Addendum No. 004

Subject: 2020 Classroom Modernizations
SDP Contract Numbers: B-004 C of 19/20 & B-006 C of 19/20

Location: Samuel L. Gompers School
5701 Wynnefield Ave, Philadelphia PA 19131

This Addendum, dated March 6, 2020 shall modify and become part of the Contract Documents for the work of this project. Any items not mentioned herein, or affected by, shall be performed strictly in accordance with the original documents.

1. BID OPENING HAS BEEN POSTPONED TO THURSDAY, MARCH 12, 2020 AT 2:00 PM

2. REVISIONS TO SPECIFICATIONS

SPECIFICATION 262416 – PANELBOARDS
1. ADD specification in its entirety.

SPECIFICATION 275313 – WIRELESS CLOCK SYSTEM
1. REVISE 2.2.H. to read “H. Basis of Design: Sapling Inc. SMA 2000 3000 Series Master Clock (V8.1), Wireless Clock System. [Addendum No. 1].”

3. REVISIONS TO DRAWINGS

A. COVER SHEETS

DRAWING CS.1 – COVER SHEET
1. REVISE cover to add Deed Address to read “2400 N. 57th ST, PHILADELPHIA, PA 19131.”

B. ARCHITECTURAL DRAWINGS

DRAWING D1.1 – FIRST FLOOR DEMOLITION PLAN – UNIT A
1. REVISE demolition note 9M as indicated on the drawings.
2. ADD demolition note 2E as indicated on the drawings.

DRAWING D1.2 – FIRST FLOOR DEMOLITION PLAN – UNIT B
1. REVISE demolition note 9M as indicated on the drawings.
2. ADD demolition note 2E as indicated on the drawings.
3. REVISE plan 1/D1.2 FIRST FLOOR DEMOLITION PLAN – UNIT B – rooms 104, 105, 106 & 107 to add demolition note 2E as indicated on the drawings.

**DRAWING D1.3 – SECOND FLOOR DEMOLITION PLAN – UNIT B**
1. REVISE demolition note 9M as indicated on the drawings.
2. ADD demolition note 2E as indicated on the drawings.
3. REVISE plan 1/D1.2 FIRST FLOOR DEMOLITION PLAN – UNIT B – rooms 207, 211 & 213 to add demolition note 2E as indicated on the drawings.

**DRAWING A1.1 – OVERALL FIRST FLOOR PLAN**
1. REVISE plan 1/A1.1 OVERALL FIRST FLOOR PLAN – ROOM 106 – Add sink.

**DRAWING A1.4 – FIRST FLOOR PLAN – UNIT B**
1. REVISE plan 1/A1.4 FIRST FLOOR PLAN – UNIT B – ROOM 106 – Add sink.

**DRAWING A2.2 – FIRST FLOOR REFLECTED CEILING PLAN – UNIT B**
1. REVISE plan 1/A2.2 FIRST FLOOR REFLECTED CEILING PLAN – UNIT B – rooms 104, 105, 106 & 107 to add a new roller shade.

**DRAWING A2.3 – SECOND FLOOR REFLECTED CEILING PLAN – UNIT B**
1. REVISE plan 1/A2.3 SECOND FLOOR REFLECTED CEILING PLAN – UNIT B – ROOMS 207, 211 & 213 to add a new roller shade.

**DRAWING A6.1 – ROOM FINISH & DOOR SCHEDULE**
1. REVISE Room Finish Schedule column “COLOR SCHEME” at ROOMS 105, 213 to correspond to Color Scheme “C”.
2. REVISE Room Finish Schedule column “COLOR SCHEME” at ROOMS 207, 211 to correspond to Color Scheme “D”.
3. REVISE Color Scheme Schedule – Color Scheme A to read as: “COLOR SCHEME A – KINDERGARTEN”.
   a. REVISE item no. 6 to read as: “6. VINYL COMPOSITION TILE, ACCENT ’2’: ARMSTRONG, NO. 51947 BASIL GREEN”
   b. ADD item no. 10 to read as: “10. VINYL BASE: JOHNSONITE, NO. 469 MYSTIFY”.
4. REVISE Color Scheme Schedule – Color Scheme B to read as: “COLOR SCHEME B – FIRST GRADE AND SPECIAL EDUCATION”.
   a. REVISE item no. 3 to read as: “3. ACCENT PAINT ’B’ TEACHING WALL: SHERWIN WILLIAMS, NO. SW6765 SPA”
   b. REVISE item no. 5 to read as: “5. VINYL COMPOSITION TILE, ACCENT ’1’: ARMSTRONG, NO. 51927 FIELD GRAY”
   c. REVISE item no. 6 to read as: “6. VINYL COMPOSITION TILE, ACCENT ’2’: ARMSTRONG, NO. 57509 LEMON LICK”
   d. ADD item no. 10 to read as: “10. VINYL BASE: JOHNSONITE, NO. 469 MYSTIFY”.
5. REVISE Color Scheme Schedule – Color Scheme C to read as: “COLOR SCHEME C – SECOND GRADE”.
   a. ADD Color Scheme Information for Color Scheme C.
6. REVISE Color Scheme Schedule – Color Scheme D to read as: “COLOR SCHEME D – THIRD GRADE”.
   a. ADD Color Scheme Information for Color Scheme D.
7. REVISE Color Scheme Schedule – General Notes Item No. 7 to read as: “NOT USED”.

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INTERIOR DRAWINGS

DRAWING I4.2 – LARGE SCALE LAYOUTS - FIRST, SECOND, THIRD & SPECIAL EDUCATION
   1. REVISE detail 1/I4.2 FIRST GRADE – ROOM 106 – Add sink.

C. PLUMBING DRAWINGS

DRAWING PD1.2 - PLUMBING FIRST FLOOR DEMOLITION PLAN - UNIT B
   1. ADD Demolition Key Note #2 to Rm 106. Keynote to read “EXISTING CLASSROOM SINK TO REMAIN. PREPARE ALL PLUMBING ROUGH-INS FOR NEW FIXTURES/VALVE INSTALLATION. CONTRACTOR TO FIELD VERIFY THE NEW Fixtures ROUGH-INS TO MAKE SURE THE EXISTING ROUGH-INS/ FLOOR/ WALL FLUSH/ ALL ASSOCIATED FITTINGS ARE COMPATIBLE WITH NEW FIXTURES. CONTRACTOR TO ADD/TRIM ROUGH-INS TO FIT WITH NEW FIXTURES AND PROVIDE NEW CARRIAGE FOR NEW SINK.”

DRAWING P1.2 - PLUMBING FIRST FLOOR NEW WORK PLAN - UNIT B
   1. ADD Sheet Key Note #2 to Rm 106 to make adjacent rooms. Provide fixture type F-3.

D. ELECTRICAL DRAWINGS

DRAWING ED1.1 - ELECTRICAL FIRST FLOOR DEMOLITION PLAN
   1. ADD general note to read “ELECTRICAL CONTRACTOR TO PROVIDE ALLOWANCE FOR REMOVAL OF 10’ – 0” OF SURFACE MOUNTED RACEWAY/ CONDUIT AND CONDUCTORS IN EACH CLASSROOM.”

DRAWING ED1.2 - ELECTRICAL SECOND FLOOR DEMOLITION PLAN
   1. ADD general note to read “ELECTRICAL CONTRACTOR TO PROVIDE ALLOWANCE FOR REMOVAL OF 10’ – 0” OF SURFACE MOUNTED RACEWAY/ CONDUIT AND CONDUCTORS IN EACH CLASSROOM.”

DRAWING E2.1 - ELECTRICAL FIRST FLOOR POWER & TECHNOLOGY PLAN
   1. ADD General Sheet Note #6 to read “ELECTRICAL CONTRACTOR TO RUN ALL NEW SURFACE MOUNTED CONDUITS AND RACEWAYS IN CORNERS OF EACH CLASSROOM TO AVOID CONFLICT WITH DISPLAY BOARDS AND OTHER CLASSROOM FURNISHINGS.”
   2. REVISE power and data as indicated on the drawings.

NOTE: Revisions that refer to Addendum No 1 and No 2 on this drawing are cumulative to this drawing, as included in this Addendum No 4

DRAWING E2.2 - ELECTRICAL SECOND FLOOR POWER & TECHNOLOGY PLAN
   1. ADD General Sheet Note #6 to read “ELECTRICAL CONTRACTOR TO RUN ALL NEW SURFACE MOUNTED CONDUITS AND RACEWAYS IN CORNERS OF EACH CLASSROOM TO AVOID CONFLICT WITH DISPLAY BOARDS AND OTHER CLASSROOM FURNISHINGS.”
   2. REVISE power and data as indicated on the drawings.
NOTE: Revisions that refer to Addendum No 1 and No 2 on this drawing are cumulative to this drawing, as included in this Addendum No 4

4. BIDDER QUESTIONS SUBMITTED TO DATE & RESPONSES ARE AS FOLLOWS:

1. On the website, each school has an EC and GC bid. Who will be responsible for the HVAC and Plumbing work that is included?

   **Answer:** There is no HVAC work in the project. Plumbing will be the responsibility of the GC.

2. Specifications call for Sapling Master 2000 Clock. Sapling 3000 is normally the school district standard. Manufacturer comment "a 3000 can set up bell schedules where a 2000 cannot. Philly schools do not have intercom systems, so they have no way of ringing bells without the 3000." Should the specs be revised to install a 3000?

   **Answer:** Specification 275313 has been revised in this addendum. Refer to specification addendum section, above.

3. The specifications do not contain a specification for the electrical panels. Can you provide?

   **Answer:** The specification has been added as part of this addendum.

4. Question not applicable to Gompers School.

5. Question not applicable to Gompers School.

6. Drawing D1.1, Demolition Note 9A states “existing unit ventilator and/or radiator, radiator cover and all associated piping and components to be removed (as applicable) and refinished with electrostatic paint and reinstalled as scheduled. Clean unit ventilator and/or radiator and all associated components prior to reinstallation of cover.” Is this the responsibility of the GC?

   **Answer:** Gompers School Classroom Modernization does not include the refinishing of radiator covers and/or all associated piping and components. This is being provided as part of another contract, (ESCO) that includes this work. Any and all new unit ventilators and ventilator covers and piping shall be protected during the work, where installed. Coordination with phasing of abatement, demolition and new work is required with the ESCO contract for the duration of the work.

7. Question not applicable to Gompers School.
8. The contract drawings don't show any window film. Please clarify? Not sure where we asked for window film? Please clarify.

Answer: Per Specification 101115, Section 2.2.B.2, location to be at Samuel L. Gompers Elementary per drawings only.

9. Question not applicable to Gompers School.

ATTACHMENTS

SPECIFICATIONS
SPECIFICATION 262416 PANELBOARDS

DRAWINGS
DRAWING D1.1 FIRST FLOOR DEMOLITION PLAN – UNIT A
DRAWING D1.2 FIRST FLOOR DEMOLITION PLAN – UNIT B
DRAWING D1.3 SECOND FLOOR DEMOLITION PLAN – UNIT B
DRAWING A1.1 OVERALL FIRST FLOOR PLAN
DRAWING A1.4 FIRST FLOOR PLAN – UNIT B
DRAWING A2.2 FIRST FLOOR REFLECTED CEILING PLAN – UNIT B
DRAWING A2.3 SECOND FLOOR REFLECTED CEILING PLAN – UNIT B
DRAWING A6.1 ROOM FINISH & DOOR SCHEDULE
DRAWING 14.2 LARGE SCALE LAYOUTS - FIRST, SECOND, THIRD & SPECIAL EDUCATION
DRAWING E2.1 ELECTRICAL FIRST FLOOR POWER AND TECHNOLOGY PLAN
DRAWING E2.2 ELECTRICAL SECOND FLOOR POWER AND TECHNOLOGY PLAN

END OF ADDENDUM #004
SECTION 262416 – PANELBOARDS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS
   A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY
   A. Section Includes:
      1. Lighting and appliance branch-circuit panelboards.

1.3 DEFINITIONS
   A. ATS: Acceptance testing specification.
   B. GFCI: Ground-fault circuit interrupter.
   C. GFEP: Ground-fault equipment protection.
   D. MCCB: Molded-case circuit breaker.
   E. VPR: Voltage protection rating.

1.4 ACTION SUBMITTALS
   A. Product Data: For each type of panelboard.
      1. Include materials, switching and overcurrent protective devices, SPDs, accessories, and components indicated.
      2. Include dimensions and manufacturers’ technical data on features, performance, electrical characteristics, ratings, and finishes.
   B. Shop Drawings: For each panelboard and related equipment.
      1. Include dimensioned plans, elevations, sections, and details.
      2. Show tabulations of installed devices with nameplates, conductor termination sizes, equipment features, and ratings.
      3. Detail enclosure types including mounting and anchorage, environmental protection, knockouts, corner treatments, covers and doors, gaskets, hinges, and locks.
      4. Detail bus configuration, current, and voltage ratings.
      5. Short-circuit current rating of panelboards and overcurrent protective devices.
      6. Detail features, characteristics, ratings, and factory settings of individual overcurrent protective devices and auxiliary components.
      7. Include wiring diagrams for power, signal, and control wiring.
8. Key interlock scheme drawing and sequence of operations.
9. Include time-current coordination curves for each type and rating of overcurrent protective device included in panelboards. Submit on translucent log-log graph paper; include selectable ranges for each type of overcurrent protective device. Include an Internet link for electronic access to downloadable PDF of the coordination curves.

C. Contractor shall submit a “specifications compliance statement” for each manufactured piece of equipment. Contractor/Supplier shall add “redlined” line-by-line notations to a PDF of the Specifications Section indicating the product or actions required “complies”. Contractor/Supplier shall itemize all deviations from the specified requirement on a line-by-line basis. List of exceptions to product specification shall include proposed materials, methods and cost difference where substitutions are allowed. If product does not comply with the specification the Contractor/Supplier shall state what modifications and actions are being implemented to ensure the product shall comply per the substitution section of the contract documents.

1.5 STATEMENT OF COMPLIANCE

A. Contractor shall submit a “specifications compliance statement” for each manufactured piece of equipment. Contractor/Supplier shall add “redlined” line-by-line notations to a PDF of the Specifications Section indicating the product or actions required “complies”. If product does not comply the Contractor/Supplier shall state what modifications and actions are being implemented to ensure the product shall comply per the substitution section of the contract documents.

1.6 INFORMATIONAL SUBMITTALS

A. Qualification Data: For testing agency.

B. Panelboard Schedules: For installation in panelboards. Submit final versions after load balancing.

1.7 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For panelboards and components to include in emergency, operation, and maintenance manuals. In addition to items specified in other section for "Operation and Maintenance Data," include the following:

1. Manufacturer's written instructions for testing and adjusting overcurrent protective devices.
2. Time-current curves, including selectable ranges for each type of overcurrent protective device that allows adjustments.

1.8 QUALITY ASSURANCE

A. Manufacturer Qualifications: ISO 9001 or 9002 certified.
1.9 DELIVERY, STORAGE, AND HANDLING

A. Remove loose packing and flammable materials from inside panelboards; install temporary electric heating (250 W per panelboard) to prevent condensation.

B. Handle and prepare panelboards for installation according to NECA 407.

1.10 FIELD CONDITIONS

A. Environmental Limitations:

1. Do not deliver or install panelboards until spaces are enclosed and weathertight, wet work in spaces is complete and dry, work above panelboards is complete, and temporary HVAC system is operating and maintaining ambient temperature and humidity conditions at occupancy levels during the remainder of the construction period.

2. Rate equipment for continuous operation under the following conditions unless otherwise indicated:

   a. Ambient Temperature: Not exceeding 23 deg F (minus 5 deg C) to plus 104 deg F (plus 40 deg C).

B. Service Conditions: NEMA PB 1, usual service conditions, as follows:

1. Ambient temperatures within limits specified.
2. Altitude not exceeding 6600 feet (2000 m).

C. Interruption of Existing Electric Service: Do not interrupt electric service to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary electric service according to requirements indicated:

1. Notify Construction Manager no fewer than two days in advance of proposed interruption of electric service.
2. Do not proceed with interruption of electric service without Construction Manager's written permission.
3. Comply with NFPA 70E.

1.11 WARRANTY

A. Manufacturer's Warranty: Manufacturer agrees to repair or replace panelboards that fail in materials or workmanship within specified warranty period.

1. Panelboard Warranty Period: 18 months from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PANELBOARDS COMMON REQUIREMENTS

A. Fabricate and test panelboards according to IEEE 344 to withstand seismic forces defined in other section for "Seismic Controls for Electrical Systems."
B. Product Selection for Restricted Space: Drawings indicate maximum dimensions for panelboards including clearances between panelboards and adjacent surfaces and other items. Comply with indicated maximum dimensions.

C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

D. Comply with NEMA PB 1.

E. Comply with NFPA 70.

F. Enclosures: Flush and Surface-mounted, dead-front cabinets.
   1. Rated for environmental conditions at installed location.
      a. Indoor Dry and Clean Locations: NEMA 250, Type 1.
      b. Indoor Locations Subject to Dust, Falling Dirt, and Dripping Noncorrosive Liquids: NEMA 250, Type 5.
   2. Height: 84 inches (2.13 m) maximum.
   3. Hinged Front Cover: Entire front trim hinged to box and with standard door within hinged trim cover. Trims shall cover all live parts and shall have no exposed hardware.
   4. Gutter Extension and Barrier: Same gage and finish as panelboard enclosure; integral with enclosure body. Arrange to isolate individual panel sections.
   5. Finishes:
      a. Panels and Trim: Steel, factory finished immediately after cleaning and pretreating with manufacturer’s standard two-coat, baked-on finish consisting of prime coat and thermosetting topcoat.
      b. Back Boxes: Same finish as panels and trim.

G. Incoming Mains:
   1. Location: Top and Bottom.
   2. Main Breaker: Main lug interiors up to 400 amperes shall be field convertible to main breaker.

H. Phase, Neutral, and Ground Buses:
      a. Plating shall run entire length of bus.
      b. Bus shall be fully rated the entire length.
   2. Interiors shall be factory assembled into a unit. Replacing switching and protective devices shall not disturb adjacent units or require removing the main bus connectors.
   3. Equipment Ground Bus: Adequate for feeder and branch-circuit equipment grounding conductors; bonded to box.

I. Conductor Connectors: Suitable for use with conductor material and sizes.
2. Terminations shall allow use of 75 deg C rated conductors without derating.
3. Size: Lugs suitable for indicated conductor sizes, with additional gutter space, if required, for larger conductors.
4. Main and Neutral Lugs: Mechanical type, with a lug on the neutral bar for each pole in the panelboard.
5. Ground Lugs and Bus-Configured Terminators: Mechanical type, with a lug on the bar for each pole in the panelboard.
6. Feed-Through Lugs: Mechanical type, suitable for use with conductor material. Locate at opposite end of bus from incoming lugs or main device.
7. Subfeed (Double) Lugs: Mechanical type suitable for use with conductor material. Locate at same end of bus as incoming lugs or main device.
8. Gutter-Tap Lugs: Mechanical type suitable for use with conductor material and with matching insulating covers. Locate at same end of bus as incoming lugs or main device.

J. Future Devices: Panelboards or load centers shall have mounting brackets, bus connections, filler plates, and necessary appurtenances required for future installation of devices.

1. Percentage of Future Space Capacity: 20 percent.

K. Panelboard Short-Circuit Current Rating: Match existing condition Ratings (Field coordinate).

L. Panelboard Short-Circuit Current Rating: Fully rated to interrupt symmetrical short-circuit current available at terminals. Assembly listed by an NRTL for 100 percent interrupting capacity. However, if the short-circuit & coordination study requires higher AIC rating, then the contractor shall provide higher rated panels without any additional cost to the owners. It is highly recommended that short-circuit & coordination study be prepared prior to ordering the panels.

1. Panelboards and overcurrent protective devices rated 240 V or less shall have short-circuit ratings as shown on Drawings, but not less than 10,000 A rms symmetrical.
2. Panelboards and overcurrent protective devices rated above 240 V and less than 600 V shall have short-circuit ratings as shown on Drawings, but not less than 14,000 A rms symmetrical.

2.2 PERFORMANCE REQUIREMENTS

A. Seismic Performance: Panelboards shall withstand the effects of earthquake motions determined according to ASCE/SEI 7.

1. The term "withstand" means "the unit will remain in place without separation of any parts from the device when subjected to the seismic forces specified."

2.3 LIGHTING AND APPLIANCE BRANCH-CIRCUIT PANELBOARDS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Eaton.
2. East coast Panelboard Inc.
3. Square D; by Schneider Electric.
B. Panelboards: NEMA PB 1, lighting and appliance branch-circuit type.

C. Mains: Circuit breaker or lugs only.

D. Branch Overcurrent Protective Devices: Bolt-on circuit breakers, replaceable without disturbing adjacent units.

E. Doors: Door-in-door construction with concealed hinges; secured with multipoint latch with tumbler lock; keyed alike. Outer door shall permit full access to the panel interior. Inner door shall permit access to breaker operating handles and labeling, but current carrying terminals and bus shall remain concealed.

2.4 DISCONNECTING AND OVERCURRENT PROTECTIVE DEVICES

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Eaton.
2. East coast Panelboard Inc.
3. Square D; by Schneider Electric.

B. MCCB: Comply with UL 489, with interrupting capacity to meet available fault currents.

1. Thermal-Magnetic Circuit Breakers:
   a. Inverse time-current element for low-level overloads.
   b. Instantaneous magnetic trip element for short circuits.
   c. Adjustable magnetic trip setting for circuit-breaker frame sizes 250 A and larger.

2. GFCI Circuit Breakers: Single- and double-pole configurations with Class A ground-fault protection (6-mA trip).


4. MCCB Features and Accessories:
   a. Standard frame sizes, trip ratings, and number of poles.
   b. Breaker handle indicates tripped status.
   c. UL listed for reverse connection without restrictive line or load ratings.
   d. Lugs: Mechanical style, suitable for number, size, trip ratings, and conductor materials.
   e. Application Listing: Appropriate for application; Type SWD for switching fluorescent lighting loads.
   f. Communication Capability: Circuit-breaker-mounted communication module with functions and features compatible with power monitoring and control system specified in other section for "Electrical Power Monitoring and Control."
   g. Shunt Trip: 120-V trip coil energized from separate circuit, set to trip at 55 percent of rated voltage.
   h. Undervoltage Trip: Set to operate at 35 to 75 percent of rated voltage without intentional time delay.
   i. Auxiliary Contacts: One, SPDT switch with "a" and "b" contacts; "a" contacts mimic circuit-breaker contacts and "b" contacts operate in reverse of circuit-breaker contacts.
   j. Alarm Switch: Single-pole, normally open contact that actuates only when circuit breaker trips.
k. Multipole units enclosed in a single housing with a single handle or factory assembled to operate as a single unit.

l. Handle Padlocking Device: Fixed attachment, for locking circuit-breaker handle in on or off position.

m. Handle Clamp: Loose attachment, for holding circuit-breaker handle in on position.

2.5 IDENTIFICATION

A. Panelboard Label: Manufacturer's name and trademark, voltage, amperage, number of phases, and number of poles shall be located on the interior of the panelboard door.

B. Breaker Labels: Faceplate shall list current rating, UL and IEC certification standards, and AIC rating.

   1. Circuit directory shall identify specific purpose with detail sufficient to distinguish it from all other circuits.

2.6 ACCESSORY COMPONENTS AND FEATURES

A. Accessory Set: Include tools and miscellaneous items required for overcurrent protective device test, inspection, maintenance, and operation.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify actual conditions with field measurements prior to ordering panelboards to verify that equipment fits in allocated space in, and comply with, minimum required clearances specified in NFPA 70.

B. Receive, inspect, handle, and store panelboards according to NECA 407.

C. Examine panelboards before installation. Reject panelboards that are damaged, rusted, or have been subjected to water saturation.

D. Examine elements and surfaces to receive panelboards for compliance with installation tolerances and other conditions affecting performance of the Work.

E. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Coordinate layout and installation of panelboards and components with other construction that penetrates walls or is supported by them, including electrical and other types of equipment, raceways, piping, encumbrances to workspace clearance requirements, and adjacent
surfaces. Maintain required workspace clearances and required clearances for equipment access doors and panels.

B. Comply with NECA 1.

C. Install panelboards and accessories according to NECA 407.

D. Equipment Mounting:
   1. Attach panelboard to the vertical finished or structural surface behind the panelboard.
   2. Comply with requirements for seismic control devices specified in other section for "Seismic Controls for Electrical Systems."

E. Comply with mounting and anchoring requirements specified in other section for "Seismic Controls for Electrical Systems."

F. Mount top of trim 90 inches (2286 mm) above finished floor unless otherwise indicated.

G. Mount panelboard cabinet plumb and rigid without distortion of box.

H. Mount recessed panelboards with fronts uniformly flush with wall finish and mating with back box.

I. Mount surface-mounted panelboards to steel slotted supports 5/8 inch (16 mm) in depth. Orient steel slotted supports vertically.

J. Install overcurrent protective devices and controllers not already factory installed.
   1. Set field-adjustable, circuit-breaker trip ranges.
   2. Tighten bolted connections and circuit breaker connections using calibrated torque wrench or torque screwdriver per manufacturer's written instructions.

K. Install filler plates in unused spaces.

L. Arrange conductors in gutters into groups and bundle and wrap with wire ties after completing load balancing.

3.3 IDENTIFICATION

A. Identify field-installed conductors, interconnecting wiring, and components; install warning signs complying with requirements in other section for "Identification for Electrical Systems."

B. Create a directory to indicate installed circuit loads after balancing panelboard loads; incorporate Owner's final room designations. Obtain approval before installing. Handwritten directories are not acceptable. Install directory inside panelboard door.

C. Panelboard Nameplates: Label each panelboard with a nameplate complying with requirements for identification specified in other section for "Identification for Electrical Systems."

D. Device Nameplates: Label each branch circuit device in power panelboards with a nameplate complying with requirements for identification specified in other section for "Identification for Electrical Systems."
E. Install warning signs complying with requirements in other section for "Identification for Electrical Systems" identifying source of remote circuit.

3.4 FIELD QUALITY CONTROL

A. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust components, assemblies, and equipment installations, including connections.

B. Perform tests and inspections.
   1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.

C. Acceptance Testing Preparation:
   1. Test insulation resistance for each panelboard bus, component, connecting supply, feeder, and control circuit.
   2. Test continuity of each circuit.

D. Tests and Inspections:
   1. Perform each visual and mechanical inspection and electrical test for low-voltage air circuit breakers stated in NETA ATS, Paragraph 7.6 Circuit Breakers. Perform optional tests. Certify compliance with test parameters.
   2. Correct malfunctioning units on-site, where possible, and retest to demonstrate compliance; otherwise, replace with new units and retest.
   3. Perform the following infrared scan tests and inspections and prepare reports:
      a. Infrared Scanning: After Substantial Completion, but not more than 60 days after Final Acceptance, perform an infrared scan of each panelboard. Remove front panels so joints and connections are accessible to portable scanner.
      b. Instruments and Equipment:
         1) Use an infrared scanning device designed to measure temperature or to detect significant deviations from normal values. Provide calibration record for device.

E. Panelboards will be considered defective if they do not pass tests and inspections.

F. Prepare test and inspection reports, including a certified report that identifies panelboards included and that describes scanning results, with comparisons of the two scans. Include notation of deficiencies detected, remedial action taken, and observations after remedial action.

3.5 ADJUSTING

A. Adjust moving parts and operable components to function smoothly, and lubricate as recommended by manufacturer.

B. Set field-adjustable circuit-breaker trip ranges as specified in other section for "Coordination Studies."
C. Load Balancing: After Substantial Completion, but not more than 60 days after Final Acceptance, measure load balancing and make circuit changes. Prior to making circuit changes to achieve load balancing, inform Architect of effect on phase color coding.

1. Measure loads during period of normal facility operations.
2. Perform circuit changes to achieve load balancing outside normal facility operation schedule or at times directed by the Architect. Avoid disrupting services such as fax machines and on-line data processing, computing, transmitting, and receiving equipment.
3. After changing circuits to achieve load balancing, recheck loads during normal facility operations. Record load readings before and after changing circuits to achieve load balancing.
4. Tolerance: Maximum difference between phase loads, within a panelboard, shall not exceed 20 percent.

3.6 PROTECTION

A. Temporary Heating: Prior to energizing panelboards, apply temporary heat to maintain temperature according to manufacturer's written instructions.

END OF SECTION 262416
1. REFER TO SHEET CS.2 FOR ADDITIONAL INFORMATION.
2. ACCESSIBLE FIXTURES ARE INDICATED WITH THE REQUIRED CLEAR FLOOR SPACE CLEARANCES FOR ALL ACCESSIBLE ROUTES & MANEUVERING CLEARANCES.
3. PLUMBING FIXTURE ROUGH IN DIMENSIONS & TOILET PARTITION LAYOUT DIMENSIONS ARE FROM THE WALL FINISH MATERIAL.
4. PROVIDE WOOD BLOCKING IN STUD WALLS FOR ALL TOILET ACCESSORIES.
5. TOILET PARTITION DIMENSIONS ARE TO THE PANEL CENTERLINE UNLESS NOTED OTHERWISE. MINIMUM CLEAR DIMENSIONS MUST BE PROVIDED WHERE NOTED.
6. COORDINATE ALL WALL FINISHES WITH THE ROOM FINISH SCHEDULE.
7. CONTRACTOR TO CONFIRM WITH THE OWNER'S REPRESENTATIVE THE LOCATION OF ALL SURFACE-MOUNTED TOILET ROOM ACCESSORIES PRIOR TO INSTALLATION.
8. COORDINATE LOCATION OF MEP EQUIPMENT, DEVICES, OUTLET BOXES, ETC. WITH OTHER EQUIPMENT AND FINISH SCHEDULE PRIOR TO INSTALLATION.
9. UNLESS NOTED OTHERWISE, ALL FLOOR DRAINS SHALL BE SET 1/4" MAXIMUM BELOW FINISH FLOOR. DISH FINISH FLOOR A MINIMUM OF 24" RADIUS TO TOP OF FLOOR DRAIN. REFER TO PLUMBING DRAWINGS.
10. REFER TO I4 DRAWINGS FOR ADDITIONAL BUILT-IN CASEWORK DOOR HARDWARE LOCATION AND INFORMATION.

GENERAL NOTES:

LEGEND

NOT IN SCOPE
1. REFER TO SHEET CS.2 FOR ADDITIONAL INFORMATION.
2. ACCESSIBLE FIXTURES ARE INDICATED WITH THE REQUIRED CLEAR FLOOR SPACE CLEARANCES FOR ALL ACCESSIBLE ROUTES & MANEUVERING CLEARANCES.
3. PLUMBING FIXTURE ROUGH IN DIMENSIONS & TOILET PARTITION LAYOUT DIMENSIONS ARE FROM THE WALL FINISH MATERIAL.
4. PROVIDE WOOD BLOCKING IN STUD WALLS FOR ALL TOILET ACCESSORIES.
5. TOILET PARTITION DIMENSIONS ARE TO THE PANEL CENTERLINE UNLESS NOTED OTHERWISE. MINIMUM CLEAR DIMENSIONS MUST BE PROVIDED WHERE NOTED.
6. COORDINATE ALL WALL FINISHES WITH THE ROOM FINISH SCHEDULE.
7. CONTRACTOR TO CONFIRM WITH THE OWNER'S REPRESENTATIVE THE LOCATION OF ALL SURFACE-MOUNTED TOILET ROOM ACCESSORIES PRIOR TO INSTALLATION.
8. COORDINATE LOCATION OF MEP EQUIPMENT, DEVICES, OUTLET BOXES, ETC. WITH OTHER EQUIPMENT AND FINISH SCHEDULE PRIOR TO INSTALLATION.
9. UNLESS NOTED OTHERWISE, ALL FLOOR DRAINS SHALL BE SET 1/4" MAXIMUM BELOW FINISH FLOOR. DISH FINISH FLOOR A MINIMUM OF 24" RADIUS TO TOP OF FLOOR DRAIN. REFER TO PLUMBING DRAWINGS.
10. REFER TO I4 DRAWINGS FOR ADDITIONAL BUILT-IN CASEWORK DOOR HARDWARE LOCATION AND INFORMATION.

GENERAL NOTES:

- EXISTING FLOOR HATCH TO REMAIN NOT IN SCOPE.
- V.I.F. FOR UV LOCATION BY OTHERS.

LOCATION NO. FILE NO. DRAWN BY CHECKED BY
1
DRAWING NO. www.philasd.org
SCHOOL & LOCATION PROJECT TITLE DRAWING
87654321ABCDEF
PHILADELPHIA
(215) 400 - 4730 (215) 400 - 4731 (fax)
440 NORTH BROAD STREET PHILADELPHIA, PA 19130 - 4015
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SETTY MEP ENGINEERS

ADDENDUM # 1 2/20/2020
B-004C       OF       2019 / 20 B-006C       OF       2019 / 20
FIRST FLOOR PLAN - UNIT B
1/22/2020
A1.4
SAMUEL GOMPERS ELEMENTARY SCHOOL
MAILING ADDRESS: 5701 WYNNEFIELD AVE, PHILADELPHIA, PA 19131
DEED ADDRESS: 2400 N 57TH ST, PHILADELPHIA, PA 19131
- 1300
100% DESIGN SUBMISSION
CLASSROOM MODERNIZATION
1/8" = 1'-0"
NOT IN SCOPE

FIRST FLOOR REFLECTED CEILING PLAN - UNIT B

LEGEND

1. UNLESS NOTED OTHERWISE, GYPSUM BULKHEADS TO BE 3 5/8" METAL STUDS AT 16" O/C WITH 5/8" GWB EACH SIDE, EXTENDING MIN. 1" BELOW ADJACENT CEILING.
2. CEILING GRID SHALL BE COORDINATED WITH MEP EQUIPMENT AND DEVICES.
3. UNLESS NOTED OTHERWISE, ALL VISIBLE STRUCTURAL STEEL, ROOF/ FLOOR DECK, DUCTWORK, PIPING, CONDUIT, HANGER WIRES, ETC. AT EXPOSED LOCATIONS OR ABOVE CEILING CLOUDS SHALL BE PAINTED.
4. REFER TO ROOM FINISH SCHEDULE FOR CEILING TYPES.
5. ALL VISIBLE HANGER WIRES, STRUCTURE AND BRACING AT EXPOSED CEILING GRID OR CEILING CLOUD LOCATIONS SHALL BE INSTALLED PLUMB AND LEVEL. PAINT ALL TO MATCH ADJACENT SURFACES.
6. FOR WINDOWS THAT REQUIRE TWO OR MORE ROLLER SHADES, EACH ROLLER SHADE SHALL TERMINATE AT THE CENTER OF THE WINDOW MULLION. REFER TO HOLLOW METAL AND ALUMINUM FRAME ELEVATIONS FOR DIMENSIONS AND WINDOW MULLION DESIGN AND ROLLER SHADE BRAKES. VERIFY IN FIELD FOR MANUFACTURING OR INSTALLATION OF ANY PARTS.
7. REFER TO SHEET CS.2 FOR ADDITIONAL INFORMATION.

2' X 2' SUSPENDED CEILING SYSTEM
2' X 4' SUSPENDED CEILING SYSTEM
GYPSUM WALLBOARD
2' X 4' LIGHT FIXTURE
2' X 2' LIGHT FIXTURE
SEE MEP DRAWINGS
SEE MEP DRAWINGS
RECESSED DOWN LIGHT
PENDANT LIGHT FIXTURES
1' X 4' LIGHT FIXTURE
ROLLER SHADE
MANUAL
M
2' X 4' ACOUSTICAL CEILING TILE, EXISTING GRID TO REMAIN
ROLLER SHADE MANUAL (2) Mx2
SECOND FLOOR REFLECTED CEILING PLAN - UNIT B

LEGEND

- REFLECTED CEILING PLAN
- GENERAL NOTES:
  1. UNLESS NOTED OTHERWISE, GYPSUM BULKHEADS TO BE 3 5/8" METAL STUDS AT 16" O/C WITH 5/8" GWB EACH SIDE, EXTENDING MIN. 1" BELOW ADJACENT CEILING.
  2. CEILING GRID SHALL BE COORDINATED WITH MEP EQUIPMENT AND DEVICES.
  3. UNLESS NOTED OTHERWISE, ALL VISIBLE STRUCTURAL STEEL, ROOF/FLOOR DECK, DUCTWORK, PIPING, CONDUIT, HANGER WIRES, ETC. AT EXPOSED LOCATIONS OR ABOVE CEILING CLOUDS SHALL BE PAINTED.
  4. REFER TO ROOM FINISH SCHEDULE FOR CEILING TYPES.
  5. ALL VISIBLE HANGER WIRES, STRUCTURE AND BRACING AT EXPOSED CEILING GRID OR CEILING CLOUD LOCATIONS SHALL BE INSTALLED PLUMB AND LEVEL. PAINT ALL TO MATCH ADJACENT SURFACES.
  6. FOR WINDOWS THAT REQUIRE TWO OR MORE ROLLER SHADES, EACH ROLLER SHADE SHALL TERMINATE AT THE CENTER OF THE WINDOW MULLION. REFER TO HOLLOW METAL AND ALUMINUM FRAME ELEVATIONS FOR DIMENSIONS AND WINDOW MULLION DESIGN AND ROLLER SHADE BRAKES. VERIFY IN FIELD FOR MANUFACTURING OR INSTALLATION OF ANY PARTS.
  7. REFER TO SHEET CS.2 FOR ADDITIONAL INFORMATION.

- SEE MEP DRAWINGS

- 2' X 2' SUSPENDED CEILING SYSTEM
- 2' X 4' SUSPENDED CEILING SYSTEM
- GYPSUM WALLBOARD
- 2' X 4' LIGHT FIXTURE
- 2' X 2' LIGHT FIXTURE
- RECESSED DOWN LIGHT
- PENDANT LIGHT
- FIXTURES
- 1' X 4' LIGHT FIXTURE
- ROLLER SHADE - MANUAL
- 2' X 4' ACOUSTICAL CEILING TILE, EXISTING GRID TO REMAIN
- ROLLER SHADE - MANUAL (2)

- NOT IN SCOPE
# Room Finish & Door Schedule

## General Notes:
- **A6.0** - REVISE DOOR AND/OR FRAME AS SCHEDULED ON EXTERIOR FACE (OR INTERIOR, WHERE INDICATED).
- Provide 3/4" MDF infill as scheduled.
- Where indicated, remove existing glazing and replace with new material to match frame color as indicated on schedule.
- Door & Built-PT porcelain tile, vinyl composition tile, tackboard infill, typical. Inlay 1/2" quarterround wood trim, mailings address: 5701 E. Wynnefield Ave, Philadelphia, PA 19138.
- Coordinate with door manufacturer requirements.
- Vertical and horizontal planes of soffit and bulkhead shall be painted to match the selected color.
- Provide new hardware to existing door and frame. Secure frame stops as required to accept new hardware and/or allow for physical on site, including cores.
- 100% design submission.
- Adjacent requirements:
  - Insulated glass, hollow metal, steel, roll-up doors, window and door framing, base and ceiling finish, wall finish, floor finish, walls, ceilings, doors.
- A6.1 - Addendum #1 2/20/2020
- Addenda:
  - *NOTE: NOT ALL NOTES MAY NECESSARILY APPLY TO ACCEPTANCE.
  - * - RECOMMENDED MOUNTING HEIGHT FROM FINISHED FLOOR TO CENTER LINE OF FIRE EXIT DEVICE
  - ** - COORDINATE WITH DOOR MANUFACTURE REQUIREMENTS

## Room Finish Schedule

### Column Headers:
- Number
- Name
- Color Scheme
- Floor
- Base
- Wall Finish
- Ceiling Finish
- Remarks

### Room Finish Schedule Details:
- R1-R25: NOT USED
- R26-R50: NOT USED
- R51: NOT USED
- R52: SEE INTERIOR ELEVATIONS FOR VARYING WALL MATERIALS.
- R53: PROVIDE ACCENT WALL.
- R54: NOT USED
- R55: PROVIDE CT AT SINK ALCOVES
- R56-R75: NOT USED

## Door Schedule

### Column Headers:
- Opening
- Door Type
- Material
- Door Finish
- Door Finish
- Frame Material
- Frame Finish
- Glazing
- Wall Type
- Hardware Set
- Remarks

### Door Schedule Details:
- Door Types:
  - F: Hollow metal
  - N: Steel
  - G: Hollow iron
  - FC: Hollow iron

## Color Scheme Schedule

### Column Headers:
- Room
- Color Scheme
- Floor
- Base
- Wall
- Ceiling
- Remarks

### Color Scheme Schedule Details:
-とした値は、それが適用されない場合です。
- R1-R25: NOT USED
- R26-R50: NOT USED
- R51: NOT USED
- R52: SEE INTERIOR ELEVATIONS FOR VARYING WALL MATERIALS.
- R53: PROVIDE ACCENT WALL.
- R54: NOT USED
- R55: PROVIDE CT AT SINK ALCOVES
- R56-R75: NOT USED
D1.2

### Project Details:

**Location:** SAMUEL GOMPERS ELEMENTARY SCHOOL (5701 WYNNEFIELD AVE, PHILADELPHIA, PA 19131)

**Project Type:** FIRST FLOOR DEMOLITION PLAN - UNIT B

**Title:** FIRST FLOOR DEMOLITION PLAN - UNIT B

**Scale:** 1/2" = 1'-0" (D1.2)

**Note:**

- Refer to "General Project Alteration Notes" on CS.2 for additional information.
- Refer to door schedule for additional information.

**Demolition Legend:***

- **WALL DEMOLITION & RENOVATION**
  - 1A: Existing walls shall be scraped; remove any/all abandoned or unused conduit, wiring, panels, hinges, latches, and hardware. Contractor shall prepare all adjacent finishes for new work and finish as scheduled.

- **EXISTING WINDOW UNIT REPLACEMENT**
  - 1A: Existing window units are to be preserved for complete preservation.

- **EXISTING GLAZING TO REMAIN**
  - 1A: Existing glazing to remain.

- **EXISTING WINDOW ASSEMBLY TO REMAIN**
  - 1A: Existing window assemblies to remain.

**Not in Scope:**

- **EXISTING INFILL PANEL**
  - 1A: Preparing existing infill panel is not in scope.

- **INFILL WITH INSULATED GLAZING**
  - 1A: Infilling with insulated glazing is not in scope.

- **REPLACE EXISTING A/C UNIT AND RETURN TO OWNER**
  - 1A: Replacing existing A/C unit and returning to owner is not in scope.

- **REPLACE EXISTING SINGLE-SHEETумент**
  - 1A: Replacing existing single-sheetумент is not in scope.
SECOND FLOOR DEMOLITION PLAN - UNIT B

NOTE:
REFER TO "GENERAL PROJECT ALTERATION NOTES" ON CS.2 FOR ADDITIONAL INFORMATION.
REFER TO DOOR SCHEDULE FOR ADDITIONAL INFORMATION.

DEMOLITION LEGEND

NOT IN SCOPE

1 - WALL DEMOLITION & RENOVATION
EXISTING WALLS SHALL BE SCRAPED; REMOVE ANY/ALL ABANDONED OR UNUSED CONDUIT, WIRING, ETC.
ALL METAL JOURNEYS AND FINISHES SHALL BE REMOVED IN THEIR ENTIRETY.
PATCH AND PREPARE ALL ADJACENT FINISHES FOR NEW WORK AND FINISH AS SCHEDULED.

DEMO MARKING "X" MARKING "X"

NEW INFILL

TACK AND DURABLE LABORATORY SURFACES TO BE THOROUGHLY CLEANED, VACUUMED, FETED OF ANY REMNANTS, DYES OR COATING AND PREPARED FOR NEW SURFACE.
PATCH AND DURABLE LABORATORY SURFACES TO BE THOROUGHLY CLEANED, VACUUMED, FETED OF ANY REMNANTS, DYES OR COATING AND PREPARED FOR NEW SURFACE.

PREPARE EXISTING WOOD TRIM
DISPLAY BOARDS FOR NEW FINISH AS SCHEDULED. DISPLAY BOARDS SHALL BE FREE OF ANY FASTENERS, LOOSE MATERIALS, AND PREPARED FOR NEW INFILL.
patches and fortunes to remain. REFER TO ENGINEERING DRAWINGS FOR FURTHER INFORMATION WHERE OCCURS.

NEW INFILL

MATERIALS AND PRODUCTS TO BE THOROUGHLY CLEANED, VACUUMED, FETED OF ANY REMNANTS, DYES OR COATING AND PREPARED FOR NEW INFILL.

PREPARE EXISTING WOOD TRIM
DISPLAY BOARDS FOR NEW FINISH AS SCHEDULED. DISPLAY BOARDS SHALL BE FREE OF ANY FASTENERS, LOOSE MATERIALS, AND PREPARED FOR NEW INFILL.
patches and fortunes to remain. REFER TO ENGINEERING DRAWINGS FOR FURTHER INFORMATION WHERE OCCURS.

NEW INFILL

MATERIALS AND PRODUCTS TO BE THOROUGHLY CLEANED, VACUUMED, FETED OF ANY REMNANTS, DYES OR COATING AND PREPARED FOR NEW INFILL.

PREPARE EXISTING WOOD TRIM DISPLAY BOARDS FOR NEW FINISH AS SCHEDULED. DISPLAY BOARDS SHALL BE FREE OF ANY FASTENERS, LOOSE MATERIALS, AND PREPARED FOR NEW INFILL.
patches and fortunes to remain. REFER TO ENGINEERING DRAWINGS FOR FURTHER INFORMATION WHERE OCCURS.
1. PROVIDE NEW TAMPER RESISTANT DEDICATED DUPLEX RECEPTACLE FOR LAPTOP CART CHARGING STATION.

2. CONTRACTOR TO COORDINATE IN FIELD FOR EXACT LOCATION OF RECEPTACLE AND DATA OUTLET SERVING THE INTERACTIVE SMARTBOARD TO AVOID CONFLICT WITH BASE PLATE. REFER TO ARCHITECTURAL DRAWING I4.6 DETAIL #1 AND # 2 FOR EXACT LOCATION AND MOUNTING HEIGHT.

3. CONTRACTOR TO FIELD TEST FUNCTIONALITY OF EXISTING TELEPHONE OUTLETS AND REPLACE AS REQUIRED. NEW TO MATCH EXISTING IN KIND MAKE AND TYPE.

4. NEW LOCATION OF RELOCATED PA SPEAKER. COORDINATE IN FIELD FOR EXACT LOCATION.

5. PROVIDE NEW BATTERY OPERATED WIRELESS CLOCK. COORDINATE WITH ARCHITECT FOR EXACT MOUNTING HEIGHT.

6. PROVIDE NEW TAMPER RESISTANT RECEPTACLE WITH COVER PLATE AND RECONNECT TO EXISTING CIRCUIT.

7. NEW PANELBOARD "L-A". CONTRACTOR TO UTILIZE, INTERCEPT AND EXTEND ALL ACTIVE FEEDER AND BRANCH CIRCUIT WIRING/CONDUIT OF SAME SIZE VIA NEW JUNCTION BOX OR PULL BOX AND CONNECT IT TO THE NEW PANELBOARD.

8. PROVIDE NEW TAMPER RESISTANT RECEPTACLE WITH COVER PLATE AND RECONNECT TO EXISTING CIRCUIT.

9. PROVIDE NEW BATTERY OPERATED WIRELESS CLOCK. COORDINATE WITH ARCHITECT FOR EXACT MOUNTING HEIGHT.

10. PROVIDE NEW TAMPER RESISTANT RECEPTACLE WITH COVER PLATE AND RECONNECT TO EXISTING CIRCUIT.

11. CONTRACTOR TO RUN ALL NEW SURFACE MOUNTED CONDUITS AND RACEWAYS IN CORNERS OF EACH CLASSROOM TO AVOID CONFLICT WITH DISPLAY BOARDS AND OTHER.

12. PROVIDE NEW TAMPER RESISTANT DEDICATED DUPLEX RECEPTACLE FOR LAPTOP CART CHARGING STATION.

13. CONTRACTOR TO COORDINATE IN FIELD FOR EXACT LOCATION OF RECEPTACLE AND DATA OUTLET SERVING THE INTERACTIVE SMARTBOARD TO AVOID CONFLICT WITH BASE PLATE. REFER TO ARCHITECTURAL DRAWING I4.6 DETAIL #1 AND # 2 FOR EXACT LOCATION AND MOUNTING HEIGHT.

14. CONTRACTOR TO FIELD TEST FUNCTIONALITY OF EXISTING TELEPHONE OUTLETS AND REPLACE AS REQUIRED. NEW TO MATCH EXISTING IN KIND MAKE AND TYPE.

15. NEW LOCATION OF RELOCATED PA SPEAKER. COORDINATE IN FIELD FOR EXACT LOCATION.

16. PROVIDE NEW BATTERY OPERATED WIRELESS CLOCK. COORDINATE WITH ARCHITECT FOR EXACT MOUNTING HEIGHT.

17. PROVIDE NEW TAMPER RESISTANT RECEPTACLE WITH COVER PLATE AND RECONNECT TO EXISTING CIRCUIT.

18. PROVIDE NEW TAMPER RESISTANT RECEPTACLE WITH COVER PLATE AND RECONNECT TO EXISTING CIRCUIT.

19. PROVIDE NEW BATTERY OPERATED WIRELESS CLOCK. COORDINATE WITH ARCHITECT FOR EXACT MOUNTING HEIGHT.

20. PROVIDE NEW TAMPER RESISTANT RECEPTACLE WITH COVER PLATE AND RECONNECT TO EXISTING CIRCUIT.

21. CONTRACTOR TO RUN ALL NEW SURFACE MOUNTED CONDUITS AND RACEWAYS IN CORNERS OF EACH CLASSROOM TO AVOID CONFLICT WITH DISPLAY BOARDS AND OTHER.

22. PROVIDE NEW TAMPER RESISTANT DEDICATED DUPLEX RECEPTACLE FOR LAPTOP CART CHARGING STATION.

23. CONTRACTOR TO COORDINATE IN FIELD FOR EXACT LOCATION OF RECEPTACLE AND DATA OUTLET SERVING THE INTERACTIVE SMARTBOARD TO AVOID CONFLICT WITH BASE PLATE. REFER TO ARCHITECTURAL DRAWING I4.6 DETAIL #1 AND # 2 FOR EXACT LOCATION AND MOUNTING HEIGHT.

24. CONTRACTOR TO FIELD TEST FUNCTIONALITY OF EXISTING TELEPHONE OUTLETS AND REPLACE AS REQUIRED. NEW TO MATCH EXISTING IN KIND MAKE AND TYPE.

25. NEW LOCATION OF RELOCATED PA SPEAKER. COORDINATE IN FIELD FOR EXACT LOCATION.

26. PROVIDE NEW BATTERY OPERATED WIRELESS CLOCK. COORDINATE WITH ARCHITECT FOR EXACT MOUNTING HEIGHT.

27. PROVIDE NEW TAMPER RESISTANT RECEPTACLE WITH COVER PLATE AND RECONNECT TO EXISTING CIRCUIT.

28. PROVIDE NEW TAMPER RESISTANT RECEPTACLE WITH COVER PLATE AND RECONNECT TO EXISTING CIRCUIT.

29. PROVIDE NEW BATTERY OPERATED WIRELESS CLOCK. COORDINATE WITH ARCHITECT FOR EXACT MOUNTING HEIGHT.

30. PROVIDE NEW TAMPER RESISTANT RECEPTACLE WITH COVER PLATE AND RECONNECT TO EXISTING CIRCUIT.
1. REFER TO DRAWING E0.1 FOR ELECTRICAL GENERAL NOTES, LEGEND AND ABBREVIATIONS.
2. REFER TO ARCHITECTURAL DRAWINGS, ELEVATION & DETAILS FOR EXACT LOCATION OF ELECTRICAL DEVICES.
3. ALL RECEPTACLES, TELE/DATA OUTLETS WITH ASSOCIATED WIRING, CONDUIT, RACEWAYS, ETC SHALL BE SURFACE MOUNTED ON EXISTING WALLS AND FLUSH MOUNTED ON NEW WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL TYPES.
4. ALL THE RECEPTACLES AND DATA OUTLETS WITHIN THE SCOPE OF WORK ARE TO REMAIN SHALL BE PROVIDED WITH NEW DEVICES. NEW DEVICE COLOR SHALL BE WHITE.
6. ELECTRICAL CONTRACTOR TO RUN ALL NEW SURFACE MOUNTED CONDUITS AND RACEWAYS IN CORNERS OF EACH CLASSROOM TO AVOID CONFLICT WITH DISPLAY BOARDS AND OTHER CLASSROOM FURNISHINGS.

1. PROVIDE NEW TAMPER RESISTANT DEDICATED DUPLEX RECEPTACLE FOR LAPTOP CART CHARGING STATION.
2. CONTRACTOR TO COORDINATE IN FIELD FOR EXACT LOCATION OF RECEPTACLE AND DATA OUTLET SERVING THE INTERACTIVE SMARTBOARD TO AVOID CONFLICT WITH BASE PLATE. REFER TO ARCHITECTURAL DRAWING I4.6 DETAIL #1 AND #2 FOR EXACT LOCATION AND MOUNTING HEIGHT.
3. CONTRACTOR TO FIELD TEST FUNCTIONALITY OF EXISTING TELEPHONE OUTLETS AND REPLACE AS REQUIRED. NEW TO MATCH EXISTING IN KIND MAKE AND TYPE.
4. NEW LOCATION OF RELOCATED PA SPEAKER. COORDINATE IN FIELD FOR EXACT LOCATION.
5. PROVIDE NEW BATTERY OPERATED WIRELESS CLOCK. COORDINATE WITH ARCHITECT FOR EXACT MOUNTING HEIGHT.
6. PROVIDE NEW TAMPER RESISTANT RECEPTACLE WITH COVER PLATE AND RECONNECT TO EXISTING CIRCUIT.
7. NEW PANELBOARD "C". CONTRACTOR TO UTILIZE, INTERCEPT AND EXTEND ALL ACTIVE FEEDER AND BRANCH CIRCUIT WIRING/CONDUIT OF SAME SIZE VIA NEW JUNCTION BOX OR PULL BOX AND CONNECT IT TO THE NEW PANELBOARD.