

Addendum No. 5

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DATE: June 28, 2019

PROJECT #: ET-0099-B01

DESCRIPTION: New Perth Amboy High School

This addendum shall be considered part of the Bid Documents issued in connection with the referenced project. Should information conflict with the Bid Documents, this Addendum shall supersede the relevant information in the Bid Documents.

A. <u>CHANGES TO THE PROCUREMENT PROCESS:</u>

NOTE: Additions are shown in **bold and underline** text; deletions are shown in **strikethrough** and italies.

1. Modifications to the Advertisement, Request for Proposals and Associated Documents

a. MODIFY: All references in the Project Advertisement and the Request for Proposals (RFP) to the submission requirements of the "Project Approach Criteria" portion of the Technical Proposal shall be modified to require the submission of one (1) unbound original and seven (7) eight (8) bound

copies.

B. CHANGES TO THE PROJECT MANUAL:

NOTE: Additions are shown in **bold and underline** text; deletions are shown in *strikethrough* and italies.

1. Modifications to the General Requirements

(Not applicable)

2. Modifications to the Performance Specifications

- **a. REPLACE:** In Section B2010.00, Exterior Walls, replace Table B2010.00-1 with updated Table B2010.00-1, included herewith as Attachment 5.01.
- **b. ADD:** In Section C2000.00, Finishes, add Paragraph II.K.3. as follows:
 - 3. Provide written certifications from both manufacturer and installer that floor system and accessories, including without limitation resilient sheet, poured topcoat, color coat, and all catalysts and adhesives are 100% free of mercury and other heavy metals.
 - a. Coordinate with the Authority's Construction Manager for on-site sampling and testing of materials prior to application.
- **c. ADD:** In Section C2000.00, Finishes, add Paragraph II.M. as follows and renumber subsequent items accordingly:

M. Protective Padding System

- 1. In De-Escalation Room(s), provide seamless protective padding system to cover full height of walls, doors, and floor as follows:
 - a. Nonflammable, nontoxic, water-repellent open-cell foam polymer padding, mechanically fastened to substrates.
 - b. High-strength, heat-resistant synthetic reinforcing mesh.
 - c. High-build vinyl coating.
 - d. Coved corners and base.
 - e. Matching prefabricated padding on all edges and corners at doors, windows, grilles, and other
- 2. Basis of Design: Systems of Gold Medal Safety Padding or Padded Surfaces by B&E.
- **d. ADD:** In Section D2010.60, Plumbing Fixtures, add Paragraph II.V.6. as follows:
 - 6. Provide a chase with keyed, louvered access door at each outdoor water fountain location.
- e. **ADD:** In Section D2010.60, Plumbing Fixtures, add Paragraph II.T. as follows and renumber subsequent items accordingly:

T. Custodial Sink

- 1. Use the following:
 - a. Wall-mounted cast iron service sink with stainless steel rim.

b. Basis of Design: Kohler Bannon.

- 2. Use the custodial mop receptor faucet specified below.
- **f. MODIFY:** In Section D3000.00, Heating, Ventilation, and Air Conditioning (HVAC), modify Paragraph I.D.4.b. as follows:
 - b. All spaces with an occupancy density of 25 people per 1,000 sq. ft. shall be provided with CO₂ monitors located 6'-0" above floor level in a protected location.
 - i. Provide automatic modulating control of outside air damper via CO₂ monitor for all spaces where systems provide such modulation.
- **g. MODIFY:** In Section D3000.00, Heating, Ventilation, and Air Conditioning (HVAC), modify Paragraph I.A.9.d.(3)(c) [sic] as follows:
 - (a) Provide *gas fired* air curtains at each garage door.
- **h. DELETE:** In Section D3000.00, Heating, Ventilation, and Air Conditioning (HVAC), delete Paragraphs I.A.8.j.(vi) [sic] and i.A.8.j.(xi) [sic] in their entirety.
- i. MODIFY: In Section D3000.00, Heating, Ventilation, and Air Conditioning (HVAC), modify Paragraph II.F.2. as follows:
 - 2. Provide ultra low noise units capable of meeting NC requirements for classrooms. Provide systems which comply with the acoustical requirements of Performance Specifications Section PS1030.00.
- **j. MODIFY:** In Section D3050.10, Facility Hydronic Distribution, modify Paragraph II.A.1.a.(1) as follows:
 - (1) Schedule 40, *continuous welded* steel pipe with threaded Class 125 cast iron fittings.
- **k. MODIFY:** In Section D3050.10, Facility Hydronic Distribution, modify Paragraph II.A.1.b.(1) as follows:
 - (1) Schedule 40, black steel seamless electric resistance welded pipe.
- **I.** MODIFY: In Section D3050.50, HVAC Air Distribution, modify Paragraph I.C.4.a.(1) as follows:
 - (1) Provide systems which comply with the acoustical requirements of Performance Specifications Section PS1030.00, as well as code and RC Levels as defined in ASHRAE HVAC Applications Handbook. Do not exceed the sound pressure level for any octave band at the specified RC.

- **m. MODIFY:** In Section D3050.50, HVAC Air Distribution, modify Paragraph I.C.4.a.(2)(c) as follows:
 - (c) Measurement of room sound levels with ANSI S1.4-1983 (R2006), Type 1 *or* 2 sound level meters
- **n. DELETE:** In Section D3050.50, HVAC Air Distribution, delete Paragraph I.C.4.a.(2)(c)(ii) in its entirety.
- **o. DELETE:** In Section D3050.50, HVAC Air Distribution, delete Paragraph II.A.2.(3) in its entirety.
- **p. MODIFY:** In Section D3050.60, HVAC Design Parameters, modify Paragraph I.H.1.b. as follows:
 - b. Terminal equipment (FCUs, <u>fan-powered</u> VAV boxes, cabinet unit heaters): 30% filters.
- **q. ADD:** In Section E1030.80, Food Service Equipment, add Paragraph II.C.11. as follows:

C. Stainless Steel Wall Panels

- 1. At walls behind all cooking equipment, provide stainless steel panels as specified, minimum 22-gauge.
- 2. Extend stainless steel panels from cove base to 6" above bottom of hood, and for full width of hood on each side.
- **r. MODIFY:** In Section E1070.00, Entertainment and Recreational Equipment, add Paragraph II.D. as follows and renumber subsequent items accordingly:

D. Pipe Grid System

- 1. Provide a pre-engineered pipe grid system in the Communications/Broadcasting Lab as indicated, including without limitation the following:
 - a. 1-1/2" Schedule 40 steel pipe, 48" on center both ways.
 - b. Galvanized steel suspension cables.
 - c. Matte black painted finish.
- 2. Design and construct the grid to comply with all code requirements and the following minimum loadings:
 - a. 30 lbs. per linear foot.
 - b. 300 lbs. point load.
- 2. Basis of Design: iWeiss Theatrical Solutions.

3. Modifications to the Design Manual

(Not applicable)

C. CHANGES TO THE EDUCATIONAL SPECIFICATIONS:

1. **REPLACE:** Replace pages and drawings in the Educational Specifications, Room Layouts and Fitout Lists with corresponding pages and drawings included herewith as Attachments 5.02 through 5.14.

D. CHANGES TO THE DRAWINGS:

(Not applicable)

E. BIDDER'S QUESTIONS, REQUESTS FOR INFORMATION AND RESPONSES:

1. Question: CATV & Internet to the site will not be confirmed by Comcast as stated in

the report. Confirmation is requested that the Authority will secure all contractual arrangements with the proposed Comcast carrier including all costs associated with the delivery into the proposed location of the MDF.

Please confirm.

Response: Not confirmed. See Addendum #2 Item B.2.b.

2. Question: Please confirm that all costs for Verizon referenced in the utility

investigation report will be paid by the NJSDA.

Response: Not confirmed. See Addendum #2 Item B.2.b.

3. Question: Industry standard recommends that stainless steel wall paneling be used at

wall locations where there is an exhaust hood/ cooking equipment. Please confirm if SDA wants stainless steel wall paneling at these locations or if

the contractor can use an alternate product.

Response: See Item B.2.q. above.

4. Question: Specification Section G0000.00 Article F states that "complete earthwork

in such a fashion to allow adequate time for underlying fine-grained deposits below portions of the site to consolidate prior to the installation of building superstructure and structural components to limit differential settlement associated with site fill and consolidation of mentioned fine-

grained deposits".

Response: No question is asked.

Addendum No. 5 Page 5 of 22

Project #: ET-0099-B01

5. Question: What is the programming for the open courtyard areas within the building footprint (i.e. seating, landscaping, hardscape, drainage)?

Response: No activities are planned for these spaces, which are primarily light wells. No seating or landscaping is required. Provide concrete pavement, with drainage as required by code.

6. Question: The room fit out sheets indicate that the Art Room pottery wheels are to be provided by the Design Builder. Please provide a basis of design / model number.

Response: See Addendum #3, Attachment 3.12.

7. Question: Volume 3 included scanned PDF's of the DOE Schematic Submission.

The DOE A-100 series floor plans show the room "ceiling heights & occupant loads" however since the documents were scanned the information is pixilated and very hard to read. Since this information is not included in the Bridging Design Drawing Floor Plans please provide unscanned PDF's of the DOE submission.

Response: See Addendum #3, Attachments 3.20 through 3.28.

8. Question: Do the Control Room (C209A) windows within the Communications I
Broadcasting Lab and Control Room (C118B) windows within the Music
Suite need to be soundproof windows?

Response: See Addendum #4, Item B.2.a.

9. Question: Specification section E1070.00 (11.1.1.b) calls for a pipe grid system in the Communication / Broadcasting Lab. The usable lab area is approx. 260 sf. Confirm a pipe grid system is required, and if so, provide additional information.

Response: Confirmed. See Item B.2.r. above.

10. Question: The Room Finish Schedule in the Educational Specifications (B-12) notes that the Auditorium is to receive 'suspended acoustical ceiling'. Building Section B on A-301, and Interior Elevations El, and E4 on A-402 are not clear as to what is actually required. Please clarify the following:

- a. Would it be acceptable to have any portions of the Auditorium to have suspended acoustical ceiling tiles and portions without ceiling tile?
- b. Is the acoustical ceiling tile (if provided) above the Auditorium seating required to be black?
- c. The curved reflector panels are located near the center (per elevation E4) above the seating. What is the design intent along the remaining overhead area along the sides? Is the roof structure to be exposed, or are there any suspended acoustical ceiling tiles?

Response: a. The suspended acoustic ceiling referenced in the Educational Specifications is limited to the underside of the balcony. The ceiling of the balance of D119 Auditorium shall be painted exposed structure.

b. Both the suspended acoustic ceiling under the balcony and the exposed structure in the balance of D119 Auditorium shall be painted black.

c. The remaining ceiling in D119 Auditorium shall be exposed structure painted black.

11. Question: Refer to A-401 elevations B4, and D4 and clarify the following: Can the (5) bridge connector columns be enclosed with round prefabricated metal column enclosures painted with EP-5, or is the design intent to only have exposed round steel columns?

Response: Round prefabricated column covers are acceptable. Provide column covers matching exterior column covers, except with factory-applied paint finish matching color EP-6.

12. Question: What is the acceptable material for the decorative bridge?

Response: Truss elements shall be metal tube sections painted EP-6.
Floor finish of the upper surface of the deck shall be VS-1 & VB-1.
Underside of the deck shall be GWB, painted EP-1.
Column enclosures: See Item E.15. above.
Railings shall be metal tube sections with mesh infill painted EP-6.

13. Question: Referencing Section G1070.00 II, A, Retaining Walls, can modular block retaining walls be utilized on the site and where appropriate?

Response: No. The Design-Builder shall use reinforced concrete retaining walls as specified.

14. Question: Section 2020.60, II (V) Outdoor Water Fountains. Need plumbing chase at each fixture location. Recommend louvered access panel to allow heat into chase to avoid pipes freezing.

Response: See Item B.2.d. above.

15. Question: Compressed air distribution piping is called out as marine grade aluminum. Will the SDA accept industry standard non-ferrous materials (copper/stainless steel) for compressed air distribution piping?

Response: Yes. Other non-ferrous metals acceptable to the system manufacturer are acceptable.

16. Question: Will the SDA accept controls by manufacturers other than Trane?

Response: No. In response to the Project School District's request, the Building

Management System has been approved for proprietary specification.

17. Question: Specification D3050.50 II.A.2(3) provides a type of ductwork to be used

for "Exposed exterior ducts." This is interpreted to include exterior rooftop duct work. Please confirm that the installation of exterior rooftop

ductwork will be acceptable.

Response: Exposed exterior ductwork is not acceptable. See also Item B.2.o. above.

18. Question: The Programmatic Model, page 5 indicates a requirement for two (2)

Testing Rooms; whereas, the Ed Spec and Fit-Out sheets indicate only one room is required. Please clarify the number of rooms required.

Response: Two Testing Rooms are required, as indicated on Sheets A-102 and E99.

See revised Sheet C-159, included herewith as Attachment 5.05.

19. Question: The Programmatic Model, page 5 indicates requirement for one

Technology Storage Room; however, the Ed Spec does not provide a detailed room requirements sheet for this room. There is a fit-out sheet (E128) for this room. Please provide a detailed room requirements sheet.

Response: Replace Page C-187, misplaced between Pages C-200 and C-202, with

Page C-201, included herewith as Attachment 5.06.

20. Question: Detailed Room Requirements sheet C-70 indicates," ... one bay to be 7'

high." Please clarify design intent.

Response: See Section E1010.00, Vehicle Servicing Equipment, Paragraph II.A.3.

21. Question: Fit-Out Sheet E42, item TLP1 appears to be the full length of the wall;

whereas, on E43 the fit Out list indicates this item to have lesser dimensions. Please confirm the intent and dimensions of this item.

Response: TLP1 should run the full available length of the wall. See revised Sheet

E43, included herewith as Attachment 5.07.

22. Question: Fit-Out sheets E73, E74, E75, E76, E77, E78, and E79: the fit-out list

indicates that SDA FFE is providing BNC1; however, the color of the item on the plan view indicates the DB/GC. Please confirm which entity

is providing this item.

Response: BNC1 is indeed to be furnished by the Authority. See revised Sheets E73,

E74, E76 and E78, included herewith as Attachments 5.08 through 5.11.

23. Question: Fit-Out Sheet E44, on the fit Out List one (1) walk-in cooler/freezer is

indicated; however, on the plan there are two shown. Additionally, the

drawing shows each of these as a unit with only one chamber. Please confirm the intent. Is there to be one walk-in cooler/freezer, or one walk-in cooler and one walk-in freezer? Please confirm the dimensions of the unit(s) required.

Response: Each Culinary Arts Lab has one walk-in cooler and one walk-in freezer. They are separate units as shown in the plan drawing.

24. Question: Detailed Room Requirements Sheet C-98 indicates a 1500 seat capacity. The Fit-Out Sheet E57 indicates 1,022 seats on the Auditorium level and

506 seats on the balcony level. The fit-Out Sheets E56, E56A show a different number of seats. Please confirm that the full seating capacity,

including accessible seats is 1,500.

Response: The seating capacity is approximately 1,550. See revised Sheet C98/99,

included herewith as Attachment 5.03.

25. Question: Table C2000.00-1 notes 2 different flooring systems for the Stage (RWF-2, and RWF-3). RWF-2 is to be used at the Stage Proscenium, and RWF-3 is to be used at the Stage. Both of these systems require the slab on grade to be recessed with different depths. RWF-2 requires a 3" depression, and

RWF-3 requires a 2-1/8" depression. Clarify the following:

a. Clarify that "both" of these flooring systems are in fact required for the Stage Dl19A.

b. If both are required, is the design intent to begin RWF-2 in line with the inside face of the proscenium wall, and extend it out towards the Audience?

Response: a. Both are indeed required for the Stage, as specified.

b. Correct.

26. Question: The Fit-Out sheets call for power to be provided at the Adult Changing

Stations. Per the basis of design model number listed in Cl090.40 (11.E),

this item does not require power. Please clarify.

Response: The Adult Changing Station does not require power.

27. Question: Educational Specification sheets C8, C16, C19, C36, C43, C48, C79, C89,

C93, C121, and C169 call for "provide water line for coffee maker."

Please confirm this is a project requirement for these spaces.

Response: Confirmed.

28. Question: Educational Specification sheets C2, C30, and C60 (SCSE Classrooms) note "Local control of room temperature to +/- 10 degrees Fahrenheit.

Please confirm this is a project requirement for these spaces.

Response: Confirmed.

29. Question: Floor Plans A102, and A-103 note "concrete pads" at the doors opening

up to the outdoor roof paver areas. Are these concrete pads required? Can the roof pavers be extended to replace the concrete pads since they

will match the corridor FFE elevation?

Response: Yes.

30. Question: Please confirm the only "floor safe" in the project is located in room

D109A.

Response: Confirmed.

31. Question: Provide a basis of design manufacturer and model number for deionizer

filtration system required at Prep Room sinks as noted in the Educational

Specifications.

Response: See Section D2010.20, Domestic Water Equipment, Paragraph II.E.

32. Question: Provide additional information on the padded rooms: Full height wall

pads to ceiling height? Is padding required on the door as well? Color of

padding?

Response: See Item B.2.c. above.

33. Question: Fit-Out sheet E94 (Addendum #1) shows item CSTA2 in the Faculty

Servery color coded red as being provided by the DB/GC. This item is

not listed in the spreadsheet. Clarify what this item is.

Response: This item is a piece of casework on which the Point of Sale system will

sit. See revised Sheet E94, included herewith as Attachment 5.12.

34. Question: Fit-Out sheet E119 (Addendum #1) shows what appears to be a sink to the

right of the washer and dryer. This item is not color coded. Is this a

janitorial sink? Please provide more information.

Response: This is indeed a custodial sink. See Item B.2.e. above.

35. Question: Fit-Out sheet E119 (Addendum #1) CWK9 calls for a sink with a bubbler.

Is this sink for toddler use, or for staff use for any food prep? At what

height should the sink be used as? Is another sink required?

Response: This sink is for staff use and height as indicated on E119/119A. No other

sink is required.

36. Question: Please clarify whether Site Plan Drawing AS-101 is correct in showing

the requirement for a personnel gate adjacent to the retaining wall along the North property line where the proposed finish grades result in a difference in elevation of approximately 15 feet between the proposed top of wall elevation and the existing ground surface at the North side of the

wall.

Response: This gate is not intended for personnel. It was requested by the municipal

fire department in order to draw water from the hydrants on Chamberlain Avenue without kinking hoses by passing them over the fence. The

change in elevation has been acknowledged.

37. Question: We respectfully request that consideration be given to extending the May

21, 2019 cut-off date for questions by a minimum of two (2) weeks in order to afford bidders additional opportunity to obtain further

clarifications that may be needed for the project.

Response: See Addendum No.4, Item A.1.a., which extended the deadline for

delivery of Bidder Questions to the Authority until 2:00 PM (Eastern

Time) on June 21, 2019.

38. Question: Given that the July 2, 2019 due date for the submission of the Technical

and Price Proposals falls within a popular holiday vacation week, and given that the high volume of bidding activity expected during the summer will result in negative effects to the response from bidders, we respectively request that the Bid Due Date of July 2, 2019 be extended by

a minimum of one (1) month.

Response: See Addendum No.4, Item A.1.b., which extended the due date for

submission of Technical and Fee Proposals to the Authority until 2:00 PM

(Eastern Time) on July 30, 2019.

39. Question: The existing stormwater analysis indicates that all of the stormwater flow

ultimately discharges into the existing 48-inch line that is owned by the state. However, it is unclear if the existing 18-inc RCP stormwater pipe in Chamberlain Avenue ultimately discharges into this 48-inch line. Please

clarify.

Response: The 18" RCP pipe in Chamberlain Avenue does tie into the 48" RCP line

within the right-on-way north of the project site.

40. Question: Has the re-routing of the existing on-site stormwater line been coordinated

with the City and the State? Has a hydraulic analysis been completed for

this existing stormwater line? If so, please provide.

Response: See Attachment 3.01 to Addendum No. 3 for the May 28, 2019 version of

the Utility Investigation Report, which supersedes the August 1, 2018 version in its entirety. Note the incorporation of additional discussion

concerning the relocation of the sanitary and stormwater sewer mains, which will need to be relocated as they are in conflict with the conceptual layout of the high school building. Re-routing of the sanitary and stormwater lines have been coordinated with the City schematically. The Design-Builder's civil professional is responsible for the final design and permitting. The Design-Builder shall design the relocation pipe network to match or exceed the capacity of the existing systems, the owner's requirements (the City of Perth Amboy Department of Public Works) and the requirements of any other Agency Having Jurisdiction. Design-Builder shall secure permits and agreements to construct this system.

41. Question:

Based on our review of the Stormwater Management Report, it appears that there are some proposed areas that allow stormwater runoff to flow into the adjacent neighboring properties. Also, it appears that some of this off-site flow leads to an adjacent low-lying area in the northwestern portion of the property that would cause ponding to occur off-site. Please provide clarification how the runoff from all of these "by-pass" areas should be properly captured, conveyed and managed on-site.

Response:

The stormwater design provided is schematic in nature and does not represent a complete design. The Design-Builder shall be responsible for the stormwater system design based on the applicable manufacturer and product utilized, noting the Authority's specified Project requirements.

42. Question:

Please provide a utility map indicating where the hydrant flow tests were completed and which water lines were tested (size and low/high pressure).

Response:

See Attachment 3.01 of Addendum No. 3 for the May 28, 2019 version of the Utility Investigation Report, which supersedes the August 1, 2018 version in its entirety. Note the incorporation of additional hydrant tests that were completed in October 2018, changed flow calculations and a recommendation for incorporation of on-site fire water storage. The revised Utility Report includes the location of all four hydrant tests.

43. Question:

Please provide the anticipated award date and the Notice to Proceed Date.

Response:

The scheduled date for the Notice of Award (NOA) is October 22, 2019. The scheduled date for the Notice to Proceed (NTP) for the Design Phase is November 15, 2019. These dates are tentative and may be subject to change.

44. Question:

Please confirm that all soils meet or under the NJDEP residential clean requirements.

Response:

Not confirmed. Design-Builders are required to review all elements of the Design-Build Information Package, including the Remedial Responsibilities Plan and the Existing Conditions/Post Demolition Site Conditions Report dated December 27, 2018 and included with Addendum #2 as Attachment 2.03.

45. Question: Has a date been established for interviews?

Response: See Addendum #4, Item A.1.e.

46. Question: Section D3000.00, II.F.2. references NC requirements for classrooms.

Please advise if the language regarding NC requirements is intentional, and if so, define the NC requirements. In practice, past NJSDA projects

have not considered NC level design goals.

Response: See Items B.2.1. and B.2.n. above.

47. Question: Section D3050.50, I.C.4.a, indicates that air distribution background noise

is to meet the requirements of PS1030 as well as RC levels based on ASHRAE. Please advise if the language regarding meeting RC level requirements is intentional. In practice, past NJSDA projects have not

considered RC level design goals.

Response: See Items B.2.1. and B.2.n. above.

48. Question: Contract drawings C -05 indicates two (2) low pressure water services:

Two (2) Low Pressure Fire Water Services (WLP) connecting to the municipal water main in Convery Boulevard and one (1) High Pressure Domestic Water Service (WHP) connecting to the municipal water main in Chamberlain Avenue. However, the hydrant flow test data included in the Utility Investigation Report in the bid documents indicates very low water pressure when water flows from the water mains in Chamberlain Avenue and Dorothy Street, and no hydrant flow test information for the

water main in Convery Boulevard.

In order to quantify in the bid the cost of the domestic water booster pressure pump, the following information is required:

a. Hydrant flow test for water main in Convery Boulevard.

b. If the hydrant flow test results for the water main in Convery Boulevard also indicates low pressure, why the domestic water connection to that municipal water main is defined as "High-

Pressure Water" in Contract Drawings C-05.

Response: See the revised Utility Investigation Report dated May 28, 2019 and

included in Addendum #3 as Attachment 3.01.

49. Question: Verify the hydronic finned tube radiation for the school is only required at

spaces with full height glass and/or curtain walls as indicated in Contract

Specification D3020.00, I, D, 5, b.

Response: Confirmed.

Ouestion: Clarification is necessary for the type of HVAC system required for the "Life Skills and Practicum Labs" since that area of the building is listed under the "Type A" and "Type B" systems narrative in Contract Specification D3000.00 (pages 7 and 8 of 28); it appears based on the adjacency of that area to other HVAC system types, that the type that best matches that area is HVAC "Type B".

Response: Each Life Skills and Practicum Lab shall be served by the System Type of the System Zone in which it is located.

51. Question: There is a contradiction in the type of HVAC system required for the Automotive Lab and Culinary Arts Lab. Contract Specification D3000.00, I, A, 9, d, (5) list those two (2) areas as "Type D", and D3000.00, I, A,9, d,(8), (J), (vi) as "Type A".

Response: Both spaces shall be served by Type D systems.

52. Question: Verify that the Integrated Automation Control of HVAC Systems required by Contract Specification D8010.50 is to be fully hard wired at as indicated in I, B, 1, a, or if wireless technology if an acceptable installation.

Response: Wireless technology is not acceptable.

53. Question: Contract Specification D3000.00, I, A, 9, d, (4), (viii) on page 5 of 28 requires for the Stage to be provided with a "Type C" HVAC system and D3000.00, I, A, 9, (d), (9), (i) on page 8 of 28 requires for the Auditorium to be provided with three (3) separate air handling units that are "Type B" HVAC systems.

Is the Auditorium required to be provided with three (3) "Type B" air handling units and for one (1) of those units to cover the Stage, or is the Auditorium required to be provided with four (4) air handling units (three "Type B" and one "Type C")?

Response: Provide the Stage with one Type C system and the Auditorium hall with three Type B systems as specified.

54. Question: Contract Specification D3030.00, I, D, 5 requires primary and secondary chilled water hydronic loops, and D3020.00, I, D, 3 also requires primary and secondary heating hot water hydronic loops. In order to quantify in the bid the cost for all piping and equipment required to create those for HVAC hydronic loops, the following information is required:

- a. Are the primary hydronic loops the only ones receiving 30% propylene glycol?
- b. What type of heat exchanger is required to separate the primary and secondary loops (shell and tube, or plate and plate)?

c. Are all pumps for the HVAC hydronic loops required to be installed in Boiler Room #E105

Response:

- a. Provide propylene glycol in both primary and secondary chilled water loops.
- b. Provide heat exchanger types consistent with system types and applications.
- c. No. Hydronic pumps may also be located in Mechanical Room D228 and other mechanical and utility spaces as needed.
- 55. Question:

Contract Specification D3000.00, I, D, 4, b on page 15 of 28 requires for all spaces with an occupancy density of 25 people or more per 1000 sq. ft. to be provided with carbon dioxide (CO2) sensors for monitoring purposes. Verify that the contract intent for CO2 sensors is only for monitoring purposes, and if not, what HVAC action/sequence is expected from the HVAC serving those areas when there are elevated levels of CO2.

Response: Outside air modulation is not required for systems with constant-volume DOAS systems.

56. Question:

Contract Specification D3050.60, I, H, 1, b on page 3 of 5 requires for VAV boxes to be provided with 30% efficiency filters, and neither in that specification section D3050.60 or D3000. 00 indicates filter requirements for the fan powered boxes of "Type B" HVAC system. In order to quantify in the bid the cost for all air filtration required for the HVAC terminal equipment, the following information is required:

- a. Type of filter, if any, for fan powered boxes.
- b. Confirmation that VAV box is or to be provided with filters and indicate location for that filter (on the VAV box or ductwork).

Response:

- a. Provide 30% filters for fan-powered air terminals.
- b. Non-fan-powered VAV terminals do not require filters. See also Item B.2.p. above.
- 57. Question:

Contract Specification D3050.50, II, A, 2 requires for all exhaust ductwork for kitchen hoods to be constructed entirely of Type 304 stainless steel metal sheet and D3050.50, II, I, 2 and 3 requires for only exposed kitchen hood exhaust ductwork to be constructed a Type 304 stainless steel and the concealed part of that exhaust system to be constructed of carbon steel sheet metal. In order to quantify in the bid the cost for Kitchen and Culinary Arts Lab hood exhaust ductwork, the following information is required:

- a. Are the five (5) hood exhausts in the Culinary Arts Lab required to meet the same ductwork construction standards as the ones for the kitchen hood?
- b. Clarify the material requirements for construction of hood exhaust ductwork; is all of it to be stainless steel or only exposed sections

Response:

- a. Yes.
- b. Only exposed sections must be of stainless steel. Comply with the requirements of Section D3050.50, Paragraph II.I.
- 58. Question: Additional information is required for the type of pre-action type sprinkler system for the Electrical Rooms, Electrical Closets, MDF room, IDF Closet, Emergency Control Room and Back Up Emergency Control Room (Custodian's Office #D129). Contract Specification D4010.10, I, A, 8 and II, A to E does not provide sufficient information to price those pre-action systems. In addition, verify that pre-action sprinkler system is required in all Electrical Closets and IDF Closets.

Response: Double-interlock systems are not required. Pre-action sprinkler systems are required in all Electrical Closets and IDF Closets.

59. Question: Can the standpipe system for this project be a "Manual-Wet" type system in order for the fire pump to only be sized to satisfy the sprinkler requirements of the project?

Response: No. Provide an automatic standpipe system as specified.

- 60. Question: The approximate area indicated in Contract Drawing A-101 for Boiler Room #E105 is approximately 1,150 sq. ft. That area for the boiler room does not appear to be sufficient to house:
 - a. 12 gas fired hot water condensing boilers for building heating.
 - b. At least four (4) gas fired domestic water heaters and associated storage tanks for Domestic Water Heating Zones #3 and #5.
 - c. A heat exchanger for primary/secondary chilled water loop system.
 - d. A heat exchanger for primary/secondary hot water loop system.
 - e. Three (3) base mounted primary loop hot water heating pumps.
 - f. Air separator, propylene glycol feeder and expansion tank for primary loop hot water heating system.
 - g. Tow (2) base mounted secondary loop hot water heating pumps.
 - h. Air separator, chemical feeder, and expansion tank for secondary loop hot water heating system.
 - i. Three (3) base mounted primary loop chilled water-cooling pumps.

- j. Air separator, propylene glycol feeder and expansion tank for primary loop chilled water-cooling system.
- k. Two (2) base mounted secondary loop chilled water-cooling pumps.
- 1. Air separator, chemical feeder, and expansion tank for secondary loop chilled water-cooling system.
- m. Variable Frequency Drives (VFDs) for 10 base mounted pumps.
- n. Glycol Management Control panel for 24 ice storage tanks.
- o. Various automatic temperature control panels for all equipment in the boiler room.
- p. Water treatment/conditioning equipment for domestic water supply to building.

If additional space is required for all equipment that needs to be housed in Boiler Room #E105, where can that additional space be taking from?

Response: Pumps and other components may also be located in Mechanical Rooms D228, B23, D204, and other utility and mechanical spaces.

61. Question: Confirm that screw type fittings are not permitted for hydronic HVAC piping 2 ½" in diameter and smaller. Contract Specification D3050.10, II, A only refers to welded fittings for Schedule 40 steel piping and brazed or silver soldered for Type L copper piping.

Response: Comply with Section D3050.10 Paragraph II.A.1.

62. Question: Confirm that only "continuous welded" steel piping for hydronic HVAC pipes 2 1/2" in diameter and smaller, and "seamless electric resistance welded" steel piping for hydronic HVAC pipes 3" and above are permitted for steel piping material as indicated in Contract Specification D3050.10, II, A. Why not utilize the same type of steel pipe for both ranges of pipe sizes? [#406]

Response: See Item B.2.j. above.

63. Question: Can other types of joints and fittings be considered acceptable for installation of hydronic HVAC piping to the ones listed in Contract Specification D3050.10, II, A? Other types of joints and fittings commonly utilized for hydronic HVAC piping installations are:

- a. Press fit pressure sealed joints.
- b. Mechanically formed tee-branch.

Response: The Design-Bidder shall use types of joints and fittings as specified in the Design-Build Information Package.

64. Question: The domestic water source for the school is indicated in Contract Drawing C-05 to connect to the municipal water main in Chamberlain Avenue, and the hydrant flow test results for the water main in that street indicate only a residual pressure of 31 PSI. Verify if a water storage/buffer tank is required for the domestic water supply to the school.

Response: See the revised Utility Investigation Report dated May 28, 2019 and included in Addendum #3 as Attachment 3.01. It is the responsibility of the Design-Builder to determine the requirements of the domestic water system in accordance with all Project requirements and applicable codes.

- 65. Question: The Utility Investigation Report included in the Bid Documents and Contract Specification G3000.00 does not provide any information with respect to the available gas pressure to service the proposed school. In order to quantity in the bid the cost for gas booster pressure pumps or gas pressure reducing equipment, the following information is required:
 - a. What is the available gas pressure of the proposed gas service to the school?
 - b. If the service is low pressure and not sufficient to service the two (2) emergency generators, twelve (12) boilers, twelve (12) domestic water heaters, etc., and a gas booster pump is necessary, provide information on the required location for the gas booster pump.
 - c. If gas booster pressure equipment is required, provided specifications for that system and indicate if it needs to be a simplex or duplex pump system.
 - d. If gas booster pressure equipment is required, is a single system required for the entire school, or two (2) separate systems (one for dedicated service to emergency generators and another system for the rest of the gas fired equipment).
 - e. If gas booster equipment is required, how will the gas booster pumps be powered, when normal power is lost, in order to initiate operation of the gas booster (there will be at least an 8 to 10 second delay between transferring from normal to emergency power)?

Response: No information on gas service pressure has been or will be provided. Design-Builders are referred to the service provider for additional information.

66. Question: Contract Drawing C-04 indicates the requirement for three (3) Storm Water Management Basins (SWM Basin #1, SWM Basin #2 and SWM Basin #3). There is also information in the Utility Investigation Report included in the Contract Documents related to those three (3) storm water management basins. However, in order to quantify in the bid the cost for

underground storm piping under the first-floor slab, the following additional information is required:

- a. What section of the school building drains to each Storm Water Management Basin?
- b. Key invert elevations on Contract Drawing C-04 for the proposed stormwater drainage system.

Response: The stormwater design provided is schematic in nature and does not represent a complete design. The Design-Builder shall be responsible for the stormwater system design based on the applicable manufacturer and product utilized, noting the Authority's specified requirements.

- 67. Question: The design criteria refer to a vapor barrier but does not give minimum mil thickness or maximum permeance rating. Please provide.
 - Response: See Section A6020.20, Radon and Vapor Intrusion Mitigation, Paragraph I.A.3.a. A chemical vapor barrier is not required.
- 68. Question: Please confirm that driven piles are not acceptable for installation. There is a large cost differential between driven piles and the alternative.

Response: Confirmed. Driven piles are not acceptable.

69. Ouestion: The preliminary geotechnical report provided within the specifications reveal that the deep foundation system requires bearing lengths of piles to be 100-ft plus. The specifications lead the prospective bidders away from driven piles. However, deep pile foundation using driven piles would accommodate the structural loads and provide a competent and structurally sound foundation. There are engineering limitations to move away from driven piles due to this site's geology. Alternate engineering methods are limited, and each would have nearly the same installation equipment with the same local noise and vibration that driven piles would influence. Either installation method would accomplish the same result. Consideration for driven piles is recommended as this provides for the best quality assurance while meeting the goals for installation. The use of driven piles would allow for the most cost competitive design for the prospective bidders. Acknowledgement that driven piles are allowed is requested.

Response: Not confirmed. Driven piles are not allowed.

70. Question: Has a hydraulics study been completed for the relocation of the existing stormwater pipe in the center of the existing site? If not, will information be provided on the amount of flow entering this pipe so that the design-builder can use for the purpose of coordinating with the City and NJDOT.

Response: The stormwater design provided is schematic in nature and does not represent a complete design. The Design-Builder shall be responsible for

the stormwater system design based on the applicable manufacturer and product utilized, noting the Authority's specified requirements.

71. Question: Please confirm if the design-builder is required to conduct a hydraulics

study of the existing and relocated storm sewer pipe. If so, we would recommend providing an allowance for this task as it would be difficult to define the extent of scope without knowing the drainage area limits

flowing to this pipe.

Response: The stormwater design provided is schematic in nature and does not

represent a complete design. The Design-Builder shall be responsible for the stormwater system design based on the applicable manufacturer and

product utilized, noting the Authority's specified requirements.

72. Question: We are hereby requesting a 4 weeks extension of time for the bid

submission.

Response: See Addendum No.4, Item A.1.b., which extended the due date for

submission of Technical and Fee Proposals to the Authority until 2:00 PM

(Eastern Time) on July 30, 2019.

73. Question: In reference to Kitchen Hood/Ventilation System: This is not included in

the Foodservice Specification Section; it is shown on the drawing but is not included in the Equipment Schedule. The drawing is noted: Provide kitchen hood per all equipment & appliances as noted on kitchen sheet. We are unable to locate the "Kitchen Sheet". Please provide or specify a

manufacturer for the kitchen hood.

Response: See Performance Specifications Section E1030.80, Food Service

Equipment.

74. Question: In reference to Section D6000, II, Products, Part A: Proprietary

Specifications states that "the following products have been approved by the Authority for proprietary specification and use in this project" and then it lists various products for certain categories. The specifications list 'Lenel' for the video surveillance system that is supposed to integrate with the access system, but they do not list an access control system. Is there a

proprietary access control system?

Response: No.

F. CHANGES TO PREVIOUS ADDENDA:

(Not applicable)

ATTACHMENTS

Attachment 5.01	Table B2010.00-1, Schedule of Masonry Types, June 26, 2019.
Attachment 5.02	Pages C-70 to C-71
Attachment 5.03	Pages C-98 to C-99
Attachment 5.04	Pages C-126 to C-134
Attachment 5.05	Page C-159
Attachment 5.06	Page C-201
Attachment 5.07	Drawing E43
Attachment 5.08	Drawing E73
Attachment 5.09	Drawing E74
Attachment 5.10	Drawing E76
Attachment 5.11	Drawing E78
Attachment 5.12	Drawing E94
Attachment 5.13	Drawing E119
Attachment 5.14	Drawing E119A

H. SUPPLEMENTAL INFORMATION

(Not applicable)

Any bidder attempting to contact government officials (elected or appointed), including NJSDA Board members, NJSDA Staff (except for Procurement), Selection Committee members, NJSDA Consultants, and School District officials for information relating to this project or in an effort to influence the selection process may be immediately disqualified.

End of Addendum No. 5

Program Director

Concago Minerenii



Addendum No. 5

NJSDA 32 E. Front Street Trenton, NJ 08625 Phone: 609-858-2984

DATE: June 28, 2019

PROJECT #: ET-0099-B01

DESCRIPTION: New Perth Amboy High School

Addendum No. 5

Acknowledgement of Receipt of Addendum

Contractor must acknowledge the receipt of the Addendum by signing in the space provided below and returning via email to Marty Taylor at mataylor@njsda.gov. Signed acknowledgement must be received prior to the Bid Due Date. Acknowledgement of the Addendum must be made in Section F.5 of the Price Proposal Submission for Design Build Projects.

Signature	Print Name
Company Name	Date