

May 2, 2013

**ADDENDUM #3**

ISSUED BY EDiS COMPANY  
110 S. POPLAR STREET, WILMINGTON, DE 19801

**The bid due date has been extended.**

**Bids are now being received until 3:00 p.m. on Thursday, May 9, 2013 at the AI DuPont High School.**

NOTICE: Attach this addendum to the Project Manual for this project. It modifies and becomes a part of the Contract Documents. Work for materials not specifically mentioned herein are to be as described in the main body of the specifications and as shown on the Drawings. Acknowledge receipt of this Addendum in the space provided on the Bid Form.

**SPECIFICATION REVISIONS**

- a) Specification Section 011100-13 : Contract A-02 : Demolition
  - o Add bullet to page - "*Provide demolition and removal from site of piers and footer supporting existing cooling tower.*"
  - o Add bullet to page - "*Provide sawcutting of existing walls for new electrical panels and feeders.*"
- b) Specification Section 011100-20 : Contract A-04 : Carpentry & General Works
  - o Add bullet to page - "*Provide manufactured glass showcase in new school store as part of Alternate #2 pricing.*"
- c) Specification Section 011100-22 : Contract A-05 : Masonry
  - o Add bullet to page - "*Provide patching and tooth-in of walls for electric raceways at new electric panels.*"
- d) Specification Section 011100-25 : Contract A-07 : Roofing
  - o Delete seventh bullet from page - "*Roof Hatches.*"
- e) Specification Section 011100-26 : Contract A-07 : Roofing
  - o Delete second bullet from page - "*Smoke Vents.*"
- f) Specification Section 011100-30 : Contract A-10 : Glass and Glazing
  - o Delete seventh bullet from page - "*Sun shading devices integral with window system.*"
  - o Delete tenth bullet from page - "*Mock-ups as required by the Drawings and Specifications.*"
- g) Specification Section 011100-31 : Contract A-10 : Glass and Glazing
  - o Add bullet to page - "*Provide FRP doors and hardware. Keying for these doors is to be provided by Contract A-04 : Carpentry & General Works.*"
- h) Specification Section 011100-34 : Contract A-11 : Mechanical & Plumbing

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- Add bullet to page - *"Provide protection of adjacent floors and finishes during demolition of mechanical and plumbing fixtures, equipment, pipe, etc."*
  - Add bullet to page - *"Provide complete demolition and removal from site of existing cooling tower."*
  - Add bullet to page - *"Provide complete demolition and removal from site of all plumbing fixtures and equipment."*
- i) Specification Section 011100-40 : Contract A-14 : Electrical
- Add bullet to page - *"Provide protection of adjacent floors and finishes during demolition of existing electrical equipment, conduit, etc."*

### **PREQUALIFICATION**

The following contractors have submitted supplementary prequalification statements which have been reviewed and approved for this project:

- Mechanical
  - J.F. Sobieski Mechanical Contractors Inc.
  - Merit Mechanical Co., Inc.

### **ATTACHMENTS**

- Addendum No. 3 from Studio JAED dated May 2, 2013

END OF ADDENDUM #3

**Addendum  
No. 3****Date:** May 2, 2013**Project:** AI DuPont HS Additions and Improvements**Project No:** 12030

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The work herein shall be considered part of the bid documents for the referenced project and carried out in accordance with the following supplemental instructions issued in accordance with the Contract Documents without change in Contract Sum or Contract Time. Acknowledge receipt of addendum on the bid form as indicated.

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<i>Item</i>	<i>Description</i>
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**Clarifications:****BIDDING CONTRACTOR RFIs #2 dated 4/29/13: Questions & Answers**

1. Please provide piping diagrams for the new sump pump in Boiler Room. **RESPONSE: Piping diagrams are included in drawing revisions with addendum #3.**
2. Is a new wall required in Storage 024? The new ceiling plan shows two rooms in this area, Storage 024 and Team Rm. 028. This is not shown on any other floor plans. **RESPONSE: There was an error on the new floor plan sheet A4.2 where the existing wall was left out and therefore existing Team RM 028 was not recognized. Existing Team RM 028 remains existing with an existing wall between it and Storage 024. It is shown correctly on both A6.2D & A6.2.**
3. New layout for silt fence at annex corridor is required. Silt fence needs to be extended to allow for topsoil stockpile as shown in the attached sketch. **RESPONSE: Instead of a new silt fence layout, it is our recommendation to add silt fence around the topsoil stockpile pile along with seeding and mulching the pile. Contract A-01 : Sitework is responsible to provide silt fence, seeding, and mulching of topsoil stockpile.**
4. The civil drawings show the fire main being relocated to run into the chases at the corner of the classroom. The step footings shown on drawings S2.1 do not match this new configuration of pipe. Please advise. **RESPONSE: There are (2) existing pipe penetrations and (2) proposed sleeve installations indicated on the Civil drawings. All (8) footings (2 footings per penetration) will require the step footing detail. Civil drawings govern the location. Civil drawings indicate the scope of work.**
5. Drawing S2.1 – step footings are shown where the new footings meet the existing footings of the main building and annex except for the footing to the east of Door D160. Is a step footing required at this location as well? **RESPONSE: Steps at locations where a new foundation intersects an existing foundation are only needed as required. Due to limited access to existing structural drawings, the elevations of the existing foundations could not be determined therefore the foundations should be stepped in a manner to allow the bottom of both the existing and new foundations to align.**

6. Are expansion joints required at the floor slabs where the new corridor 100-B meets the existing slabs in the main building and annex? Expansion joints are shown in the walls at these two locations. **RESPONSE: Expansion joints are not required in the slab on grade. A tooled construction joint is acceptable with 3/4" diameter smooth dowels greased on one end. See the attached sketches.**
7. Are foundation drains required at the new footings at the annex corridor? None are shown on elevations or wall sections. **RESPONSE: No foundation drains required.**
8. Please provide additional details for what is to happen where the flashing shown in detail 5/A5.8 and 6/A4.12 meet. **RESPONSE: Both details 5/A5.8 and 6/A4.12 have been revised by this addendum. The base flashing at the curtainwall (5/A5.8) occurs at the same horizontal brick joint as the thru-wall flashing at detail 6/A4.12. The curtainwall base flashing should continue past the jamb of the curtainwall and lap over the new thru-wall flashing at detail 6/A4.12. For revisions to Detail 5/5.8, see attached sketch SK-A.6 . For revisions to Detail 6/4.12, see attached sketch SK-A.7**
9. Are lintels required at all new smoke dampers? **RESPONSE: All new openings in masonry walls require lintels at the head of the opening.**
10. Should lightweight concrete be used where concrete is installed over rigid insulation at the floor infills? **RESPONSE: Lightweight concrete is not required.**
11. Please provide additional information for breakers listed as "Existing Load" on panel schedules. Will a survey need to be performed by the electrical contractor to verify the loads on these breakers in order to balance the loads on these panels? Is this information available for use by the electrical contractor in generating final panel schedules? **RESPONSE: No additional information is available. No survey by electrical contractor will be required to balance loads.**
12. SF1 indicated on A5.2 detail 3 has projected vents in the bottom row. SF-1 indicated on A5.7 detail 2 does not indicate projected vents in the bottom. Which is correct? **RESPONSE: SF-1 on A5.7 is shown correctly. There are no operable vents in SF-1.**
13. SF-2 shown on drawing A5.7 detail 2. It looks as if the bottom row may have operable vents. The cut A5.9 – does not indicate vents. Please verify no vents. **RESPONSE: SF-2 on A5.7 is shown correctly. There are no operable vents in SF-2.**
14. Reference Drawing A5.7 Window Type SF22; Who owns the louvers in the window system? 089100 Louvers Come up in Contract A-04 General Carpentry. Please clarify. **RESPONSE: These louvers are integral to the window assembly. They are to be provided by Contract A-10 : Glass and Glazing.**
15. Reference Drawing A5.6 Door Schedule. Who Owns the FRP doors ? Some are in Store front and curtain wall and some are in Hollow metal. There is no spec for FRP Doors. **RESPONSE: The FRP door spec. is included in this addendum. FRP doors and associated hardware are to be provided by Contract A-10 : Glass and Glazing. Keying of these doors will be provided by Contract A-04 : Carpentry & General Works.**

16. We would respectfully like to request a substitution approved from Kawneer to YKK. Attached you will find the corresponding information showing that YKK is comparable to Kawneer. If you have any questions please do not hesitate to ask. **RESPONSE: YKK is approved as a substitution for Kawneer.**
17. The CMU will need to be cut and removed to allow the new panel boards and associated raceways to be flush mounted to the existing CMU walls. Will the masonry contractor tooth-in the walls from the top of the new panels to above the acoustic ceilings to conceal the new raceways? **RESPONSE: Yes, the masonry contractor owns tothing-in new masonry at new panels.**
18. The door and frame at room 015E will need to be removed to allow sufficient space to move in the new SWBD 2. Nothing is shown on the demolition or architectural drawings. Please provide. **RESPONSE: Contract A-02 : Demolition is to remove door and frame at door D015E. Contract A-04 : Carpentry & General Works will install new wood door and hardware (match exist.) in HM frame in existing CMU opening. Paint frame to match existing.**
19. Reference Contract A-10 Glass and Glazing - Sun shading Devices integral with window system. Reference 084413 Glazed Aluminum Curtain Walls - B Related Sections - 6. Division 107113 Exterior Sun control devices  
Reference 084113 - 2.3 Storefront Framing - B Trifab Sunshades  
All these indications that there are Sunshades, I cannot find any. Please advise.  
**RESPONSE: There are no sunshades in this project.**
20. Reference 084113 - 1.4 Performance requirements - 5) Thermal Transmittance, 6) Condensation Resistance, 7) Sound Transmittance  
Reference 088000 Glazing - 2.01 Glazing Types - A Type G1  
Please clarify what is wanted as far as insulated glass units. With the STC ratings that are specified, laminated glass may be required to achieve this. That cost is substantial on a job this size. **RESPONSE: Insulated glass units are to be standard 1" insulated, tempered, tinted, low-e glazing units. No special STC ratings or laminated glazing is required.**
21. We asked this in our RFI #1 and are still not sure what the intent of alternate 11 is. It states "All dual temp piping to be replaced, including tunnel piping". I don't know how we are to figure how much existing piping there is and what size it is. Besides that, the tunnel piping is already clearly shown to be coming out per drawing M8.1D in the base bid.  
**RESPONSE: This alternate has been clarified in revised drawings included with addendum #3.**
22. The architectural demo drawings show mechanical wall penetrations being cut by demo. Who owns patching if walls aren't cut to exact fit? **RESPONSE: Per items #1 and #2 of the "Construction General Notes" on sheets A6.1 thru A6.9, the demolition contractor would be required, in the above description, to patch back to any openings that are cut too large by demolition, providing a separation equal to the separation requirement of the entire wall assembly provided the correct layout dimensions were provided by the mechanical contractor prior to cutting. If patching is required due to incorrect layout**

**of the opening, the mechanical contractor will be responsible for patching of the opening.**

23. We would respectfully like to request a substitution approved from Kawneer to EFCO. Attached you will find the corresponding information showing that EFCO is comparable to Kawneer. If you have any questions please do not hesitate to ask. **RESPONSE: EFCO is approved as a substitution for Kawneer.**

24. The glass and glazing summary of work calls for sunshades, I didn't see any on drawings, are there any? **RESPONSE: There are no sunshades in this project**

25. The glass and glazing summary of work calls for mock ups, will there be one? **RESPONSE: A glazing mock-up is not required.**

26. Are we required to perimeter caulk the exterior of our frames only or both interior and exterior? **RESPONSE: Storefront and curtainwall frames are to be caulked at both the interior and exterior of the frames. This is to be provided by Contract A-10 : Glass and Glazing.**

27. Spec. section 085113 does not call for insect screens, will they be required? **RESPONSE: Insect screens are required at all operable vents.**

28. Spec. sections 084113.1, 084113.2, 084413 and 085113 call for field testing for air and water by an independent testing agency. Will this be required? If so, both air and water tests? How many tests? Will contract A-10 be responsible for paying for the testing? **RESPONSE: Field testing by an independent testing agency, of both air and water tests, is required to be provided by Contract A-10 as specified.**

29. Reading spec. section 088000 it appears that tempered glass is only where required by codes to be safety glass. The window elevations on sheet 5.7 all call for tempered insulated ( type G-1) glass at all exterior locations. Which is correct? **RESPONSE: The drawings are correct regarding the extent of tempered glazing.**

30. Spec. section 084113.20 calls for Kawneer 451T framing which has one thermal break. The details on drawing 5.8 shows two thermal breaks which would be Kawneer's 451UT framing (ultra-thermal). Which one should be used? **RESPONSE: Kawneer 451T is the basis of design, not 451UT.**

31. Will spec. section 088000, page 2, paragraph 1.05, F, 2. Extra Insulating Glass Units be required? This will be a lot of glass, we'll need to know where in building they plan to store it. **RESPONSE: Attic stock of insulated glazing units is not required.**

32. Spec. section 075300 – Calls for cover board to be included in the roof assembly however it is not show on the drawings. Please clarify if the cover board is required. **RESPONSE: Provide cover board per the specifications.**

33. Summary of work for Contract No. A-07: Roofing- Notes Roof Curbs- Roof Curbs and curb adapters are typically supplied by the mechanical contractor to match their equipment. Please confirm that all curbs are by the mechanical contractor.

**RESPONSE: Roof curbs are to be provided by the mechanical contractor. Contract A-07 : Roofing is responsible for providing flashing of all new roof curbs.**

34. Summary of work for Contract No. A-07: Roofing- Notes roof hatches and smoke vents – Are there any roof hatches or smoke vents on the project? Specifications? **RESPONSE: There are no roof hatches or smoke vents on the project.**

35. In regards to the acoustical ceilings, the information in the specs calls for a 2 x 2 tile in prelude grid. From what I can tell from the RCP drawings, a significant amount of the project appears to be 2 x 4 tile system. **RESPONSE: At kitchens and toilet rooms, design basis = Armstrong Health Zone Ultima Square Lay-in. At all other areas, design basis = Armstrong Fine Fissured Square Lay-in. Provide 2 x 4 or 2 x 2 as indicated on ceiling plans.**

#### **EDIS PLAN REVIEW COMMENTS dated 4/26/13: Comments & Responses**

##### **STRUCTURAL:**

1. S1.1, 2.0 Earth Work – Item #6, is this 8” or 18” lifts for fill material?

**RESPONSE: 8” lifts per Note 2.6.**

2. S2.1 – Please provide proposed ramp elevation drawing.

**RESPONSE: The ramp is shown in section on sheet S3.1, details 9 and 10.**

3. S2.1 – Provide finished floor elevation at the top of the ramp from the new addition to the existing main building between column lines 1 & 2.

**RESPONSE: Will comply. The elevation is 280’-0”**

4. S2.2, Plan Note #13 – Refers us to TD1/S4.2, is this a miss print, Please verify correct detail.

**RESPONSE: TD8/S4.2 is the correct detail. Will correct.**

5. S2.2, Plan Note #1 – Please provide elevation.

**RESPONSE: The note will remain as is. Please refer to the Architectural Drawings for the top of roof steel elevations due to the sloping members.**

6. S4.1, Detail 4 – Typ. Stepped footing wall calls for additional diagonal bars in concrete wall above footing. Per Structural Drawings, all foundation walls are masonry. How does this apply?

**RESPONSE: The diagonal bar can be omitted. It only applies to concrete walls.**

##### **ARCHITECTURAL:**

1. G1.1A, Detail 3/4.1D - Remove note for construction barrier in Phase II work.

**RESPONSE: Note removed.**

2. A4.1D, Plan 4/4.1D - Note CD16 calls for half of slab at bottom of ramp to be demo'd. Detail 3/A4.13 calls for entire slab to be replaced. Which is correct.

**RESPONSE: Slab demo revised on Plan 4/4.1D. See Attached Sketch SK-A.5**

3. A6.5D - In lobby 111, Note CD-4 calls for storefront to be demo'd at north side of room. This was observed in the field to be display cabinets. Please clarify intent at this area.

**RESPONSE: Remove existing storefront located on exterior side of existing interior display case. Existing display case is to remain.**

4. A6.7D, Detail 1/A6.7D In rooms 106-A & 105-A it refers us to demo note CD-9, please provide plumbing demo drawing, piping schematic and riser diagram for these rooms.

**RESPONSE: Follow reference from note C-9 to plumbing sheet 10.1D for plumbing demo scope of work in this area.**

5. A6.9D Locations of the demolition required for new smoke dampers are not shown in Corridor 9A. **RESPONSE: No demo is required at these locations. Existing openings are to be used for new smoke dampers.**

6. A4.2 - New concrete housekeeping pads for new pumps in Receiving 007 & Incinerator 008 are at variance with drawing M8.16, which shows existing housekeeping pads are to remain. **RESPONSE: Existing housekeeping pads in Receiving 007 & Incinerator 008 are to remain per drawing M8.16.**

7. A4.4 - New infill masonry at the removed mechanical unit located on the first floor of Stair 3 should refer to detail 12/S4.1. **RESPONSE: At all masonry infill details and new masonry opening details, coordinate existing lintel demo and new lintel installation with structural details 11/S4.1 & 12/S4.1**

8. A4.7, Detail 8/A5.4 - Incorrect reference. Should read "opp." on plan. **RESPONSE: Reverse direction of reference tag 8/5.4**

9. A4.7 - New infill masonry at the removed mechanical unit located on the first floor of Stair 1 should refer to detail 12/S4.1. **RESPONSE: At all masonry infill details and new masonry opening details, coordinate existing lintel demo and new lintel installation with structural details 11/S4.1 & 12/S4.1**

10. A4.12, Detail 1/4.12 Please provide detail where low roof at corridor meets high roof at class rooms. **RESPONSE: For revisions to Detail 5/5.8, see attached sketch SK-A.6 . For revisions to Detail 6/4.12, see attached sketch SK-A.7.**

11. A4.12, Detail 8/4.12 - Where we flash existing roof to new wall could we please have a little more detail. **RESPONSE: For new Detail 11/5.8, see attached sketch SK-A.8 . For revisions to Detail 8/5.8, see attached sketch SK-A.9.**

12. A4.15 - Keynote #3 should refer to detail 9/S4.2. **RESPONSE: Add "detail 9/S4.2 to the end of Keynote #3.**

13. A4.1, Keynote R-2 - All locations of demolished mechanical units are not shown as receiving patch per note R-2. **RESPONSE: See Addendum #1 for revisions.**

14. A4.18 - Missing location of 6" x 6" roof penetration above area A. **RESPONSE: See attached sketch SK-A.10 for revision to Area "A" Roof Plan.**

15. A4.18 - Missing location of new lab exhaust fan above area A (alternate). Base bid

includes removal of the existing exhaust fan / curb and roof infill. **RESPONSE: See attached sketch SK-A.10 for revision to Area "A" Roof Plan.**

16. A5.6 - Door D145 on schedule is listed to be H.M. Frame and FRP door, this door is part of S.F.-8, shouldn't it be Aluminum? **RESPONSE: Frame is aluminum, door is FRP. See attached revised drawing A5.6**

17. A5.6, Detail 5/5.9 - Door D001, head detail 5/5.9, is this correct head detail for this door? If so, and if door is part of curtain wall, shouldn't the frame and door be Alum. Not FRP ? **RESPONSE: Head detail is 7/5.9, door is FRP. See attached revised drawing A5.6**

18. A5.6 - Door D160, reference J-4A. J-4 sketch is missing "A" reference. **RESPONSE: See attached revised drawing A5.6**

19. A5.6 - Door D169 is part of C.W.-1, shouldn't this door and frame be Aluminum? **RESPONSE: Frame is aluminum, door is FRP. See attached revised drawing A5.6.**

20. A5.6 - Door D145 is part of SF-8, door schedule calls for H.M. frame & FRP door, shouldn't these be Aluminum? **RESPONSE: Frame is aluminum, door is FRP. See attached revised drawing A5.6.**

21. A5.6 - Door Schedule Majority of new doors listed as FRP. Could not find FRP specification section in book nor notes regarding them in Aluminum Entrance & Storefront section. **RESPONSE: Add attached section 081613 Fiberglass Doors to the Specifications Manual.**

22. A5.6 - Door Schedule Door D006 is scheduled as a type D-1 door which is at variance with elevation 2/A5.2. **RESPONSE: Door type D-1 is correct for door D006. See attached revised drawing A5.6.**

23. A5.6 - Door Schedule Head and jamb details for door D008 are at variance with each other (head dimension is 4 3/4" while jamb dimension is 6 3/4"). **RESPONSE: At door D008, change head detail to "H-4". See attached revised drawing A5.6**

24. A5.6 - Door Schedule Head and jamb details for door D101B are at variance with the plan dimensions of the adjoining wall. **RESPONSE: At door D101B, change door details to "H-8" & "J-8". See attached revised drawing A5.6.**

25. A5.6 – Door Schedule Frame material for door D169 is at variance with curtain wall frame and head detail. **RESPONSE: At door D169, change frame material to alum. See attached revised drawing A5.6.**

26. A5.6 - Door Schedule Curtainwall tag for door D167 is at variance with floor plan. **RESPONSE: At door D167, change curtainwall (CW) tag to "CW-4". See attached revised drawing A5.6.**

27. A5.6 - Door Schedule Head and jamb details for door D154 are at variance with plan dimensions of the adjoining walls. **RESPONSE: At door D154, change door details to "H-10" & "J-10". See attached revised drawing A5.6.**

28. A5.6 - Door Schedule Head and jamb details for door D154D are at variance with plan dimensions of the adjoining walls. **RESPONSE: At door detail "J-10", change note "Existing 6" CMU" to "New 6" CMU". At door detail "H-10", change note "Exist. conc. lintel" to "New conc. lintel". See attached revised drawing A5.6**

29. A5.6 / A5.7 - Glass types listed on glazing type schedule are at variance with glass types listed in the specifications. **RESPONSE: Glazing Type Schedule shown on drawing A5.6 is correct.**

30. A5.10, Detail 12/A5.10 - Avoid note "see structural dwgs." Refer to misc. steel angle masonry wall lintel schedule on S2.2

31. Reflected Ceiling Plans, Keynotes C-1 & C-2 - Indicate new acoustical ceiling tile and grid. Keynote only calls for new grid. **RESPONSE: At drawings A6.1 thru A6.9, delete the word "grid" at Construction Keynotes "C-1" & "C-2".**

32. Reflected Ceiling Plans, Keynote C-3 - Indicate new paint on new gypsum board ceilings. **RESPONSE: At drawings A6.1 thru A6.9, change Construction Keynote "C-3" to read "Install new painted gyp. ceiling or soffit on cold-formed metal framing."**

33. Reflected Ceiling Plans, General Note #3 - Indicate locations of new electrical panels & the extent of new masonry work at each location. **RESPONSE: See attached revised drawings A6.2, A6.4, A6.5, A6.6 & A6.8.**

34. Floor & Reflected Ceiling, General Note #17 - Indicate locations of masonry wall to be removed for new electrical panels. **RESPONSE: See attached revised drawings A6.2D, A6.4D, A6.5D, A6.6D, A6.7D & A6.9D.**

35. Floor & Reflected Ceiling, Keynote CD-1(2nd Floor Only) - Keynote CD-1 is at variance with the notes describing base bid vs. alternate work. **RESPONSE: Keynote CD-1 is modified by the notes describing the base bid vs. alternate work.**

36. Floor & Reflected Ceiling - Locations of wall demolition required for new ductwork penetrations are at variance with mechanical new work plans. **RESPONSE: See Addendum #1 for revisions.**

37. Is window treatment required at all new storefront windows, except at corridors & lobbies? It's hard to determine the scope with just what's shown on the section details. The notes on pages A5.7, A5.9 & A5.10 seem to indicate that none of the offices, corridors, lobbies, & library is scheduled to get window treatment. Is this correct? **RESPONSE: Provide window treatment at all storefronts except in corridors. Stairwell curtainwalls do not receive window treatments.**

#### **MECHANICAL:**

1. Does the mechanical piping, to be demolished, get capped at the mains or are these tees to be removed? It was previously discussed that these demoed pipes would terminate at the inside of the corridor walls to avoid revisiting the corridor in each phase. **RESPONSE: Cut adjacent piping and cap existing tees at mains. In general, these tees in the mains will not be reused.**

2. MD-1 is only shown in two places. What of the other restrooms? **RESPONSE: This is correct. Other air terminals in this area are either in areas where ceiling demolition is not required.**

3. Existing 2-1/2" pipe in crawl space is shown as demolished. Nothing shown to go back. Is this correct? **RESPONSE: This is correct. These 2-1/2" lines serve equipment that is to be demolished and not replaced – mostly office areas that are going over to VRF.**

4. Hydronic piping supply shown to feed existing AHU and CUHs for cafeteria / kitchen shown as demoed back to boiler room. Dwg. M8.1 does not show any new supply pipe going back. Should existing main remain in place to supply new units. **RESPONSE: Yes, this main shall remain between the boiler room and the branch to AHU-004. Only demolish runout to AHU-004 and runout to CUHs. See revised drawings of this area to be included with addendum #3.**

5. What are the pipe sizes to/from UV/010A and UV/010B? **RESPONSE: The lines serving both units shall be 1-1/2". The runout lines to each unit shall be 1-1/4". See sketch issued as part of addendum #3.**

6. What is the pipe support for the exterior chilled water piping? **RESPONSE: Clevis hangers shall be required, fastened to the underside of canopy. Mechanical Contractor shall demolish stucco soffit under canopy to fasten hanger to structure. Architectural patching of stucco soffit shall be required and is to be detailed as part of addendum #3. Contract A-04 : Carpentry and General Works is to provide stucco patching.**

7. Is either heat trace or glycol required for exterior chiller piping? **RESPONSE: No, the chiller & chilled water piping are to be routinely winterized.**

8. Is new condensate piping required at new units? We understand through the general note that mostly are connected to existing pipe, however there are several new CUHs that are in different areas or in addition to the demoed CUH. For example, kitchen receives 4 new CUH and only 3 are demoed. **RESPONSE: In general condensate piping is to be reconnected to existing in area. New condensate piping is shown where required. (for instance, see new dual temp fan coils on first and second floor). The CUH is a heat-only unit and no condensate drainage is required.**

9. Does chilled water flow through the CUHs? **RESPONSE: No, control valves serving these unit types are to remain fully shut in cooling mode.**

10. What is the pipe size to the CUH and the FT in the Boys Toilet and custodians office RM 019? **RESPONSE: These runouts are to be 1". All runouts to FTs and CUHs may be assumed to be 1" unless otherwise noted.**

11. What size pipe coming off CH-1 and is it under ground? **RESPONSE: New piping to and from CH-1 is to be 8" and it is to be above ground, fastened to underside of canopy before dropping down to chiller level.**

12. Pipe size to FT in greenhouse? **RESPONSE: The runout to the FT may be 1"; please see sketched revisions to be included with addendum 2 for additional pipe sizing in this area.**

13. Pipe size to all CUH-1s in corridor and stairs and CUH-3 in Storage 163C? **RESPONSE: Runouts to each of these pieces of equipment may be 1”;** please see sketched revisions to be included with addendum 2 for additional pipe sizing in the area of 163 storage rooms and greenhouse.
14. How does the overhead duct in Science 167 terminate? **RESPONSE: This exhaust duct ties to (2) R-7 air terminals and terminates by tying into an existing 20”x14” duct above Storage Rm 163A.**
15. How is outside air to UVs provided at east side of area D? **RESPONSE: OA is directly provided to UVs 132, 130, 130C, 130A, 128 and 126 by existing wallboxes and louvers. Replacement units only need to tie into existing wallboxes. UV/130B gets OA from a roof-mounted intake vent which will be reused with replacement unit.**
16. Where do the 2-return grilles in rooms 101B and 102B tie into? **RESPONSE: These air terminals act as relief grilles and tie into relief ductwork shown on M8.7. Ductwork is to penetrate roof and go up to gravity ventilators on roof, shown on M8.12.**
17. Are the ceilings in section E new addition specified to be return plenum? If so, no wall return grilles above the ceiling have been located on the plans or wall sections. **RESPONSE: No, there is no plenum relief or plenum return in this area. Unit ventilators handle supply and return locally to the room and only require relief air be released. Classrooms 101B, 102B, 101-A, 102-A each have local rooftop-mounted gravity ventilators for relief, Classroom 103-A is served by an RTU which does not require additional relief air, and Rooms 104-A and 108-A relieve into the mechanical room, which has existing relief paths.**
18. How is outside air to UVs provided in Area A? Are outside louvers existing at each location? Unclear on floor plan. **RESPONSE: All unit ventilators shown on this sheet are served by existing louvers and require only a tie-in to existing. Locations where new louvers & penetrations are required are shown in plan view (see UV/254A on sheet 8.9 as example). Penetration details are coordinated on architectural plans.**
19. Please provide additional details for smoke dampers? **RESPONSE: See specification section 23 33 00 section 2.09 “Smoke Dampers”. If further explanation is required, please clarify inquiry.**
20. Are new housekeeping pads required at boilers? It was our understanding that the new boilers would sit on the existing pads. **RESPONSE: Yes, new boilers require new housekeeping pads as shown on architectural plans. Existing boilers are not on pads.**

#### **ELECTRICAL:**

1. What happens to the power for the chiller and assorted pumps, do we safe it off for future or demo back to panel? **RESPONSE: Demo back to source panel, as noted on sheet 9.2 D.**

2. In work room 006B, does [light] get demoed or saved? **RESPONSE: Disconnect, temporarily support, and reinstall per demo keynote as shown on sheet 9.1 D.**
3. Notes ED-1 [through] ED-5 have not been utilized on this drawing, are all dashed items to be demoed? If so, drawing E9.1 shows no new installation, please clarify. **RESPONSE: This is correct, no new lighting in the area shown on sheet 9.1. See demo keynotes on sheet 9.1 D.**
4. Mech. AHU is to be demoed in room 006, are we to disconnect and safe off electric or demo back to panel? **RESPONSE: Demo back to panel as noted on sheet 9.1 D.**
5. Boiler room 012, note refers us to 2/M8.2, please provide detail. **RESPONSE: Please ignore this reference.**
6. M8.2 D shows cooling tower being demoed, are we to demo wire back to panel? Would it be possible to reuse existing conduit to re-feed the new chiller? **RESPONSE: Demo back to source panel as noted on sheet 9.2 D. Reuse of this conduit is not permitted.**
7. Do lights in rooms 103 and 103A fall under note ED-7 or ED-1? **RESPONSE: These lights fall under note ED-7.**
8. In room 101-A do lights fall under note ED-7 or ED-1? **RESPONSE: These lights fall under note ED-7**
9. The over head communication cable noted on the drawing, would this be the same electrical line called out to be removed C-101 note R-4? **RESPONSE: The overhead cable noted on C-101 is the same overhead communication cable shown on E9.7 D – which is to be relocated. Please note that there is also an underground feeder and conduit that is to be demolished in this area – which is shown on E9.7 D.**
10. Only the lights in corridor #9 are being addressed under note ED-7, nothing is being addressed in the classrooms except the unit heaters under note ED-6? Drawing A6.8 D calls for these ceilings to be demoed. Please advise. **RESPONSE: All lighting demolition keynotes are shown. Please see sheet 9.8 D.**
11. In class rooms 101-B and 102-B there is a symbol P in a box with an arrow pointing to the wall, is this a proposed projector? If so, please provide circuits and details. **RESPONSE: Circuiting is provided on sheet 9.7. This is to be a ceiling-mounted projector and is to be furnished and installed by owner under separate contract.**
12. Existing panels – provide description where “EXISTING LOAD” is noted. **RESPONSE: No additional information is available.**
13. Indicate the feeder from the transformer located in the annex to the MDP located in the lower level area C as NEW. **RESPONSE: Please see revised sheet to be included with addendum #3.**

14. It is unclear whether fire alarm devices shown on these plans are new or existing. Provide further details. **RESPONSE: Fire alarm devices shown on demolition plans are existing to be reinstalled. Fire alarm devices shown on new plans are to be all new devices.**

#### **FIRE PROTECTION:**

1. Provide detail describing how the new sprinklers will extend from the mains to the space above the corridor lockers. **RESPONSE: Each of these noted locations represent areas of combustible materials in interstitial space. The fire protection contractor is to augment the existing sprinkler piping above the ceilings as required to extend sprinkler head(s) to cover these noted locations.**

#### **Changes to Drawings:**

1. For changes to Architectural Drawings, see above responses to Bidding Contractor RFI's and EDIS Plan Review Comments with the exception of the following:
  - a. Drawing A6.8D, A6.9D, A6.7, A6.8 – See revised drawings for additional ceiling removal and replacement.
2. *Drawing M8.1 D through M8.6 D and M8.10 D* – See revised annotation to clarify requirements for add alternate to replace all main hydronic piping.
3. *Drawing M8.2* – See revised plan to include discharge condensate piping from sump pit in boiler room.
4. *Drawing M8.16* – See new annotations to specify sump in boiler room and piping from boilers to sump pit.
5. *Drawing M8.23* – See revisions to specify new backflow preventer to replace existing backflow preventer. See additional noted clarifications to schematic.
6. *Drawing M8.2* – See sketch SK-M.14 for pipe sizing to UV/010A and UV/010B.
7. *Drawing M8.3* – See sketch SK-M.15 for pipe sizing in area of storage rooms 163 and greenhouse.
8. *Drawing E9.2* – See revisions for new power requirements for EF-42 and EF-25. Note that motor control center “MCC” is no longer required.
9. *Drawing E9.4* – See revisions for locations of required gang boxes & conduits.
10. *Drawing E9.7* – See revisions for locations of required gang boxes & conduits.
11. *Drawing E9.20* – See revisions to single-line diagram to clarify new work and note that motor control center “MCC” is no longer required.
12. *Drawing E9.19* – See sketch SK-E.13 for revised feeder size to new panel PL1F.
13. *Drawing E9.17, E9.18, and E9.19* – See sketch SK-E.14 for wire size matrix to specify required wire sizes from branch panels by breaker size.
14. *Drawing E9.16* – See sketch SK-E.15 for new power requirement for EF-25 on roof. See also revised location for EF-22 per Addendum #1.
15. *Drawing E9.17* – See sketch SK-E.16 for revised panel schedule for PNL-PHBR including newly connected EF-25 and EF-42.
16. *Drawing M8.1* – See sketch SK-M.16; provide condensate removal pump at AHU-004 as noted.
17. *Drawing M8.24* – See sketch SK-M.17 for revised AHU-004 elevation view. Provide MODs as noted on return and OA ducts.
18. *Drawing M8.3 D* – See sketch SK-M.18 for demolition notes of ductwork at UV in Classroom 164.
19. *Drawing M8.10* – See revised drawing for changes to ductwork layout. Ignore dimensions shown on previously issued drawing and note located gym lighting and structure for coordination. See new return diffusers R-12 & return ductwork at gym air handlers.

20. *Drawing M8.20* – See revised drawing for changes to scheduled gymnasium air handlers – which are to be provided with mixing boxes.
21. *Drawing M8.25* – See revised sheet for return ductwork – to be provided at all gym air handlers and return grilles R-12.
22. *Drawing M8.21* – See revised sheet to include scheduled R-12 return grille.
23. *Drawing E9.1* – See sketch SK-E.17 for circuiting to condensate removal pump @ AHU-004.
24. *Drawing E9.18* – See sketch SK-E.18 for revised panel schedule for PNL-PLL to include new circuit for condensate pump & AHU-004
25. *Drawing Sheet S3.1* – See revision to Details 8 and 10.

**Changes to Specification Manual:**

1. *Specification Section 081613 Fiberglass Doors* – Add this section to the Specifications Manual.