STATE OF NEW JERSEY
SCHOOLS DEVELOPMENT AUTHORITY
32 EAST FRONT STREET
P.O. BOX 991
TRENTON, NJ 08625-0991
609-943-5955

Addendum #5

New Jersey Schools Development Authority
Office of Procurement
32 East Front Street
Trenton, NJ 08625
Phone: 609-858-2984
Fax: 609-656-4609

Date: **September 8, 2014**

PROJECT #: **EL-0042-B01**
New Elementary School
Elizabeth Public Schools

DESCRIPTION: **Addendum #5**

This addendum shall be considered part of the Design-Build Information Package issued in connection with the referenced project. Should information conflict with the Design-Build Information Package, this Addendum shall supersede the relevant information in the Design-Build Information Package.

A. CHANGES TO THE PROCUREMENT PROCESS

1. Not applicable.

B. CHANGES TO THE PROJECT MANUAL

1. Not applicable.

C. CHANGES TO THE EDUCATIONAL SPECIFICATIONS:

1. Not applicable.

D. CHANGES TO THE DRAWINGS:

1. Not applicable.

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

Question 1: Please confirm that minimum window STC ratings shall be STC 35 per NJSDA's Materials and Systems Standards B2020 C.4

Answer: Materials and Systems Standards B2020 C.4 indicates: "The minimum STC value for all aluminum framed exterior fenestration shall be STC 35 when tested for laboratory sound transmission loss according to ASTM E90 and as determined by ASTM E413". Refer also to the Answer to Addendum #2: Questions #11 and #89.

Question 2: Are there any impact resistance requirements for the exterior windows, other than the use of laminated glass in the gymnasium?

Answer: The Design-Builder must comply with the requirements of all project requirements and applicable codes and standards, including but not limited to "Best Practices for Schools Under Construction or Being Planned For Construction" (Current Version) available at the following: http://www.state.nj.us/dca/divisions/codes/alerts/pdfs/2008_11_10_bps_school_construction.pdf

Question 3: Please confirm that the exterior doors and windows at the main entrance and lobby vestibule do not require bullet resistant glazing.

Answer: Bullet resistant glazing the exterior doors and windows at the main entrance and lobby vestibule is not a requirement for this project.

Question 4: Drawing A-8 indicates that the interior door from Stage C-119 to the ramp at Corridor A-114 is to be FRP-2 (aluminum frame and FRP door). Is this to be aluminum/FRP or can this be hollow metal frame with wood door to match other openings in the area?

Answer: The door from Stage C-119 to the ramp at Corridor A-114 shall be wood door type 'D-6'. The door from Corridor A-114 to the exterior shall be door type 'FRP-2'.

Question 5: Please confirm that the window/door opening between the Computer Lab A-113 and the Media Center A-112 is to be aluminum as opposed to hollow metal and wood to match all other openings in the area.

Answer: The window/door opening 'AL-2' identified in Elevation Detail '3', Aluminum Frames and Doors (Interior) shall be hollow metal with wood door type 'D-2'.

Question 6: The answer to Addendum #2 Question #51 stating that the detrimental effects to existing utilities related to vibration, dewatering, etc., are the responsibility of the Design-Builder appears to be incorrect since the condition of the existing utilities

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as well as the capacity of these utilities to withstand the effects of vibration, dewatering, etc., related to the proposed work are unknown conditions. Please confirm that any change to the work related to these unknown conditions shall be considered a differing site condition as defined by Article 8.7 of the Design-Build Agreement.

Answer: No. The answer to Question #51 in Addendum #2 remains unchanged.

The KSE Geotechnical Investigation Phase II Report dated June 9, 2014 shall be revised as follows:

1. Section 6.8.1, Televising: Add the following: "Copies of televising reports should be provided to the utility's governing authority. If damage is noted during televising operations the contractor shall immediately report such damage to the project's construction manager and the utility's governing authority. Televising should be executed in accordance with the standards and specifications by the utility's governing authority."

2. Section 6.8.2, Settlement Monitoring: Add the following: " Copies of settlement monitoring reports should be provided to the utility's governing authority. If settlement is noted during inspection operations the contractor shall immediately report such settlement to the project's construction manager and the utility's governing authority."

3. Section 6.8.3, Vibration Monitoring: Add the following: "Copies of vibration monitoring reports should be provided to the utility's governing authority. If damage is noted during monitoring operations the contractor shall immediately report such damage to the project's construction manager and the utility's governing authority."

Question 7: The answer to Addendum #2 Question #67 regarding unknown subsurface debris states "See Section G0000.00 Sitework, Paragraph I.B.1" but no such section exists and this answer does not respond directly to the question. Please confirm that the Design-Builder shall be compensated for the removal of all subsurface debris that has not been identified by the Contact Documents, since this is an unknown condition.

Answer: It has been verified that Section G0000.00 does exist in Volume 2 of the Project Manual. Please refer to the Table of Contents page 4 of 6, Element G. The reference paragraph I.B.1 very clearly addresses the question.

Question 8: The Geotechnical Investigation Report by KSE dated Final Issued June 9, 2014, in Article 6.5 entitled "Moisture Sensitive Soils," states that "materials from this stratum could be used as general non-structural fill material (landscape areas) to

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include under the structure (non-vehicular areas) as long as the building itself is supported on underlying competent natural rock stratum…" Please confirm whether this statement may be interpreted to mean that moisture sensitive soils from on-site sources shall be acceptable for use as fill under the building structure provided the building is supported on the underlying rock stratum.

Answer: Yes, the moisture sensitive soils, as depicted in Section 6.5 of the geotechnical investigative report, may be used as fill under the proposed school structure provided the building is supported on the underlying competent rock stratum.

Question 9: Confirm whether the use of historic fill from on-site sources shall be acceptable for use as fill under the building structure.

Answer: Refer to Section 4.3.1 of the June 9, 2014 Remedial Action Workplan (RAW) prepared by Brinkerhoff Environmental Services, Inc. Historic fill material destined for on-site reuse beneath the presumptive remedy, must meet geotechnical requirements referenced in the "Geotechnical Feasibility Investigation Phase II" prepared by KS Engineers, P.C. (KSE), last revised August 13, 2014 (Addendum No. 4)

Question 10: The Model Schools Materials and Systems Standards Section A10-Foundations designates rammed earth aggregate footings as an unacceptable system. In the interest of limiting the effects of vibration at the project, especially in the vicinity of existing utilities including the Joint Meeting Trunk Sewer, we ask that consideration be given to allowing the use of rammed earth aggregate footings at the project.

Answer: No. Foundation recommendations are presented in the Geotechnical Feasibility Investigation (referenced in Question #9 above) and include driven piles or drilled foundations. In accordance with Article 1 of the Geotechnical Feasibility Investigation " The Design Build Team assigned to the project, shall prepare any and all additional geotechnical investigations and analysis it deems technically and professionally necessary to meet all present code or otherwise, and shall determine the appropriate foundation and structural system and geotechnical improvements for their design."

Question 11: Addendum #2 refers to optional sustainable design features for exterior sun control devices and rainwater harvesting as being included at the option of the Design-Builder. Please clarify whether such items are to be addressed as Alternates to the Base Bid, and if so, please note that the Bid Proposal Form shows no provision for Alternate prices.

Answer: No, the sustainable items are not considered Alternates to the Base Bid.

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Question 12: In lieu of being limited to a proprietary product for the BMS system, confirm whether it will be acceptable for the BMS system to be open protocol so that other vendor's systems may be used in order to facilitate competition and reduce the project costs.

Answer: No, it is not acceptable to revise the proprietary product for the BMS system.

Question 13: The answer to Addendum #2 Question #34 stated that the Design-Builder is responsible for renewal of all applicable permits. Please provide a list of all applicable permits along with their expiration dates and the fees associated with each renewal.

Answer: A list of anticipated permits and approvals for this project can be found in Section 5.0 of the "Executive Order No. 215 Environmental Assessment", prepared by Brinkerhoff Environmental Services, dated June 9, 2014. The NJSDA is in the process of obtaining approvals for a NJDEP Flood Hazard Individual Permit, NJDEP Treatment Works Approval and related Joint Meeting and City of Elizabeth sewer extension approvals; a NJDEP Freshwater Wetlands Letter of Interpretation (LOI) has been obtained for the project and expires on July 17, 2019. Brinkerhoff on behalf of the NJSDA has prepared the RAW referenced at Item No. 115 above. With the exception of the LOI it is not possible to provide expiration dates since the required permits have yet to be obtained. Permits fees for each approval/permit which the Design Builder is responsible for should be confirmed by the Design Builder by contacting the appropriate agency.

Question 14: "The Preliminary Assessment Report dated June 9, 2014 as prepared by Brinkerhoff Environmental Services references AOC-10 - Area of Bare Soil as "bare soil and stressed vegetation along the utility easement. It is unknown at this time whether application of historic herbicides were utilized to control vegetation or the chemistry of the backfill materials precluded the material vegetation of the immediate area. Therefore, further investigation of this AOC is recommended." Also, Geotechnical Investigation Report by KSE dated Final Issued June 9, 2014, in Article 3.0 entitled "Field Exploration Program," states that "the grass of the athletic fields that the sewer crosses under had a noticeably different color and was noticeably shorter than the grass on either side."

Please clarify the following:

a. Who is responsible for further investigation of AOC-10?
b. The Answer to Addendum #2 Question #66 stating that the TAL/TCL parameters list does not include historic herbicides appears to disagree with the above reference to historic herbicides as an unknown condition. Which is correct?
c. Confirm whether the above observations are conditions related to the leakage of sewer gas emanating from Joint Meeting Trunk Sewer, and if so, please clarify

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who is responsible for controlling and/or monitoring this condition, and how this condition is to be treated with respect to the proposed work."

Answer: a.) The Design Builder is responsible for taking the steps necessary to obtain approval for the design of the presumptive or alternative remedy as discussed in Addendum #2, Question No. 57.
b.) The need to further investigate historic herbicides is not required if the presumptive remedy is instituted. However if soil is removed to an offsite disposal facility, the receiving facility should be contacted to determine the appropriate standards by which they will accept soil material.
c.) In the absence of soil contamination, the lack of vegetative cover is likely attributed to a thermal effect from the combined sewer. Specifically, due to the shallow nature of the combined sewer (less than 18 inches of cover) a higher than normal temperature condition exists surrounding the sewer which has resulted in reduced biological activity and soil moisture necessary to support plant growth.

Question 15: "The answer to Addendum #2 Question #89 stated that "the NJSDA 21st Century Design Manual (May 2007) does not apply to the Authority's Design-Build projects" which appears to be in conflict with the Model Schools Materials and Systems Standards, Section C1010.10.5, Table of Assemblies and Materials (TAM) which indicates that "the TAM incorporates and considers" the NJSDA 21st Century Design Manual (May 2007). Please clarify the following:

a. The NJSDA-required 35 dBA/55dBC limit in all core learning spaces as referenced by the Noise Study Report is drastically different from the 45 dBA rating for same as referenced by the NJSDA 21st Century Design Manual (May 2007), which appears to indicate that the assemblies indicated by the existing Model Schools Materials and Systems Standards, Section C1010.10.5, Table of Assemblies and Materials (TAM) do not apply to the project. Confirm whether this is correct, and if so, please furnish the revised TAM showing the correct assemblies that are applicable to bidding on the project;
b. The Noise Study Report refers to the requirement to ensure that noise levels generated by the HVAC system will meet the NJSDA-required 35 dBA/55dBC limit in all core learning spaces, but meeting this requirement may not be available from the Basis of Design manufacturers for the HVAC equipment as listed by Section D3000.00-Heating, Ventilation and Air Conditioning (HVAC). Please confirm how the inability of named manufactures to comply with the NJSDA acoustical standards for the project will be addressed by the NJSDA."

Answer: a. The 45 dBA rating as referenced by the NJSDA 21st Century Design Manual (May 2007) and the Design Manual (May 2007) do not apply to this project. The Model Schools Materials and Systems Standards, Section C1010.10.5, Table of Assemblies and Materials (TAM) do apply to the project, however, to the extent necessary to meet all project requirements and applicable codes and standards.

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This includes, but is not limited to: ANSI / ASA Standard S12.60 (current version), "Acoustical Performance Criteria, Design Requirements and Guidelines for Schools" and the requirements of The Noise Study prepared by Paul Carpenter Associates dated June 4, 2014 and other presiding acoustical requirements.

b. The information in the Design-Build Information Package takes precedence over the 21st Century Design Manual. It is the responsibility of the Design-Builder to design a complete HVAC system that complies with 35dBA/55dBC standard. NOTE: Blower coil units are an acceptable alternative to fan coil units in classrooms and other spaces where fan coil units are indicated.

Question 16: The answer to Addendum #2 Question #68 regarding presumptive remedies for PCB's states that the remedial strategy must comply with the NJDEP presumptive remedies as discussed in Section 4.7 of the Remedial Action Workplan, but this section shows no reference to PCB's. Please respond again to Addendum #2 Question #68 with a more specific answer that clearly addresses the following request for information;

a. Confirm whether PCB's are site wide and have been investigated and delineated, whether the site wide cap has to meet presumptive remedies for PCB's, and advise how the SDA proposes to address and deal with PCB's at the site."

Answer: The PA did not identify historic land use as a potential source of PBCs, and soil sampling during the SI did not identify concentrations of PCBs above regulatory standards. The detection of PCBs in soil sampling for waste classification at a concentration of 0.240 mg/kg is therefore considered anomolous. The sitewide cap does not anticipate a presumptive remedy for PCBs; however, offsite disposal of soil (if necessary) should consider the possibility for PCBs in soil.

Question 17: Please furnish a site plan defining the extent of the granite curbing referenced by Addendum #2.

Answer: The extent of the granite curbing is approximately 120 Linear Feet (LF). Approximately 60 LF surrounds the planting bed near the flag pole and building sign and 60 LF surrounds the planting bed between the gate and Cole Place.

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Question 18: Being that there are over a dozen questions listed by Addendum #2 that have not yet been answered, please consider extending the deadline for questions beyond August 18, 2014 to allow time for the submittal of questions that may arise after the receipt of this pending information.

Answer: No further extension of time is to be permitted.

F. CHANGES TO PREVIOUS ADDENDA:

1. **Changes to Addendum #2:**

   a. **In subsequent Addendum. SDA now responds to those questions as follows:** NOTE: Response in #1 below is a clarification of Addendum #2 Question 24.

      1. Question 24: Science Lab, Grades 6-8: Educational Specifications reference the need to store chemicals. Will acid waste piping and an acid neutralization tank be required? If so, is it required for only the Grade 6-8 Science Labs or the Science Demonstration rooms as well?

         Answer: An acid waste system including but not limited to acid resistant plastic piping and an acid neutralization tank is required. Sinks in the demonstration desks and the fume hood in all Science Classrooms/Labs (Rooms B-218, B-317, B-318, B-319, B-419, & B-420) and in the Science Prep Rooms (B-319A and B-421) should have an acid waste piping system. Provide one 55-gallon acidic waste neutralization tank in Room A113-C (Custodial Closet), with venting as required by code. Provide code-compliant polyethylene waste piping from teachers' demonstration sinks in Science Labs and Demonstration Rooms to neutralization tank. Basis of Design for tank: Zurn Model No. Z9A-NT-55.

G. ATTACHMENTS

1. Attachment 5.1 KSE letter to JMEUC, dated August 28, 2014.

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SCHOOLS DEVELOPMENT AUTHORITY

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Addendum #5

New Jersey Schools Development Authority
Office of Procurement
32 East Front Street
Trenton, NJ 08625
Phone: 609-858-2984
Fax: 609-656-4609

Date: **September 8, 2014**

PROJECT #: **EL-0042-B01**
New Elementary School
Elizabeth Public Schools

DESCRIPTION: **Addendum #5**

Acknowledgement of Receipt of Addendum

Contractor hereby acknowledges the receipt of this Addendum by signing in the space provided below and returning via fax to (609-656-4609) or E-mail (MAtaylor@njsda.gov). Signed acknowledgements must be received prior to the Bid Due Date. Acknowledgement of the Addendum must be made in Section E.6 of the Price Proposal Submission.

_____ _____
Signature Print Name

_____ _____
Company Name Date

KSE Engineers . Surveyors . Construction Managers
KS Engineers, P.C. 494 Broad Street, 4th Floor, Newark, NJ 07102 . P: 973.623.2999 . F: 973.242.2955 . www.kseng.com

August 28, 2014

Mr. Stephen Dowhan
Superintendent
Joint Meeting of Essex and Union Counties
500 South First Street
Elizabeth, NJ 07202

RE: PROPOSED ELIZABETH ELEMENTARY SCHOOL
NEW JERSEY SCHOOL DEVELOPMENT AUTHORITY
ELIZABETH PUBLIC SCHOOL DISTRICT
447 RICHMOND STREET
ELIZABETH, NEW JERSEY 07202
KSE Project # 2013-1407

Dear Mr. Dowhan:

KSE has reviewed your correspondence of July 28, 2014 regarding the above referenced project and offer the following in responses to your items of concern.

a) *"Reference is made to performing a video inspection of the JMEUC parallel trunk sewers before and after project construction. No specifics are contained as to CCTV equipment and inspection method(s) to be employed (above surface, below surface Sonar, Zoom, etc.), appropriate methodology, as well as the requisite time period to inspect same (low-flow, early morning). This information and associated requirements should be contained within either the "Specifications" or the "Site Utilities Protection Plan". Please advise / confirm as to its designated location and provide the Joint Meeting with a copy of same for review / acceptance."*

KSE has added the following sentence to Section 6.8.1 of the Geotechnical Investigation Phase II report; *"Televising should be executed in accordance with the standards and specifications by the utility's governing authority."*

The ultimate responsibility of providing a specification and obtaining approval for the CCTV inspections of the utilities belongs to the Design-Build Team assigned to the project. The Design-Build Team will submit copies of the CCTV inspection specification along with any other supporting documentation to the New Jersey School Development Authority (NJSDA) for a cursory review. Upon advisement of the NJSDA, the Design-Build Team will formally submit the documentation to the JMEUC for final review and approval, prior to commencement of work.

b) *"Reference is made to the performance of "Ground Vibration Monitoring" within the JMEUC easement. As with item a) above, no specifics are contained as to methodology, quantity, locations, frequency, etc. This information and associated requirements should be contained within either the "Specifications" or the "Site Utilities Protection Plan". Please advise / confirm as to its designated location and provide the Joint Meeting with a copy of same for review / acceptance."*

Accompanying this letter KSE has provided hard copies of the following two documents that are cited in Section 6.8.3 of the Geotechnical Investigation Phase II report. These documents are vibration and noise monitoring standards that KSE recommends to the contractor to follow during construction while within close proximity to a structure, in this case the JMEUC sewer and City of Elizabeth CSO-040.

1. National Cooperative Highway Research Program, NCHRP Synthesis 253, Dynamic Effects Of Pile Installations On Adjacent Structures; By Richard D. Woods, PhD., PE, University of Michigan; Transportation Research Board National Research Council, Dated 1997. (Cited in Section 6.8.3 of the referenced geotechnical report)
2. U.S. Department of Transportation, Federal Transit Administration; Transit Noise And Vibration Impact Assessment, FTA-VA-90-1003-06; By Harris Miller Miller & Hanson Inc., Dated May 2006. (Cited in Section 6.8.3 of the referenced geotechnical report)

The ultimate responsibility of providing a specification for monitoring the utilities belongs to the Design-Build Team assigned to the project. The Design-Build Team will submit copies of the ground vibration monitoring specification along with any other supporting documentation to the New Jersey School Development Authority (NJSDA) for a cursory review. Upon advisement of the NJSDA, the Design-Build Team will formally submit the documentation to the JMEUC for final review and approval, prior to commencement of work.

c) In review of the JMEUC's request to provide; "*a reasonable "Course of Action", one that will guarantee the integrity of our twin trunk lines prior to, during and subsequent to said construction activities.*" KSE offers the following for your consideration.

KSE is unable to provide the JMEUC with a guarantee of integrity to the twin trunk sewer lines; this responsibility belongs to the Design-Build Contractor and his design team.

KSE has provided, in the Geotechnical Investigation Phase II report, the Design-Build Team, an awareness of, and construction recommendations for, the proposed school building construction being within close proximity of the JMEUC trunk sewer.

Mr. Stephen Dowhan, Superintendent
Joint Meeting of Essex and Union Counties
RE: Proposed Elizabeth Elementary School
NJ School Development Authority
Elizabeth Public School District
KSE Project # 2013-1407
August 28, 2014

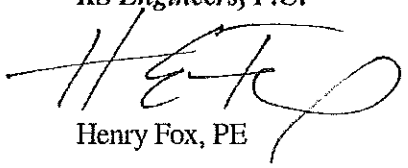
KSE has made the following additions to the Geotechnical Investigation Phase II report

1. Section 6.8.1, Televising: The following sentences have been added. *"Copies of televising reports shall be provided to the utility's governing authority. If damage is noted during televising operations the contractor shall immediately report such damage to the project's construction manager and the utility's governing authority."*
2. Section 6.8.2, Settlement Monitoring: The following paragraph has been added. *"Copies of settlement monitoring reports shall be provided to the utility's governing authority. If settlement is noted during inspection operations the contractor shall immediately report such settlement to the project's construction manager and the utility's governing authority."*
3. Section 6.8.3, Vibration Monitoring: The following paragraph has been added. *"Copies of vibration monitoring reports shall be provided to the utility's governing authority. If damage is noted during monitoring operations the contractor shall immediately report such damage to the project's construction manager and the utility's governing authority."*

The ultimate responsibility of reporting belongs to the Design-Build Team assigned to the project. The Design-Build Team will submit copies of the CCTV, settlement, and vibration monitoring reports along with any other supporting documentation to the New Jersey School Development Authority (NJSDA) for a cursory review. Upon advisement of the NJSDA, the Design-Build Team will formally submit the documentation to the JMEUC. It shall be the responsibility of the Design-Build Team to monitor the CCTV investigation and the results of the vibration/settlement monitoring and to immediately stop the work and notify all parties should any adverse affects on the JMEUC Sewer be observed.

We appreciate your consideration of our proposed revisions to the geotechnical report. Please confirm in writing that the specific recommendations for geotechnical and foundation improvements contained, herein, are acceptable to the JMEUC for this project. If you should have any questions please contact me at your convenience.

Very truly yours,
KS Engineers, P.C.



Henry Fox, PE

cc: Frank A. Frega, PE
George Broberg, PE

Enclosures:: Geotechnical Investigation Phase II report
National Cooperative Highway Research Program
U.S. Department of Transportation, Federal Transit Administration