor.

**Question 95:** Reference section 07412, paragraphs 2.2.A.2.a.2 & 3: Are all metal panels to be the same color? Please advise color scheme.

Answer 95: See Answer 111.

**Question 96:** Reference section 07412, paragraph 2.3.A.1.a calls for 20-gage exterior face sheet for Type 1 metal wall panels. The manufacturer for the FWDS-60 panel (Type 1B) has a maximum gage limit of 22 gage for the exterior sheet. Please advise if this revision to the wall panel Type 1B exterior face sheet gage thickness is acceptable.

Answer 96: See Answer 110.

**Question 97:** Structural: Please advise slab edge/pour stop material specification, thickness, etc., for use in coordinating exterior skin attachments.

Answer 97: See Detail 5, Drawing S5.20.40. Exterior enclosure contractor will submit calculations to confirm loads imposed on base building structure.

**Question 98:** Are any floor slabs designed to carry the dead load weight of the exterior wall? If so, please advise locations, specifications, design criteria.

Answer 98: In general the slab edges are designed to carry the dead load weight of the exterior enclosure. During the submittal process, the exterior enclosure contractor must submit calculations confirming loads imposed on the base building structure.

**Question 99:** Reference drawing S2.04.63 – Please advise details of screen wall structure at HVAC unit near Column M-6. Is the structure to be provided under the contract with Qualico? Does it bear on the concrete curb?

Answer 99: See Detail 47, Drawing A8.30.40. The CLO general contractor is responsible for supply and installation of roof screen structure. The size of the

metal tube is 6" X 6" square. Tube supports are attached to structural roof beams per detail.

**Question 100:** Reference drawing S2.06.61 – Please advise if the tube steel structure for the screen wall is to be provided under the contract with Qualico.

Answer 100: The screen wall is supplied and installed by the CLO general contractor.

**Question 101:** Refer to drawing A2.05.61. Please clarify the requirements for the roof plaza at the west end in regard to confusion created by notation "heavy weight faced insulation typical" vs. Section 1 on sheet A3.20.49 note "24" x24" x 2" precast concrete pavers on pedestals. It appears that this plaza would require pavers on pedestals and that the rest of the double row of 2x2 pavers on all other areas would not require pedestals---is this correct?

Answer 101: 24" x 24" Precast Concrete Pavers have been replaced by Heavy Weight Faced Insulation in all cases.

**Question 102:** Reference detail 14-Sheet A8.30.40 typical roof notes-please specify the type and R-value required for the 2" base layer of roof insulation noted as "rigid insulation".

Answer 102: The insulation is as specified in specifications section 07210, 2.2.B: Molded-Polystyrene Board Insulation, R-value of 5 per inch.

**Question 103:** Please provide a roof flashing detail for the Overflow Drains at each Roof Drain.

Answer 103: Overflow drains are to be installed in the same manner as the roof drains, i.e., the roof drains are to be installed at the low points and the overflow drains are to be installed at the high points of the roof.

**Question 104:** What is the frequency of field inspections, number and type of quality assurance tests, and the extent of reporting requirements for paragraph 3.7 FIELD QUALITY CONTROL in section 07512 Protected Asphalt Built-up Roofing?

Answer 104: All roofs are to be completely flood tested. Field inspections should be performed daily. Reports should be submitted reflecting adherence to the General Installation Requirements (ref. Sec. 07512, para 3.3) Reference field audit criteria outlined by NRCA.

**Question 105:** Please clarify the roofing assembly requirements for Sector 65, Level 3 Pedestrian Bridge including the use of "3/4 inch cement board" as noted on Detail 6-A3.10.46. Is this roof area a Protected Membrane Roof?

Answer 105: The roofing assembly is as follows: (1) 3/4" cement board over steel deck; (2) insulation; (3) built-up roofing; (4) protection board; (5) stone ballast.

**Question 106:** Reference Sector 61 Level 6 Roof Plan sheet A2.06.61. This plan indicates that the roof extends to Col. Line 3, however Building section 1 on sheet A3.20.40 shows this roof area terminating approximately half way between Col. Line 3 & 4. Please clarify extent of the Level 6 roof.

Answer 106: See Detail 1, Drawing A3.20.49 for correct profile. Plan and section indicates roof extending to column centerline 3 with break at mid-point between column centerlines 3 and 4. The canopy projects West of column centerline 3.

**Question 107:** What are the duct sizes for FPB CL-102 on drawings H2.01.61; and for FPB CL-213 & 214 and VAV Box CL-211 on drawings H2.02.64?

Answer 107: See reply to questions 83 and 86 above.

**Question 108:** What are duct sizes for drawings H2.03.64.A1?

Answer 108: Both FPB-CL-315 and CL-316 will need an 18x12 duct reducing to 14x12 to 12x12, with reductions every other diffuser.

**Question 109:** Are floor grilles at Central Control Room to be by Access Floor vendor or Mechanical sub?

Answer 109: The floor grilles are by the access floor vendor. See specifications section 10270, paragraph 2.5.D.

**Question 110:** Reference Section 07412-2.3.A.1.a: Article calls for 20-gage exterior face sheet for Type 1 metal wall panels. The manufacturer for the FWDS-60 panel (Type 1B) has a maximum gage limit of 22 gage for the exterior face sheet. Crown-Corr recommends changing the exterior face sheet to 22 gage only for the FWDS-60 panel (Type 1B).

Answer 110: 22-gage exterior face sheet is acceptable for type 1B panels only.

**Question 111**: Reference Section 07412-2.2.A.2.a.2 & 3. Are all the metal panels the same color? What color(s)?

Answer 111: All panels are to be PPG 5VMA80110P Duranar Champagne Gold color.

**Question 112**: Are certain floor slabs designed to carry the dead load of the exterior wall? If yes, please specify where and the extent.

Answer 112: All perimeter slabs are designed to carry the dead load weight of the exterior wall.

**Question 113**: Please provide structural members / details for the roof screen wall between Grids 5 & 7 and L & M in Sector 63.

Answer 113: The locations of the posts are shown on the Architectural plans. The size of the posts is TS 5x5x3/8. See Detail 47, Drawing A8.30.40. The posts are to be attached to structural beams.

**Question 114**: Reserved. See Amendment 05.

**Question 115**: Whose responsibility is it for existing site erosion control systems maintenance?

Answer 115: Previously installed erosion control measures maintenance is the responsibility of the installing subcontractor. The CM maintains general areas.

**Question 116**: Our understanding from the scope of work is that ALL utilities are brought within 5' of building by others.

Answer 116: This is correct. The CLO General Contractor responsibility is to extend utilities to 5ft and perform required tie-ins with the exception of 1.3NN(5) of the Summary of Work. This item is by GC as described.

**Question 117**: Is there a plan that identifies existing erosion control for site, which may be used for our reference? This will assist us in planning additional erosion control as it relates to our limits of construction.

Answer 117: Yes. Reference Section H, Exhibit 26.

**Question 118:** Section C page 15 – pricing schedule identifies 6 areas as options

- A. Is there a more defined written scope of these options available, identifying Alternates 1A through 1E and Alternate number 2 noted on drawing schedule G1.20.40 and how the various alternates relate back to the pricing schedule?
- B. Section 00001 Specification Revision Matrix identifies several sections of the specs with ALT, i.e., 11400ALT. Are each of these sections an alternate bid or to be grouped with options defined in pricing schedule?

Answer 118a: See response given to question 43 above.

Answer 118b: Yes. The specifications marked with ALT (i.e., 11400ALT) should be grouped with the specific option as defined in the pricing schedule.

**Question 119:** Kitchen equipment is not listed on summary of work, but is checked in the specification matrix. Is it provided as part of the general construction package?

Answer 119: The kitchen equipment should be priced and included with the price for option CLIN 0004—Complete Cafeteria and B1 Level of CLO.

**Question 120:** Reference drawing H2.01.61: What are duct sizes for FPB CL-102?

Answer 120: FPB-CL-102 will need a 12x10 duct with a 10x10 branch duct.

**Question 121:** Reference drawing H2.01.66: Not listed on drawing log but H2.01.63 shows duct work in this area. VAV's and FPB's are scheduled for this area. Is this area to be included as part of our scope of work and in our price?

Answer 121: Sector 66 is to be disregarded. Ignore everything to the right of match line 13.1.

**Question 122:** Are the floor grilles for Central Control Room 1-4-122 to be supplied by raised flooring contractor?

Answer 122: See Answer 109.

**Question 123:** Reference drawing H2.02.64: What are duct sizes for FPB CL213, 214 VAV Box CL-211?

Answer 123: VAV-CL-211 will need a quantity of 2 12x10 ducts.  
FPB-CL-214 will need a 18x12 duct reducing to a 14x12 and then 12x12, with reductions every other diffuser.  
FPB-CL-213 will need a 14x12 duct reducing to a 12x12 and then 10x12, with reductions every other diffuser.

**Question 124:** Reference drawing H2.03.64.A1: What are duct sizes?

Answer 124: FPB-CL-315/6 will need an 18"x 12" duct reducing to a 14"x 12" to 12"x 12", with reductions every other diffuser.

**Question 125:** Finish schedule indicates floor finish of Stair No. 7 to be polished precast concrete treads. Details seem to indicate cast-in-place pan fill. If this is to be pan filled, does the finish remain polished?

Answer 125: The treads and landings are to be polished precast concrete, similar to Detail 9, Drawing A5.30.44, without perforated risers.

**Question 126:** Reference drawing S2.B1.63: Concrete encased beam between G-30 and E-30 interferes with the footing reinforcing steel at Column G-30. Please advise if footing elevation at G-30 should be adjusted to accommodate this condition. Also, please advise if Section 5/S4.20.42 still applies between these two column footings.

Answer 126: Revise top of footing to +78'-0". Section 5/S4.20.42 no longer applies.

**Question 127:** Reference drawing S2.B1.63: Concrete encased beam between G-30 and E-30 interferes with the footing reinforcing steel at Column G-30. Please advise if footing elevation at G-30 should be adjusted to accommodate this condition. Also, please advise if Section 5/S4.20.42 still applies between these two column footings.

Answer 127: See Answer 126.

**Question 128:** Reference drawing S4.20.40: Please confirm/advise regarding slab on grade construction joint details 2 & 3. Is detail 3 to be used at all 7" slabs on grade and detail 2 to be used at slabs of other thickness?

Answer 128: Detail 3 is to be used at all 7" slabs on grade and detail 2 is to be used at slabs of other thicknesses.

**Question 129:** Reference drawing A2.B1.63: Please advise details of casework shown in Security/Delivery Office B1-3-51.

Answer 129: Casework details are to be per Drawing A9.70.40.

**Question 130:** Reference drawing A2.05.61.A1: Please advise details of casework shown in Kitchen 5-1-5. Please advise if primary structural bracing is to be fireproofed along with columns and beams.

Answer 130: Casework details are to be per Drawing A9.70.40.

Primary structural bracing is to be fireproofed. Sequence of construction is by contractor.

**Question 131:** Reference drawing A3.20.46: Please advise composition of structure of stage floor. Sections 2 & 3 indicate two layers of plywood on 2" steel deck on trusses. Structural Section 6/S5.20.42 indicates 3" lightweight concrete on 2" metal deck on trusses.

Answer 131: Structure is per 6/S5.20.42. Plywood and wood finish is on top of concrete.

**Question 132:** Reference drawing A3.20.49.A1: Please advise construction of front and rear faces of stage. Appears to be concrete turned down to structural slab.

Answer 132: Concrete is indicated. Contractor may propose other means of closure.

**Question 133:** Reference drawing A5.10.43: Elevation 3 indicates drywall at Level 1 elevator lobby in Sector 62. The finish schedule indicates wood paneling at this room, Lobby 1-2-35. Please advise.

Answer 133: Drywall is the correct finish in this location.

**Question 134**: Reference drawing S4.20.40: Detail 16 – Is this detail required at all interior masonry and metal stud partitions on slab on grade as the note implies, or is this intended to be used only where shown on the structural floor plans?

Answer 134: This is a standard detail intended for masonry walls and steel stud bearing walls only. Currently, there are none of either on this project.

**Question 135**: Reference drawing S4.20.44: Section 5 – Please advise specification for 4" insulation between structural slab and topping slab.

Answer 135: See Specifications Section 07210, item 2.2.B.

**Question 136**: Reference drawing S5.20.42: Section 2 – Is Qualico furnishing the curved pour stop for the topping over hollow core slabs or is this to be furnished under the GC package?

Answer 136: The curved pour stop is supplied and installed by the General Contractor.

**Question 137**: Is Qualico to furnish all elevated deck slab edge pour stop (whether gage material or structural) at perimeter and framed openings as well? (i.e., is general contractor to furnish any pour stop other than construction joints?)

Answer 137: No, the deck slab edge pour stops are supplied and installed by the General Contractor.

**Question 138**: Reference drawing A2.02.62: Corridor 2-2-72 (portion west of Door 2-2-72) and Elevator Lobby 2-2-45 appear to indicate floor joint patterns similar to polished concrete floor areas, but the finish schedule indicates carpet. Please advise.

Answer 138: Provide polished concrete floor and wood base for 2-2-72 and 2-2-45.

**Question 139**: Reference drawing A2.02.62: Please advise the break location between Corridor 2-2-72 and 2-1-24 (finish schedule indicates polished concrete with wood base in 2-1-24 and carpet with resilient base in 2-2-72).

Answer 139: Provide polished concrete floor and wood base for 2-2-72.

**Question 140:** Reference drawing A3.20.43: Please advise specification, details & extent of “waterproofing along mech shaft” shown at Column E and J.

Answer 140: Waterproofing is not required. Provide curb at edge of mechanical shaft as shown on Level 3 above.

**Question 141:** Reference Section E, Scope of Work: Paragraph 1.3.K and the “Division 5 Supply Delineation” indicates that Item 14 (Auditorium Catwalk) of Section 05500, Paragraph 1.2.A is to be furnished and installed by the GC. The Attachment 1 “CMFE & DP Supplier Matrix” indicates that Item 14 is by Qualico. Please advise.

Answer 141: The General Contractor shall provide and install the catwalk per Detail 17 on A9.60.40, Rev 0.

**Question 142:** Reference Section E, Scope of Work: Paragraph 1.3.K appears to indicate that Items 1 thru 5 of Section 05500, Paragraph 1.2.A are to be by others, while the “Division 5 Supply Delineation” indicates that these items are by the GC. Please advise.

Answer 142: The Division 5 Supply Delineation is correct. Please refer to notes regarding providing and install stairs and handrails.

**Question 143:** Alternate drawing E4.03.63.A1 shows many mechanical and electrical equipment in bold just as they appeared in drawing E4.03.63. I am wondering whether it is a printing error.

Answer 143: Electrical work to mechanical items FPB-CL-319 and 322 are to be bid in alternate drawing E4.03.63.A1, all other electrical equipment and electrical work to all other mechanical equipment to be bid under the base bid. Electrical work to lab areas to be bid as shown.

**Question 144:** Section E, Scope of Work: Please clarify the assignment of responsibility (Qualico or GC) for the following miscellaneous metals.

- a. Guard railing along mezzanine at Level B1, Area 63.

- b. Wall rails at stairs that Qualico is to provide (Metals Supply Delineation page 2 indicates stairs and handrails to be Qualico, but then seems to indicate that the wall railings of these same stairs are to be by the GC).
- c. Railings on top of parapet walls at roof perimeters.
- d. Metal decking for Auditorium Stage and Projection Room.
- e. Catwalk and associated railings

Answer 144a: Ornamental railing is supplied and installed by General Contractor (See Detail 15 A5.30.44).

Answer 144b: The General Contractor installs all rails attached to walls. Qualico per the Division 5 Supply Delineation will supply the stairs and rails for Stairs #8 & #9, but the GC will install the rails..

Answer 144c: General Contractor to supply and install.

Answer 144d: The metal decking is installed by Qualico. The raised floor and cold form metal framing is by General Contractor.

Answer 144e: The catwalk and associated railing per Detail 17 A9.60.40 is supplied and installed by General Contractor.

**Question 145:** Reference drawing A2.02.64: Please provide wall type required at the West wall of Control Room Observation 2-4-136 and advise height dimensions/provide elevation of the interior window wall system in this wall.

Answer 145: See Elevation 4, Drawing A5.10.40 for elevation and dimensions of the interior window wall system.

**Question 146:** Many elevations and plans indicate exterior column covers as both metal and GFRC. Please advise if there are to be any metal column covers.

Answer 146: All exterior column covers to be Glass Fiber Reinforced Concrete (GFRC).

**Question 147:** Reference drawing A8.20.41, Detail 1: Is the guardrail to attach to the tube steel or the wood blocking?

Answer 147: Attach the guardrail to the steel tube.

**Question 148:** Reference drawing A5.10.45, Detail 2: Please advise construction of wall at front edge of balcony seating.

Answer 148: The construction is steel-framed gypsum board.

**Question 149:** Reference drawing A5.30.40, Elevations 12, 13, 15 & 20: Related to Stair E, these details indicate stainless and painted railing. Please advise which specification to follow.

Answer 149: Handrails are to be stainless steel. Guardrails to which handrails are attached are painted.

**Question 150:** Reference drawing A5.30.40, Elevations 3 & 7: Detail indicates stainless steel rails. Please advise if this is correct.

Answer 150: Handrails are to be stainless steel.

**Question 151:** Reference drawing A5.30.40, Elevation 5: Please advise railing material type.

Answer 151: This handrail/guardrail is painted.

**Question 152:** Reference drawing A5.30.43, Detail 15: Stairs 13 & 14 appears to be metal with concrete pan fill. Section 12/A5.10.45 indicates these stairs to be concrete. Please advise.

Answer152: Stairs 13 & 14 are to be metal with concrete pan fill per Detail 15, Drawing A5.30.43.

**Question 153:** Reference drawing A5.30.44, Details showing stainless riser plates: Is the stainless plate to be continuous beneath the precast treads and if so, is it to be solid?

Answer153: Only the riser portion of the stair needs to be perforated stainless steel. The tread portion of the steel pan is not perforated.

**Question 154:** Reference drawing A3.20.49.A1: A "service access" is indicated at the front edge of the projection room raised floor. Please advise specification, size, etc. Also, is there to be a service access to the stage raised floor?

Answer 154: The service access door is to be a trimless, flush access door per Specifications Section 08311.

**Question 155:** Finish Schedule: Locker Rooms B1-2-37 & B1-2-38 indicate carpet and ceramic flooring. Please advise pattern/location of each type.

Answer 155: Tile is in the shower stall and lavatory areas only. Carpeting is in the locker areas. For Ceramic Tile see Specifications Section 09310. For Carpeting see Specifications Section 09680.

**Question 156:** Reference drawing A2.01.61: Coat Room 1-1-17 - Please advise what material is shown along the west wall of this room and provide elevation/details, e.g., shelving with coat rack?

Answer 156: The material shown was formerly a counter. Nothing is to be provided for this space. The owner will provide movable coat racks.

**Question 157:** Reference drawing A2.01.63: Storage 1-3-87 - Please advise what material is shown along the south wall of this room and provide elevation/details, e.g., storage shelving, how many shelves, depth?

Answer 157: The line shown indicates owner-furnished cabinetry for storage purposes.

**Question 158:** The partition legends on A7.20.40 indicate sound insulation will go at partitions with an "s" suffix at the wall type marker on the plans. None were found. Please confirm that there are no walls requiring sound batts (per absence of this designation).

Answer 158: Yes, also see Amend 04, Q&A #38.

**Question 159:** Specification 09260 paragraph 3.7.F specifies STC rated assemblies. Please clarify (any required-if yes-where?) in regard to interior partitions.

Answer 159: Partitions should meet the following RC and NC Level criteria:

Auditorium:	25
Conference/Meeting Rooms:	30
Private Offices:	30
Control Room:	35
Dining Room:	40

Laboratories W/O Hoods:	40
Corridors, Lobbies, etc.	40
Laboratories W/Hoods:	50

**Question 160:** There is a wall type C2 shown on drawing A2.02.61, but no corresponding wall detail on drawing A7.2.40. Please clarify.

Answer 160: The designation CL should be revised to C2 on drawing A7.20.40.

**Question 161:** Please confirm if hanging and finishing "shell side" gyp board should be included in base bid (for areas only shelled-in in base) for interior partitions. For instance, Sheet A2.02.63 non-rated part. Type A between corridor 2-3-126 and Wet Labs 2-3-120, 2-3-124 and 2-3-125; is gyp board (including finishing of) on both sides of wall to be included in base bid or just gyp board on the corridor side?

Answer 161: The base bid will include all required construction to achieve rated walls. If not rated, the room side will not include the drywall finish. This answer also provided in Amend 04, Q&A #40.

**Question 162:** Summary of Work, paragraph 1.3.nn.5 requires installation of the 15 kV feeder cables from the CLO to the switchyard #8911. The drawings for level B2-sector 62 shows the conduit to 5-0 outside. Which scope do we include as part of our pricing?

Answer 162: The duct bank will extend to the 5 ft as shown on the referenced drawing. The GC scope of work includes the 5 ft and tie in required to the previously installed duct bank, and all work as described in SOW, Paragraph 1.3NN(5).

**Question 163:** Reference section 09260, Paragraph 3.7.F: Please advise STC requirements and if there are any partitions this applies to.

Answer 163: Partitions should meet the following RC and NC Level criteria:

Auditorium:	25
Conference/Meeting Rooms:	30
Private Offices:	30
Control Room:	35
Dining Room:	40
Laboratories Without Hoods:	40
Corridors, Lobbies, etc.:	40
Laboratories With Hoods:	50

**Question 164:** Reference Section E, Summary of Work: Miscellaneous Metals - Please advise/clarify assignment of responsibility for furnishing the following items:

- a. Anchor bolts and bearing plates at beam pocket locations.
- b. Embed plates and bearing angles for metal decking at concrete walls.
- c. Structure for canopy at Level 1 entrance shown on Drawing A3.40.45.
- d. Continuous angle shown in Detail 54/A8.20.41

Answer 164a: Anchor bolts and bearing plate embeds at beam pockets supplied and installed by General Contractor (Detail 22/S4.20.40)

Answer 164b: Provided and installed by General Contractor

Answer 164c: Provided and installed by General Contractor

Answer 164d: Provided and installed by General Contractor

**Question 165:** Please advise detail for overhead door support framing at metal stud partitions.

Answer 165: Provide steel studs sufficient to withstand lateral forces (10 lbs/s.f.). The door guides support the vertical forces of the overhead door.

**Question 166:** Please advise if the pedestrian bridge is to receive spray on fireproofing.

Answer 166: Fireproofing is not required.

**Question 167:** Please advise specification for wood flooring at Auditorium stage.

Answer 167: Oak strip flooring, 2" wide strips.

**Question 168:** Reference drawing A5.50.41, Elevation 7: Please advise specification for gas cylinder supports which are noted as "CFCI".

Answer 168: "CFCI" indicates contractor furnished, contractor installed. Three vertical strips of "Unistrut", 5'-6" long attached to the wall are required. The gas cylinders are installed on the floor and are secured to the "Unistrut" with chains.

**Question 169:** Reference drawing A9.60.41, Detail 11: Please advise if this gate detail has been utilized on this project. Have not located any locations on plans that use this detail.

Answer 169: This gate is in Stair #1, Level B1.

**Question 170:** Reference drawing H2.B1.63 & 64: Please advise specification for the intake plenum grilles/louvers located in the soffit at the exterior wall.

Answer 170: The grille is to be extruded aluminum, blades 1/8" x 2", 1" center to center, painted white, powder coat.

**Question 171:** Reference drawing S5.20.41, Detail 9: Grating material and support does not agree with Detail 48/A8.20.42. Please advise detail to be used.

Answer 171: The Structural Drawing indicates "sill support, see Arch. Drawings".

**Question 172:** At areas where "exposed" is indicated on finish schedule for ceiling, is the metal decking to be paint?

Answer 172: See Note 1, "Painted walls to underside of structural deck, **painted deck** and painted fireproofing. Utilities not painted unless indicated by Mechanical, Electrical or Plumbing Specifications.

**Question 173:** Reserved.

**Question 174:** Reference drawing A2.05.63: Three sides of the mechanical room roof are indicated to have precast pavers at the perimeter, and the north side is indicated to have heavyweight insulation. Detail 1/A3.30.49 indicates that this north side (at J line) is concrete pavers also. Please advise.

Answer 174: See Answer 24, Amendment 04.

**Question 175:** Reference drawing A2.06.62: Roof of stair tower is indicated to have both heavyweight insulation and precast pavers. Is this correct?

Answer 175: See Answer 24, Amendment 04.

**Question 176:** Reference drawing A2.06.62: Roof of mechanical room is indicated to have two rows of precast pavers. Is this correct? If so, please

advise line of demarcation between Area 61 and Area 62 (heavyweight insulation vs. precast)

Answer 176: See Answer 24, Amendment 04.

**Question 177:** Reference drawing A2.03.64: FYI...no access is provided to the roof area over the Control Room. If required/overlooked, please provide details.

Answer 177: Permanent access is not required.

**Question 178:** Reference drawing A3.30.49, Detail 1: Precast pavers are indicated as typical at mechanical equipment. Is this typical of all rooftop mechanical equipment or at this particular rooftop unit only? (Heavyweight insulation is shown around rooftop fan units on other drawings)

Answer 178: See Answer 24, Amendment 04.

**Question 179:** Reference drawing A8.30.40, Details 22, 26, 28: "Canopy B" is referenced in these details, but cannot be found on the plans/elevations. Please advise location of Canopy B.

Answer 179: Reference is to **Bottom** of Canopy (B/ Canopy), not Canopy B.

**Question 180:** Reserved.

**Question 181:** Reserved.

**Question 182:** Reserved.

**Question 183:** Reference drawing E8.20.42.A1: Please advise if this backbone wiring is to replace or is in addition to the backbone indicated on E8.20.40. If this is an alternate, which line item in the bid form does this apply to?

Answer 183: It has been determined that drawing E8.20.42.A1 should not have been included in the drawing package. Ignore this drawing.

**Question 184:** Reference drawing E8.20.42 shows a 36-strand fiber from MTR to CER. Drawing E8.20.44 shows a 36-strand fiber from MTR to Front End Communications room that goes through CER. Are these the same?

Answer 184: Yes, this is the same cable.

**Question 185:** Reserved.

**Question 186:** Is drawing E8.20.42.A1 fiber telephone riser alternate 1 to be bid separate? There is no "Pricing Schedule" Option pricing sheets for this. Please clarify. Do all the copper risers on drawing E8.20.40 remain if telephone cable riser diagram alternate 1 is accepted?

Answer 186: It has been determined that drawing E8.20.42.A1 should not have been included in the drawing package. Ignore this drawing.

**Question 187:** Reserved.

**Question 188:** Please elaborate on the meaning of note #1 on the finish schedule drawings A7.10.40 through A7.10.43. As stated, it is unclear as to the meaning of this note.

Answer 188: See Answer 172 above.