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**Sussex Consortium School**  
**Sweet Briar Road Lewes, Delaware 19958**  
**Project No. 200-81485-16006**  
**Bid Pac A – Contracts 1 thru 17**  
**December 13, 2017**

## **Addendum No. 5**

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Attention all Prospective Bidders:

The following clarifications, changes and /or additions shall by this reference be incorporated into the contract documents as though dully set forth therein.

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Addendum No. 5 consists of:  
RYJ Written directive (6 pages)  
Fearn Clendaniel Written directive (7 pages)  
Architectural Sketches ASK-004 & ASK-005 (2 pages)  
Architectural Drawing A82-01 (1 page)  
Structural Drawing S51-01 (1 page)  
Plumbing Drawings PD11-01D, P51-03, P51-06 & P51-14 (4 pages)  
Decorative Landscape Drawings L-100 & L-101 (2 pages)  
Section 101400 – Interior Signage (23 pages)

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### **Non – Technical Specifications** **Section 000110 – Table of Contents**

Page 000110-4 – **Add after** “Section 131113 Pool General”

- Section 131114 – POOL MAINTENANCE AND OPERATIONS TRAINING
- Section 131118 – POOL CONCRETE
- Section 131120 – POOL PIPE AND PIPE FITTINGS
- Section 131123 – POOL PIPE SUPPORTS
- Section 131124 – POOL VALVES
- Section 131125 – POOL CENTRIFUGAL PUMPS
- Section 131130 – POOL REGENERATIVE MEDIA FILTERS
- Section 131135 – POOL ULTRAVIOLET DISINFECTION EQUIPMENT
- Section 131140 – POOL HEATING SYSTEMS
- Section 131145 – POOL RAIL GOODS
- Section 131146 – POOL EQUIPMENT
- Section 131160 – POOL QUARTZ AGGREGATE FINISH
- Section 131161 – POOL CERMAIC TILE

\*Note: Above Sections were already included in bid package, but individual sections were not specifically called out.

**Section 004126 – Bid Form**

**Page 004126-4 – Add Alternate Eleven – Decorative Landscaping**

\*Clarification: Base Bid to include all landscaping shown on Sheet C7.1 & C7.2, Alternate is to provide landscaping shown on Sheets L-100 & L-101 “Phase 1” only, Phase 2 is for future expansion.

**Section 011100– Summary of Work**

**Bid Pac A – Contract 5 Carpentry & General Work**

Page 011100-16 – **Add to Paragraph A;** “131114, 131118, 131120, 131123, 131124, 131125, 131130, 131135, 131140, 131145, 131146, 131160, 131161”.

**Bid Pac A – Contract 17 Electrical**

Page 011100-40 – **Add Paragraph OO;** “Provide back boxes, conduit and pathways only for the fire alarm system. Fire alarm system, equipment, wire and devices are to be provided by owner’s vendor.”

**Bidders Questions + Clarification**

**RFI No.            Description**

**RFI 20**

**Question:**

We have reviewed the plans and specifications, and the information provided contains conflicting information between specifications and drawings. Please refer to signage types listed in specification and schedule versus the drawings provided. These types do not match up. Please have this clarified so we can furnish pricing on the project.

**Answer:**

See architectural directive for clarification for Interior Signage Specification 101400 Schedule and Drawing A82-01 revisions.

**RFI 21**

**Question:**

Can a detail be provided for the rubber playground surface?

**Answer:**

Rubber playground surface is to be provided by owner.

**Question:**

Can a detail be provided for the flagpoles?

**Answer:**

See added details 8/A-SIGN-01 and 9/A-SIGN-01 as indicated on attached sketch ASK-004. Detail 8 shows a partial plan at the flagpole locations and includes additional concrete paving to access the flagpoles. Detail 9 shows a typical flagpole foundation (note these dimensions will vary depending on manufacturer. Actual foundation dimensions to be supplied by manufacturer).

**Question:**

Can a detail be provided for the Steel Rail Crash Barrier?

**Answer:**

Refer to DelDOT Standard Construction Detail for Type 1-31 Guardrail Barriers.

**Question:**

Can you clarify which landscaping is Base Bid and which is ALT #11?

**Answer:**

Refer to landscape drawings in Addendum 5.

**Question:**

The fire lane striping plan does not show the words "FIRE LANE" to be striped. Are we to include this? If so how many?

**Answer:**

The State Fire Marshal did not want this lettering. Only yellow striping and signage. Both are shown on the fire protection plans.

**RFI 22**

**Question:**

In looking at the Pool drawings (Alt #3, specifically drawings PL101 & PL110) it appears that there is ceramic tile desired in the pool. Who owns this ceramic tile?

**Answer:**

Pool contractor under Contract 5 Carpentry and General Work will provide all ceramic at gutter, walls and floor of pool.

**RFI 23**

**Question:**

Per specification section 230701 HVAC Insulation, 2.2 Sub Section E calls for VaporWick Insulation. They do not manufacture this product anymore. Please advise on specification for Exterior and Exposed Interior Dual-Temp Piping.

**Answer:**

Interior Dual Temperature pipe insulation shall be ASJ Max with SSL-II closure system pipe insulation as manufactured by Owens Corning or approved equal. Reference is given to Specification Section 230701, Paragraph 2.2-D which states the same.

All references to the product Vaporwick within Specification Section 230701 shall be replaced with the referenced pipe insulation noted in Specification Section 230701, Paragraph 2.2-D.

Exterior pipe insulation would be the same product. However, exterior piping is to be covered with corrugated aluminum weatherproof jacketing as specified in Section 230701, Paragraph 2.2-I.

**RFI 24**

**Question:**

Can I assume that items listed in the hardware sets 087100 as "BY SECURITY" will be supplied by Section 28 74 00? If so, this would void part of the hardware specification 087100 3.7 Single Source Responsibility.

**Answer:**

Single Source Responsibility specified in section 087100; 3.7, A shall be required. The 087100 contractor will not be responsible for providing or installing the Electrified/battery controlled hardware components indicated as "BY SECURITY" but will be required to provide preparation for "BY SECURITY" components. "BY SECURITY" hardware is listed as reference to make sure proper coordination of raceways, hardware preparation (blocking, cutouts, holes for hardware, etc) by the Single Source contractor is provided.

**RFI 25**

**Question:**

Drawing A11-02A- hall wall H600 Exterior Wall Elevation shows these walls to be straight. Drawing A30-05, Detail 5 shows this wall radius. If this wall us radius, details are needed.

**Answer:**

This is a circular recess wall seating. See interior corridor elevation 2/A22-04 and A22-06.

**Question:**

Contract A-5 summary of work ccc, calls for plastic paneling. This is not shown on the finished schedule or shown on the plans. Will plastic paneling be required?

**Answer:**

Plastic paneling is required at floor sinks/mop receptors. see detail 15/ACODE-03.

**Question:**

Contract A-5 summary of work yy- sun control. This is not shown on drawings. Is this part of the carpentry contract?

**Answer:**

Not required.

**Question:**

Contract A-5 summary of work ww, louvered roof top screens, none are shown. Is this part of the carpentry contract?

**Answer:**

Not required.

**Question:**

Contract A-5 summary of work Rr, calls for wood stage flooring. This is not shown on the finished schedule, details are needed.

**Answer:**

Not required.

**Question:**

Contract A-5 summary of work EE, calls for Azek, field built columns, RFP Panels, wood steps.

There are no details, will these items be required?

**Answer:**

There is no Azek; metal column enclosures identified addendum 4; RFP panels question answered above; delete reference to wood steps.

**Question:**

Contract A-5 summary of work NN – appliances, can you provide the quantities.

**Answer:**

See architectural Directive for quantities and locations.

**Question:**

Specification section 113100- calls for tests, inspections and demonstration. This is not offered by vendors. Can this be waived?

**Answer:**

Section 3.4; A. Perform tests and inspections; 1. Manufacturers Field Service will be removed from the spec. Section 3.4; B. tests and Inspections will be required.

**Question:**

Drawing A11-016, there are lockers shown with no reference drawing. This is the case in most locations where lockers are located. Locker drawings are needed.

**Answer:**

See architectural Directive regarding lockers.

**Question:**

Specifications are needed for Metal Enclosures

**Answer:**

See architectural Directive regarding metal column enclosures.

**Question:**

Are steel plates requires on top of parapet walls

**Answer:**

Plates are not required unless specifically noted.

**Question:**

The Symbol that is shaped like a triangle are represented on addendum drawings. What does this indicate?

**Answer:**

A revision identified in Addendum.

**Question:**

There are no microwaves shown on drawing, are these required? if so how many and locations are needed.

**Answer:**

Yes, See architectural Directive for quantities and locations.

**Question:**

Where are the arch. Louvers located for Contract -5

**Answer:**

See addendum No.2, RFI 1, question response.

**Question:**

What areas are the plastic paneling required? None are shown on the finished schedule

**Answer:**

See response 2 above.

**Question:**

Summary of Contract-5 is needed

**Answer:**

Refer to Specification Section 011100 Summary of Work.

**RFI 26**

**Question:**

Please clarify flooring finish in the following rooms:

ME002 (drawing A81-01C) – concrete or VCT3

CN102 (drawing A81-01C) – concrete or VCT3

402.2 (drawing A81-026) – VCT3?

A205 (drawing A81-02A) – VCT3 & resilient base or CT1 & CTB1?

Elevator near Stair A – no flooring noted

**Answer:**

ME002-Concrete; CN102-Concrete; 402.2- VCT3; A205- CT1B &CTB1; Elevator VCT3.

**Question:**

Who is responsible for floor striping in gymnasium? Please provide specification for striping.

**Answer:**

Gymnasium floor striping will be Altro Serenade flooring laser cut into the Altro wood Smooth Acoustic flooring. See architectural directive. Contract 11 Floor Covering is to provide.

**Question:**

In reference to ceramic wall tile. Are all bathrooms on the finish plan w the wall finish CT to have tile wainscot on ALL walls or just wet walls/walls shown on elevations Page A50-1,2,3 get tile?

**Answer:**

All walls. Note: See typical elevations on A81-01 for accent band to be included on all ceramic walls.

**Question:**

There is no clear specification for ceramic tile crack isolation/waterproofing.

Does the architect want full coverage membrane in all baths or partial coverage at cracks as needed?

**Answer:**

See architectural directive. A shower base sump detail has been added showing waterproof membrane. Provide crack isolation at all floor cracks for proper floor preparation.

**Question:**

Flooring Scope of Work item B. and Q. asks us to provide preparation of floor and wall to receive tile. At the bidding stage of this project it is not possible to determine the extent of how much leveling/patching/flashing 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. Please clarify the extent of what patching/prep we are responsible for or place this work in an allowance.

**Answer:**

No allowance will be given, bid project accordingly.

**Question:**

Drawing ALT1 – A05 - Please clarify flooring finish in two bathrooms, janitors closet & room closet. None of these areas have room numbers or a finish key.

**Answer:**

Closet 201.3-Match Closet 204.3; Toilet 201.1 & 201.2 - Match Toilet 204.2; Custodial C200 - Match Elec Room ME200.

**Question:**

Scope of work O. do we provide Schluter or tile bullnose at outside corners? Specs say bullnose, SOW says Schluter.

**Answer:**

Provide per ceramic specifications and drawings. Bullnose at outside corner.

**Question:**

There are preformed shower bases called out for the showers. Do the walls of the showers get tile?

**Answer:**

See architect directive for shower base detail.

**Question:**

After review of drawings the ceramic tile package accounts for a large portion of the Flooring Bid Pack. All companies bidding the flooring package sub contract their ceramic tile work with the exception of one company adding on unnecessary mark up. Breaking out ceramic tile in its own separate bid package can create a large dollar savings to the owner for this job. Can Ceramic tile be broken out in its own separate bid pack to offer the owner better, more competitive numbers on the ceramic tile and flooring finish?

**Answer:**

Project is to be bid in accordance of bid documents.

**RFI 27**

**Question:**

Specification section Evaporative Cooler page 236500-5, Part 2.1;A;3, please clarify "Evapie"

**Answer:**

2.1; A.;3. correct typo to read "Evapco".

End of Addendum No. 5

**CAPE HENLOPEN SCHOOL DISTRICT  
Sussex Consortium School**

ADDENDUM NO. 5

1.0 NOTICE TO ALL BIDDERS:

- 1.1. Bidders are hereby notified that this Addendum shall be and hereby becomes part of their Contract Documents, and shall be attached to the Project Manual for this project.
- 1.2. The following items are intended to revise and clarify the Contract Documents, and shall be included by the Bidder in their proposal.
- 1.3. Bidders shall verify that their sub-bidders are in full receipt of the information contained herein.

2.0 CLARIFICATIONS:

- 2.1 Substitution request submitted for "Trane U.S. Inc." ERV-1 through ERV-7 is not approved.
  - a. Most of the units are much longer and heavier than basis of design that would most likely require some revision on the part of the design team. Also, performance data is hit and miss on most units:
    - Energy Wheel Efficiencies are lower than scheduled.
    - Coil fluid flow rates are higher than scheduled.
    - Different values of Airflow rates are used throughout unit selections when comparing coil, fans and heat pipe airflow rate values.
    - Winter performance for Energy Wheel is missing or wrong.
    - Rooftop units seem to be chosen where there would be exposed duct on the roof when design documents show ductwork through the unit curb.
    - Electrical data was limited to voltage and phase of unit. We could not locate anything related to Full Load Amps, Motor Overcurrent Protection, Minimum Circuit Ampacity, etc.
- 2.2 Substitution request for "Raypak, Inc." XFYRE Condensing Boilers is approved as an acceptable product with the following conditions:
  - a. Boiler Performance shall meet scheduled performance based on 30% Propylene Glycol Content. This information was not submitted in the substitution request. This will be something we look for in the official submittal process.
  - b. Flue and Intake duct sizes shall be as shown on the Contract Documents and not necessarily unit connection sizes.
- 2.3 Substitution request for "Draper Inc" Clutch Operated FlexShade System is approved as an acceptable product for section 122124 Motorized Roller Shade System.

- 2.4 Substitution request for “Draper Inc” Motorized FlexShade System is approved as an acceptable product for section 122125 Manual Roller Shades.
- 2.5 Substitution of “Crossville”, “Florida Tile Industries, Inc.”, and “American Olean” are approved as an acceptable product for section 131161 Pool Ceramic Tile.
- 2.6 Substitution request for “Platinum Visual Systems” for markerboards, tackboards was received after submittal deadline and was not reviewed.
- 2.7 Substitution request for “List Industries, Inc.” for metal lockers was received after submittal deadline and was not reviewed.
- 2.8 Additional concrete paving to access flagpoles has been added to the drawings. See plan on attached sketch ASK-004.
- 2.9 NOTE: Pool specification sections were combined as one file and issued in the bid set as pdf file Section131113 – Pool General. The additional headings will be added to the Table of Contents. The additional headings are in sequential order and shall be included in project scope. The combined Specification pdf includes the following:
  - a. Section 131114 – POOL MAINTENANCE AND OPERATIONS TRAINING
  - b. Section 131118 – POOL CONCRETE
  - c. Section 131120 – POOL PIPE AND PIPE FITTINGS
  - d. Section 131123 – POOL PIPE SUPPORTS
  - e. Section 131124 – POOL VALVES
  - f. Section 131125 – POOL CENTRIFUGAL PUMPS
  - g. Section 131130 – POOL REGENERATIVE MEDIA FILTERS
  - h. Section 131135 – POOL ULTRAVIOLET DISINFECTION EQUIPMENT
  - i. Section 131140 – POOL HEATING SYSTEMS
  - j. Section 131145 – POOL RAIL GOODS
  - k. Section 131146 – POOL EQUIPMENT
  - l. Section 131160 – POOL QUARTZ AGGREGATE FINISH
  - m. Section 131161 – POOL CERMAIC TILE
- 2.10 Residential Appliances are specified in section 113100 and are graphically shown (exception refrigerator in room A111, A211 and microwave ovens) on plans and casework elevations but not clearly noted. Provide the following appliance in rooms as indicated below:
  - a. Washer: Rooms 300, 411.1, 506, CN101.6. ALT 7 Room: LS-001.
  - b. Dryer: Rooms 300, 411.1, 506, CN101.6. ALT 7 Room: LS-001.
  - c. Electric Range: Rooms 300, 401, 405, 411, 506. ALT 7 Room: LS-001.
  - d. Dish Washer: Rooms 300, 401, 405, 411, 506. ALT 7 Room: LS-001.
  - e. Refrigerator: Rooms 300, 303, 304, 305, 308, 309, 310, 311, 314, 315, A210, CN103, 410, 404, 405, 408, 411, 506, A111, A211. ALT 5 Rooms: 316, 317, 410, 413. ALT 7 Room: LS-001.
  - f. Counter-top Microwave Oven: Rooms 300, 303, CN103, A210, A506, 401, 411, ALT 5 Room 413, ALT 7 Room LS-001.
- 2.11 Metal Lockers specified in section 105113 and are identified on the A60 series drawings as identified in Kitchen room CN101.5, Receiving room CN103, Classrooms and Hallway H500. See A62-03 for details. All lockers are two-tier.
  - a. Metal lockers are graphically shown, but not noted in ALT5 Room 316, 317, and 400. Add elevation tag 4/A62-03 to lockers located within room adjacent closet doors.

- 2.12 Solid Plastic Lockers are specified in section 105126 and are graphically shown, but not noted in ALT3 locker rooms N104, N106, and N107. The only detail shown is section detail 2/ALT3 A05. All lockers are two-tier. Provide all solid plastic filler panels and finished end panels similar to detail 4/A62-03. Provide the following quantity of two-tier lockers in each room where graphically shown in each room and as noted below:
- a. Room N104: Quantity 15
  - b. Room N106: Quantity 15
  - c. Room N107: Quantity 3
- 2.13 Custom Metal Column Enclosures at columns BA-B19, BB-B19, BA-B21, BB-B21, C24-CK and C26-CK to be prefabricated aluminum snap-lock two-piece modular units with 6" high top and bottom inset reveals and flush vertical joints. Material thickness as recommended by manufacturer for size and configuration of cover (0.080" minimum). Finish to be 2-coat fluoropolymer or polyester powdercoat in Silver Mica color. Provide SAF Metals M-1000 column covers as basis of design. Additional acceptable manufacturers include Pittcon EEC series, Centria 3000 series, or equal alternate. Profiles as follows:
- a. Interior water feature wall ends in Hallway H001 columns BA-B21 and BB-B21: 12"x12" square.
  - b. Interior curtainwall columns BA-B19 and BB-B19: 12"x16" rectangular.
  - c. Interior columns CK-C24 and CK-C26 in Cafeteria CN100: 14"x14" square.
- 2.14 Shower and Tub surrounds to be ceramic tile. A typical shower stall detail has been added to Drawing A-50-03 and includes depressed slab requirement at all showers. A structural detail has been added to Drawing S51-01 for slab depressions located on upper floors. See changes to drawings below.

### 3.0 CHANGES TO THE DRAWINGS:

- 3.1 Add the following Add Alternate Eleven - Decorative Landscaping Drawings:
- 3.1.1 L-100 – Decorative Landscape Plan
  - 3.1.2 L-101 – Decorative Landscape Plan
- a. Note: plans L-100 and L-101 are for decorative landscaping only. Additional walkways shown on these plans are not in contract.
- 3.2 Replace drawing A82-01 with attached revised drawing:
- a. Revised Interior Signage types to coordinate with specification section 101400.
  - b. Add Sheet vinyl flooring SV-8 and SV-9 for gym game lines and markers. Note: Distribution of colors to clarified during submittal process.
- 3.3 Replace drawing S51-01 with attached revised drawing S51-01;
- a. Added Typical Depressed Elevated slab.

Replace the following Plumbing drawings with attached revised drawings:

- 3.3.1 PD11-01D
  - a. ADD: Add a 3/4" NFWH as indicated in Part Plan #1 & #2 on this drawing.
- 3.3.2 PD51-03

- a. REVISE: Riser Plan #2 was missing Pipe Sizes and  $\frac{3}{4}$ " NFWH was not showing up. These issues have been resolved.
- 3.3.3 PD51-06
    - a. ADD: Add a  $\frac{3}{4}$ " NFWH as indicated in Riser Plans #1 (Toilet 209.2) and Riser Plan #2 (Toilet 211.1)
    - b. REVISE: Riser Plan #2 was missing Room Designations. This issue has been resolved.
  - 3.3.4 PD51-14
    - a. REVISE: Riser Plan #2 was missing Room Designations. This issue has been resolved.
- 3.4 Revise drawing A50-03; add Typical shower detail as indicated on attached sketch ASK-005.
  - 3.5 Revise drawing ASIGN-01;
    - a. Add detail 8 – Partial plan showing additional concrete paving for flagpole access. (Reference attached sketch ASK-004)
    - b. Add detail 9 – Typical Flagpole Foundation (note these dimensions will vary depending on manufacturer. Actual foundation dimensions to be supplied by approved manufacturer selected by contractor). (Reference attached sketch ASK-004).
  - 3.6 Revise drawing TE-10-01A LEVEL 1 FLOOR PLAN - AREA "A" – TECHNOLOGY;
    - a. OFFICE G100.4; ADD: Add one data outlet (triangle with "3" adjacent) in south corner of room at desk.
    - b. CONFERENCE ROOM A109;
      - REVISE - Change "V" to "P" in floor box.
      - DELETE – Delete wall video high outlet on south wall.
      - ADD - Add Projector High outlet on center of west wall and provide conduit to connect to projector low outlet in floor box.
    - c. OFFICE G100.1; DELETE – Delete data outlet on north /exterior wall of office.
  - 3.7 Revise drawing TE-10-01B LEVEL 1 FLOOR PLAN – AREA "B" – TECHNOLOGY;
    - a. PRE-K SUITE C202; REVISE – (Adjust connections to match modular furniture layout – furniture plan to be coordinated during construction period). Plan as follows:
      - Provide two data outlets (triangles with "3" adjacent) on east wall of room.
      - Provide wall junctions box on south wall to feed four data outlets (triangles with "3" adjacent) in modular furniture.
- 4.0 CHANGES TO THE SPECIFICATIONS:
    - 4.1 Replace Section 101400 – Interior Signage with attached revised section 101400; Revised Schedule 3.3; A. and B.
    - 4.2 Revise Table of Contents: Add missing spec headings: (docs attached to section 131113 pdf)
      - a. Section 131114 – POOL MAINTENANCE AND OPERATIONS TRAINING
      - b. Section 131118 – POOL CONCRETE
      - c. Section 131120 – POOL PIPE AND PIPE FITTINGS
      - d. Section 131123 – POOL PIPE SUPPORTS
      - e. Section 131124 – POOL VALVES

- f. Section 131125 – POOL CENTRIFUGAL PUMPS
- g. Section 131130 – POOL REGENERATIVE MEDIA FILTERS
- h. Section 131135 – POOL ULTRAVIOLET DISINFECTION EQUIPMENT
- i. Section 131140 – POOL HEATING SYSTEMS
- j. Section 131145 – POOL RAIL GOODS
- k. Section 131146 – POOL EQUIPMENT
- l. Section 131160 – POOL QUARTZ AGGREGATE FINISH
- m. Section 131161 – POOL CERMAIC TILE

4.3 Revise Section 096516.14 Sheet Vinyl Floor Coverings; Add flooring as follows:

- a. 2.1; A.; 1. ADD item “d. Altro Serenade (Game lines and markers)
- b. 2.2; change to read Altro Wood Smooth Acoustic with Altro Serenade game lines and markers.
- c. Replace heading 3.5 to read:  
3.5 GAME LINES AND MARKERS
  - A. Provide Altro Serenade game lines and markers within the Altro Wood Smooth Acoustic field, laser-cut and heat weld edges.
  - B. Lay out game lines and markers for athletic activities indicated. Additional dimensions to be provided during submittal process to reflect graphic markings indicated on drawings.
- d. Move heading 3.5 Cleaning and Protection to heading 3.6.

4.4 Revise Section 113100 – Residential Appliances

- a. 1.7 Warranty; Items B, C, D, E, F, and G.; Revise Warranty Period: “One year from date of Substantial Completion” to read “Two years from date of Substantial Completion”. Two year is State of Delaware minimum warranty requirement.
- b. 3.4 Field Quality Control; Delete Item A. and subparagraph A.; 1.
- c. Tests and inspections 3.4 Item B., C. and D. remain as specified.

4.5 Revise Section 114000 – Food Service Equipment

4.5.1 ITEM #28 EXHAUST HOOD

- a. Modify 3<sup>rd</sup> paragraph as follows:

~~Furnish Coordinate, as part of the exhaust hood, Captive Aire #EMS Modulating Energy Management System to control both the supply and exhaust fans. System shall be listed by ETL (UL 508A). Provide stainless steel NEMA 1-rated control enclosure with push buttons for fan start and airflow override with indicator lights for power, fans and airflow override. Provide timer with one instantaneous and one delay contact adjustable from .5 seconds to 30 days. Provide as built wiring diagrams and spare terminals controlled by the fire system micro switch. Provide factory pre-wiring to automatically shut down supply fans in a fire condition. Provide variable frequency drives (VFD's) to allow full adjustment of high and low speed airflows and fan motor thermal overload protection. Provide adjustable temperature switch mounted in the exhaust hood duct riser. supply of MELINK system as outlined in Section 238222, Packaged Kitchen Hood Ventilation Control System and all other related Sections as defined therein.~~

- b. Modify 4th paragraph as follows:

Electrical Trade shall coordinate the inter-wiring of the ~~EMS~~ **MELINK system as outlined in Section 238222, Packaged Kitchen Hood Ventilation Control**

*System* between the control enclosure, remote room temperature sensor, fire system, supply and exhaust fans and variable frequency drives and duct riser temperature switch.

- c. Modify 10th paragraph as follows:

Mechanical (HVAC) Trade shall furnish and install a complete exhaust air handling system including exhaust fan with INVERTER DUTY THREE PHASE MOTOR, controller, fan start-stop switch with status lights, 16 gauge insulated welded ductwork from exhaust collar on exhaust hood to fan, hinged roof curb with grease trough and removable grease container. **Refer to Section 238222, Packaged Kitchen Hood Ventilation Control System for additional information. Coordinate supply and installation with trades for all related sections, as shown in Section 238222.**

- d. Modify 12th paragraph as follows:

Mechanical (HVAC) Trade shall furnish and install a complete supply air handling system including supply fan and controller (with maintainable filter system) and supply air heater with thermostat control (to temper incoming supply air below 65 degree F ambient), fan start-stop switch with indicator lights, galvanized steel ductwork from supply collar on exhaust hood to fan and roof curb. **Coordinate with Section 238222, Packaged Kitchen Hood Ventilation Control System for additional information.**

- e. Modify 13th paragraph as follows:

Electrical Trade shall furnish and install interconnecting wiring between fan motors, controllers and switches. **Coordinate with Section 238222, Packaged Kitchen Hood Ventilation Control System.**

- f. Modify 14th paragraph as follows:

Electrical Trade shall furnish and install inter-wiring of cooking appliance start-up inter-lock device and the supply and exhaust ventilation system and wire per the manufacturer's instructions and per applicable codes. **Coordinate with Section 238222, Packaged Kitchen Hood Ventilation Control System.**

- g. Modify 16th paragraph as follows:

Electrical Trade shall furnish materials and inter-wire light fixtures to UDS. **Coordinate with Section 238222, Packaged Kitchen Hood Ventilation Control System.**

#### 4.5.2 ITEM #28A FIRE SUPPRESSION SYSTEM

- a. Modify 4<sup>th</sup> paragraph as follows:

Inter-wiring of the fire system to the exhaust hood shall be furnished and installed by the Electrical Trade. **Refer to Section 238222, Packaged Kitchen Hood Ventilation Control System for additional information.**

#### 4.5.3 ITEM #31 UTILITY DISTRIBUTION SYSTEM

- a. Modify 3rd paragraph as follows:

Primary riser shall be furnished with built-in exhaust hood controls, including push button fan control switches with status lights, individual and shunt-trip main circuit breaker and emergency “kill” button with guard. **Coordinate with Section 238222, Packaged Kitchen Hood Ventilation Control System for additional information.**

- b. Modify 4<sup>th</sup> paragraph as follows:

Provide as part of raceway exhaust hood interlock device to prevent all electrically and gas operated cooking appliances from operating unless the supply and exhaust fans of the exhaust hood is operating as required by all local and prevailing codes including IMC 2015. **Coordinate with Section 238222, Packaged Kitchen Hood Ventilation Control System.**

- 4.6 Revise Section 236500 – Evaporative Cooler; 2.1; A.; Item 3. Revise text “Evapie” to read “Evapco”.
- 4.7 Revise Section 238125 - VARIABLE REFRIGERANT VOLUME SPLIT SYSTEMS WITH HEAT RECOVERY (WATER COOLED SYSTEM)
- a. ADD: PARAGRAPH 2.1.A.1 – MANUFACTURERS, add SAMSUNG as an approved Manufacturer.

END OF ADDENDUM NO. 5

## SECTION 101400 – INTERIOR SIGNAGE

### PART 1 – GENERAL

#### 1.1 SECTION INCLUDES

- A. Vandal Proof ADA compliant tactile signage
- B. Plastic/Paper sign inserts.
- C. Plastic sign inserts.
- D. Tool for changing signs.

#### 1.2 RELATED SECTIONS

- A. Section 06200 - Finish Carpentry: For installation materials and sign installation.

#### 1.3 REFERENCES

- A. Title III of the "Americans with Disabilities Act of 1990", (ADA), Department of Justice.
- B. "American National Standard for Buildings and Facilities" CABO/ANSI A117.1-1992, Council of American Building Officials/American National Standards Institute.
- C. The Uniform Building Code, as adopted by the State of Delaware.

#### 1.4 SUBMITTALS

- A. Submit the following in accordance with Section 01300:
  - 1. Product Data: Manufacturer's material description and fabrication methods.
  - 2. Shop Drawings
  - 3. Samples: One full size sign including frame and insert in colors specified and graphics scheduled.

#### 1.5 QUALITY ASSURANCE

- A. Manufacturer's Qualifications:
  - 1. Company with not less than 5 successive years experience in the manufacture of interior building signs. Bidder must perform the actual manufacturing and cannot subcontract the job out to another manufacturer.

2. Furnish a list of at least 3 signage projects completed in the previous 2 years.

#### 1.6 DELIVERY, STORAGE AND HANDLING

- A. Deliver signs to the project site (or requested destination). Signs must be boxed and have protective wrap to prevent damage during delivery and storage. Store signs in dry area protected from the elements.

### PART 2 - PRODUCTS

#### 2.1 MANUFACTURERS/FABRICATORS

- A. Standard of Quality: Take Form, Fusion is the “Standard of Quality” for everything except Braille dots; manufacturers licensed to use this process need not obtain substitution approval prior to bid, but must furnish a letter certifying that they are providing New Hermes, Inc. patented products.
- B. Acceptable Fabricators: Subject to compliance with requirements, acceptable fabricators and products are:
  1. Take Form
  2. 4Sign Solutions
  3. Best Manufacturing
  3. ASI Sign Systems

#### 2.2 SIGN SYSTEM

- A. Modular Sign Frame System: Injection molded high impact styrene frames.
- B. 1-ply modified Gravo-Tac® acrylic sign inserts.
- C. Signage shall incorporate a decorative laminate face with applied graphics.
- D. All signs, including room identification, directories and wayfinding shall have a matching appearance.
- E. Insert Tool: Clear flexible vinyl suction cup.

#### 2.3 MATERIALS/COMPONENTS/DESIGN

- A. Frame Design: Fabricated with 2 reveals; rear reveal for projected appearance, front reveal for recessed appearance. Frames feature holes modularly placed to accommodate snaplocks attached with adhesive to insert panels for positioning multiple inserts. Pre-grooved back reveal to ensure tape concealment and molded holes to accommodate standard hardware for various types of wall installation.
  1. Frame Shapes and Sizes: Refer to project signage sheet for specific information on frame shape, size and corner style.
  2. Frame Colors: As selected from manufacturer’s full range.

3. Frame Variations: Refer to project sign schedule for specific information on frame variations.
  - a. Frames may be joined back-to-back for mounting perpendicular to walls and ceilings (requires special mounting fixture).
  
- B. Signs
  1. Types:
    - a. PLASTIC LAMINATE: High pressure surface laminate, 0.035 inches (nominal)
      1. Sign shall incorporate balanced construction with the core sandwiched between laminates to prevent warping.
      2. Signs shall incorporate a metal accent bar. Bars shall be anodized with a brushed satin finish.
    - b. APPLIED: Acrylic 1-ply 2-piece construction modified acrylic sign material consisting of 1-ply, 1/16 inch substrate and 1-ply, 1/32 inch profile material to create tactile copy and graphics.
    - c. INLAY: Gravo-Tac® 1-ply, 3-piece construction, modified acrylic sign material consisting of two 1-ply 1/32 inch thick acrylic (two-colors) bonded together, with 1/16 inch profile material to create tactile copy and graphics.
    - d. Supply guarantee for profile and Braille abuse of 5 years
  2. Finishes and Colors: Acrylic, matte finish, ADA compliant for color contrast and surface finish. Refer to project sign schedules for specific information on colors. Colors will be selected by architect/owner from manufacturers full range.
  
  4. Graphics
    - a. Tactile Type: RLS System using acrylic computer engineered, adhesive-backed, raised graphics, complying with ADA, Sections 4.30.3, 4.30.4 and 4.30.5.
    - b. Pictograms: All “symbols” must match as closely as possible the published “international” symbols. Other interpretations will not be deemed acceptable. All symbols must be approved prior to fabrication.
    - c. Braille: Use drill and press-fit method for placing Braille dots on architectural signs; computer engineered, using special carbide engraving bit, press-fit tool with vacuum pump, and UV stable acrylic Rasters®.
    - d. Design:
      - 1) Character and Number Height: 5/8 inch minimum, 2 inch maximum, except when otherwise needed to meet requirements of ADA Section 4.30.3.
      - 2) Character and Number Depth: Raised minimum 1/32 inch.
      - 3) Copy Style: Upper case, sans serif.

- 4) Braille: Grade 2 (conforming to Specifications #800, National Library Service, Library of Congress), rounded or domed, 0.019 inch to 0.025 inch high, to allow smooth tactile sweep of the fingers, from left to right. Braille dots should be of uniform depth. The background surface needs to be smooth without ridges or other intrusions that will interfere with the ability to read the dots. Raised elements, such as borders, shall be separated a minimum of 3/8 inch from the Braille dot cell groups. This clearance dimension is to be applied to the depression caused by a routed, or similar Braille fabrication system, to the distance of the border to tactile characters, or from dots to tactile characters in an acrylic dot type system. A clear cell may be inserted at the beginning and end of a row to set the left and right border spacing in lieu of 3/8 inch. Maintain one of the following configurations for dot/cell measurement:

	<u>ANSI</u>	<u>ADA</u>	<u>CA24</u>
Dot to Dot	0.092 inch	0.090 inch	0.100 inch
Cell to Cell	0.245 inch	0.241 inch	0.300 inch
Row to Row	0.40 inch	0.395 inch	---

- 5) Braille Message: All messages to be lower case, and may not directly reflect the style of the tactile letters.
- 6) The Braille area is to be located below the corresponding tactile text. On directional signs displaying more than one directive, braille should be placed below each directive. On signs other than directional signs, if the tactile print message is multi-lined and expresses a phrase, the entire Braille text should be grouped together below the print message.
- 7) In alpha/numeric format, if tactile print reads A324B, in braille, text should be written: /capital sign/letter/number sign/numerals/letter sign/capital sign/letter. Do not use double capital sign /dot 6/dot 6/.
- 8) If tactile message is: ← (arrow)  
 In braille, text should be written: /"ar"/r"/ow"/space/l/e/f/t/.
4. Engraving Process: Tactile signage shall be profile engraved in accordance with the manufacturer's instructions.
- a. Inlay Method: After 2-ply substrate has been bonded together and cut to size, cut inline text/graphics through top ply and weed immediately. Cut outline text/graphics from the 1/16 inch profile material and adhere text/graphics to the substrate with Gravo-Bond.
5. Sign Insert to be slid into window opening for ease of sign changeover.
- a. Sign inserts are to be made of:
- i. stock paper for ease to customer change over
  - ii. 1/32" gravoply acrylic with engraved copy

6. Copy Window Signs: Manufacture by attaching front piece of 1/32 inch color acrylic material with adhesive to one piece of 1/32 inch clear acrylic material with no adhesive. Assemble inside frame for alignment purposes. Cut a rectangular window out of the front piece and weed out. Apply the profile material and engrave copy/graphics. Then apply strips of 1/32 inch double-sided adhesive tape 1/8 inch away from the top and bottom of the window opening as well as at other areas on the sign deemed necessary to adhere the front piece to the color back piece. Paper insert nameplate should move smoothly when assembled.
  - a. Manufacturer will supply owner with computer software and sample layouts for paper insert nameplates for copy window signs upon request.
  - b. All signs, with the exception of directories and directionals, shall be a uniform 8-1/2 inch width to facilitate inserts printed on standard paper.

## 2.4 SOURCE QUALITY CONTROL

- A. PROOFREADING: Vendors may obtain independent certification. Certified proofreaders may verify that the Braille is correct by review of the sign fabricators text proofs prior to fabrication, and/or, review of signs after fabrication. Proofreading will confirm that the braille segment is in accurate Grade 2 Braille that adheres to the guidelines and accurately reflects the intent of the communication for the braille reader. Any sign found to be in error is to be replaced and proofread at no cost to the owner.
  1. All signs may be proofread by a certified braille reader licensed by the Library of Congress to read Grade 2 Braille.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine the substrates and conditions under which the work is to be performed, and notify the Contractor in writing of conditions detrimental to the proper and timely completion of the work. Do not proceed with the installation until unsatisfactory conditions have been corrected.

### 3.2 INSTALLATION

- A. Mount sign frames with metal screws or other appropriate hardware suitable to the substrate to which the frame will be mounted. Mount sign to frame with double-coated acrylic, adhesive-backed foam tape. Mounting height to comply with ADA, Section 4.30.6, typically as follows:
  1. 40 inches from floor to centerline of sign for elementary schools
  2. 60 inches from floor to centerline of sign for all other buildings
- B. Where permanent identification is provided for rooms and spaces, signs shall be installed on the wall adjacent to the latch side of the door. Where there is no wall space to the latch side of the door, signs shall be placed on the nearest adjacent wall. Mounting location for such signage shall be so that a person may

approach within 3 inches of signage without encountering protruding objects or standing within the swing of the door.

3.3 SCHEDULE

A. Provide the following interior signs: (see room list indicated below:)

Sign Type as per Take Form, or approved equal:							
Restroom Identification Signs							
1A	8.5" x 9.25"	Pictorial; Men w/ Accessible					
1B	8.5" x 9.25"	Pictorial; Women w/ Accessible					
1C	8.5" x 9.25"	Pictorial; Accessible Men/Women Restroom					
1D	8.5" x 9.25"	Pictorial; Accessible Family Restroom					
Room Identification Signs							
2A	8.5" x 6.75"	Room Number and Room or Suite Name					
2C	8.5" x 4"	Text Only (No Room #)					
Room Identification Signs with Windows							
3A	5" x 5.25"	<b>Room Number Only</b>					
3B	8.5" x 6.75"	Text and Room Number w/ 1 slot					
3C	8.5" x 4"	Text w/ 1 slot (No Room #)					
Stair & Elevator Signs							
9B	8.5" x 9.25"	Pictorial; <b>Elevator</b> with Handicap					
9E	8.5" x 9.25"	Pictorial; Stair					

B.

Cape Henlopen School District - Sussex Consortium				
Signage Schedule				
<b>FIRST FLOOR</b>				
Room Number	Sign Number	Sign Type	Sign Name	Miscellaneous
H001		7	→ CLASSROOMS 102-113 → ELEVATOR ← CAFETERIA ← GYMNASIUM ← CLASSROOMS 304-315	(across the hall from Door A101)

A100		-	VESTIBULE	
A101		2A	MAIN OFFICE	(@ Door A101)
<b>Room Number</b>	<b>Sign Number</b>	<b>Sign Type</b>	<b>Sign Name</b>	<b>Miscellaneous</b>
A101.1		1C	TOILET	
<b>A101</b>		<b>2A</b>	<b>MAIN OFFICE</b>	<b>(@ Door A101.2)</b>
<b>A101</b>		<b>2A</b>	<b>ADMINISTRATION SUITE</b>	<b>(@ Door A101.3)</b>
A102		-	RECEPTION	
A103		2C	FINANCE	
A104		2C	ASSISTANT PRINCIPAL	
A105		2C	ASSISTANT PRINCIPAL	
A106		2C	STORAGE	
A107		2C	RECORDS	
A108		3B	MAIL/COPY ROOM	(@ Door A108)
<b>A108</b>		<b>3B</b>	<b>MAIL/COPY ROOM</b>	<b>(@ Door A108.1)</b>
A109		3B	CONFERENCE ROOM	(@ Door A109)
<b>A109</b>		<b>3B</b>	<b>CONFERENCE ROOM</b>	<b>(@ Door A109.1)</b>
A110		2A	ADOS ROOM	
A110.1		2C	CLOSET	
A111		3B	NURSE	
A111.1		1C	TOILET	
<b>A111.2</b>		<b>2C</b>	<b>STORAGE</b>	
<b>C003</b>		<b>2A</b>	<b>CUSTODIAN</b>	
C100		2A	CUSTODIAN	

CN100		<b>2C</b>	CAFETERIA	<b>(@ Door CN100.3)</b>
CN100.1		<b>2A</b>	CUSTODIAN	
CN101		2C	KITCHEN	<b>(@ Door CN101)</b>
<b>CN101</b>		<b>2C</b>	<b>KITCHEN</b>	<b>(@ Door CN101.9)</b>
CN101.1		<b>3B</b>	OFFICE	
CN101.2		2C	DRY STORAGE	
CN101.4		1C	TOILET	
CN101.5		2C	LOCKERS	
CN101.6		2C	LAUNDRY	
<del>CN101.7</del>		<del>2C</del>	<del>DISHWASHING</del>	
<b>CN101.8</b>		<b>2C</b>	<b>STORAGE</b>	<b>(@ Door CN101.8)</b>
CN102		2C	STORAGE	
CN103		2C	RECEIVING	
<b>Room Number</b>	<b>Sign Number</b>	<b>Sign Type</b>	<b>Sign Name</b>	<b>Miscellaneous</b>
CN103.2		<b>3C</b>	CHIEF CUSTODIAN	
<b>CN103.3</b>		<b>2C</b>	<b>STORAGE</b>	
<b>CN103.4</b>		<b>1C</b>	<b>TOILET</b>	
<b>CN103.5</b>		<b>2C</b>	<b>STORAGE</b>	
<b>CN103.6</b>		<b>2C</b>	<b>STORAGE</b>	
<b>E1</b>		<b>9B</b>	<b>ELEVATOR</b>	
<b>E1.1</b>		<b>2C</b>	<b>ELEVATOR MECHANICAL</b>	
G100		2C	GYMNASIUM	
G100.1		<b>3C</b>	OFFICE	

G100.2		1C	TOILET	
G100.3		2C	STORAGE	
G100.4		3C	OFFICE	
H001		-	HALLWAY	
<b>H002</b>		7	→ CLASSROOMS 102-113 → ELEVATOR ← CLASSROOMS 304-315 ← STAIR	(across the hall from Toilet T301)
H003		2C	HALLWAY	(@ Door 003 in Hallway 002)
H100		-	HALLWAY	
H300		-	HALLWAY	
ME001		2C	ELECTRICAL	
ME002		2C	MECHANICAL	
ME003		2C	MECHANICAL	
ME003.1		2C	ELECTRICAL	(@ Door ME003.4)
ME003.2		2C	PUMP ROOM	(@ Door ME003.3)
ME004		2C	IDF	
ME100		2C	IDF	
ME101		2C	ELECTRICAL	
ME300		2C	ELECTRICAL	
ME300.1		2C	IDF	
SA1		9E	STAIR A	
<b>SB1</b>		<b>9E</b>	<b>STAIR B</b>	
SC1		9E	STAIR C	
SD1		9E	STAIR D	

T100		1C	STAFF TOILET	
<b>Room Number</b>	<b>Sign Number</b>	<b>Sign Type</b>	<b>Sign Name</b>	<b>Miscellaneous</b>
T101		1C	STAFF TOILET	
T300		1B	WOMENS TOILET	<b>(@ Door T300)</b>
<b>T300</b>		<b>1B</b>	<b>WOMENS TOILET</b>	<b>(@ Door T300.1)</b>
T301		1A	MENS TOILET	<b>(@ Door T301)</b>
<b>T301</b>		<b>1A</b>	<b>MENS TOILET</b>	<b>(@ Door T301.1)</b>
TR001		3B	OFFICE	
TR002		2C	TRANSPORTATION	<b>(@ Door TR001.1 in Office TR001)</b>
TR002.1		1C	TOILET	
101		<b>2A</b>	QUIET	
102		3B	CLASSROOM	
102.1		1C	TOILET	
102.2		1C	TOILET	
102.3		2C	CLOSET	
103		3B	CLASSROOM	
103.1		1C	TOILET	
103.2		1C	TOILET	
103.3		2C	CLOSET	
104		<b>2A</b>	<b>OBSERVATION / THERAPY</b>	
105		<b>2A</b>	<b>OBSERVATION / THERAPY</b>	
106		3B	CLASSROOM	

106.1		1C	TOILET	
106.2		2C	CORRIDOR	(@ Door 106.2)
<b>106.2</b>		<b>2C</b>	<b>CORRIDOR</b>	<b>(@ Door 108.1)</b>
106.3		1C	TOILET	
106.4		2C	CLOSET	
107		3B	CLASSROOM	
107.1		1C	TOILET	
107.2		2C	CORRIDOR	(@ Door 107.2)
<b>107.2</b>		<b>2C</b>	<b>CORRIDOR</b>	<b>(@ Door 109.1)</b>
<b>Room Number</b>	<b>Sign Number</b>	<b>Sign Type</b>	<b>Sign Name</b>	<b>Miscellaneous</b>
107.3		1C	TOILET	
107.4		2C	CLOSET	
108		3B	CLASSROOM	
108.2		1C	TOILET	
108.3		2C	CLOSET	
109		3B	CLASSROOM	
109.2		1C	TOILET	
109.3		2C	CLOSET	
110		2A	OBSERVATION / THERAPY	
111		2A	OBSERVATION / THERAPY	
112		3B	CLASSROOM	
112.1		1C	TOILET	
112.2		1C	TOILET	

112.3		2C	CLOSET	
113		3B	CLASSROOM	
113.1		1C	TOILET	
113.2		1C	TOILET	
113.3		2C	CLOSET	
300		3B	APARTMENT LAB	
300.1		1C	TOILET	
301		3B	<b>BEHAVIOR MANAGER</b>	
302		2A	<b>QUIET</b>	
303		2C	BREAK/WORK ROOM	
304		3B	CLASSROOM	
304.1		1C	TOILET	
<b>Room Number</b>	<b>Sign Number</b>	<b>Sign Type</b>	<b>Sign Name</b>	<b>Miscellaneous</b>
304.2		2C	CLOSET	
305		3B	CLASSROOM	
305.1		1C	TOILET	
305.2		2C	CLOSET	
306		2A	<b>OBSERVATION / THERAPY</b>	
307		2A	<b>OBSERVATION / THERAPY</b>	
308		3B	CLASSROOM	
308.1		1C	TOILET	
308.2		2C	CLOSET	
309		3B	CLASSROOM	

309.1		1C	TOILET	
309.2		2C	CLOSET	
310		3B	CLASSROOM	
310.1		1C	TOILET	
310.2		2C	CLOSET	
311		3B	CLASSROOM	
311.1		1C	TOILET	
311.2		2C	CLOSET	
312		<b>2A</b>	<b>OBSERVATION / THERAPY</b>	
313		<b>2A</b>	<b>OBSERVATION / THERAPY</b>	
314		3B	CLASSROOM	
314.1		1C	TOILET	
314.2		2C	CLOSET	
315		3B	CLASSROOM	
315.1		1C	TOILET	
315.2		2C	CLOSET	
SECOND FLOOR				
A200		3B	READING	
A201		3B	COUNSELING	
A202		3B	SOCIAL WORKER	
A203		2C	<b>ADMINISTRATION SUITE</b>	
A203.1		2C	CONFERENCE ROOM	
A204		-	SECRETARY	

<b>A204.1</b>		<b>2C</b>	<b>CLOSET</b>	
A205		1C	TOILET	
A206		<b>3C</b>	SPECIAL ED COORDINATORS	
A206.1		2C	<b>CLOSET</b>	
A207		<b>3C</b>	PRINCIPAL	
A207.1		2C	<b>CLOSET</b>	
A208		<b>3C</b>	ASSISTANT PRINCIPAL	
A209		2C	RECORDS	
A210		<b>2A</b>	BREAK ROOM	
A211		3B	NURSE	
<b>A211.1</b>		1C	TOILET	
<b>A211.2</b>		<b>2C</b>	<b>CLOSET</b>	
C400		2C	CUSTODIAN	
<b>E2</b>		<b>9B</b>	<b>ELEVATOR</b>	
H400		-	HALLWAY	
<b>H500</b>		<b>7</b>	→ <b>ELEVATOR</b> ↑ <b>CLASSROOMS 400-411</b> ← <b>CLASSROOMS 501-515</b> ← <b>STAIR</b>	<b>(across the hall from Room 501)</b>
H600		-	HALLWAY	
ME006.1		2C	MDF	
ME006.2		2C	IT	
ME401		2C	ELECTRICAL	
<b>Room Number</b>	<b>Sign Number</b>	<b>Sign Type</b>	<b>Sign Name</b>	<b>Miscellaneous</b>
ME401.1		2C	IDF	

ME500		2C	ELECTRICAL
<del>MEP100</del>		<del>2C</del>	<del>EQUIPMENT PLATFORM</del>
SA2		9E	STAIR A
SB2		9E	STAIR B
SC2		9E	STAIR C
SD2		9E	STAIR D
T400		1A	MEN'S TOILET
T401		1B	WOMEN'S TOILET
T600.1		1C	TOILET
T600.2		1C	TOILET
400		3B	OT SUITE
400.1		2C	FILES
400.2		2C	STORAGE
401		3B	CLASSROOM
401.1		1C	TOILET
401.2		2C	CLOSET
401.3		<b>2C</b>	<b>CHANGING ROOM</b>
402		3B	PSYCH SUITE
402.1		2C	FILES
402.2		2C	STORAGE
403		<b>2A</b>	<b>OBSERVATION / THERAPY</b>
404		3B	CLASSROOM
404.1		1C	TOILET

404.2		2C	CLOSET	
<b>Room Number</b>	<b>Sign Number</b>	<b>Sign Type</b>	<b>Sign Name</b>	<b>Miscellaneous</b>
405		3B	CLASSROOM	
405.1		1C	TOILET	
405.2		2C	CLOSET	
405.3		2C	<b>CHANGING ROOM</b>	
406		<b>2A</b>	<b>OBSERVATION / THERAPY</b>	
407		<b>2A</b>	<b>OBSERVATION / THERAPY</b>	
408		3B	CLASSROOM	
408.1		1C	TOILET	
408.2		2C	CLOSET	
409		<b>2A</b>	<b>OBSERVATION / THERAPY</b>	
411		3B	CLASSROOM	
411.1		2C	<b>CHANGING ROOM</b>	
411.2		2C	CLOSET	
411.3		1C	TOILET	
501		3B	SPEECH SUITE	
501.1		2C	STORAGE	
501.2		2C	FILES	
502		<b>2A</b>	QUIET	
503		3B	CLASSROOM	
503.1		1C	TOILET	
504		3B	<b>BEHAVIOR MANAGER</b>	

505		3B	CLASSROOM	
506		3B	APARTMENT LAB	
506.1		1C	TOILET	
507		2A	OBSERVATION / THERAPY	
<b>Room Number</b>	<b>Sign Number</b>	<b>Sign Type</b>	<b>Sign Name</b>	<b>Miscellaneous</b>
509		3B	CLASSROOM	
511		3B	CLASSROOM	
513		2A	OBSERVATION / THERAPY	
515		3B	CLASSROOM	
ALTERNATE #1				
C200		2C	CUSTODIAN	
H001		7	→ CLASSROOMS 102-113 → ELEVATOR ← CAFETERIA ← GYMNASIUM ← CLASSROOMS 201-208 304-315	(across the hall from Door A101)
H200		-	HALLWAY	
ME200		2C	ELECTRICAL	
ME200.1		2C	IDF	
200		2A	CONFERENCE ROOM	
200.1		2C	CLOSET	
201		3B	CLASSROOM	
201.1		1C	TOILET	
201.2		1C	TOILET	

201.3		2C	CLOSET	
202		3B	CLASSROOM	
203		2A	OBSERVATION / THERAPY	
204		3B	CLASSROOM	
204.1		1C	TOILET	
204.2		1C	TOILET	
<b>204.3</b>		<b>2C</b>	<b>CLOSET</b>	
205		3B	CLASSROOM	
205.1		1C	TOILET	
205.2		1C	TOILET	
205.3		2C	CORRIDOR	(@ Door 205.3)
<b>205.3</b>		<b>2C</b>	<b>CORRIDOR</b>	(@ Door 207.3)
205.4		2C	CLOSET	
206		2A	OBSERVATION / THERAPY	
207		3B	CLASSROOM	
<b>Room Number</b>	<b>Sign Number</b>	<b>Sign Type</b>	<b>Sign Name</b>	<b>Miscellaneous</b>
207.1		1C	TOILET	
207.2		2C	CLOSET	
208		3B	CLASSROOM	
208.1		1C	TOILET	
<b>208.2</b>		<b>2C</b>	<b>STORAGE</b>	
208.3		2C	CLOSET	
209		2A	OBSERVATION / THERAPY	

209.1		1C	TOILET	
209.2		1C	TOILET	
ALTERNATE #2				
<b>H002</b>		7	→ CLASSROOMS 102-113 → ELEVATOR ← CLASSROOMS 304-315 ← VOCATIONAL CLASSROOMS ← STAIR	(across the hall from Toilet T301)
H003.1		-	HALLWAY	
V100		3B	VOCATIONAL CLASSROOM	(@ Door V100.1)
<b>V100</b>		<b>3B</b>	<b>VOCATIONAL CLASSROOM</b>	(@ Door V100.2)
V101		3B	VOCATIONAL CLASSROOM	
V102		3B	VOCATIONAL CLASSROOM	
V103		3B	VOCATIONAL CLASSROOM	
<b>V104</b>		<b>1C</b>	<b>TOILET</b>	
V105		3B	VOCATIONAL CLASSROOM	
V106		3B	VOCATIONAL CLASSROOM	
ALTERNATE #3				
<b>H001</b>		7	→ CLASSROOMS 102-113 → NATATORIUM → ELEVATOR ← CAFETERIA ← GYMNASIUM ← CLASSROOMS 304-315	(across the hall from Door A101)
N100		-	POOL	
N101		-	VESTIBULE	
N102		2C	PUMP ROOM	

<b>N102.2</b>		<b>2C</b>	<b>CHEMICAL STORAGE</b>	
<b>N102.3</b>		<b>2C</b>	<b>POOL EQUIPMENT ROOM</b>	
N103		2C	STORAGE	
<b>Room Number</b>	<b>Sign Number</b>	<b>Sign Type</b>	<b>Sign Name</b>	<b>Miscellaneous</b>
N104		1A	MALE LOCKER ROOM	
<b>N105</b>		<b>2C</b>	<b>STORAGE</b>	
<b>N106</b>		<b>1B</b>	<b>FEMALE LOCKER ROOM</b>	
N107		1D	FAMILY LOCKER ROOM	
N108		<b>3C</b>	<b>OFFICE</b>	
N109		<b>2C</b>	<b>NATATORIUM</b>	<b>(@ Door N109)</b>
ALTERNATE #4				
<b>C004</b>		<b>2C</b>	<b>CUSTODIAN</b>	
G200		<b>2A</b>	<b>GYMNASIUM</b>	
G200.1		<b>3C</b>	<b>OFFICE</b>	
G200.2		2C	STORAGE	
<b>G300</b>		<b>3B</b>	<b>GYMNASIUM</b>	
G300.1		<b>2A</b>	<b>FITNESS</b>	
<b>H002</b>		<b>7</b>	→ <b>CLASSROOMS 102-113</b> → <b>ELEVATOR</b> ← <b>CLASSROOMS 304-315</b> ← <b>GYMNASIUM</b> ← <b>STAIR</b>	<b>(across the hall from Toilet T301)</b>
H004		-	HALLWAY	
<b>H500</b>		<b>7</b>	→ <b>ELEVATOR</b> ↑ <b>CLASSROOMS 400-411</b> ← <b>CLASSROOMS 501-515</b> ← <b>GYMNASIUM</b>	<b>(across the hall from Room 501)</b>

			← STAIR	
L100		3B	LIBRARY	
L101		2C	WORK ROOM	
SE1		9E	STAIR E	(@ Door SE1)
SE1		9E	STAIR E	(@ Door SE1.1)
SE2		9E	STAIR E	
T004.1		1A	MEN'S TOILET	
T004.2		1B	WOMEN'S TOILET	
508		3B	ILC CLASSROOM	
ALTERNATE #5				
A300		-	HALLWAY	
A317		3B	CLASSROOM	
A317.1		1C	TOILET	
A317.2		2C	CLOSET	
<b>Room Number</b>	<b>Sign Number</b>	<b>Sign Type</b>	<b>Sign Name</b>	<b>Miscellaneous</b>
A400		-	HALLWAY	
H002		7	→ CLASSROOMS 102-113 → ELEVATOR ← CLASSROOMS 304-317 ← STAIR	(across the hall from Toilet T301)
H500		7	→ ELEVATOR ↑ CLASSROOMS 400-413 ← CLASSROOMS 501-515 ← STAIR	(across the hall from Room 501)
ME402		2A	MECHANICAL	
316		3B	CLASSROOM	

316.1		2C	CLOSET	
316.2		1C	TOILET	
318		2A	<b>OBSERVATION / THERAPY</b>	
319		2A	<b>OBSERVATION / THERAPY</b>	
321		2A	STORAGE	
410		3B	CLASSROOM	
410.1		1C	TOILET	
410.2		2C	CLOSET	
412		2A	<b>OBSERVATION / THERAPY</b>	
413		2C	WORK ROOM	
413.1		1C	TOILET	
415		3B	ASSISTANT PRINCIPAL	
ALTERNATE #6				
<b>H001</b>		7	→ <b>CLASSROOMS 102-113</b> → <b>ELEVATOR</b> ← <b>CAFETERIA</b> ← <b>GYMNASIUM</b> ← <b>CLASSROOMS 201-211</b> <b>304-315</b>	<b>(across the hall from Door A101)</b>
208.2		1C	TOILET	
208.3		2C	CLOSET	
210		3B	CLASSROOM	
210.1		1C	TOILET	
210.2		2C	CLOSET	
211		3B	CLASSROOM	
211.1		1C	TOILET	

211.2		1C	TOILET	
211.3		2C	CLOSET	
212		2A	OBSERVATION / THERAPY	
ALTERNATE #7				
Room Number	Sign Number	Sign Type	Sign Name	Miscellaneous
LS-001		-	LIVING / DINING AREA	
LS-002		-	KITCHEN	
LS-003		1C	TOILET	
LS-004		3C	CLASSROOM	
LS-005		9E	STAIR	
LS-006		3C	CLASSROOM	
LS-007		2C	CLOSET	
LS-008		2C	LAUNDRY	
LS-009		2C	STORAGE	
LS-010		1C	BATHROOM	
LS-011		2C	BEDROOM	
LS-012		2C	CLOSET	
LS-013		-	LIVING ROOM	

END OF SECTION 101400