



Appoquinimink School District
THE WORLD IS OUR CAMPUS

STATE OF DELAWARE
Appoquinimink School District

December 08, 2017

TO: ALL OFFERORS

FROM: Bob Hershey

SUBJECT: ADDENDUM TO REQUEST FOR PROPOSAL NO. 4:
Appoquinimink School District
The New Whitehall Elementary School
Bid Package A

ADDENDUM NO. 4

TO

**APPOQUINIMINK SCHOOL DISTRICT
THE NEW WHITEHALL ELEMENTARY SCHOOL
BID PACKAGE 'A'
MIDDLETOWN, DELAWARE**

This addendum is hereby made part of the Project Manual and Drawings dated October 13, 2017.

The Project Manual and Drawings shall be supplemented or amended as specified herein.

This Addendum contains changes to the requirement of the Project Manual. Such changes shall be incorporated into the Contract Documents and shall apply to work with the same meaning and force as if they had been included in the original Documents. Whenever this Addendum modifies a portion of a paragraph of the Project Manual, the remainder of the paragraph affected shall remain in force. Added information is shown as **Bold**, deleted information is shown as ~~strikethrough~~.

This Addendum contains changes to the requirement of the Drawings. Such changes shall be incorporated into the Contract Documents and shall apply to work with the same meaning and force as if they had been included in the original Documents. Whenever this Addendum modifies a portion of any

drawing, the remainder of the drawing affected shall remain in force. Added, deleted or revised information is shown as "clouded".

The conditions and terms of the basic Contract Documents shall govern work unless otherwise described in this Addendum. Whenever the conditions of work, and the quality or quantity of materials, or workmanship are not fully described in this Addendum, the conditions of work included in the basic Contract Documents for similar items of work shall apply to the work described in this Addendum.

If no similar items of work are included in the basic Contract Document, the best quality of material and workmanship shall apply and all work shall be subject to the written acceptance of the Architect.

It should be noted that the bid due date has been extended. Bids shall now be due on 14 December 2017 at 2 PM at the Marion Profitt Training Center 118 South Sixth Street, Odessa, DE 19730.

The contract documents for the above referenced project, dated October 13, 2017 are amended as follows:

GENERAL CLARIFICATIONS:

- 1.) The attached substitution for Section 230450 Ductless split system by Samsung has been approved.

QUESTIONS AND ANSWERS: (1 – 27 answered in Addendum No. 1, 28 – 37 in Addendum No. 2)

- 38.) Please confirm that the following systems are the only systems to be used on the project. As publicly funded projects usually allow for multiple bidders. Security Instruments was hoping these systems would be opened up to more than one manufacturer. Please confirm.
 - a. The Intrusion Detection System (280725) is locked to Delmarva Systems who is no longer in business, using Detection Systems as a product that is no longer in business.
 - b. The Integrated Access Control & Security Management System (280727) is locked to Software House CCure 9000 System.
 - c. The Fire Alarm and Detection Systems (280721) is locked to Simplex only.

Answer:

Refer to Addendum #1 question #10.

- 48.) 1.) 5/S6.2 - Non-Load Bearing CMU Wall Bracing Details indicates bracing requirements at a variety of conditions with clips typically at 4'-0 on center, or at structural steel member spacing. This seems to imply that wall bracing would not be needed at load bearing masonry walls. Confirm the steel contractor should include F & I of steel bracing of Non-Load Bearing CMU Walls only per this set of details.

2.) 1/A6.0, 2/A6.0 & 8/A6.0 indicate continuous angles fastened 12" on center on both sides of fire-rated and non-rated Interior CMU walls with G.W.B. spacers added at the rated walls. Where in the building are these details to be followed in place of details from 5/S6.2? Advise which prime contractor should include F & I of the continuous angles for bracing interior fire-rated masonry walls. Advise which prime contractor should include F & I of the G.W.B. spacers at bracing for interior fire-rated masonry walls. Advise which prime contractor should include F & I of the continuous angles for bracing interior non-rated masonry walls.

3.) 3/A6.0, 4/A6.0, 5/A6.0 & 6/A6.0 indicate continuous angles fastened 12" on center on both sides of fire-rated interior stud partition with G.W.B. spacers added between angles and wall. Advise which prime contractor should include F & I of the continuous angles for bracing interior fire-rated stud partition walls. Advise which prime contractor should include F & I of the G.W.B. spacers at bracing for interior fire-rated stud partition walls.

Answer:

- 1.) Bearing walls do not need to be braced per typical detail. Bearing walls are braced by floor or roof framing and detailed in the framing sections. Contract A-04 Structural Steel & Miscellaneous Metals shall furnish and install steel bracing of non-load bearing CMU walls.
- 2.) Details 1/A6.0 and 2/A6.0 occur at firewall between first floor Area "B" to lower level Area "C". Detail 8/A6.0 occurs at all other rated or non – rated CMU walls. Angle size shall be per detail 5/S6.2. Contract A-04 Structural Steel & Misc. Metals shall supply steel angles to Contract A-07 Metal Studs and Drywall for installation. Contract A-07 Metal Studs and Drywall shall provide 2.5" wide piece of gyp (G.W.B. Spacers).
- 3.) Contract A-04 Structural Steel & Misc. Metals shall supply steel angles to Contract A-07 Metal Studs and Drywall for installation. Contract A-07 Metal Studs and Drywall shall also provide 2.5" wide piece of gyp (G.W.B. Spacers).

58.) Per the fence detail on CG507:

a. All manufactured listed do not manufacture a 5/8" solid picket they use tubular. Will other sizes be acceptable or are we limited based on 5/8" dimension? Please confirm.

b. In regards to pickets having finial tops that can be removed and pose a safety hazard. Would owner consider a flat rail top across pickets?

c. Also on the sitework bid form Alternate No. 2 and 3 are the same. I believe Alt. No 3 should be Playground Equipment (3A, 3B, 3C)

Answer:

- a. Tubular pickets will be acceptable. Manufacturer picket sizes to be ¾" or 1".
 - b. Assume flat or rounded finials as shown on the Fence Detail. Owner to have option to consider flat rail top during product submittal.
 - c. See modified bid form in Addendum #2.
- 59.)
1. Sheet A10.3 shows PT-3 in bathrooms C105 and C106 as a floor finish. However, the finish schedule states PT-1 is the floor finish. The only Porcelain floor tile finish that could be found in the color schedule/finish schedule was PT-1. Please clarify what PT-3 is and whether or not it is to be installed in bathrooms C105 and C106 or if this is just an error on the drawings.
 2. Wall elevations show bullnose capping the tile wainscot. Sheet A9.11 states that Anodized Aluminum Corner trims are to be provided at all outside corners in the bathrooms. Are they corner guards installed by others or are they Schluter trim pieces? I do not recommend mixing bullnose and Schluter trim it usually gives an unsightly finish where the two materials meet.
 3. 6x6 Quarry tile base is listed in the color schedule but is nowhere to be found. Could you please clarify whether or not we are required to provide any quarry tile base in areas C131 and C132 where quarry tile can be found? We DO NOT recommend installing quarry base at the walk in boxes do to issues bonding quarry to the metal walk in box.
 4. Ceramic Tile Scope of Work item #9 asks for vapor retarding sealer. Is this part of the installation or necessary? Please clarify.
 5. Ceramic Tile Scope of Work item #12 asks us to provide patching and leveling. At the bidding stage of this project it is not possible to determine the extent of how much leveling/patching is needed. We are aware that this is new concrete and is expected to be flat/level. However, there is a gap in the concrete spec requirements for acceptable work and what is an acceptable substrate for ceramic tile. Substrates for ceramic tile must be flat and level to within a ¼" in 10'. The concrete spec is not as strict. It is the position of the NTCA and TCNA that bidding of patching and leveling of substrates to receive ceramic be done using an allowance. Is the allowance at SOW #22 to be used for this or will there be a separate allowance for ceramic tile substrate repair?
 6. It is a little unclear what walls get ceramic tile in the Corridors, Stairs and other areas for Alternate 10. Can the architect please provide a wall finish plan or highlight exactly which walls get tiled?
 7. This has been addressed by several others but specs for ceramic tile install methods are not clear. Please specify: 1. TCNA install method, 2. where waterproofing/crack isolation membrane is to go and if it is full or partial coverage, 3. what type of mortars and grouts (epoxy or cement) are to be used and for what tiles.

Answer:

- 1.) Revise any reference to PT-3 on Drawing A10.3 to PT-1.

- 2.) They are Schluter corner trim. Corner trim shall extend to height of wainscot and be finished with a QUEDEC corner end cap to finish the open end of the profile.
 - 3.) Your reference to quarry tile base could not be found. There is no quarry tile base on the project. However, quarry tile is to be installed as shown in C132 & 133.
 - 4.) See revised summary of work for contract A-14 Ceramic Tile.
 - 5.) Contract A-14 Ceramic Tile shall provide patching of all floors that receive ceramic tile. This contractor shall assume that the concrete has been poured within its specified FF/FL tolerances.
 - 6.) See Addendum #1 Question #26.
 - 7.) These items were addressed in Addendum No. 2 question #19.
- 61.)
1. There is no layout or design shown for the irrigation systems on the landscape plans. There also are no specifications for the type of equipment, number of zones, sprinkler heads, etc. How are we to price this item?
 2. What type of material is the roof drain piping, HDPE, SCH40 PVC, or SDR35?
 3. Can removable bollard model # Model R-8464-RA by Reliance Foundry be approved for use? A cut sheet is attached.
 4. The Addendum 1 bid form does not contain any alternates for the playground equipment that is called out on the landscape plans. Should we not price the playground equipment?
 5. The addendum 1 bid form has the same descriptions for alternates 2 and 3. Should we enter a number for both alternates?
 6. Who is responsible for completing the sidewalk along Mapleton Av. and Raleigh Street that is shown outside of the LOD?
 7. Addendum 1 scope of work for contract A-01 – Sitework, Item 1 lists the sitework contractor as providing electric, telephone, data & fiber lines and gas utilities. Aren't these utilities installed by the respective utility company approved contractors?
 8. Addendum 1 scope of work for contract A-01 – Sitework, Item 4 is blank. Is something missing from the scope of work?
 9. Addendum 1 scope of work for contract A-01 – Sitework, Item 12. Where are the planter walls located? I see retaining walls in the plaza area, but they appear to be integral to the structural concrete contractors' work.
 10. Addendum 1 scope of work for contract A-01 – Sitework, Item 19. What size gates are required for the temporary fencing?
 11. Addendum 1 scope of work for contract A-01 – Sitework, Item 27. Is it the intent that the Sitework contractor provide daily street cleaning even when they are not onsite?
 12. Addendum 1 scope of work for contract A-01 – Sitework, Item 31. The cooling tower slab and foundations appear to be integral to the structural concrete contractors' work since the footings are continuous with the building footings and the slab with pedestal is contained within. This is not what is typically site concrete work. Should they be in the Sitework of the Concrete contractors' scope of work?

13. Addendum 1 scope of work for contract A-01 – Sitework, Item 34. Where will we be allowed to access a waterline to provide temporary water service? There does not appear to be a waterline on Raleigh Street currently.
14. Addendum 1 scope of work for contract A-01 – Sitework, Item 63. Where will we be allowed to access a waterline to provide temporary water service for the tire wash station?
15. Addendum 1 scope of work for contract A-01 – Sitework, Item 66. Where are landscape walls located on this project?

Answer:

- 1.) The irrigation system and all of the equipment, number of zones and sprinkler head are to include design, layout, and the purchase and installation of the irrigation system.
- 2.) Schedule 40 PVC as specified.
- 3.) Products similar in size, material, quality and functionality may be considered by the owner at the time of product submittals. See attached product data sheet.
- 4.) Utilize updated bid form in Addendum #2.
- 5.) Utilize updated bid form in Addendum #2.
- 6.) The Mapleton Ave. and Raleigh Street sidewalk along the school frontage as called out on sheet CG 101 is included in the school project. Sidewalk on the other side of the street is not included.
- 7.) The electric service shall be provided by Contract A-20 Electrical, including trenching, ductbank, conduit, cable, utility fees, etc. The telecommunications infrastructure (ductbank) is indicated on the electrical drawings. Therefore Contract A-20 Electrical shall include all costs for trenching, excavation, concrete, stone, and backfill. The gas service is going to be installed by the utility up to the meter on the building at no cost to the owner. The mechanical contractor shall connect to the service provided by the gas utility.
- 8.) Item #4 has been left blank/void.
- 9.) Planter walls (also referred to as retaining walls) are located outside the footprint of the building and can be found on the structural and civil drawings.
- 10.) 20' Gates will be required at the site construction entrance.
- 11.) Please read scope of work item #27. Street cleaning of mud, etc. will be required for the duration of sitework activities.
- 12.) Since the foundations are integral due to sizes of footings, all of the concrete associated dunnage support shall be provided Contract A-02 – Concrete, not the Sitework as originally identified in Sitework scope Item #31 & in Concrete scope item #32. See modified summary of work for Contract A-01 Sitework and A-02 Concrete.
- 13.) Contract A-01 Sitework will be responsible for providing temporary water service. This contractor will coordinate with the Town of Whitehall and Artesian Water

Company to connect and install a water source at the closest available point at the contractor's expense.

- 14.) Contract A-01 Sitework will be responsible for providing temporary water service. This contractor will coordinate with the Town of Whitehall and Artesian Water Company to connect and install a water source at the closest available point at the contractor's expense.
- 15.) See question #61, item #9 above.

- 62.) 1.) Item #1 indicates the Sitework scope includes "electric, telephone, data & fiber, gas". However the electric scope Items #6 and 7 indicate that the electric & communications to existing are in that scope. The gas service is not shown on the site drawing and the plumbing drawing P2.3 indicates it will be provided by the gas company. Without the gas routing would it be appropriate to have the site contractors or plumbing contractors carry an allowance for the gas company? Please clarify the extent of work that will be provided by utility companies for all electric, telephone, data, communications and gas and where the separation occurs. I would suggest 5'-0" outside the building for the MEP trades to take over and the site contractor do all the utilities wont. Please confirm extent and your opinion on the 5'-0" separation.
- 2.) Item #31 indicates the cooling tower foundation should be considered exterior and is included in the Sitework scope. However structural drawing S2.3 indicates the foundation is interior & integral with the building foundation. It seems more appropriate to be part of the concrete package. If not, please clarify coordination with concrete scope. This is the issue with the separation of slab from the edge of the building footprint. Please confirm this is acceptable.

Answer:

- 1.) The electric service shall be provided by Contract A-20 Electrical, including trenching, ductbank, conduit, cable, utility fees, etc. The telecommunications infrastructure (ductbank) is indicated on the electrical drawings. Therefore Contract A-20 Electrical shall include all costs for trenching, excavation, concrete, stone, and backfill. The gas service is going to be installed by the utility up to the meter on the building at no cost to the owner. The mechanical contractor shall connect to the service provided by the gas utility.
- 2.) Since the foundations are integral due to sizes of footings, all of the concrete associated dunnage support shall be provided Contract A-02 – Concrete, not the Sitework as originally identified in Sitework scope Item #31 & in Concrete scope item #32. Refer to structural drawings for slab thickness.
- 70.) 1.) Contract NO A-05 calls to Furnish & Install Vision Panels. Please clarify that this contract is only responsible for the non-aluminum vision panel frames, and that Contract A-08 will supply all glass.
- 2.) Contract NO A-05, item #10 calls to Provide Fire Rated Accordion Folding Doors.

There is a separate Contract NO A-10 for Folding Partitions. Please verify what Contract Item #10 falls under.

3.) Recommendation to move providing interior expansion joints from Contract No A-05 to Contract No A-07 & No A-12 since these will need to be installed into their wall and ceiling systems.

4.) Item #52 of Contract A-05 is listed in several different scopes of work, and is also covered by the Sitework Contract No A-01. Will the sitework contractor be responsible for this item?

5.) Contract NO A-05 calls to provide the low voltage wiring within the doors and for automatic door openers. However, the Electrical and Special Systems Contracts call for all wiring to the door hardware locks and door contacts for a complete Card Access System. Please verify Contract NO A-05 is only responsible to provide the hardware, and provide any necessary raceways through doors and or frames. All wiring to be completed by others.

6.) Who will own any fire treated plywood required in Electrical/Tel/Data rooms for new panels? If under Contract NO A-05, could you provide scope and/or locations?

Answer:

1.) Eliminate the work "Vision Panels" form Carpentry & General Work Scope #5. These will be provided by Glass & Glazing Contractor.

2.) The fire rated door is to be provided by the Contract A-05 Carpentry & General works and is not a part of the folding partition contract work. The fire rated door in question is B128A.

3.) We will keep this item as initially issued. The Carpentry & General Works Contractor will need to coordinate with the other trades to install all interior expansion joints.

4.) The site contractor is responsible for their vehicle traffic only. All contractor scopes of work have the same referenced note. The intent of the note was that the flaggers will be needed for their individual work (the prime or their subcontractor deliveries) that they are responsible for. That said, if multiple trucks or deliveries occur, they must be coordinated with all trades as well as the Construction Manager and may require multiple flaggers.

5.) Contract A-20 Electrical shall provide low voltage wiring per note 5 on Drawings

E6.1.

6.) Contract A-05 Carpentry & General Works shall provide fire treated plywood where indicated for electrical and data panel installations. Fire rated plywood shall be installed on all walls of rooms A126, A226 and B125, from top of base to 8' high.

71.) 1.) Per Fence Detail on CG507, In regards to pickets having finial tops that can be removed and pose a safety hazard, would the owner consider a flat rail top across pickets?

2.) May tubular pickets be used in place of solid pickets? It's my understanding the manufactures listed do not manufacture a solid picket. Please Advise.

Answer:

1. Assume flat or rounded finials as shown on the Fence Detail. Owner to have option to consider flat rail top during product submittal.
2. Tubular pickets may be used in place of solid pickets.

- 74.)
- 1.) Line 1 in site scope lists electric, telephone, data and fiber lines, Electrical scope line 3 has the excavation and back fill in that scope for all underground. Please provide clarification that all electric, telephone, data and fiber lines excavation / back fill is in scope A-20 Electrical?
 - 2.) Item 14 requires select under SOG? Is this required if onsite material meet DELDOT spec for structural fill?
 - 3.) Item 68 states we are to grade building to elevation 100.0 minus 8". Addendum #1 states elevation 100.0 = 65.67. There are two F.Fl. elevations, are we to grade entire building to elevation to elevation 65.0 or 8" below the finish floor?
 - 4.) Note on drawing and now in specs 320523 says concrete mix for external improvements to be Whitehall Mix by Bear Concrete, is this a proprietary mix?
 - 5.) Item 31 states the cooling tower is outside the building therefore part of the site scope, it appears the foundation is attached to and part of the building footing, please confirm this is not in the building concrete scope.
 - 6.) If footing is in site scope please provide detail for interface of footing for cooling tower to building footing since they appear as one on S-2.3?
 - 7.) Please provide detail for interface of retaining wall & planter wall footing to building footing.
 - 8.) Masonry planter wall is part of scope A-03?
 - 9.) Item 24 states we are to use onsite material and import as required. We can only cover deficient amount of material in bid. If material is unsuitable will this be covered under unit price #6?
 - 10.) Please provide detail and type of downspout boot required. Specifications provide manufacturer but insufficient information to price exact type.
 - 11.) Item 27 Cleaning of the street is only if we have tracked mud while performing our work only with the exception of the 30 required visits? Other contractors responsible for their cleanup of mud tracked offsite?
 - 12.) What line striping is required for fields and what drawing is it shown on?
 - 13.) Please provide specification for planter waterproofing referred to in Item 65.
 - 14.) On Drawing CG111 (see attachment) where the proposed 8" fire line and 6" domestic water line connect to the 8" water main in Raleigh Street there is a note that reads 'Connect to 8" x 8" tee and 8" x 6" tee'. Will the (2) tees be installed by "others" when the 8" water main is run along the south shoulder of Raleigh Street or will the site

work contractor on the Whitehall School project be expected to wet tap the 8" main at the two locations indicated?

Answer:

- 1.) The electric service shall be provided by Contract A-20 Electrical, including trenching, ductbank, conduit, cable, utility fees, etc. The telecommunications infrastructure (ductbank) is indicated on the electrical drawings. Therefore Contract A-20 Electrical shall include all costs for trenching, excavation, concrete, stone, and backfill. The gas service is going to be installed by the utility up to the meter on the building at no cost to the owner. The mechanical contractor shall connect to the service provided by the gas utility.
- 2.) No, as long as the onsite material is satisfactory and meets the compaction requirements, then imported select fill will not be required. However, it is the contractors' responsibility to determine if there is a sufficient quantity of material on site.
- 3.) Subgrade for each area will be 8" below the finished floor elevation of that area. Areas A and B elevations: Finished Floor = 65.67', Subgrade = 65'. Area C Elevations: Finished Floor = 61.00', Subgrade = 60.33'. Note that the architectural plans show the cooling tower enclosure as part of area C. There is no concrete finished floor in the enclosure. See structural drawings for floor thickness.
- 4.) The Whitehall Mix is a proprietary mix by Bear Concrete.
- 5.) The foundation must be integral due to the size of the footings, therefore, structural engineer suggests all of the concrete associated with dunnage support be provided by Contract A-03 Concrete as part of the building package.
- 6.) See response to question #5 above.
- 7.) The footings are integral with each other and therefore do not require a detail. Above grade to be soft joint and sealant.
- 8.) No. Read note #12 of Contract A-01 Sitework in spec section 011100 Summary of Work.
- 9.) It is the intent to use on site material and imported fill as required. The use of this onsite material shall conform with compaction requirements as specified on Civil drawings and in specification division 31. If there is insufficient on site material available, this contractor shall import at no additional expense to the project sufficient material to complete the work. If onsite material does not meet compaction requirements, as determined by the testing agency, then the unsatisfactory material shall be removed and replace at the unit price for select fill.
- 10.) Refer to spec section 055000 subparagraph 2.11.A.1a.
- 11.) Please read scope of work item #27. Street cleaning of mud, etc. will be required on a daily basis for the duration of sitework activities.
- 12.) The "Multipurpose Field" north of the parking lot will not be delineated with any striping.
- 13.) Refer to spec section 071416 subparagraph 2.2.

14.)The two tees in the Raleigh Street main will be installed by others. The school sitework contractor shall coordinate with EDIS and the adjacent Raleigh Street contractor to connect to the tees at the same time of their installation. A wet tap of the waterline is not anticipated.

78.) 1) Please clarify who furnishes equipment (amplifier, tuner, projector etc), indicated on sketch SK-E-26. If supplied by contract A-20, is there a spec for reference? Will alternates be accepted?

2) Please advise a list of State approved network cabling installers (per spec 260740). We are unable to find this information on the State of Del website.

3) Per Add #1 spec section modification #24, 260930 revisions, advise if alternates will be accepted for the lighting fixtures which are specified as ETC & Colorado. Also, per item #2 in this section, the front of house spot lights are listed as qty of (3) ETC, although the drawings show 6 fixtures. Please clarify,

4) Drawing E5.2 indicates the padmount transformer is supplied by the utility company; although, scope of work item #6, indicates the A-20 contractor provides the padmount transformer. If we are supplying the padmount transformer, we'll need a spec from the engineer, including the size. Please clarify.

Answer:

1. Provided by Contract A-21 Special Systems.
2. Contact State of DE Department of Technology and Information for list of installing Contractors
3. Yes, Quantity is to be six (6)
4. See addendum #3, Question #77 item #8.

79.) 1.) Item #22 in the scope of work for Contract # A-03 Masonry states to "Provide stucco" Don't see a reference or detail about stucco in the bidding documents. Can you provide a general location for this work and a detail that shows substrate and finish?
2.) Alternate #4: Brick Veneer on Parking Lot Elevation. Is this alternate to include the Cooling Tower Enclosure, the Courtyard Wall, the Courtyard Planter Wall, the stage loading dock and the exterior wall of C123 Kitchen and C130 Vestibule?

Answer:

- 1.) Eliminate item #22 from section 011100 Summary of Work, Contract A-03.
- 2.) Refer to Addendum #3, page 26, Item #2.

- 80.
- 1.) Specification Section 116143, Article 2.3, Paragraph C references Section 090600 that depicts the color selection for the Front Curtain. Page 4 of Section 090600 references KM as the fabric manufacturer that is not listed in section 116143. Please advise what fabric is desired. If we use KM fabric please specify the fabric type and if is to receive lining.
 - 2.) Specification Section 116143, Article 2.7, Paragraph A.2 calls for the pipe batten finish to be painted black. We recommend using 1-1/2" Schedule 40 black steel pipe with a lacquer finish. Is this acceptable?
 - 3.) Specification Section 116143, Article 2.7 Paragraph E indicated grade 80 chain is required. Grade 80 chain is not used in for dead-hung supports due to the size and shape of its links. 1/4" Grade 30 chain is typically used to suspend dead-hung items over a stage as it greatly exceeds the minimum safety factors required for static loads. Please advise.
 - 4.) Specification Section 116143, Article 2.3, Paragraph E.1.c lists Valley Forge Fabrics LINING. Is the intent to fabricate all cyclorama curtains with a lining?
 - 5.) Specification Section 116143, Article 3.3, Paragraph C calls to close the ends of the pipe battens by welding and grinding smooth. We suggest installing safety end caps over the ends of the battens in lieu of welding and grinding. IS this acceptable?

Answer:

- 1.) KM "Prestige" Velour.
 - 2.) This is acceptable.
 - 3.) As long as it meets required loading.
 - 4.) There is to be no lining.
 - 5.) This is acceptable
- 81.
- 1.) Panel KP-2 appears to be a duplicate panel tag. There is a KP-2 fed from the MDP and a KP-2 fed from DP-1.
 - 2.) Is FP-1 a typo? Please confirm.

Answer:

- 1.) They will be called "KP-1" and "KP-2". Omit "KP-2" fed from "MDP" Addendum #2.
 - 2.) Remove "KP-2" from "MDP" and change it to a service feeder to "UDS".
- 82.
- Please review the substitution request R.D. Bitzer Co., Inc. for Raypak Inc., XVers Condensing Boilers.

Answer:

The substitution for R.D. Bitzer Co., Inc. for Raypak Inc., XVers Condensing Boilers is not accepted.

83. Alternates 6, 7, and 8 involve acoustical clouds. These alternates are listed on the bid form for A-05 Carpentry and for A-12 Acoustical Ceilings. In Addendum 1, the acoustical ceiling spec was replaced and the new version includes acoustical canopy units and acoustical cloud units which would lead one to believe that contract A-12 would own the clouds that are the subject of the three alternates. Do you agree?

Answer:

Contract A-05 Carpentry & General Works shall provide any blocking necessary. Contract A-07 Metal Studs and Drywall shall provide any metal stud & drywall. Contract A-12 Acoustical Ceilings shall provide ACT, Grid, and any supports. Should the alternate be accepted, Contract A-12 shall provide the clouds.

84. In add. #2, page 38 and 39, they slash the word EIFS and make it Manufactured Moldings and Trim. The specification Exterior Finish Carpentry 062023, section 2.1 and 2.2 refer to basis of design as Canamould. The trim is still a EIFS product, correct?

Answer:

Canamould is not an EIFS product.

85. Please review the substitution request for York Building Products for 42000 Unit Masonry, Split Face Concrete Masonry Unit.

Answer:

Substitution request has been denied for York Building Products for 42000 Unit Masonry, Split Face Concrete Masonry Unit.

86. Fire pump: I see that they or someone did pick up on the relief valve and remote control panel [not needed] and they did clarify the pump controller. Although 2.3.A.3 still indicates a flow metering device. However, they still call for an automatic transfer switch for the pump – is there a generator? I don't see one on the "E" plans. A.2.A.3 & 2.4.B.

Answer:

Flow meter and automatic transfer switch not needed.

87. Please review the substitution request from Kencor Elevators/EEVI .

Answer:

We do not accept this substitution request.

88. Can you provide a specification for the exterior acoustic panels at the chiller? They appear in the Addendum #1 Sk – A – 002, Elevation 2/A5.5.

Answer:

Remove Addendum #1 sketch Sk – A - 002.

89. Please clarify who is supposed to provide the Alternate #6, 7, & 8 scope of work in relation to the clouds.

Answer:

Contract A-05 Carpentry & General Works shall provide any blocking necessary.
Contract A-07 Metal Studs and Drywall shall provide any metal stud & drywall.
Contract A-12 Acoustical Ceilings shall provide ACT, Grid, and any supports. Should the alternate be accepted, Contract A-12 shall provide the clouds.

90. Per Addendum # 3 Question and answer 65. #2. The Roofing contractor is to furnish and install the overflow roof drains. Interior Overflow roof drains are a Trade specific item as is the primary Roof Drains, it seems the interior overflow drains should be included in item # 7 along with the primary roof drains in the Summary of Work - Contract NO. A-06 Roofing (Plumber furnishes and installs / roofer flashes), please advise. Note: If these were Overflow Scuppers the roofing contractor would own no questions asked.

Answer:

See question #65, item #2 in Addendum #3.

91. Can you clarify if the wall and soffit panels are in Contract A-06 Roofing scope of work? It is in the spec by not listed with our detailed scope. It does list all copings, edge metal, gutters and downspouts, but the fascia wrapping is also not listed. Please clarify.

Answer:

The soffit panels are the responsibility of and identified under Contract A-07 Metal Stud & Drywall summary of work. The metal roof panels are to be installed by Contract A-06 Roofing Contractor. See updated summary of work for contract A-06 Roofing, note 27.

92. Please review the substitution request from American Dryer.

Answer:

We accept this as an equal/alternate.

93. 1.) Cannot see where alt. #6 in the bid form affect painting?
2.) Is the paint contractor providing the AC-2 Acoustical Clouds?
3.) Is there any field painting of the EIFS Moulding? (2nd screen print)
4.) Is there any field painting of GFRC railing, EIFS Moulding Canopy, or GFRC Columns? (third screen print below)

Answer:

1.) Contractor shall be required to paint soffits as part of Alt. #6.
2.) Contract A-12 Acoustical Ceilings shall provide the AC-2 Acoustical Clouds.
3.) See modifications to specifications, Item #1.
4.) GFRC to be painted. For moulding, see #3 above.

94. 1.) TS06 on plans scale to 6' wide, but in section 100600-1 schedule it indicates that it is 2' long x 3" I think it is a typo.
2.) The only interior expansion joint I can find is at the transition from 2 story to single story building area, is that correct or are there any expansion joints along the main corridor of the 2 story building, it just appears to be too long to not have expansion joints?

Answer:

1.) TS06 to be 6' 0" long x 3" high.
2.) No other expansion joints.

95. The fire suppression drawings & specifications indicate A Rough Sprinkler Budget for Automatic Sprinkler Design Criteria that the fire sprinkler heads shall not exceed 225 square feet maximum for Light Hazard, with a K-Factor of 5.6 and 130 square feet maximum for Ordinary Hazard applications, with a K-Factor of 5.6. May the use of extended coverage fire sprinklers be installed in accordance to NFPA and Local Authorities Having Jurisdiction which will exceed the 130 square feet and 225 square feet maximum with a K-Factor greater than 5.6 indicated on the Rough Pressure Budget for Automatic Sprinkler Design Criteria? The specification Fire Suppression Sprinkler &

Standpipe Section 210170-1, paragraph 2.7., line C. Sprinkler Types & Categories: Nominal ½" standard orifice, unless otherwise indicated or required by application is outlined. The drawings and specifications indicate that they are only to be used as a guideline and it is the responsibility of the Fire Protection Contractor to design the fire sprinkler system, perform hydraulic calculations to meet the required system criteria in accordance to NFPA and Local Authorities Having Jurisdiction. Extended-coverage automatic fire sprinklers for these applications will provide the remote area coverage, proper density for the Light Hazard and Ordinary Hazard applications with hydraulic-calculated pressure & GPM demands as required based on water flow availability. The project will have a fire-pump and the extended coverage heads will have no problem in performance based on the city water-flow data information, combined with the fire-pump and the K-Factor of the extended coverage automatic fire sprinkler heads, main and branch-line pipe sizes, pressure requirements and flow (gpm) demand for the requirements of the hydraulically-calculated remote areas.

Answer:

Extended coverage sprinkler heads are acceptable as long as NFPA.

96. The Addendum 3 bid form for sitework has an alternate #4 for "Brick Veneer on Parking Lot Elevation". Is this alternate meant for the masonry contractor, not the sitework contractor?

Answer:

See sheet A3.6, all walls outside the footprint of the building are split face CMU. See details on A3.0. See addendum #3, page 26, item #2. All exterior planter walls shall be the responsibility of Contract A-01 Sitework.

97. 1.) Please address this question regarding the A-04: Structural Steel & Misc. Metals scope for this bid and Addendum #3 response to question 46. Reference is made in the answer regarding wood plate anchor bolts to Detail 8/S4.3. We find no bolts and see no similarity to a parapet plate in this detail. Nor does any other detail on S4.3 seem applicable. Please provide a correct detail reference, or clarify answer.
- 2.) The following questions were submitted regarding downspout boots: The Basis-of-Design downspout boot is listed on page 055000-7 of Section 055000 – Metal Fabrications. According to the manufacturer the specified product is available in three different lengths. Where in the bid documents can the A-04 bidder find information regarding the correct length of the downspout boots? The Basis-of-Design downspout boot is subject to compliance with requirements. Where in the bid documents can the A-04 bidder find information regarding compliance with requirements? The Basis-of-

Design downspout boot is compatible with 4 x 3 inch downspouts. Where in the bid documents can the A-04 bidder find information regarding downspout size for the project?

3.) Addendum #3 RFI Question 74 on page 18 lists 14 questions pertaining to various trades. Confirm submitted question 10 in this series was meant to address the concerns we expressed. No answer was provided, but a response is to be expected in a future addendum. We are concerned that the question as written does not address all that needs to be clarified. A manufacturer and part number is specified, but the part number comes in three lengths and the required length is not specified, nor is a detail found to help us determine the required length. The manufacturer offers optional cleanout access on the specified part number, but this is not mentioned in the specification. Ideally, the required length and any requirement for cleanout access should be addressed in the final response. We are still puzzled why these are being supplied by the A-04 Steel contract package.

Answer:

- 1.) Detail 8/S4.3 not related to question. Refer to drawings A4.3 & A4.4.
- 2.) Downspout Boots to be 3' – 0".
- 3.) See response to item #2, question 97.

98. We are having a hard time finding the information regarding the location of the blackout vs. light filtering shades.

Answer:

Reference specification section 090600 - Room Finish Schedule.

99. Please address this question regarding the A-04: Structural Steel & Misc. Metals scope for this bid and Addendum #3 response to question 49. The answer to part 4 of the question states that there are no abrasive nosings on this project. We will disregard the note describing abrasive nosings at the Portland Cement Concrete Steps detail on sheet CG501 and will not include these nosings in our A-04: Structural Steel & Misc. Metals scope for this project.

Answer:

Our comment pertains to an interior nosing's only. Follow detail sheet CG501 as specified.

100. We have spoken to one of the flooring contractors and they are considering not bidding the project because of the requirement to water jet cut the VCT floor patterns. They have

done this with sheet vinyl but not VCT. They are concerned that with the tolerances in VCT from the manufacturers, that the joints won't line up. They would prefer to field cut the patterns. As a compromise would you consider – "Water-jet cut or field cut with templates, all arcs in floor patterns." The current spec is below.

Answer:

We maintain the specifications current standard of quality. Field cutting of patterns shall not be acceptable method of installation.

101.) Please review the attached substitution request for Section 230450 Ductless split system by Samsung.

Answer:

Furlow accepts this substitution request attached and will add them per addendum #4.

102.) 1.) A preaction suppression system is listed on under Summary of work note 11 and specification section 210170-13, fire suppression sprinkler and standpipe systems, part 2.12. The FP Drawings riser manifold detail on FP5.1 shows a 4" Alarm Valve. Is there a single interlock preaction system being installed for this project and what area will it be protecting? (Elevator Shaft or Data/IT Room?)
2.) Where does the Fire Protection system installation start under contract A-17? Summary of work lists 5' outside the building at note 17, and at note 2 it states to provide excavation and backfill related to FP work as detailed below. Is our excavation, backfill, and underground sprinkler piping limited to within 5' outside the building?

Answer:

- 1.) The 210170 Specification Section 2.12 Preaction System is being removed in Addendum #4. There are no preaction systems on the project.
- 2.) The plumbing contractor is responsible for the fire water service from the flange 12 inch above the finished floor to 5 ft. outside the building. The fire protection contractor is responsible from the face of the fire water service flange into the building. As part of Addendum #4 the fire water service detail on the fire protection drawings has been modified to clarify the FPC and the PC responsibilities. Also the plumbing plans have been modified to indicate the division of responsibility and the fire water service detail has been added to the plumbing plans.

MODIFICATIONS TO SPECIFICATIONS:

- 1.) Section 034900 – GLASS-FIBER-REINFORCED-CONCRETE (GFRC)

Add 2.10 FINISHES add subparagraph B. Finishing of the GFRC Parts to be carried out by the Painting Subcontractor. Proper sealing of the finished GFRC Parts must be provided to avoid joint tape read through.

1. The GFRC Parts shall be prepared for Level 5 Finish, which may require skim coats, filling, and sanding to hide imperfections inherent in GFRC, in accordance with ASTM C840 and C1467.

2.) Section 055000 – METAL FABRICATIONS

Add 2.11 METAL DOWNSPOUT BOOTS subparagraph A.1 add sub letter b. Boot Lengths:

3'-0" as indicated on the drawings.

3.) Section 087100 – DOOR HARDWARE

Add 3.8 DOOR HARDWARE SETS subparagraph B add sub number 10. OT – OTHER.

Add Hardware Set 3.1

Set: 3.1

Doors: EXB101, EXC001

2	Continuous Hinge	CFM__SLF-HD1 PT - DOOR HEIGHT	PE
1	Removable Mullion	L980A	US28 SA
1	Rim Exit Device	LC 16 55 56 8810 862	US32D SA
1	Rim Exit Device	LC 16 55 56 8804 862	US32D SA
1	Cylinder (rim)	3080 CT6R	630 RU
3	Cylinder (mortise)	1080 CT6R - LENGTH/CAM TO SUIT	630 RU
4	Removable Core	8020	630 RU
2	Conc Overhead Stop	6-X36	630 RF
1	Door Closer	J7500	689 NO
1	Automatic Opener	6330	689 NO
1	Threshold	272A MSES25SS	PE
1	Rain Guard	346C	PE
1	Gasketing (mullion)	5110BL	PE
2	Sweep (w/drip edge)	3452CNB	PE
1	Frame Harness	QC-C1500P	MK
1	Door Harness	QC-C__ - LENGTH TO SUIT	MK
1	Switch	3287	SA
1	Electric Power Transfer	EL-CEPT	SU
2	Door Switch	501	NO
1	Power Supply	3540	SA

Notes:

Perimeter/meeting stile seals by frame/door supplier.

Electronic Operation: Valid card and intercom signal retracts latchbolt and activates exterior door switch; key retracts latchbolt. Free egress at all times. In case of power loss, door remains locked and latched.

4.) Section 116143 – STAGE CURTAINS

Add 2.3 CURTAIN FABRICS subparagraphs B.2 add subletter e. **“Prestige”**; **KM Fabrics**.

5.) Section 142600 – LIMITED-USE/LIMITED-APPLICATION ELEVATORS

Add Section in its entirety (per addendum #4)

6.) Section 321816.13 – PLAYGROUND PROTECTIVE SURFACING

Add 2.1 ACCEPTABLE MANUFACTURER add **Surface America, Inc.**

7.) Section 210170, FIRE SUPPRESSION SPRINKLER SYSTEM

a. Page 210170-13, Paragraph 2.12: DELETE in its entirety.

8.) Specification 210171, FIRE PUMP – ELECTRIC

a. Page 210171-4, Paragraph 2.3.A.3: DELETE and renumber subsection.

b. Page 210171-5, Paragraph 2.4.A.11.d: DELETE line.

c. Page 210171-5, Paragraph 2.4.B: DELETE in its entirety.

9.) Section 230450, REFRIGERATION EQUIPMENT – HVAC

a. Page 230450-12, Paragraph 2.3.E.4: DELETE as issued in Addendum #3, item 1.a.

b. Page 230450-12, Paragraph 2.3.J: ADD Samsung as an approved manufacturer.

10.)Section 230760, AIR HANDLING EQUIPMENT

a. Page 230760-3, Paragraph 2.2.B.1, as issued in Addendum #3, item 3.a: REVISE the first sentence to read as follows:

“1. Casing panels shall consist of single wall, minimum 18-gauge galvanized solid skin with 1”-thick 1.5pcf fiberglass insulation, with erosion resistant coating on the airside surface, and minimum R-value of 10, which meets NFPA 90A and UL 181 test standards.”

b. Page 230760-6, Paragraph 2.2.L.3, as issued in Addendum #3, item 3.a: REVISE to read as follows:

“3. BAS Controller: DDC controller shall be provided as part of the work of ATC, field mounted and wired. Coordinate with Section 230900.”

c. Page 230760-8, Paragraph 2.3.I, as issued in Addendum #3, item 3.a: REVISE the second sentence to read as follows:

“BAS Controller: DDC controller shall be provided as part of the work of ATC, field mounted and wired. Coordinate with Section 230900.”

11.)Section 230900, AUTOMATIC TEMPERATURE CONTROLS, as issued in Addendum #3, page 1, item 4.b under MECHANICAL.

a. Paragraph 2.9: Sequence of Operation:

i. Page 4, Paragraph 2.9.E.5: DELETE in its entirety.

ii. Page 5, Paragraph 2.9.E.9: DELETE subparagraph f.

iii. Page 10, Paragraph 2.9.Q.1: DELETE Q.1.4.

iv. Page 10, Paragraph 2.9.Q.2.3: DELETE the second sentence “Provide an alarm if the fan is commanded on and flow is not proven after a 20-second delay.”

12.)Section 280721, FIRE ALARM AND DETECTION SYSTEMS

a. Page 280721-5, Paragraph 2.3.A: ADD the following:

“7. Monitor the refrigerant monitoring panel, located in the Mechanical Room. Upon activation, send alarm condition to the Fire Alarm Panel.”

13.) Delete Section 011100 Summary of Work and replace in its entirety.

14.)Delete section 012300 Alternates and replace in its entirety.

15.)Delete section 004100 Bid Forms for the following contracts: A-05 Carpentry & General Works, A-07 Metal Studs and Drywall, A-11 Painting, A-12 Acoustical Ceilings, A-17 Fire Protection, A-20 Electrical and replace in its entirety.

MODIFICATIONS TO DRAWINGS:

1.) Drawing A3.1 – PARTIAL FIRST FLOOR PLAN – AREA ‘A’

Revise Classroom pod Area “A”. Refer to sketch SK-A-035. Typical of rooms A111,A112, A113, A114, A115, A116, A117, A118, A119, A120.1, A211, A212, A213, A214, A215, A216, A217, A218, A219, A222.1, A222, A225, A226, A227, A228, A229, A230, A231, A232, A233, A234, A235.

2.) Drawing A3.3 – LOWER LEVEL PLAN – AREA ‘C’

Revise Lower Level Plan – Area “C”. Refer to sketch SK-A-030.

3.) Drawing A3.7 – ROOM FINISH SCHEDULE

Delete Room C102.1 CHAIRLIFT from ROOM FINISH SCHEDULE.

Add Room “C102.1 ELEVATOR” to ROOM FINISH SCHEDULE to read Floor Finish “-”, Alt. Bid Floor Finish “-”, Base “-”, Wainscot “-”, Wall Finish “-”, Cabinets “-”, Countertops “-”, Comments “-”.

Add Room “C102.2 ELEVATOR EQUIPMENT ROOM” to ROOM FINISH SCHEDULE to read Floor Finish “VCT-1”, Alt. Bid Floor Finish “LVT-1”, Base “RB-1”, Wainscot “-”, Wall Finish “PTD-1”, Cabinets “-”, Countertops “-”, Comments “-”.

4.) Drawing A3.8 – DOOR SCHEDULE

Add Door “C102.2” to INTERIOR DOOR SCHEDULE to read Leaf 1 “3'-0””, Height “7-2””, Door Type “F”, Door Material “HM”, Fire Rating “---”, Hardware Set “023”, Frame Type “HM1”, Frame Material “HM”, Head Detail “1/A8.2”, Jamb Detail “2/A8.2”.

Revise Doors EXB101 and EXC001, revise hardware set 003 to hardware set 003.1.

Revise Door A127 to be A127A.

Add Doors A127B, A130A, A130B. Refer to sketch SK-A-042.

Delete Door A130.

5.) Drawing A4.0 – TYPICAL ROOF DETAILS

Roof Type “RT1” - Revise note “TAPERED RIGID INSULATION – 2” MIN. AT ROOF DRAIN SUMPS- 4 1/2” MIN ((1) 2 1/2” LAYER, (1) 2” LAYER WITH STAGGERS JOINTS) AT LOW POINTS – SLOPE 1/4” PER FT. MIN.” to read “TAPERED RIGID INSULATION – 4 ½” MIN AT LOW POINTS – SLOPE 1/4” PER FT. MIN”.

6.) Drawing A4.1 – OVERALL ROOF PLAN

Revise General Notes to read **“3. TYPICAL INSULATION THICKNESS SHALL BE 4 1/2" TOTAL MIN., CONSISTING OF A MINIMUM OF (2) LAYERS WITH STAGGERED JOINTS UNLESS NOTED OTHERWISE”.**

7.) Drawing A5's – ALL ELEVATION DRAWINGS

Add GENERAL NOTES – EXTERIOR ELEVATIONS add sub number 7. **ALL G.F.R.C. AND PREMANUFACTURED EXTERIOR MOULDING TO BE PAINTED.**

8.) Drawing A5.5 – PARTIAL EXTERIOR ELEVATIONS AND TYPICAL QUOIN LAYOUT

Delete Sketch SK-A-002 that was issued in Addendum #1.

9.) Drawing A6.0 – TYPICAL SECTION DETAILS

Revise Details 15/A6.0 and 16/A6.0. Refer to sketch SK-A-028 and SK-A-029.

10.) Drawing A7.1 – STAIR PLANS

Revise Stair CS-1/Elevator – Lower Level 7/A7.1. Refer to sketch SK-A-031.

11.) Drawing A9.3 – ENLARGED PLANS AND INTERIOR ELEVATIONS – CLASSROOM AND COMMONS.

Revise Enlarged Plan 1/A9.3 revise layout. Refer to sketch SK-A-037.

Revise Elevations 3/A9.3 and 4/A9.3 revise typical commons elevations. Refer to sketch SK-A038.

Revise Elevations 8/A9.3 and 12/A9.3 revise typical classroom elevations. Refer to sketch SK-A039.

12.) Drawing A9.10 – FOLDING PARTITION TYPES AND DETAILS

Add Folding Partition type **FP-5**. Refer to sketch SK-A-041.

13.) Drawing A10.1 – FLOOR PATTERN PLAN – FIRST FLOOR – AREA 'A'

Revise Floor Pattern Plan – First Floor – Area "A". Refer to sketch SK-A-040.
Typical of rooms A111, A112, A113, A114, A115, A116, A117, A118, A119, A120.1, A211, A212, A213, A214, A215, A216, A217, A218, A219, A222.1, A222, A225, A226,

A227, A228, A229, A230, A231, A232, A233, A234, A235.

14.) Drawing A10.2 – FLOOR PATTERN PLAN – FIRST FLOOR – AREA ‘B’

Revise Floor Pattern Plan – First Floor – Area “B”. Refer to sketch SK-A-032.

15.) Drawing A10.3 – FLOOR PATTERN PLAN – LOWER LEVEL – AREA ‘C’

Revise Floor Pattern Plan – Lower Level – Area “C”. Refer to sketch SK-A-033.

16.) Drawing A11.1 – FIRST FLOOR REFLECTED CEILING PLAN – AREA “A”

Revise Reflected Ceiling Plan classroom pods Area “A”. Refer to sketch SK-A-036. Typical of rooms A111, A112, A113, A114, A115, A116, A117, A118, A119, A120.1, A211, A212, A213, A214, A215, A216, A217, A218, A219, A222.1, A222, A225, A226, A227, A228, A229, A230, A231, A232, A233, A234, A235.

17.) Drawing A11.3 – LOWER LEVEL REFLECTED CEILING PLAN – AREA ‘C’

Revise Lower Level Reflected Ceiling Plan – Area “C”. Refer to sketch SK-A-034.

18.) Drawing FP3.1, FIRST FLOOR FIRE PROTECTION PLAN – AREA “C”

a. ADD Sprinkler protection and notes for Chairlift and Chairlift Machine Room. Refer to attached SK-FP-1.

19.) Drawing FP5.2, DETAILS, NOTES, LEGENDS, AND SCHEDULE – FIRE PROTECTION

a. CHANGE FIRE WATER SERVICE DETAILS. Refer to attached Sketch SK-FP-2.

20.) Drawing P2.1, PARTIAL FIRST FLOOR BELOW SLAB PLUMBING PLAN – AREA “A”

a. MODIFY Domestic Piping, sanitary, vent, and storm piping to accommodate door and sink relocation in Classrooms A115, A117, A129, & A134.

b. MODIFY services to water cooler F-7 in Storage A131 to accommodate shifted location.

c. MODIFY Domestic Piping, sanitary, vent, and storm piping to accommodate revised floor plan in Toilet A125 & Workroom A127 (rooms flipped locations).

21.) Drawing P2.3, PARTIAL FIRST FLOOR BELOW SLAB PLUMBING PLAN – AREA “C”

- RELOCATE Storm piping around new chairlift pit. Refer to attached Sketch SK-

P-12.

- ADD 2" storm line to below slab storm piping for sump pump to serve chairlift pit. Refer to attached Sketch SK-P-12.

21.) Drawing P3.1, PARTIAL FIRST FLOOR PLUMBING PLAN – AREA "A"

- a. MODIFY Domestic Piping, sanitary, vent, and storm piping to accommodate door and sink relocation in Classrooms A115, A117, A129, & A134.
- b. MODIFY services to water cooler F-7 in Storage A131 to accommodate shifted location.
- c. MODIFY Domestic Piping, sanitary, vent, and storm piping to accommodate revised floor plan in Toilet A125 & Workroom A127 (rooms flipped locations).

22.) Drawing P3.3, PARTIAL FIRST FLOOR PLUMBING PLAN – AREA "C"

- ADD Sump Pump Alarm "SP F-57" to Chairlift machine room. Refer to attached Sketch SK-P-13.
- ADD Condensate Service "HVAC F-16" in Chairlift Machine Room connecting to condensate piping in office B122. Refer to attached Sketch SK-P-13.
- RELOCATE Vent to roofs in toilet room chases away from fire walls. Refer to attached Sketch SK-P-13.
- ADD Fire Protection Water Service and note to Fire Pump Room – Area C. Refer to attached Sketch SK-P-15.

23.) Drawing P3.4, PARTIAL SECOND FLOOR PLUMBING PLAN – AREA "A"

- a. MODIFY Domestic Piping, sanitary, vent, and storm piping to accommodate door and sink relocation in Classrooms A215, A217, A229, & A234.

24.) Drawing P4.1, GYM ROOF PLUMBING PLAN

- RELOCATE Vent to roof away from fire walls. Refer to attached Sketch SK-P-14.

25.) Drawing P5.2, DETAILS – PLUMBING

- ADD Fire Water Service Detail. Refer to attached Sketch SK-P-16.

26.)Drawing M3.1, PARTIAL FIRST FLOOR DUCTWORK PLAN – AREA “A”

- a. MODIFY locations of ceiling returns (CR-15) in Classrooms A115, A117, A129, and A134 to accommodate revised door locations. Door shifted south toward Colum Line 2.
- b. MODIFY location of FCU-A1.6 and associated ductwork/exhaust registers in Toilet A125 and Workroom A127 to accommodate revised floor plan (rooms flipped locations).
- c. RELOCATE diffusers in Commons A130 with respect to new ceiling layout, typical (5) Commons areas.

27.)Drawing M3.4, PARTIAL SECOND FLOOR DUCTWORK PLAN – AREA “A”

- a. MODIFY locations of ceiling returns (CR-15) in Classrooms A215, A217, A229, and A234 to accommodate revised door locations. Door shifted south toward Colum Line 2.

28.)Drawing 3.6, PARTIAL FIRST FLOOR PIPING PLAN – AREA “A”

- a. RELOCATE thermostat in Commons A130 with respect to new interior elevation, typical (5) Commons areas

29.)Drawing M3.8, PARTIAL FIRST FLOOR PIPING PLAN – AREA C

- a. ADD AC-4 and Refrigerant Piping to Chair Lift Machine Room. Refer to attached Sketch SK-M-9.

30.)Drawing M4.1, OVERAGLL & GYM MECHANICAL ROOF PLAN

- a. ADD ACC-4 and Refrigerant Piping to Gym Roof. Refer to attached Sketch SK-M-10.

31.)Drawing M6.1, SCHEDULES – MECHANICAL

- a. DUCTLESS SPLIT SYSTEM SCHEDULE
 - ADD AC-4 and ACC-4 performance data. Refer to attached Sketch SK-M-11.

32.)Drawing E3.1, PARTIAL FIRST FLOOR LIGHTING PLAN – AREA “A”

- a. MODIFY lighting, switches, receptacles, exit sign locations in Classrooms A115, A117, A129, and A134 to accommodate revised door locations. Door shifted south toward Colum Line 2.
- b. MODIFY lighting, switches, and receptacle locations in Toilet A125 and Workroom A127 to accommodate revised floor plan (rooms flipped locations).
- c. SHIFT locations of lighting, power, and EWC locations in Electric Room A132 to accommodate plan and revision.
- d. REVISE lighting layout. Refer to attached Sketch SK-E-59.
- e. OMIT Plans 2 and 3. No Alternate #8.

33.) Drawing E3.3, PARTIAL FIRST FLOOR LIGHTING PLAN – AREA “C”

- a. REVISE lighting for new left. Refer to attached Sketch SK-E-55.

34.) Drawing E3.4, PARTIAL SECOND FLOOR LIGHTING PLAN – AREA “A”

- a. MODIFY lighting, switches, receptacles, exit sign locations in Classrooms A215, A217, A229, and A234 to accommodate revised door locations. Door shifted south toward Colum Line 2.
- b. REVISE lighting layout in Commons A230 and A216. Refer to attached Sketch SK-E-59.
- c. OMIT Plans 2 and 3. No Alternate #8.

35.) Drawing E3.5, PARTIAL SECOND FLOOR LIGHTING PLAN – AREA “B”

- a. REVISE lighting layout in Commons B218. Refer to attached Sketch SK-E-59.
- b. OMIT Plan 2. No Alternate #8.

36.) Drawing E3.6, PARTIAL FIRST FLOOR POWER PLAN – AREA “A”

- a. MODIFY lighting, switches, receptacles, exit sign locations in Classrooms A115, A117, A129, and A134 to accommodate revised door locations. Door shifted south toward Colum Line 2.
- b. MODIFY lighting, switches, and receptacle locations in Toilet A125 and

Workroom A127 to accommodate revised floor plan (rooms flipped locations).

c. SHIFT locations of lighting, power, and EWC locations in Electric Room A132 to accommodate plan and revision.

d. REVISE device locations in Commons A130 and A116 to relocate Teaching Wall. Refer to attached Sketch SK-E-58.

37.) Drawing E3.8, PARTIAL FIRST FLOOR POWER PLAN – AREA “C”

a. ADD devices and equipment for new lift. Refer to attached SK-E-56.

38.) Drawing E3.9, PARTIAL SECOND FLOOR POWER PLAN – AREA “A”

a. MODIFY lighting, switches, receptacles, exit sign locations in Classrooms A215, A217, A229, and A234 to accommodate revised door locations. Door shifted south toward Colum Line 2.

b. REVISE device locations in Commons A230 and A216 to relocate Teaching Wall. Refer to attached Sketch SK-E-58.

39.) Drawing E3.10, PARTIAL SECOND FLOOR POWER PLAN – AREA “B”

a. REVISE device locations in Commons B210 to relocate Teaching Wall. Refer to attached Sketch SK-E-58.

40.) Drawing 4.1, OVERALL & GYM ELECTRICAL ROOF PLAN

a. ADD equipment for new lift. Refer to attached SK-E-57.

41.) Drawing E5.2, DETAILS – ELECTRICAL

a. Panel PP-1

- ADD 80A-3/P to circuit 12. Refer to Kitchen Schedule for wiring requirements to UDS System.

b. Distribution Panel DP-1

- Breaker #1: CHANGE Panel names to “KP-1” and “KP-2”. Refer to attached Sketch SK-E-52

42.) Drawing E6.2, SCHEDULES – ELECTRICAL

- a. ADD equipment to schedule for new lift. Refer to attached SK-E-53.

43.) Drawing E6.4, PANEL SCHEDULES – ELECTRICAL

- a. ADD breakers for lift equipment. Refer to attached SK-E-54.

44.) DRAWING S2.3

- Revise the foundation plan per sketch SK-S-017 for the change from chairlift to elevator between areas B and C.

End of Addendum No. 4

All other terms and conditions remain the same.