	ADDENDUM
Public Building Cor	nmission of Chicago Richard J. Daley Center 50 West Washington Street, Room 200 Chicago, Illinois 60602 (312) 744-3090 pbcchicago.com
ADDENDUM NO.:	02
PROJECT NAME:	Lake View High School Renovation Project
PROJECT NO.:	05095
CONTRACT NO.:	C1583
DATE OF ISSUE:	April 28, 2017

NOTICE OF CHANGES, MODIFICATIONS, OR CLARIFICATIONS TO CONTRACT DOCUMENTS

The following changes, modifications, or clarifications are hereby incorporated and made an integral part of the Contract Documents. Unless clearly expressed otherwise by this Addendum, all terms and conditions defined in the original Contract Documents shall continue in full force and effect and shall have the same meaning in this Addendum.

ITEM NO. 1: CHANGE TO KEY DATES

- Change 1. Bid Due/Time and Public Bid Opening:
 - a. The Bid Due Date/Time and Public Bid Opening has been rescheduled to Friday, May 5, 2017 at 11:00 a.m.
- Change 2. Pre-Award Meeting:
 - a. The Pre-Award Meeting has been rescheduled to Monday, May 8, 2017 at 1:00 p.m.
- ITEM NO. 2: REVISIONS TO BOOK 1 PBC INSTRUCTIONS TO BIDDERS None.
- ITEM NO. 3: REVISIONS TO BOOK 2 PBC STANDARD TERMS AND CONDITIONS None.

CHANGES TO BUILDING RENOVATION (MCR)

ITEM NO. 4: REVISIONS TO BOOK 3 – TECHNICAL SPECIFICATIONS – BUILDING RENOVATIONS (MCR)

- Change 1. The following Building Renovation Specifications are issued herewith:
 - b. **ISSUED** Section #08 51 23: Steel Windows.
 - c. **ISSUED** Section #09 05 61.13: Moisture Vapor Emission Control.
 - d. **ISSUED** Section #08 80 00: Glazing.
- **Change 2.** The following Building Renovation Specifications are revised and issued herewith:
 - a. **REVISED** Section #00 01 10: Table of Contents, add sections #08 51 23: STEEL WINDOWS, #09 05 61.13: MOISTURE VAPOR EMISSION CONTROL, and #08 80 00: GLAZING.
 - b. **REVISED** Section #01 14 11: Construction Operations and Site Utilization Plan section 1.4, A, Part 1b section 1.7, A.1 Part c.1 is revised.
 - c. **REVISED** Section #09 65 19: Resilient Tile Flooring.
- Change 3. The following Building Renovations Specifications are to be revised as follows:
 - a. REVISED Section #08 15 13 the following is to be revised: Part 1 GENERAL 1.2 B. revise part 2 to read: "Minimum Performance Grade: 50". Add the following to Part 2 PRODUCTS, 2.2 A.: "3. Double-hung."

- b. REVISED Section #01 50 03, TEMPORARY FACILITIES AND CONTROLS Revise section 3.3, part I to read as follows: "I. Existing Elevator Usage: Use of the Board's existing elevators will not be permitted, as long as elevators are cleaned and maintained in a condition acceptable to the Board. At Preliminary Acceptance, restore elevators to condition existing before initial use, including replacing worn cables, guide shoes, and similar items of limited life."
- c. **REVISED** Section #23 53 13, BOILER FEEDWATER PUMPS: Revise footers for this section to #23 53 13 instead of #23 82 16.

ITEM NO. 5: REVISIONS TO DRAWINGS – BUILDING RENOVATIONS (MCR)

- **Change 1.** The following Building Renovation Drawings are revised and issued herewith, dated April 21, 2017:
 - a. REVISED Drawing No. ADA.03, ADA DETAILS AND INTERIOR SIGNAGE: Interior Signage Schedule has been revised to correspond to signage quantities and locations on floor plans. Additionally, sign type "UN-2" has been added along with eighteen (18) sign types "UN-2" in the Interior Signage Schedule.
 - b. **REVISED** Drawing No. A8.12, ENLARGED FLOOR PLANS: Detail titles added to details #3, 4 & 5. Also, tag "A9" on detail 1 revised to "T5".
 - c. REVISED Drawing No. A11.7, INTERIOR ELEVATIONS: Detail 6B revised to indicate 2 water closets and 4 urinals. Detail titles for #1B, 2B, 3B, 4B, 5B, 6B, 7B and 8B revised from "STAFF" to "STUDENT". Additionally, clarification regarding plumbing accessories indicated.
 - d. **REVISED** Drawings No. A5.1, A5.2, A5.3 and A5.4, BUILDING ELEVATIONS: Revised to show locations of ADA windows.
 - e. **REVISED** Drawing No. M0.0, MECHANICAL ABBREVIATIONS, SYMBOLS AND NOTES: Notes revised.
 - f. **REVISED** Drawing No. MD2.1, BASEMENT ENLARGED MECHANICAL DEMOLITION PLAN: Notes revised.
 - g. REVISED Drawing No. M2.1, BASEMENT ENLARGED MECHANICAL PLAN: Notes revised.
 - h. **REVISED** Drawing No. M2.2, BASEMENT ENLARGED MECHANICAL PLAN: Notes revised.
 - i. **REVISED** Drawing No. M2.3, ENLARGED MECHANICAL PLAN: Note and detail 8 added.
 - j. REVISED Drawing No. M3.2, MECHANICAL SCHEDULES: Schedules revised.
 - k. **REVISED** Drawing No. E0.1, ELECTRICAL SYMBOLS LIST: Added General Notes #34 and 35 as well as revised DEMO note # 5.
 - I. REVISED Drawing No. E1.0, BASEMENT FLOOR ELECTRICAL PLAN: Notes and detail 1 revised.
 - m. **REVISED** Drawing No. E1.5, ROOF PLAN NEW EQUIPMENT LAYOUT: Notes added and details 1 and 2 revised.
 - n. **REVISED** Drawing No. E2.2, ENLARGED PLANS LIGHTING: Notes added and details 1, 2 and 3 revised.
 - o. **REVISED** Drawing No. E2.3, ENLARGED PLANS POWER AND LOW VOLTAGE: Note 8 added and details 2, 3, 4, 5, 6, 7 and 8 revised.
 - p. REVISED Drawing No. E2.4, ENLARGED PLANS POWER AND LOW VOLTAGE: Details 1 and 2 revised.
 - q. **REVISED** Drawing No. E3.2, SCOREBOARD DETAIL: Revised scoreboard single line diagram.
 - r. REVISED Drawing No. E4.4, PANEL SCHEDULES: Revised Panel Board loading.
 - s. REVISED Drawing No. ED2.2, ENLARGED FIRST FLOOR ELECTRICAL DEMOLITION PLAN: Existing switch shown demolished in room #100I on detail 2, as well as existing exhaust fan and switch to be demolished in room #100I on detail 5.
 - t. **REVISED** Drawing No. ED2.3, ENLARGED SECOND FLOOR ELECTRICAL DEMOLITION PLAN: Changed SB-1 from an equipment tag to "SB-1" (Scoreboard) on detail 3, also added to proposed scoreboard location at north wall on detail 2. Existing switch shown demolished in room #200J on detail 7.
 - u. **REVISED** Drawing No. ED2.4, ENLARGED THIRD FLOOR ELECTRICAL DEMOLITION PLAN: Existing switch shown demolished in room #300G on detail 4.

Change 2. The following Building Renovation Drawings are to be revised as follows:

- a. **REVISED** Drawing No. T1.2, SITE PHASING PLAN Revise the SCOPE TO BE COMPLETED BY SCHEDULE MILESTONE 1 note B on detail to read as follows: "B. All interior mechanical work, excluding the mechanical work at the kitchen and roof."
- b. REVISED Drawing No. A1.1, FIRST FLOOR DEMOLITION REFERENCE PLAN Revise the note regarding the Typical Vapor Barrier System to read "Note: At all areas of conc. Slab infill / floor topping beneath V.C.T. fin. Flooring: Use Typical Vapor Barrier System over conc. infill and floor topping:
 - Two-component epoxy vapor barrier
 - Self-leveling underlayment
 - Concrete crack epoxy filler
 - Shot-blast concrete surface: Dustless scarification of min. 5 mil. thickness concrete surface removal for epoxy crack filler prep ('ICRI' Concrete Surface Profile #3)
 - See specification #09 05 61.13 Moisture Vapor Emission Control for additional requirements.
- c. **REVISED** Drawing No. A12.1, DETAILS Revise the note regarding the Typical Vapor Barrier System at detail 4 to read "Typical Vapor Barrier System:
 - Two-component epoxy vapor barrier
 - Self-leveling underlayment
 - Concrete crack epoxy filler
 - Shot-blast concrete surface: Dustless scarification of min. 5 mil. thickness concrete surface removal for epoxy crack filler prep ('ICRI' Concrete Surface Profile #3)
- See specification #09 05 61.13 Moisture Vapor Emission Control for additional requirements." d. **REVISED** Drawing No. A1.3, THIRD FLOOR DEMOLITION REFERENCE PLAN: On detail 1,
- a. REVISED Drawing No. A1.3, THIRD FLOOR DEMOLITION REFERENCE PLAN: On detail 1, revise the enlarged floor plan callout for the Level 2 Science Lab #320 to reference "9/A2.12" instead of "5/A2.9".
- e. REVISED Drawing No. A2.1, A2.2, A2.2A, A2.3, A2.4, A2.5, A2.6, A2.7, A2.8, A2.9, A2.10, A2.11, A2.12 and A2.13, "ENLARGED DEMOLITION PLAN" as well as drawing no. A3.0, A3.1, A3.2
 "ENLARGED DEMO REFLECTED CEILING PLAN" Demolition Key Note #D20 to read as follows: "Patch / infill existing adhered ceiling tile in quantities indicated. Paint existing and new 12"x12" adhered ceiling tile, entire ceiling." Additionally, revise Demolition Key Note #D21 to read as follows: "Patch / infill existing adhered wall tile in quantities indicated. Paint existing and new 12"x12" adhered wall tile, entire ceiling." Additionally, revise Demolition Key Note #D21 to read as follows: "Patch / infill existing adhered wall tile in quantities indicated. Paint existing and new 12"x12" adhered wall tile, this room in its entirety."
- f. REVISED Drawing No. A3.2, ENLARGED DEMO REFLECTED CEILING PLAN On details 8 and 9 eliminate the following verbiage in its entirety: "Note: Part of Alternate #1". There are no Alternates in the project.
- g. REVISED Drawing No. A6.0, BASEMENT CONSTRUCTION REFERENCE PLAN; A6.1, FIRST FLOOR CONSTRUCTION REFERENCE PLAN; A6.2, SECOND FLOOR CONSTRUCTION REFERENCE PLAN; A6.3, THIRD FLOOR CONSTRUCTION REFERENCE PLAN add interior sign type "UN-2" as follows: Three (3) to be located at the basement level, five (5) to be located on the first floor, five (5) to be located on the second floor and three (3) to be located on the third floor; one each located on the wall in the corridor outside of each multi-user toilet room.
- h. **REVISED** Drawing No. A6.0, BASEMENT CONSTRUCTION REFERENCE PLAN On detail 1, add the following interior signs: "TR-5" to room #010C and "TR-6" to room #010D
- REVISED Drawing No. A6.2, SECOND FLOOR CONSTRUCTION REFERENCE PLAN: On detail 2, revise the interior sign at Boys Student Toilet #200J from "TR-1" to "TR-3". Additionally, revise the interior sign at Men Staff Toilet #200N from "TR-5" to "TR-7".
- j. REVISED Drawing No. A8.0, A8.1, A8.2, A8.3, A8.4, A8.5, A8.6, A8.7, A8.8, A8.9, A8.10, A8.11, A8.12 and A8.13, ENLARGED FLOOR PLANS along with A9.0, A9.1 and A9.2, ENLARGED REFLECTED CEILING PLAN Construction Key Note #A9 to read as follows: "Provide V.C.T. flooring over approx. 1" lightweight conc. topping over exist. conc. topping w/ wood sleepers this room in its entirety. Undercut all exist. doors in room to accommodate elevation changes in floor where req'd. Provide quarter-round shoe stained to match wood base at locations where the exist. base is wood. Provide rubber base where exist. base was vinyl. See details 1, 2, 3 and 4/A12.1 & R.F.S. for add'l. req's.

- k. **REVISED** Drawing No. A8.9, ENLARGED FLOOR PLANS Detail 2 "318 Art Lab Floor Plan": Delete callout for east wall noted as "4/A11.8" and add a new callout "4/A11.4".
- REVISED Drawing No. A8.12 and A8.13, ENLARGED FLOOR PLANS as well as A11.6, A11.7 and A11.8, INTERIOR ELEVATIONS – Toilet Construction Key Note #T5 to read as follows: "Remove existing ceramic tile / V.C.T. flooring in its entirety down to substrate. Patch / infill substrate as req'd. Provide ceramic tile flooring and base. Provide thresholds at flooring material changes."
- m. **REVISED** Drawing No. A11.2, INTERIOR ELEVATIONS detail 2 add the following note: "Provide 4'-0"x8'-0" wall-mounted white board with 4'-0"x4'-0" wall-mounted tack board, this wall."
- n. REVISED Drawing No. A11.5, INTERIOR ELEVATIONS details 7, 8 and 9: Revise note regarding fabric wrapped wall panels to read as follows: "Remove existing adhesively applied acoustic panels in their entirety. Provide fabric-wrapped panels applied to 5/8" painted A.R. gyp. bd. at area shown hatched like this, this detail see plans".
- REVISED Drawing No. A11.9, INTERIOR ELEVATIONS: Add Plumbing Accessory Schedule tag "J, typ." to the two water closet stalls on detail 5B. Also add "TYP." to the accessory callouts "E", "F" and "D".
- p. REVISED Drawing No. A13.2, DOOR SCHEDULE: Revise the remarks for Door #A010DA to eliminate reference to Remark 1. Revise the remarks for door #A011A to read "Provide knurled lever hardware this door". Eliminate reference to Remark 1. In the "REMARKS" area of the Door Schedule, revise Remark #1 to read "(NOT USED)".
- q. REVISED Drawing No. A13.3, WINDOW SCHEDULE: Delete reference to any quantities in "QUANT." columns and eliminate "Total: 974" in its entirety on the Window Schedule. Window schedule is provided for configuration and dimensional reference. Refer to exterior elevations sheets A5.x series for windows to be replaced, window guards to be provided, lintel work to be performed, etc. Refer to enlarged floor plan sheets A.8x series for window shades to be replaced (see General Window Note #6 on sheet A13.3). Refer to sheet A9.1 for motorized window shade locations. Refer to interior elevation sheets A11.x series for extents of window trim to be refinished.
- r. REVISED Drawing No. A13.3, WINDOW SCHEDULE: General Window Notes, Note #1 to read: "1. In any openings adjacent to fire escape where an existing window is to be replaced, provide steel windows in same dimension and configuration as existing aluminum window with ¼" wire glass, rated Class 'D' or 'E', as per City of Chicago code #67-16.1 (F)".
- s. **REVISED** Drawing No. M1.1, FIRST FLOOR MECHANICAL REFERENCE PLAN: Delete callout reference to Enlarged Plan 7, M2.3 on detail 2.
- t. **REVISED** Drawing No. M1.3, THIRD FLOOR MECHANICAL REFERENCE PLAN: Delete callout reference to Enlarged Plan 9, M2.3 on detail 2.
- u. REVISED Drawing No. MD2.2, BASEMENT ENLARGED MECHANICAL DEMOLITION PLANS: Change Keyed Note #4A to read: "Isolate & hydrostatically pressure test each bank of preheat and reheat coils, and submit results to AOR. Disconnect, remove, and dispose offsite existing banks of preheat and reheat steam coils that fail test, including associated steam & condensate piping (from PRV to condensate pump), valves, control valves, steam traps, and actuators. Include a total of 6 banks of coils to be replaced. Include replacement of about 30 S.F. Sheet metal & insulation per coil. Sheet metal shall be the same gauge as existing. Pressure wash coils that pass test. Reuse existing coil supports."
- v. REVISED Drawing No. MD2.3, BASEMENT ENLARGED MECHANICAL DEMOLITION PLANS: Change Keyed Note 4A to read: "Isolate & hydrostatically pressure test each bank of preheat and reheat coils, and submit results to AOR. Disconnect, remove, and dispose offsite existing banks of preheat and reheat steam coils that fail test, including associated steam & condensate piping (from PRV to condensate pump), valves, control valves, steam traps, and actuators. Include a total 6 banks of coils to be replaced. Include replacement of about 30 S.F. Sheet metal & insulation per coil. Sheet metal shall be the same gauge as existing. Pressure wash coils that pass test. Reuse existing coil supports."
- w. **REVISED** Drawing No. E1.1, FIRST FLOOR ELECTRICAL PLAN: Note 1 deleted from "NOTES". Delete Note 1 reference on detail 1.
- x. **REVISED** Drawing No. E2.1, ENLARGED PLANS LIGHTING: Exit sign added at door to corridor from Kitchen #040 on detail 1. Also, delete the two keyed switches at room #100l on detail 2.

Additionally, delete tag "TEF-5" and Note 2 reference on detail 4 – eliminate Note 2 in its entirety. Delete BPU on detail 5 in room #100J.

- y. REVISED Drawing No. E3.3, ELECTRICAL DETAILS AND NOTES: Revise note for mounting detail to read: "GC to provide & install curb and swing arm assembly. Electrical Contractor to provide and install light head, conduit and wiring. See Architectural drawings for further details".
- z. **REVISED** Drawing No. E4.2, EQUIPMENT SCHEDULE: Disconnect switch for equipment item #FR-5 added on "Architectural, Mechanical and Owner Equipment Schedules".
- aa. REVISED Drawing No. ED2.1, ENLARGED BASEMENT FLOOR ELECTRICAL DEMOLITION PLAN: Delete hexagon note #2C on detail 1 and delete receptacle on west wall of Kitchen #040. Disconnect switch added for equipment item #FR-5 on detail 4.

CHANGES TO SITE DEVELOPMENT (SIT)

ITEM NO. 6: REVISIONS TO BOOK 3 – TECHNICAL SPECIFICATIONS – SITE DEVELOPMENT(SIT)

Change 1. The following Site Development Specifications are revised and issued herewith:

REVISED SECTION 32 18 23.39: Synthetic Running Track Surface

- a. **REMOVED** Section 1.2, C.
- b. **REMOVED** Section 1.3, B, 1.
- c. **REVISED** Section 3.2, E.
- d. REVISED Section 3.2, F.
- e. **REMOVED** Section 3.2 G.

Change 2. The following Site Development Specifications are revised and issued herewith:

REVISED SECTION 01 14 11: Construction Operations and Site Utilization Plan

a. **REVISED** Section 1.4, A, 1b

Change 2. The following Site Development Specifications are revised and issued herewith:

REVISED SECTION 12 93 00: Site Furnishings

- a. REVISED Section 1.1, A
- b. REVISED Section 1.1, D
- c. REVISED Section 2.1, E

ITEM NO. 7: REVISIONS TO DRAWINGS – SITE DEVELOPMENT (SIT)

Change 1. The following Site Development Drawings are revised and issued herewith:

- a. **REVISED** Drawing No. C2.0, Demolition Plan. Revised Note 1.
- b. **REVISED** Drawing No. C2.0, Demolition Plan. Revised Note 3.
- **Change 2.** The following Site Development Drawings are revised and issued herewith:
 - a. **REVISED** Drawing No. E0.2, Electrical Schedules: Revised new panelboard "L-SITE" and associated feeder from 125 amps to 200 amps.
 - b. **REVISED** Drawing No. E0.2, Electrical Schedules: Revised lighting fixture schedule pole height from 40' to 70'. Revised pole disconnect switch from 20A-3P to 30A-3P.
 - c. REVISED Drawing No. E2.0, Electrical Site Plan: Revised sports lighting pole fixture quantities from six fixtures to eight fixtures for poles P1, P2, P4, P5 and P6. Revised sports lighting pole fixture quantity from three fixtures to six fixtures for pole P3. Revised all sports lighting fixture pole "F1" height from 40' to 70'. Revised new panelboard "L-SITE" and associated feeder from 125 amps to 200 amps.
- **Change 3.** The following Site Development Drawings are revised and issued herewith:
 - a. **REVISED** Drawing No. L4.1, Site Details: Revised Detail 3, Bike Rack

REQUESTS FOR INFORMATION

ITEM NO. 8:	REQUESTS F			
	Statement: Response:	Please provide the estimate value of the project. Published construction budget for the Lake View High School Renovation Project is \$14,100,000.00.		
		For future reference, published construction budgets can be found in Book 1 of the Issue For Bid documents. Issue For Bid documents can be found on the designated printer's online planroom for the Project. Access to the printer's online planroom can be found on the PBC's project page for the project at <u>www.pbcchicago.com</u> , under 'What's New' on the Home Page.		
	RFI-2. Question:	Will there be bidding on furniture (FF&E) for Lincoln Park High School Renovation and the Lake View High School Renovation or should we contact the schools directly?		
	Response:	There is no new furniture in the project scope.		
	RFI-3. Question: Response:	Is this a Union or Non Union project? CPS is signatory to a Multi-Project Labor Agreement. Please refer to Book 1, Page 12 of 102). CPS' Multi-Project Labor Agreement is applicable to this Project.		
	RFI-4. Question: Response:	Is the plan holders list available for Lake View? Planholder lists can typically be found on the designated printer's online planrooms for the project. Additionally, only Bidders who were in attendance at the Mandatory Tech Review meeting and who signed in are deemed eligible to bid. The attendance sign-in sheets reflecting who those firms were is available on the Project Page at www.pbcchicago.com, in the 'What's New' section. Lake View's designated printer is BHFX and their online planroom link is: <u>https://www.bhfxplanroom.com/public.php</u>		
	RFI-5. Statement:	Regarding Spec Section 32 18 15, the specifications require a minimum of 3 lbs of TPE per square foot for the synthetic turf system. The industry standard for a system utilizing TPE is between 1.5 and 1.75 lbs/sf. Due to the TPE being a more dense material, we do not recommend using the same 3 lbs per square foot that you would in a rubber/sand system. We would recommend clarifying this requirement for all bidders.		
	RFI-6. Statement: Response:	About seven subs attended the 2nd Site Visit. Low turnout could be due to the magnitude of the work shown in the phasing plan to be completed this summer. Many of the subs (especially the masonry restoration contractors) are already booked for this summer but are available in the fall. Window delivery could be a major problem with the current schedule. Please consider adjusting the phasing plan so that some of the exterior building work could be done in fall 2017/spring 2018 and more of the interior finish work could be done in summer 2018. Additionally, please consider a bid extension to allow us more time to find interested subs.		
		Date has been rescheduled to Friday, May 5, 2017 at 11:00 a.m.		

RFI-7.

- Statement: Please provide clarification to the window count discrepancy (A13.3), according to the Window Schedule total number is 974; adding numbers in the window schedule totals 775.
- **Response:** The Window Schedule is provided for window dimension and configuration reference only. Refer to exterior elevation sheets for window removal and replacement scope of work. All references to any quantities in "QUANT." columns are to be eliminated, and delete the window total "Total: 974" in its entirety on the Window Schedule on sheet A13.3 "WINDOW SCHEDULE" of this Addendum. Additionally, please refer to exterior elevations sheets A5.x series for window guards to be provided, lintel work to be performed, etc. Refer to enlarged floor plan sheets A.8x series for window shades to be replaced (see General Window Note #6 on sheet A13.3). Refer to interior elevation sheets A11.x series for extents of window trim to be refinished.

RFI-8.

- Statement: I was looking at this project and noticed that there are automatic operators. However I don't see them on the door schedule and the hardware sets don't with the autos aren't on the schedule. If you could look into this that would be great. Off of the door schedule it looks like door A010DA & A011A (hardware set # 34.1 & 14.4) call for automatic door operators. According to the specs, the hardware sets that have automatic operators are # 44, 45, & 49 but are not in the door schedule at all.
- **Response:** There are no automatic door operators in the project. Please eliminate reference to Remark #1 for doors #A010DA & #A011A in the Remarks column of the Door Schedule on sheet A13.2 "DOOR SCHEDULE". Also, Remark #1 in the REMARKS section of the Door Schedule is to be revised to read "(NOT USED)". Please refer to revised Drawing No. 13.2 of this Addendum.

RFI-9.

- Question: Where is the existing duct through the roof (ETR duct) that we are teeing into for note 4 on M1.0? Need an approximate location. No main is shown.
- **Response:** The existing duct (col. 16-18, & col. S) is shown as 12x18 on Drawing M1.0, issued in Addendum #01.

RFI-10.

- Question: Please advise how we are to bid the removal and replacement of the pre & re-heat coils. Demo drawings state to test and replace as needed and construction set says they are new. There must be an allowance carried for these or only the testing included in the base bid.
- **Response:** On sheets MD2.2, "BASEMENT ENLARGED MECHANICAL PLANS" and MD2.3, "BASEMENT ENLARGED MECHANICAL PLANS" note #4A is to be revised to read "Isolate & hydrostatically pressure test each bank of preheat and reheat coils, and submit results to AOR. Disconnect, remove, and dispose offsite existing banks of preheat and reheat steam coils that fail test, including associated steam & condensate piping (from PRV to condensate pump), valves, control valves, steam traps, and actuators. Include a total of 6 banks of coils to be replaced. Include replacement of about 30 S.F. Sheet metal & insulation per coil. Sheet metal shall be the same gauge as existing. Pressure wash coils that pass test. Reuse existing coil supports. Please refer to Revised Drawings MD2.2 and MD2.3 of this Addendum.

RFI-11.

- Question: Synthetic Running Track Surfacing 32 18 23.39
 - 1.1.2 Submittals B&C Being that the "track" is a two lane non regulation running path, is a shop drawing necessary for the layout? I imagine the track will have a center line and two outside lines with no event markings. Same for the certification from engineer, since its non-

regulation it will not meet NFSHSA Requirements. Please clarify if these item are needed.

- 2. 1.3 B 1. As stated above I would think there only 3 lane lines going on the surface. Is the Surveyor necessary to lay out the lines?
- 3. 3.2 E,F,&G This goes with the what I stated earlier about the striping. Being that it's a two lane non regulation track, I don't believe these requirements are necessary for this particular project.
- **Response:** The track is non-regulation and for recreational use only. The track is eight feet wide, therefore, there will only be two lanes, with three track stripes; an inside edge track stripe, a stripe down the middle, and an outside edge track stripe. 1.2 B & C: Shop drawings are required for review and approval. Certification is not required. 1.3, B, 1: A licensed surveyor is not required for the lane striping. 3.2, E, F & G: Start-finish line, event markings and runway border do not apply. A licensed surveyor is not required. NFSHSA certification is not required. The revised specification is issued as part of this Addendum.

RFI-12.

- Question: Please provide clarification on damper replacement. Addendum 1 states all dampers to remain and are to be cleaned. Note 5 MD2.2 states to remove OAI damper. M2.2 note 3 says to install new dampers. Does add #1 supersede these notes? Please Clarify if the dampers all remain or get replaced as noted.
- **Response:** On sheet M0.0, "MECHANICAL ABBREVIATIONS, SYMBOLS AND NOTES," the second note regarding dampers in the GENERAL NOTES ON STEAM TRAPS, DAMPERS RADIATORS & INSULATIONS of this Addendum to read as: "All existing dampers (return, bypass, outdoor, zone) unless otherwise stated as to be replaced, shall be cleaned and degreased, shafts and linkages lubricated and adjusted. Straighten blades as required and exercise dampers to operate from full open to full close without binding. Provide shop drawings indicating which dampers will be replaced."

RFI-13.

- Statement: I noticed fire escapes on the building. The drawings note "openings adjacent to the fire escape provide aluminum windows with ¼" wire glass". This does not meet the City of Chicago code per our experience and needs to be a steel ³/₄ hr fire rated window. Please advise what window is needed.
- **Response:** Aluminum windows to be replaced that are adjacent to fire escapes are to be fire rated. Please refer to Drawing A13.3 WINDOW SCHEDULE (part of this Addendum), which revises note GENERAL WINDOW NOTE #1 to read as follows: "1. In any openings adjacent to fire escape where an existing window is to be replaced, provide steel windows in same dimension and configuration as existing aluminum window with ¼" wire glass, rated Class 'D' or 'E', as per City of Chicago code #67-16.1 (F)". Please also refer to specification SECTION #08 51 23, STEEL WINDOWS of this Addendum.

RFI-14.

- Question: We need clarification with the hardware specification. The door schedule lists the hardware sets for each door requiring new hardware. Every set listed follows the following formatting XX.X (example 14.2) but in the Hardware spec, the sets are listed in whole numbers (example 14). Can you please clarify if we are to use Schedule in Specifications or Schedule in Drawings?
- **Response:** Please refer to 08 71 00, "DOOR HARDWARE" Appendix "A" for Hardware Sets #14.2, #11.1, etc. in Book 3, Volume I of IV of the Technical Specifications.

RFI-15.

- Statement: Please provide the preferred manufacturer and model number for the bike racks on the above reference project.
- **Response:** DuMor, Inc., Model # 67-947 (black) or approved equal.

RFI-16.

Statement:	Please clarify the mechanical work to be completed for milestone #1. Does "Mechanical" work include electrical, fire protection and plumbing?
Response:	Please refer to specification SECTION #01 14 11, CONSTRUCTION OPERATIONS AND SITE UTILIZATION PLAN which revises section 1.4, A, Part 1b to read as follows: "All interior mechanical work, excluding the mechanical work at the kitchen and roof". Also refer to detail 1 on sheet T1.2, SITE PHASING PLAN - note B on the "SCOPE TO BE COMPLETED BY SCHEDULE MILESTONE 1" table is to be revised as follows: "B. All interior mechanical work, excluding the mechanical work at the kitchen and roof." This would include related electrical, fire protection and plumbing work.
RFI-17. Statement:	Please reference ADA.03 and ADA.04. There are $(3) - 9$ " x 12" signs (UN-1, LU-1, GY-1) shown in the details, but none included in the sign schedule. Please confirm there are no 9" x 12" signs to be provided for Lake View High School.
Response:	Please refer to sheet ADA.03, ADA DETAILS AND INTERIOR SIGNAGE for revised Interior Signage Schedule, issued in this Addendum, which is updated to correspond to interior signage locations and quantities referenced in floor plans.
RFI-18. Statement:	Please reference A11.7 and the toilet details. Key note J references SS toilet paper dispensers, but the key note does not appear anywhere. Please clarify if all the toilet paper dispensers in the stalls are to be provided under the details shown on Key note J. Also, please reference A11.0 Detail 5B, please clarify if there are any toilet paper
Response:	dispensers in the two stalls. Please see revised sheets A11.7 "INTERIOR ELEVATIONS" and A11.9 "INTERIOR ELEVATIONS" of this Addendum for clarification regarding plumbing accessory type "J", which indicates toilet paper dispensers in the stalls to be provided under Plumbing Accessory tag "J".
RFI-19. Statement:	Please confirm there are no proposed fire extinguishers, Visual Display units, and projection screens in the contract drawings. I have been unable to locate any proposed on the drawings. If so, please clarify what sheets have at least one new item.
Response:	There are fire extinguishers in the project, to be located by Owner per specification 10 44 00 "Fire Protection Specialties" Section 2.3 part A.1. There is a projection screen in Cafeteria #010 indicated on detail 1 sheet A8.0, "ENLARGED FLOOR PLANS". There is a 4'-0"x8'-0" wall-mounted white board with a 4'-0"x4'-0" wall-mounted tack board for Classroom #209 shown on detail 2 sheet A11.2 "INTERIOR ELEVATIONS".
RFI-20. Statement:	Please reference A8.12 and detail 6 of A11.7. Please clarify in the staff toilet 200 J if there are any urinals. In the plan view it shows (4) urinals and (2) water closets, while in the elevation view it shows (6) water closets. Please advise.
Response:	Please see detail 6B on sheet A11.7 "INTERIOR ELEVATIONS" of this Addendum which has been revised to show two (2) water closets and four (4) urinals.
RFI-21. Statements:	In the "Aluminum Window" spec section 2.2 C, it says to refer to Division 08 section "Glazing." These specs are not included in the contract documents. Please provide those specifications.
Response:	Please refer to specification section #08 80 00 "GLAZING" of this Addendum.
RFI-22. Statements:	Also in the "Aluminum Window" specifications, it talks about insect screens for projected out windows. Almost all of this job is double hung. Are insect screen to be included on these double hung as well or just the offices and lunch room?

Response: No insect screens are to be provided on double hung windows. Please refer to exterior elevations A5.1, A5.2, A5.3 and A5.4 "EXTERIOR ELEVATIONS" for window replacement scope of work.

RFI-23.

- Statements: Refer to A13.3 general note 2. This talks about ADA compliance, at least 1 window in each room shall be accessible. There are no marks on any particular window on the elevation drawings that designates an ADA window.
- **Response:** Please see drawings A5.1, A5.2, A5.3 and A5.4 "EXTERIOR ELEVATIONS" of this Addendum for locations of replaced windows that are to be ADA windows.

RFI-24.

- Statements: Please reference contract drawing A1.3, A6.X and key notes D4, D27. D27 states to, "remove existing metal lockers with integral metal curbs this area. Turn over to owner and store in locations as directed by owner. See keynote tags for quantity".
 - 1. In the center of the building near room 300A and 320 of A1.3 there are both key notes D4 and D27 pointing to the same (29) lockers. Please clarify if those lockers are to be "salvaged and turned over to the owner" or "removed in its entirety" as stated in key note D27 and D4, respectively.
 - 2. Please clarify the intent of key note D27. Is the plan to store all the salvaged lockers somewhere in the building? Where exactly? There are about 256 lockers noted by Key note 27 and moving them between floors greatly impacts the cost of salvaging the lockers.

Please reference A6.1 – A6.5. The locker matrix states that there are 253 Type D lockers shared between the second and third floor. In the plan view of the second and third floor, locker type D has both C11 and C14 key notes. C11 states to, "provide surface mounted lockers" while C14 states to "reinstall salvaged metal lockers." Please clarify if these 253 lockers are meant to be brand new lockers or the lockers that were salvaged per Key note D27. Key note D27 does not reference that the salvaged lock are to be reinstalled, but instead turned over to the owner.

Response: The type "D" lockers are to be removed in their entirety, salvaged and turned over to Owner - as described by the Demolition Key Notes "D4" and "D27". The lockers are to be stored somewhere in the building, at the Owner's direction - to be directed in the field. Please see the A1.x series sheets and the A6.x series sheets as well as the locker details and Locker Matrix on sheet A6.5. Construction Key Note "C14" was revised in Addendum #01 to read "Not Used". Also, any targets referencing Key Note C14 were removed from drawing sheet A6.2 "SECOND FLOOR CONSTRUCTION REFERENCE PLAN" and drawing sheet A6.3 "THIRD FLOOR REFERENCE PLAN" in Addendum #01.

RFI-25.

- Statements: Enlarged plans 8&9/A3.2 have a note which states, "Part of Alternate #1." Section IV-F 'Alternates' in Book 1 of the Specifications (see page 19) states that alternates are intentionally omitted. Please confirm there are no alternates in this contract and all of the work is to be included in the base bid. Unless noted otherwise, we will assume all work is to be included in the base bid price.
- **Response:** Correct there are no Alternates in the project. Please see Drawing A3.2, "ENLARGED DEMO REFLECTED CEILING PLAN" details 8 and 9 revised in this Addendum that indicates the verbiage "Note: Part of Alternate #1" as being eliminated in its entirety.

RFI-26.

Statements: Detail 3/A1.3 shows a wall/wall end cap and notes that it is a detail at Art Room 318. This detail is not called out at Room 318 on any of the floor plans, demo plans, or enlarged plans at this room. Please confirm if this detail applies at all plaster patching locations called out at Room 318. **Response:** Detail 3/A1.3 is applicable at the wing wall adjacent to the peninsula sinks in Art Room #318. Please reference partial interior elevation 5/A11.8. Also see interior elevation callout "5/A11.8" on the enlarged plan of Art Lab #318, detail 2 on sheet A8.9, "ENLARGED FLOOR PLANS".

RFI-27.

- Statement: Enlarged plan 5/A2.9 is called out on A1.3 at Room 320. 5/A2.9 does not exist. Please advise.
- **Response:** The enlarged floor plan callout for the Level 2 Science Lab #320 on detail 1 of drawing A1.3 "THIRD FLOOR REFERENCE PLAN", should be revised to reference "9/A2.12" instead of "5/A2.9". Please see Revised Note A1.3 this Addendum.

RFI-28. Question:

Keynote D20 states, "Patch & paint existing 12"x12" adhered tile ceiling, entire ceiling."

- a. What do you mean by patch? Do you mean that we are to replace the damaged tiles with new? If so, please provide a tile quantity to be replaced.
- b. This keynote is called out at various locations and SF quantities are given (for example see 3/A2.11). However, the keynote says "entire ceiling". At locations where SF quantities are given, are we to include the given quantities or the entire ceiling square footage? Unless noted otherwise, we will include the given SF quantities.
- **Response:** Correct the S.F. quantities given for the 12"x12" ceiling tile patching are to be used. The entire ceiling is to be painted. Please see "DEMOLITION KEY NOTES" #D20 and #D21 key notes updated with revised wording as follows: #D20 "Patch / infill existing adhered ceiling tile in quantities indicated. Paint existing and new 12"x12" adhered ceiling tile, entire ceiling." and #D21 "Patch / infill existing adhered wall tile in quantities indicated. Paint existing and new 12"x12" adhered ceiling tile, entire ceiling." and #D21 "Patch / infill existing adhered wall tile in quantities indicated. Paint existing and new 12"x12" adhered ceiling tile, entire ceiling." Addendum.

RFI-29.

- Statement: At Classroom 432 interior elevation 9/A11.5, it calls to "remove existing adhesively applied acoustic panels in entirety. Scrape & clean wall surface. Provide fabric wrapped panels area shown hatched like this this detail." At the same location where fabric wrapped panels are called for, it also calls to "Remove peg-board panels this area shown hatched like this, this detail in their entirety. Provide 5/8" painted AR gyp bd." Please advise whether we are to figure fabric wrapped panels at this area or painted AR gyp bd.
- **Response:** Fabric -wrapped panels are to be installed over painted abuse-resistant gypsum board. Eliminate scrape and clean wall surface work from scope. Also, please see enlarged floor plan detail 1 on sheet A8.11 "ENLARGED FLOOR PLANS" for extents of fabric wrapped panel scope of work. Refer to this Addendum which will revise the note for details 7, 8 and 9 on sheet A11.5 "INTERIOR ELEVATIONS" to read as follows: "Remove existing adhesively applied acoustic panels in their entirety. Provide fabric-wrapped panels applied to 5/8" painted A.R. gyp. bd. at area shown hatched like this, this detail - see plans".

RFI-30.

Question: Book 3 Volume 1, page 12 of 963 calls for furnish and installation of temporary site fence for the boundaries of the entire site and staging areas during construction. This fence is described as an 8'-0" High Chain Link fence with posts spaced 10'-0" O.C. and set in 3'-0" Deep concrete footings. This is more of a permanent fence than a temp fence, and would result in multiple instances of removal and repair of surfaces for installation and removal of concrete footings. Are we to install temp fence in concrete footings as called for in this spec, or will standard temp fence on stands be acceptable?

Response: Temporary fence with posts mounted to temporary stands are acceptable. Please see specification section #01 14 11 "CONSTRUCTION OPERATIONS AND SITE UTILIZATION PLAN" issued as part of this Addendum, section 1.7, A.1 Part c.1) revised accordingly.

RFI-31.

- Statement: The Table of Contents of Book 3 Volume 1 includes 335113 Natural Gas Piping but that section is not in the book.
- **Response:** Specification section #33 51 13 "Natural Gas Piping" is included in the Book 3 MCR Technical Specifications Volume I of IV, however it's located between section #23 82 16 "AIR COILS" and section #26 05 03 "GENERAL REQUIREMENTS FOR ELECTRICAL SYSTEMS".

ITEM NO. 9: REQUESTS FOR SUBSTITUTIONS

RFS-1.

- **Request:** Please find attached request for Prior Approvals for the following Specification Section: 116623.02-Gymnasium Equipment
- **Response:** PBC does not process Requests for Substitutions during the Bidding Period. Contractors are to submit Requests for Substitutions per Book 2. Standard Terms and Conditions for Construction Contracts, Section 13.06 Substitution of Products and Materials.

List of Attachments and Drawings:

(Available at BHFX, LLC online plan room: http://www.bhfxplanroom.com/)

This Addendum includes the following attached Documents related to Building Renovations (MCR):

- 1. Specification Section #00 01 10: "TABLE OF CONTENTS"
- 2. Specification Section #01 14 11: "CONSTRUCTION OPERATIONS AND SITE UTILIZATION PLAN"
- 3. Specification Section #08 51 23: "STEEL WINDOWS"
- 4. Specification section #08 80 00: "GLAZING"
- 5. Specification Section #09 05 61.13: "MOISTURE VAPOR EMISSION CONTROL"
- 6. Specification Section #09 65 19: "RESILIENT TILE FLOORING"

This Addendum includes the following attached Drawings related to **Building Renovations (MCR)**:

- 1. Drawing No. ADA.03, "ADA DETAILS AND INTERIOR SIGNAGE", dated 04/21/2017.
- 2. Drawing No. A5.1, "BUILDING ELEVATIONS", dated 04/21/2017.
- 3. Drawing No. A5.2, "BUILDING ELEVATIONS", dated 04/21/2017.
- 4. Drawing No. A5.3, "BUILDING ELEVATIONS", dated 04/21/2017.
- 5. Drawing No. A5.4, "BUILDING ELEVATIONS", dated 04/21/2017.
- 6. Drawing No. A8.12, "ENLARGED FLOOR PLANS", dated 04/21/2017.
- 7. Drawing No. A11.7, "INTERIOR ELEVATIONS", dated 04/21/2017.
- 8. Drawing No. M0.0, "MECHANICAL ABBREVIATIONS, SYMBOLS AND NOTES", dated 4/21/2017.
- 9. Drawing No. MD2.1, "BASEMENT ENLARGED MECHANICAL DEMOLITION PLAN", dated 4/21/2017.
- 10. Drawing No. M2.1, "BASEMENT ENLARGED MECHANICAL PLAN", dated 4/21/2017.
- 11. Drawing No. M2.2, "BASEMENT ENLARGED MECHANICAL PLAN", dated 4/21/2017.
- 12. Drawing No. M2.3, "ENLARGED MECHANICAL PLAN", dated 4/21/2017.
- 13. Drawing No. M3.2, "MECHANICAL SCHEDULES", dated 4/21/2017.
- 14. Drawing No. E0.1, "ELECTRICAL SYMBOLS LIST", dated 4/21/2017.
- 15. Drawing No. E1.0, "BASEMENT FLOOR ELECTRICAL PLAN", dated 4/21/2017.
- 16. Drawing No. E1.5, "ROOF PLAN NEW EQUIPMENT LAYOUT", dated 4/21/2017.
- 17. Drawing No. E2.2, "ENLARGED PLANS LIGHTING", dated 4/21/2017.
- 18. Drawing No. E2.3, "ENLARGED PLANS POWER AND LOW VOLTAGE", dated 4/21/2017.
- 19. Drawing No. E2.4, "ENLARGED PLANS POWER AND LOW VOLTAGE", dated 4/21/2017.
- 20. Drawing No. E3.2, "SCOREBOARD DETAIL", dated 4/21/2017.

- 21. Drawing No. E4.4, "PANEL SCHEDULES", dated 4/21/2017.
- 22. Drawing No. ED2.2, "ENLARGED FIRST FLOOR ELECTRICAL DEMOLITION PLAN", dated 4/21/2017.
- 23. Drawing No. ED2.3, "ENLARGED SECOND FLOOR ELECTRICAL DEMOLITION PLAN", dated 4/21/2017.
- 24. Drawing No. ED2.4, "ENLARGED THIRD FLOOR ELECTRICAL DEMOLITION PLAN", dated 4/21/2017.

This Addendum includes the following attached Documents related to **Site Development (SIT)**:

- 1. Specification Section #00 01 10: "TABLE OF CONTENTS"
- 2. Specification Section #01 14 11: "CONSTRUCTION OPERATIONS AND SITE UTILIZATION PLAN"
- 3. Specification Section #11 68 00: "PLAYGROUND EQUIPMENT AND STRUCTURES".
- 4. Specification Section #32 18 23: "SYNTHETIC RUNNING TRACK SURFACE".

This Addendum includes the following attached Drawings related to Site Development (SIT):

- 1. Drawing No. C2.0, Demolition Plan, dated 4/25/2017
- 2. Drawing No. E0.2, Electrical Schedule, dated 4/25/2017
- 3. Drawing No. E2.0, Electrical Site Plan, dated 4/25/2017
- 4. Drawing No. L4.1, Site Details, dated 4/28/2017

END OF ADDENDUM NO. 02

SECTION 00 01 10

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01 14 11	Construction Operations and Site Utilization Plan	PBC 01_08/15/14
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01 50 03	Temporary Facilities and Controls (for renovation projects)	03_07/20/09
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SECTION 01 14 11

CONSTRUCTION OPERATIONS AND SITE UTILIZATION PLAN

1.1 SUMMARY

- A. The Construction Operations Plan provides a coordinated construction environment to ensure an orderly, secure and safe operation within the existing school and the entire school property, consequently forming the basis for the Site Utilization Plan prepared by the General Contractor.
 - 1. The Commission Representative will administer the operations plan activities. All Construction Operating issues shall be channeled through and require approval by the Commission Representative.
 - 2. The Construction Operations Plan will be prepared based on the requirements of the project and in coordination with the existing school operations and program. The elements of this plan required for incorporation into the Site Utilization Plan are included in this section.

1.2 RELATED SECTIONS

- A. Refer to drawings and General Contractor's Service Agreement for information related to this section. Additional Specification Sections containing information that related to this section include, but are not limited to the following:
 - 1. Book 1: Project Information, Instructions to Bidders, and Execution Documents
 - 2. Book 2: Standard Terms and Conditions for Construction Contracts

1.3 SUBMITTALS

- A. Site Utilization Plan: Submit five (5) copies of the Site Utilization Plan required in Part 3.
 - 1. Submit proposed revisions as deemed necessary

1.4 CONSTRUCTION OPERATIONS PLAN

- A. Sequence of Work
 - 1. Milestone #1: Minimum of the following spaces:
 - a. All Door #03 Roof Work and associated tuckpointing, abatement and interior finish work.
 - b. All interior mechanical work, excluding the mechanical work at the kitchen and roof.
 - c. Library 232.
 - d. Any additional scope as scheduled by contractor.
 - 2. Substantial Completion: All remaining scope
- B. Existing: Maintain exiting as follows:

PBC: Lake View High School Renovation Project_C1583 - Addendum No. 2

- 1. Maintain all exiting in building clear to a Public Way in a manner acceptable to the Authorities having Jurisdiction.
- 2. Maintain all domestic water service during school instruction hours.
- 3. Maintain full electrical service during school instruction hours.
- 4. Maintain all life safety systems during school instruction hours.
- 5. Maintain all phone and data service during school instruction hours.
- Academic school year 7:45 am - 3:00 pm Student regular hours 6 am – 2 pm M&Sat, 6 am – 6 pm T-TH, Building Engineer regular hours 6 am – 9 am M-F Custodian regular hours 7:15 am Student breakfast starts 4:30 pm After school programs end during the week 8:30 am – 12:30 pm, occasional Saturdays for Weekend activities school functions. Summer break 06.20.17 Last day of school for students Last day of school for teachers 06.22.17 (confirm furlough/snow days) 6 am - 2 pm M-FBuilding Engineer hours during the summer 7 am - 3:30 pm M-F Custodian hours during the summer Building Engineer vacation/time-off N/A summer 8/23/17 First day of school for clerks 8/30/17 First day of school for teachers 9/5/17 First day of school for students 2018 SUMMER TO BE COORDINATED AT A LATER DATE BETWEEN CONTRACTOR, PBC AND PRINCIPAL Summer school Summer school to be conducted off site at host Dates school. Typical for both summers. Hours Rooms Doors Outdoor areas Summer programs (Orientation) 08.07.17 - 08.10.17 (8/7-8/9 for 9th graders, Dates 8/10 for other grades) 8 am – 2 pm M-TH Hours Auditorium, 116, 201, 203 Rooms Door 06 Doors Outdoor areas None Summer Orientation to take place for five days during 2018 summer break from 8:00 am to
- C. Use of Site and Special Requirements:

CONSTRUCTION OPERATIONS AND SITE UTILIZATION PLAN

	2:00 pm in Auditorium and four non-specific classrooms. Student entry through door #06. Dates to be coordinated between PBC,
	Contractor and School at a later date.
Student registration during summer	
Dates	All Year. Applicable for both 2017 and 2018 summers.
Hours	Regular School Hours. Summer Hours to be same as Regular School Hours.
Rooms	Main Office
Doors	Door 06
~	
Sports teams activities during summer	
Dates	06.26.17-09.01.17
Hours	8 am – 12 pm
Rooms	School access restricted to Gym 116, Gym
	201, Gym 203, Weight Room, Field, Boys
	Locker Room, Girls Locker Room
Doors	Door oo
	2018 Summer Sports Activities to be
	conducted off-site.
Other construction black-out dates	
Graduation ceremonies	Possible (1) day in Summer 2017 if school
	year is shortened. Summer 2018 TBD and
	must be coordinated between contractor and
— • • • •	principal at a later date.
Freshman orientation	08.07.17 - 08.09.17, 8 am - 2 pm
PSAT, ACT, AP testing	No additional 2016-2017 school year testing
	scheduled. 2017-2018 dates to be coordinated
Other	CPS Standard of first two days of school
Ouler	Identified as 09.05.2017 and 09.06.2017.
Other	
	2018 SUMMER TO BE COORDINATED AT
	A LATER DATE BETWEEN
	CONTRACTOR, PBC AND PRINCIPAL.
Other after-hours and break community	N/A
activities on campus	2018 SUMMED TO BE COODDINATED AT
	A LATER DATE RETWEEN
	CONTRACTOR, PBC AND PRINCIPAL
Other ongoing or other uncoming projects	1. Window AC Project (AC unit installation)
at the school	to be coordinated with MCR work. Electrical
	scope to be completed prior to MCR start date.
	2. Awning to be installed at Door 03.
Langag at school	
Derking lot	N/A
rarking lot	
l elecom at chimney or elsewhere	
Auditorium	N/A
Pool	N/A

Park District	N/A
Staging area(s) for each construction phase	06.22.2017-08.14.2017: Paved asphalt area at SE corner of site and portion of parking lot.
	08.14.2017 – 05.01.2018: Paved asphalt area at SE corner of site and portion of parking lot. No use of CPS parking lot. Parking lot renovations will not begin until after 06.21.2018.
	05.02.2018-06.21.2018: Athletic field, playground and paved asphalt area at SE corner of site turned over to GC for construction and staging. Parking lot must be available to CPS thru 06.21.2018.
	06.21.2108 – 08.13.2018: Parking lot turned over to GC for construction and staging.
School staff over summer break	Teachers for Orientation and Sports. Main Office personnel, regular school hours.
Contractor access after hours and during summer	Contractor to coordinate access with Building Engineer. CPS protocol to provide key access to contractor for necessary off-hours work. PBC to place contractors on CPS Safety and Security list of approved personnel to access school in order to arm/disarm security alarm.
	PBC to provide CPS PMO with list, as necessary, a minimum of 3 business days in advance of work taking place. Contractor required to provide PBC with advanced notice a minimum of 5 days in advance.

1.5 GENERAL REQUIREMENTS

- A. General Contractor shall review and be familiar with the site conditions through site visits.
- B. General Contractor to provide all temporary and permanent driveway apron and alley permits for the duration of the construction if required. The General Contractor is to pay all fees required for processing permits and is to contact and comply with all authorities and jurisdiction required for permitting.
- C. General Contractor shall provide snow removal and clear all debris in construction area.
- D. General Contractor is to provide and pay for all required permits for street access for truck delivery from the local and state jurisdiction.
- E. General Contractor shall be required to coordinate and complete the work within the contractual completion date(s) for the work as described in the Contract Documents, Time for Performance and this section. The General Contractor shall be also held responsible for meeting all related provisions as described within this section.

- F. General Contractor shall survey the site and photograph the area of construction operations. Upon completion of the work the Contractor is to restore the area to the documented condition prior to the start of work or as otherwise indicated in the Contract Documents.
- G. General Contractor is to replace all removed trees, bushes, ground covers and grass on the Chicago Public Schools' property used as part of the construction operations. Also concrete pavement walks and asphalt surfaces shall be restored to condition prior to construction.
- H. General Contractor shall coordinate work with School during Mandatory State Testing periods. Test dates should be verified with the School. No work shall be permitted in the existing facility or on the site during testing except as specifically approved by the Principal, Building Engineer, and Commission Representative. General Contractor must minimize noise in all other areas during these time periods, and if requested by the School, stop work causing the noise until testing is completed. General Contractor shall bear all costs for any loss of time or production related to Mandatory State Testing. Refer to drawing T1.2 "Site Phasing Plan" for further details.
- I. General Contractor shall coordinate and maintain all exit egress during construction as required by the City of Chicago code, other entities with jurisdiction, and as directed by CPS or their representatives. The General Contractor shall provide and maintain all materials and labor including barricades, construction fence, doors, partitions, and fire rated walls as required for safe egress. All costs for this work shall be included in the Contract Base Bid regardless of whether it is indicated in the Contract Documents or not.
- J. No deliveries will be permitted between the hours of 7:30 to 8:30 AM and 2:45 to 3:45 PM.

1.6 **PROTECTIVE FACILITIES**

The contractor must provide, at a minimum, the temporary facilities required by the authorities having jurisdiction.

- 1. Site Fence: 8'-0" high, chain link fence, Contractor Obligations.
 - a. Furnish, install and maintain to prevent unauthorized access to Site by people and animals.
 - b. Locate fence where indicated on Drawings.
 - c. Provide gates as required for access. Coordinate locations with Commission Representative.
 - d. Do not remove until other security facilities, either temporary or permanent, are in place and in operation.

1.7 SECURITY PROCEDURES

The following security procedures must be followed by the Contractor.

- A. Furnish and install fence as detailed per industry standards.
 - 1. Fencing:

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- Furnish, install, and maintain new chain-link fence at boundary lines of all Sites a. included in this contract or added to this contract by change order. In addition, contiguous Site, the fence should surround the entire Site.
- b. Material:
 - 9 gauge 2" galvanized steel mesh, 8 feet high 1)
 - 2) 3" outside dimension galvanized end posts with caps
 - 2" outside dimension galvanized line (intermediate) posts 3)
 - 10 ft. max. center to center, with caps 4)
 - 5) 1-5/8" outside dimension galvanized top and bottom rails
 - 12 gauge min. galvanized ties 6)
 - Required fittings for proper installation of above. 7)
 - Opaque fabric meshing affixed to fence as required by Chicago Municipal 8) Code Section 13-32-125.
- Method: c.
 - 1) Unless otherwise indicated on the drawings, posts are to be mounted to temporary post stands. Posts shall be properly capped. End posts and line posts will be evenly spaced at a distance of no more than 10'-0" apart, center to center. Fence shall be erected with top and bottom rails of 1-5/8" o.d. and ties of no less than 12 gauge, securing the galvanized steel mesh to the rails. The bottom rail shall be placed at a distance of no greater than 2" from the bottom of the posts and shall be secured by the use of proper fittings to corner and intermediate posts. Top rail shall run continuously through line post caps and shall be fastened to end posts no less than 2" from the top by the use of proper fittings.
 - Galvanized steel mesh shall be 8 feet high installed on outside of posts with 2) salvage edge on top. Ties to be 12 gauge min. spaced as per ASTM F567 "Practice for Installation of Chain-Link Fence".
 - Gates: Double 8'-0" gate with welded frame and galvanized hinges and 3) hardware and full height fabric as per specification. Locations and number as indicated. Coordinate installation of additional gates with Commission Representative. Additional gates to be installed at Contractor's cost.
 - 4) Opaque fabric mesh "shall be affixed to the construction site fence. Such fabric meshing shall be capable of allowing air to pass but impervious to dust and dirt. The fabric meshing shall be of a fineness such that no material over 1/8 inch in size or material splatters, laitance or other products of the construction operation shall pass through the mesh. Such mesh fabric shall be the full height of the fence and cover the entire length of the fence including any gated openings. The fabric meshing and fence shall not contain any advertisements." Chicago Municipal Code Section 13-32-125(2)(a).
- The Contractor is to set up and stage the entire project within the boundaries of the construction B. fence. The General Contractor is responsible for maintaining and modifying the fence as necessary and as approved in the Site Utilization Plan for the life of the project. Removal and disposal of the fence at the conclusion of the project is the responsibility of the General Contractor.

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- C. The Building Engineer or other CPS staff as approved by CPS is required to be present at all times work is in progress in the existing Building. If advance arrangements are not made with CPS, the General Contractor shall be responsible for all overtime costs for the CPS staff member for work outside of normal working hours. Overtime arrangements for CPS staff includes weekends, holidays, and generally hours beyond that listed in Site Restrictions above. IUOE Local 143 Holidays are as follows (Saturday holidays are observed on Friday, Sunday holidays are observed on Monday):
 - 1. New Year's Day.
 - 2. Martin Luther King Jr.'s Birthday.
 - 3. Lincoln's Birthday.
 - 4. Presidents Day.
 - 5. Pulaski Day.
 - Memorial Day. 6.
 - 7. Independence Day.
 - Labor Day. 8.
 - 9. Columbus Day.
 - Veterans Day. 10.
 - Thanksgiving. 11.
 - Friday after Thanksgiving. 12.
 - 13. Christmas Day.
- D. Critical Dates affecting Construction Timeline

1.	Shut-off of Heating System	April 01
2.	School Testing Dates per Sect. 1.5-H	No 2016-2017 Academic year dates. 2017-2018
		Academic year to be scheduled at a later date.
3.	Spring Break	2017-2018 Spring Break to be coordinated at a
later date		
4.	Last Day of School	06.20.2017. 2018 to be coordinated at a later
date		
5.	Summer Vacation	06.21.2017 - 09.04.2017. 2017-2018 Academic
		year to be scheduled at a later date.
6.	Start of Heating Season	October 01

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SITE UTILIZATION PLAN

General Contractor is to prepare and submit to the Commission Representative, the Building A. Engineer, and the AOR for approval a Site Utilization Plan based on the Construction Operations requirements outlined in this section. Mobilization on-site is not to occur until approval of the Site Utilization Plan is obtained. If requested by the Contractor, a preliminary meeting to review site elements and Construction Operations with the Commission Representative, AOR, and School staff prior to submission of the Site Utilization Plan shall be held.

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- B. The Site Utilization Plan shall be provided in a full-size graphic drawing format (36 x 48 inches) on 11 x17 inch prints/plots. Provide a separate plan for the site and for each floor of the existing building where work is being performed. Modifications to the format and sheet size shall be permitted if pre-approved by the Commission Representative and if proposed modifications shall facilitate preparation, presentation and review of the Site Utilization Plan. Electronic copies of the Contract Document drawings as appropriate shall be provided for this purpose upon request. The Site Utilization Plan shall at a minimum include the following elements:
 - 1. Title block information including School Name, Contract Number, General Contractor, Building floor/level information, and current plan date.
 - 2. Building footprint of both new (if applicable) and existing buildings, trees, landscaping, paving, drainage structures, existing and ornamental fencing and other important site features.
 - 3. Areas of staging for students and staff, student drop-off points, existing school entrances and exits, staff parking areas, and traffic patterns for both construction and non-construction vehicles.
 - 4. Denotation of the limits of construction and required construction fencing including any existing fencing to remain.
 - 5. Denotation of required covered construction barricade walkways
 - 6. Denotation of areas allowed for staging purposes: construction personnel parking, material storage, and construction trailer(s). Such activities are to only take place in areas designated.
 - 7. Denotation of any specific site conditions required to be observed such as keeping alleys clear next to adjacent properties, and any other issues listed on the Construction Operations Site Plan.
 - 8. Denotation of areas allowed for site access gates.
 - 9. Denotation of areas of work within the existing building for the period of time covered by the Site Utilization Plan, coordinated with the Project Schedule. Each area should indicate planned beginning and end dates for work in that area. Areas where all work is completed are to be noted.
 - 10. Construction worker ingress/egress, material staging areas in the existing building.
 - 11. Proposed locations of temporary protection, barricades, and temporary walls within the existing building.
 - 12. Denotation of all temporary exits and path of travel.
 - 13. Indication of specific areas and their required contractual completion dates. If overtime work is required to meet the project dates it shall be at no additional cost to the Chicago Public Schools.

3.2 SITE UTILIZATION PLAN UPDATES

- A. The General Contractor is required to submit for approval updated Site Utilization Plans whenever conditions in the current approved plan have changed. Approval is required prior to proceeding on any changed conditions not previously approved. Requirements for updating include the following:
 - 1. In coordination with the project schedule provide detailed information regarding work in the existing building including phasing, vacation of existing in-use areas, and any other information requested by the Commission Representative, Principal, or Building Engineer.

2. Revision to the site plan to reflect changing conditions regarding construction fencing, ingress and egress, student and staff staging, construction deliveries, areas of stored materials, parking, and any other construction facility revisions.

END OF SECTION

SECTION 08 51 23

STEEL WINDOWS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes steel fire rated/labeled windows as indicated and as specified.

1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's complete printed data identifying all types of
- B. Shop Drawings: Shop drawings shall be the responsibility of the window manufacturer and prepared by the manufacturer's authorized agent bearing the manufacturer's name. Drawings prepared by others are not acceptable. Submitted shop drawings must accurately illustrate the specific conditions of the particular school and show the relevant existing conditions that will govern the particular method of attachment and installation work. Submit information not fully detailed in submitted standard manufacturer's product data and the following:
 - 1. Layout, installation details and anchorage.
 - 2. Building elevations at minimum 3/32" scale and window unit elevations at minimum 3/8" scale.
 - 3. Full size section details of all components including reinforcement as required.
 - 4. Glazing types required and all accessory details including all repainted trim, anchors and panning.
 - 5. Failure to accurately measure or represent the existing conditions will result in an appropriate back charge to the Manufacturer as determined by the Board as compensation for costs incurred to modify the delivered work on site
- C. Samples: Submit a set of samples of specified colors applied to steel for color selection.
- D. Fire Rating Material Test Reports: Provide certified test results from a recognized independent testing laboratory or agency showing that each type, grade and size of window unit complies with performance requirements indicated
- E. Close-out Submittals: At "Preliminary Acceptance" provide the following:
 - 1. Window Warranty: Submit a written five (5) year warranty, executed by the window manufacturer agreeing to repair or replace window units including the glazing, framing and panning that fail in materials or workmanship within the specified warranty period, including, but not necessarily limited to:
 - a. Structural failures including excessive deflection, excessive leakage, or air infiltration.
 - b. Faulty operation of sash, hardware, balances and weather-stripping: submit a written one (1) year warranty year for these items.
 - c. Deterioration of metals, metal finishes, and other materials beyond normal weathering.

- d. Written warranties must include the finish of the steel windows and be signed by the paint manufacturer and applicator, and agree to replace finished materials whose finish deteriorates (chips, fades, chalks, film erosion, etc.) in excess of normal weathering within 5 years or less after date of acceptance.
- 2. Manufacturer's Certificate: submit a certificate stating that the window manufacturer's authorized executive representative has inspected the completed installation and confirms that the window installation contractor's work complies with the window manufacturer's installation methods and procedures required for manufacturer's warranty.
- 3. Installer Warranty: Submit three (3) copes of installation warranty signed by the installer
- 4. The Warranty shall not deprive the Board of other rights or remedies that the Board may have under other provisions of the Contract Documents and is in addition to and runs concurrent with other warranties made by the Contractor under requirements of the Contract Documents.

1.3 PRODUCT DELIVERIES, STORAGE AND HANDLING

- A. Deliver, handle and store products in exact accordance with product manufacturer's recommendations.
- 1.4 SYSTEM PERFORMANCE REQUIREMENTS AND QUALITY ASSURANCE
 - A. General: Conform to applicable specifications and standards of the National Fire Protection Association and in strict compliance with City of Chicago Building Code.
 - B. Design Requirements: When tested in the closed and latched position, weather-stripped windows shall meet or exceed the following structural, air infiltration, and water penetration performance requirements:
 - 1. Structural Performance: ASTM E 330 Provide window units with no failure or permanent deflection for positive (inward) and negative (outward) test pressure of 30 lb. per sq. ft.
 - 2. Air Infiltration: ASTM E 238 Maximum air infiltration 0.37 CFM/FT of crack length with a pressure differential of 6.24 PSF (50 MPH).
 - 3. Water Penetration: ASTM E 331 No water penetration for 15 minutes when the window is subjected to a rate of flow of 5 Gal./Hr./Sq. Ft. with a pressure differential of 2.86 PSF.
 - C. Design Concept: The drawings indicated the size, profiles, and dimensional requirements of the window types required. Heavy cold rolled windows may be used for openings smaller than 84 sq. ft. in area and in cases where no one dimension exceeds 12 feet in a given direction. When multiple windows are installed, the distance between unprotected vertical steel mullions shall not exceed 7 feet. Standard intermediate cold rolled window types may be used for openings not exceeding 60 square feet and in cases where no one dimension exceeds 10 feet in a given direction. When multiple units are installed, the distance between unprotected steel mullions shall not exceed 6 ft.
 - D. Single-Source Responsibility: Provide window units from one source and produced by a single manufacturer.
 - E. Standards: Comply with following

- 1. National Fire Protection Association
 - a. NFPA 257 Standard on Fire Test for Windows and Glass Block Assemblies
 - b. NFPA 80 Standard for Fire Doors and Windows
- 2. City of Chicago Municipal Building Code
 - a. Section 13-160-600 Exterior Stairs Protection of Openings
 - b. Section 15-008-110 Protection of Openings
 - c. Section 15-012-000 Fire Resistive Materials and Construction in its entirety.
- F. Compliance with Safety Standards: Provide units complying with Underwriters Laboratories Safety Standard UL 9 Fire Testing of Window Assemblies. Provide units bearing the Underwriters Laboratories label and that comply with governing regulations.
- G. Operable fire rated windows shall be provided with a fusible link mechanism that will allow the ventilator to self-close and remain closed at 165 degrees Fahrenheit.

1.5 PROJECT CONDITIONS

- A. Field Measurements:
 - 1. The Manufacturer shall visit the site before fabrication and examine existing window openings and frames into which the new replacement windows are to be installed. If any discrepancies, or conditions, are discovered that are detrimental to the proper and timely completion of the work, the Manufacturer is to notify the Board's Architect and the Board's Representative in writing.
 - 2. Check actual window openings by accurate field measurement before fabrication. The replacement window industry standard tolerance of 1/2" less than the actual window opening dimensions will apply for all manufactured units. Units supplied plus or minus 1/4" in excess of the tolerance standards will be deemed out of compliance and will be replaced by the Manufacturer at no additional cost to the Board. If it is determined that non-conforming windows can be retrofitted in the field, all the costs of such modifications will be back charged to the Manufacturer. Show recorded measurements on final shop drawings.

PART 2 - PRODUCT

2.1 MANUFACTURER

- A. Manufacturer/Product: Subject to compliance with contract requirements, from one of the following:
 - 1. Optimum Steel Window Corp.
 - 2. Pomeroy, Inc.
 - 3. Steelite Systems, Division of LA Fireproof Windows.
 - 4. D. V. Fyre Tec, Inc.

2.2 MATERIALS

- A. Cold Rolled Steel Windows: shall be defined and categorized as commercial windows with a minimum combined weight of frame and ventilator of 2.75 lbs per linear foot and capable of passing a structural load test of 30 lbs per square foot.
 - 1. The Frame and ventilator sections shall have a minimum front to back depth dimension of 1-7/8".
 - 2. The frames and ventilators shall be composed of ASTM A528 low carbon cold rolled formed steel sections having a minimum 20 gauge thickness with mitered and keyed corners, which are assembled and reinforced.
 - 3. All assemblies are to be mechanically fastened and a butyl sealant applied to corners so as to create a close fit. Corner joints shall be fully sealed to prevent leakage.
 - 4. Operable ventilators and sashes shall roll on 18 gauge tracks.
 - 5. Horizontal muntins, when required, shall consist of 19-gauge steel forming a "T" section.
 - 6. Required 1/4" wire glass to be held in a 3/4" uniform edge bite.
 - 7. Muntin bars shall have a tee shaped face with a minimum face dimension of 1-1/4".
 - 8. Glazing beads shall be cold rolled steel with a minimum thickness of 20 gauge
- B. Glazing: Only labeled fire protection rated glazing material shall be used in fire rated windows. When continuous glazing angles or channels are used to hold glass in a window, these continuous members will be made of steel. Windows shall be factory-glazed with obscure or clear 1/4" wire glass. Lites shall have a minimum of 24-gauge wire, with a maximum mesh size of one square inch, as per Underwriters Laboratories requirements. Individual lites of glass shall not exceed a clear dimension of 720 square inches in an exposed area. The maximum directional limit for individual glass lites shall be 54" in the vertical dimension and 48" in the horizontal dimension. Glass shall comply with ANSI Z97.1 and ASTM C1036.
- C. Weather-stripping: Provide the manufacturer's standard weather-stripping made of specified materials and applied to inside metal contact line of each operating sash or vent. Operable panels shall have extruded vinyl or EPDM gaskets along entire perimeter.
- D. Sealant: For sealants required within fabricated window units, provide type recommended by the window manufacturer for joint size and movement. Sealant shall remain permanently elastic, non-shrinking, and non-migrating.

2.3 HARDWARE

- A. Provide the manufacturer's standard Fire labeled and tested hardware made of either solid bronze or stainless steel. All sashes shall be provided with fusible link and self-closing mechanisms.
- B. Hung and Sliding Sash: Lower sliding panel shall be furnished with standard pull handles and sweep lock at meeting rail. A fusible link assembly attached directly to the front balancers, functions as the self-closing mechanism.
 - 1. Quantity: For sash greater than 36" in width (for horizontal sliding ventilators): two (2) each required
 - 2. Lift Handles, Pull Downs and Locks-Sweep or Self-Locking Eyelets required for all double-hung sash.
 - 3. All Horizontal Sliding Sashes must have Self Closers.

- C. Pole Operators: Provide one pole operator and pole hanger for every room that has operable windows more than 72 inches above the floor. Fabricate pole of tubular anodized aluminum with a rubber cap at the lower end and standard push-pull hook to match the hardware design at the top end. Provide sufficient length for window operation without reaching more than 60 inches above the floor.
- D. Insect Screens: Provide insect screens for each office area or lunchroom, where indicted on plan, for operable exterior sash or ventilators. Screens for fire rated sash are optional, provide screens only at locations shown on plans.
 - 1. Locate screens on the inside or the outside of the ventilator / sash depending on the window type.
 - 2. Design windows and hardware to accommodate screens in a tight-fitting removable arrangement with a minimum of exposed fasteners and latches. Screens shall be removable from the window frame and held in place by clips. DO NOT VOID LABEL REQUIREMENTS OR EGRESS CODE COMPLIANCE.
 - 3. Insect screen frames shall be formed from either electro-galvanized steel having a minimum thickness of 0.032", or of formed or extruded aluminum having a minimum thickness of 0.040".
 - 4. Screen fabric shall be 18 x 16 mesh wire cloth made of either aluminum or fiberglass. The nominal diameter of the cloth shall not be less than 0.011" for aluminum.
 - 5. The wire cloth shall be held taut by means of removable splines.
 - 6. Where wickets are necessary, provide sliding or hinged type, framed and trimmed for a tight fit and durability during handling. Provide manufacturer's standard flat type for all other applications.

2.4 FABRICATION

- A. A.General: Fabricate windows in accordance with the approved shop drawings. Fabrication of steel window units to comply with indicated standards. Include a complete system for assembly of components and anchorage of window units.
- B. Frame and ventilator sections shall be cold formed and members shall be mitered and key cornered. A butyl sealant shall be applied and corners shall be mechanically fastened so as to create a close fit.
- C. Sub frames: Provide sub frames formed of cold-rolled steel matching window units from minimum 18 gauge galvanized G60 steel. Miter or cope corners, weld and dress smooth. Finish to match window units. Trim required for interior shall be provided in minimum 18 gauge steel and painted to match windows.
- D. Muntin bars shall be true muntins and be continuous from head to sill and jamb-to-jamb, except that bars in one direction may be discontinuous if they are notched and securely fastened at the intersection. Muntins shall be mechanically fastened to the frame or ventilator sections.
- E. Provide UL tested and UL labeled mullions and cover plates formed of hot-rolled or cold-rolled steel matching window units, complete with anchors for support to structure and for installation of window units. Provide mullions of profile indicated. Allow for erection tolerances and provide for movement of window units due to thermal expansion and building deflections, in the manner indicated.

- F. Provide weep holes and internal water passages to conduct infiltrating water to the exterior. Provide watershed members above side-hinged ventilators and similar limes of natural water penetration.
- G. Glazing Stops: Provide screw-applied glazing stops coordinated with glass selection and glazing system. Finish glazing stops to match window units.
- H. Glazing Clips: Where face glazing (without stops) is indicated, furnish glazing clips for concealment in glazing compound.
- I. Pre-glazed Fabrication: Pre-glaze window units at the factory. Comply with glass and glazing requirements of the tested assembly.
 - 1. Provide units that can be re-glazed without dismantling ventilator framing. All windows shall be designed for inside re-glazing
 - 2. All fire rated sash will require screw applied glazing beads; provide touch up paint for beads.

2.5 FINISHES

- A. General: Comply with NAAMM "Metal Finishes Manual" for recommendations relative to application and designations of finishes.
- B. Surface Preparation: Before fabrication, clean surfaces of dirt, oil, grease, and other contaminants followed by a zinc-phosphate pretreatment applied in accordance with the window manufacture's recommendations.
- C. Galvanized Windows: After fabrication, provide galvanization treatment consisting of chemical cleaning complying with SSPC-SP-1 and pickling treatment complying with SSPC SP-8, followed by a hot-dip galvanizing application complying with ASTM A 123.
- D. Shop Prime Coat Finish: After fabrication, provide 1.0-mil dry film thickens shop prime coat finish consisting of a hot alkali solution cleaning, followed by a rinse and hot-phosphate solution treatment, then a chromic-acid rinse, drying and a special-dip metal primer coating, and oven drying for 30 minutes at 300 degrees Fahrenheit.
- E. Shop-Applied Special Coating: Provide the manufacturer's special, 1.5 mil dry film thickness; electrostatically applied baked-on coating of acrylic or polyester enamel, or Aliphatic Acrylic Polyurethane.
 - 1. Provide color selected by the Board's Architect from the manufacturer's standard colors.
- F. Baked Enamel Finish: Immediately after cleaning and pretreatment, apply manufacturer's standard 2 coat baked enamel finish consisting of prime coat and thermosetting topcoat, with not less than 1.0 mil dry film thickness for topcoat. Comply with paint manufacturer's instructions for application and baking to achieve a minimum; dry film thickness of 2.0 mils.
 - 1. Color and Gloss: As indicated by reference to manufacturer's standard color and sheen designations.
- G. Protect shop finishes from damage due to shipping, handling, and exposure.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Remove all existing window treatment including shades, drapes, blinds, and hardware. Discard unless directed otherwise.
- B. Remove existing interior and exterior wire window guards. Unless directed otherwise, discard exterior guards and store interior guards for their re-use
- C. Remove all existing window and associated trim, transom, and panels.
- D. Re-anchor or replace loose, missing or deteriorated trim and/or framing as needed to provide continuous solid wood blocking for anchoring of all new replacement windows and exterior panning.
- E. Scrape and remove all existing caulking that could interfere with proper installation of the unit or hamper the proper application or the bonding of new caulking materials.
- F. Assure that each window opening conforms to dimensions and tolerances taken at the time of site visit.

3.2 INSTALLITION

- A. All new continuous blocking, shimming or furring shall be fastened securely in place prior to window installation.
- B. Set sill members and other bottom members in a bed of compound to provide weather tight construction.
- C. Provide and apply sealant compound, meeting AAMA 808.3, at all joints and intersections and at all other opening perimeters. Wipe off excess material and leave all exposed surfaces and joints clean and smooth. Coordinate installation with wall flashings and other components of the work.
- D. Provide continuous solid and secure anchorage for new window frame directly into the solid wall, mullion, or other structural component of the building. Anchorage may be set into solid blocking or into a sub frame if the blocking or sub frame is in good condition and is itself properly secured to the building. Provide anchorage at the jambs, head, and sill of the window frame. Anchorage to be at 16" o.c. maximum unless directed otherwise, with a minimum of 2 anchors per length. Type, method and number of anchors shall be shown on the shop drawings and approved by the Board approved representative. Reinforce existing framing and mullions that are presently inadequate, provide additional anchorage to building structure as required. Repair or replace any damaged, rotted, loose or otherwise defective wood framing or mullions with new treated lumber.
- E. All voids between new and existing window frames shall be packed solid with fiberglass batt insulation before installation of interior trim or panning.
- F. Sealants: All interior and exterior surfaces shall have proper contact for caulking back up. The caulking shall be in full contact with window members and exterior and interior walls providing

a continuous air and water tight bead around perimeter of windows as shown on drawings. Caulking to be approved for use with aluminum by sealant manufacturer. Color to match closely pre-selected window colors. Approved caulking: Sonneborn NP-1; Vulkem 116 or 921; Dow Corning 795, NPC 900.

G. It shall be the responsibility of the installation Contractor to repair any exterior and interior surfaces to the satisfaction of the Board approved representative damaged as a result of the installation procedures involved with the materials and products of this Section.

3.3 ADJUSTMENT

- A. Adjust operating sash and hardware to provide a tight fit at contact points and at weatherstripping for smooth operation and weather tight closure.
- B. Clean aluminum surfaces promptly after installation of windows. Exercise care to avoid damage to protective coatings and finishes. Remove excess glazing and sealing compounds, dirt, and other substances. Lubricate hardware and other moving parts.
- C. Clean off preglazed units promptly after installation of windows. Remove all adhesive labels.
- D. Initiate and maintain protection and other precautions required through the remainder of the construction period to ensure that, except for normal weathering and/or vandalism, window units will be free of damage or deterioration at the time of Substantial Completion.

3.4 FIELD TESTING

- A. A.The Board approved representative reserves the right to order on site tests for air and water infiltration on selected installed windows.
- B. The Board approved representative will order air testing through an independent testing agency.
- C. The general contractor shall perform water Resistance Tests: Conduct tests in accordance with ASTM 1105. No water penetration as defined in AAMA 502 shall he permitted. Water test pressure to be 8.00-psf minimums for test.
- D. All work on windows that fail the test program shall be re-executed to the satisfaction of the Board or until the installation passes the field tests program.

END OF SECTION

SECTION 08 80 00

GLAZING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes glazing shown and required to complete the Work not specified in other sections.

1.2 SUBMITTALS

- A. Product Data: Submit complete printed data on each type of glazing product.
- B. Samples: Submit minimum 6" square samples of each type of glazing product.
- C. Certification: Submit letter from manufacturer stating that wired glass complies with ANSI 97.1, 1984 including impact requirements.
- D. Glazing Schedule: submit a glazing schedule including elevations and glazing details utilizing the same designation as indicated on the drawings identifying types and thicknesses of glazing products and methods of installation.

1.3 QUALITY ASSURANCE

- A. Installer: Experienced in installation of glazing required.
- B. Safety Glass: Comply with ANSI Z97.1, the Safety Standard for Architectural Glazing Material Standard for Architectural Glazing Materials (16 CFR 1201) issued by the Consumer Product Safety Commission and requirements of authorities having jurisdiction.
- C. Fire Resistance Rated glazing: Provide wire glass products that are identical to those tested per NFPA 80 and ASTM E 163 (UL 9) and are labeled and listed by UL or other testing and inspecting agency acceptable to authorities having jurisdiction.

1.4 DELIVERY, STORAGE AND HANDLING

A. Protect materials during delivery, storage and handling to comply with manufacturer's directions and as required to prevent edge damage to glass, and damage to glass and glazing materials from effects of moisture including condensation, of temperature changes, of direct exposure to sun, and from other causes.

1.5 PROJECT CONDITIONS

A. Condition of Other Work: The Glazier must examine the framing or glazing channel surfaces, backing, removable stop design, and the conditions under which the glazing is to be performed, and notify the Contractor of any conditions detrimental to the proper and timely completion of the Work. Start of work will evidence acceptance of conditions.
PART 2 - PRODUCTS

2.1 MATERIALS

- A. Primary Glass:
 - 1. Wired Glass: ASTM C 1036, Type II (patterned and wired glass, flat), Class 1 (transparent), Quality q6 (glazing); complying with ANSI Z97.1; 1/4" thick, Form 1 (wired, polished both sides), complying with UL requirements for use in fire-rated doors.
 - a. Provide Firelite Plus Clear Fire-Rated Ceramic by Technical Glass Products in lieu of wired glass in rated doors where wired glass cannot be certified as complying to ANSI Z97.1 1984.
 - 2. Tempered Glass: ASTM C 1048, Condition A (uncoated surfaces), Type I (transparent glass, flat), Class 1. (clear), Quality q3 (glazing select), kind FT (fully tempered.
- B. Clear Ceramic Glazing Material: Firelite Plus Clear Fire Rated Ceramic by Technical Products, Inc.
- C. Mirror Glass: Mirror quality clear float glass, silvered and back painted, manufacturer's 5 year warranty against spoilage.
- D. Fire/Impact rated glazing products: as indicated on the drawings.
- E. Glazing Materials:
 - 1. Compatibility: Select tapes of proven compatibility with other materials with which they will come into contact, including glass products and glazing channel substrates, under conditions of installation and service.
 - 2. Cellular Elastomeric Preformed Gaskets (CE-PG): Extruded or molded closed cell, integral-skinned neoprene of profile and hardness required to maintain seal; complying with ASTM C 509, Type II; black.
 - 3. Polyvinyl Chloride Foam Glazing Tape (PVC-GT): PVC foam tape with adhesive one side and one peel paper liner; Norseal U780, Norton or equal.
- F. Miscellaneous Glazing Materials:
 - 1. Cleaners, Primers and Sealers: Type recommended by sealant or gasket manufacturer.
 - 2. Setting Blocks: Neoprene, EPDM or silicone blocks as required for compatibility with glazing sealants, 80 to 90 Shore A durometer hardness.
 - 3. Spacers: Neoprene, EPDM or silicone blocks, or continuous extrusions, as required for compatibility with glazing sealant, of size, shape and hardness recommended by glass and sealant manufacturers for application indicated.
 - 4. Edge Blocks: Neoprene, EPDM or silicone blocks as required for compatibility with glazing sealant, of size and hardness required to limit lateral movement (side-walking) of glass.

2.2 FABRICATION

A. Cut to size in the shop and key to glazing schedule

B. Permanently mark each lite of safety glazing and fire resistive glazing where seen when installed on the lower right hand corner.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Protect glass from edge damage at all times during handling, installation and operation of the building. Glass breakage during the guarantee period will be considered a form of faulty material or workmanship (resulting from edge damage), unless known to result from vandalism or other causes not related to materials and workmanship.
- B. Glazing channel dimensions must provide for necessary minimum bite on the glass, minimum edge clearance and adequate sealant thicknesses, with reasonable tolerances. The Glazier is responsible for correct glass size for each opening, within the tolerances and necessary dimensions established.

3.2 INSTALLATION

- A. Basic Requirements:
 - 1. Comply with combined recommendations of glazing product manufacturer and manufacturer of sealants and other materials used in glazing, except where more stringent requirements are shown or specified, and except where manufacturers' technical representatives direct otherwise.
 - 2. Inspect each piece immediately before installation. Do not use pieces which have observable edge damage or face imperfections.
 - 3. Do not attempt to cut, seam, nip or abrade glass which is tempered.
 - 4. Clean the glazing channel, or other framing members to receive glass, immediately before glazing. Remove coatings which are not firmly bonded to the substrate.
 - 5. Install setting blocks of proper size at quarter points of sill rabbet.
 - 6. Provide spacers inside and out, and of proper size and spacing, for all glass sizes larger than 50 united inches, except where gaskets or glazing tapes with continuous spacer rods are used for glazing. Provide 1/8" minimum bite of spacers on glass, and use thickness equal to sealant width; except with sealant tape, use thickness slightly less than final compressed thickness of tape.
 - 7. Provide edge blocking to comply with requirements of referenced glazing standard, except where otherwise required by glass unit manufacturer.
 - 8. Set units of glass in each series with uniformity of pattern, draw, bow and similar characteristics.
 - 9. Install pressurized tapes and gaskets to protrude slightly out of the channel, so as to eliminate dirt and moisture pockets.
- B. Glazing Systems:
 - 1. Glaze lites in labeled assemblies in accordance with UL requirements.
 - 2. Glaze balance of door lites and borrowed lights using setting blocks and PVC-GT or CE-PG having adhesive to stop between glass and stops both sides compressed 35 to 50%.

C. Install mirrors using Palmer mirror mastic in exact accordance with recommendations and bottom supports of aluminum or stainless steel. Do not use reglets.

3.3 CURE, PROTECTION AND CLEANING

- A. Remove and replace glazing products which is broken, chipped, cracked, abraded or damaged in other ways during the construction period, including natural causes, accidents and vandalism.
- B. Maintain in a reasonably clean condition during construction, so that it will not be damaged by corrosive action and will not contribute (by wash-off) to the deterioration of glazing materials and other work.

END OF SECTION

SECTION 09 05 61.13

MOISTURE VAPOR EMISSION CONTROL

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. Fluid-applied, resin-based, membrane-forming systems that control the moisture-vapor emission rate of high-moisture, interior concrete to prepare it for floor covering installation.
 - 2. Bond promoting primer for non-absorbent substrate to receive cementitious underlayment.
 - 3. Self-leveling floor underlayment
 - 4. High-performance, fiber-reinforced skim coating compound
- B. Related Requirements:
 - 1. 03 01 30 Maintenance of Cast-In-Place Concrete
 - 2. 03 30 53 Miscellaneous Cast-In-Place Concrete
 - 3. 09 65 19 Resilient Tile Flooring
- 1.3 DEFINITIONS
- A. MVE: Moisture vapor emission.
- 1.4 INFORMATIONAL SUBMITTALS
- A. Product Test Reports: For each MVE-control system, for tests performed by a qualified testing agency.
- B. Pre-installation testing reports.
- C. Field quality-control reports.
- 1.5 QUALITY ASSURANCE
- A. Manufacturer Qualifications: Employs factory-trained personnel who are available for consultation and Project-site inspection.
- B. Installer Qualifications: An authorized representative who is trained and approved by manufacturer.

1.6 DELIVERY

A. Deliver materials in original packages and containers, with seals unbroken, bearing manufacturer's labels indicating directions for storage and mixing with other components.

1.7 FIELD CONDITIONS

- A. Environmental Limitations: Comply with MVE-control system manufacturer's written instructions for substrate and ambient temperatures, humidity, ventilation, and other conditions affecting system installation.
 - 1. Store system components in a temperature-controlled environment and protected from weather and at ambient temperature of not less than 65 deg F (18 deg C) and not more than 85 deg F (29.4 deg C) at least 48 hours before use.
 - 2. Maintain ambient temperature and relative humidity in installation areas within range recommended in writing by MVE-control system manufacturer, but not less than 65 deg F (18 deg C) or more than 85 deg F (29.4 deg C) and not less than 40 or more than 60 percent relative humidity, for 48 hours before installation, during installation, and for 48 hours after installation unless longer period is recommended in writing by manufacturer.
 - 3. Install MVE-control systems where concrete surface temperatures will remain a minimum of 5 deg F (3 deg C) higher than the dew point for ambient temperature and relative humidity conditions in installation areas for 48 hours before installation, during installation, and for 48 hours after installation unless longer period is recommended in writing by manufacturer.
- B. Manufacturer's Special Material Warranty: Manufacturer agrees to repair or replace MVE Control System that fails in materials within specified warranty period.
 - 1. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

PBC: Lake View High School Renovation Project_C1583 - Addendum No. 2

2.1 PERFORMANCE REQUIREMENTS

- A. Flooring products shall comply with the requirements of the California Department of Public Health Services' *Standard Practice for The Testing of Volatile Organic Emissions From Various Sources Using Small-Scale Environmental Chambers*, including 2004 Addenda.
- B. MVE-Control System Capabilities: Capable of suppressing MVE without failure where installed on concrete that exhibits the following conditions:
 - 1. Relative Humidity: Maximum 100 percent when tested according to ASTM F 2170 using in situ probes.
- C. Water-Vapor Transmission: Through MVE-control system, maximum 0.10 perm (5.75 ng/s•sq. m•Pa) when tested according to ASTM E 96/E 96M.

2.2 MVE-CONTROL SYSTEM

- A. MVE-Control System: ASTM F 3010-qualified, fluid-applied, two-component, 100 percent solids epoxy-resin, membrane-forming system; formulated for application on concrete substrates to reduce MVER to level required for installation of floor coverings indicated and acceptable to manufacturers of floor covering products indicated, including adhesives.
 - 1. MAPEI; Planiseal VS
 - 2. UZIN, a Division of UFLOOR Systems, Inc.; PE 460

2.3 ACCESSORIES

- A. Crack-Filling Material:
 - 1. Resin-based material recommended in writing by MVE-control system manufacturer for sealing concrete substrate crack repair.
 - 2. For use at static non-moving joints.
- B. Crack-Filling Material:
 - 1. Self-leveling elastomeric polyurethane sealant recommended in writing by MVE-control system manufacturer for sealing moving expansion joints.
 - 2. For use at dynamic movement joints.
- C. Bond Promoting Primer:
 - 1. MAPEI; Primer T
 - 2. UZIN, a Division of UFLOOR Systems, Inc.; PE 280
- D. Cementitious Self-Leveling Underlayment:
 - 1. MAPEI; Ultraplan Easy
 - 2. UZIN, a Division of UFLOOR Systems, Inc.; NC 150

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Installer present, for compliance with requirements for maximum moisture content, installation tolerances, and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.
 - 1. Installation of system indicates acceptance of surfaces and conditions.Crack-Filling Material:

3.2 PREPARATION

A. Pre-installation Testing:

- 1. Alkalinity Testing: Perform pH testing according to ASTM F 710. Install MVE-control system in areas where pH readings exceed the flooring manufacturer's recommendations.
- 2. Moisture Testing: Perform tests so that each test area does not exceed 1000 sq. ft. (304.8 sq. m), and perform no fewer than three tests in each installation area and with test areas evenly spaced in installation areas.
 - a. Anhydrous Calcium Chloride Test: ASTM F 1869. Install MVE-control system in locations where concrete substrate MVER exceeds 3 lb of water/1000 sq. ft. (1.36 kg of water/92.9 sq. m) in 24 hours.
 - b. Internal Relative Humidity Test: Using in situ probes, ASTM F 2170. Install MVE-control system in locations where concrete substrates exhibit relative humidity level greater than the flooring manufacturer's recommendations.
- 3. Tensile-Bond-Strength Testing: For typical locations indicated to receive installation of MVE-control system, install minimum 100-sq. ft. (9.29-sq. m) area of MVE-control system to prepared concrete substrate and test according to ASTM D 7234.
 - a. Proceed with installation only where tensile bond strength is greater than 200 psi (1.38 MPa) with failure in the concrete.
- B. Concrete Substrates: Prepare and clean substrates according to MVE-control system manufacturer's written instructions to ensure adhesion of system to concrete.
 - 1. Remove coatings and other substances that are incompatible with MVE-control system and that contain soap, wax, oil, or silicone, using mechanical methods recommended in writing by MVE-control system manufacturer. Do not use solvents.
 - 2. Provide concrete surface profile complying with ICRI 310.2R CSP2 or CSP 3 as recommended in writing by MVE-control system manufacturer.
 - 3. Repair damaged and deteriorated concrete in accordance with the concrete surface repairs requirements of 03 01 30 Maintenance of Cast-In-Place Concrete and 03 30 53 Miscellaneous Cast-In-Place Concrete.
 - 4. Protect substrate voids and joints to prevent resins from flowing into or leaking through them.
 - 5. Fill surface depressions and irregularities with patching and leveling material.
 - 6. Fill surface cracks, grooves, control joints, and other nonmoving joints with crack-filling material.
 - 7. Do not skim coat entire concrete slab prior to application of MVE-control system.
 - 8. Allow concrete to dry, undisturbed, for period recommended in writing by MVE-control system manufacturer after surface preparation, but not less than 24 hours.
 - 9. Before installing MVE-control systems, broom sweep and vacuum prepared concrete.
- C. Joint Preparation:
 - 1. Do not apply MVE-control system across substrate expansion, isolation, and other moving joints.
 - 2. Pre-filling static thin random drying shrinkage cracks (less than 0.01 inch (0.25 mm) width and not vertically displaced) is not required.
 - 3. Fill static cracks (narrower than 1/8 inch (3 mm) and not vertically displaced) with MVE resin-based crack-filling material.
 - 4. Fill static cracks

- D. Protect walls, floor openings, electrical openings, door frames, and other obstructions during installation.
- 3.3 INSTALLATION
- A. General: Install MVE-control system according to manufacturer's written instructions to produce a uniform, monolithic surface.
- B. General: Install MVE-control system according to ASTM F 3010 and manufacturer's written instructions to produce a uniform, monolithic surface free of surface deficiencies such as pin holes, fish eyes, and voids.
- C. Apply system in thickness recommended in writing by MVE-control system manufacturer for MVER indicated by pre-installation testing.
- D. Cure MVE-control system according to manufacturer's written instructions. Prevent contamination or other damage during installation and curing processes.
- E. After curing, examine MVE-control system for surface deficiencies. Repair surface deficiencies according to manufacturer's written instructions.
- F. Apply bond promoting primer to epoxy MVE-control system and allow primer to dry completely.
- G. Install cementitious underlayment or skim coating compound according to manufacturer's written instructions.
- 3.4 FIELD QUALITY CONTROL
- A. Testing Agency: Engage a qualified testing agency to perform installation inspections.
- B. Installation Inspections: Inspect substrate preparation and installation of system components to ensure compliance with manufacturer's written instructions and to ensure that a complete MVE-control system is installed without deficiencies.
 - 1. Verify that surface preparation meets requirements.
 - 2. Verify that component coats and complete MVE-control system film thicknesses comply with manufacturer's written instructions.
 - 3. Verify that MVE-control system components and installation areas that evidence deficiencies are repaired according to manufacturer's written instructions.

3.5 PROTECTION

- A. Protect MVE-control system from damage, wear, dirt, dust, and other contaminants before floor covering installation. Use protective methods and materials, including temporary coverings, recommended in writing by MVE-control system manufacturer.
- B. Do not allow subsequent pre-installation examination and testing for floor covering installation to damage, puncture, or otherwise compromise the MVE-control system membrane.

END OF SECTION

Lake View H.S.: Interior & Exterior Renovations 09 05 61.13 - 5 MOISTURE VAPOR EMISSION CONTROL

SECTION 09 65 19

RESILIENT TILE FLOORING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes vinyl composition floor tile and accessories indicated and as specified.

B. Installation of manufacturer approved moisture mitigation system.

1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's technical data for each product indicated.
- B. Samples for Initial Selection: For each type of transition strip intended for the Project.
- C. Samples for Verification: Full-size units of each color and pattern of resilient floor tile and transition strip required, showing full range of colors and patterns intended for the Project.
 - 1. For transition strips, samples are to be full height and not less than 12 inches long, of each color required.
- D. Maintenance Data: For each type of resilient floor tile to include in Operating and Maintenance Manual.
- E. Moisture Test Results: Submit the results of the manufacturer recommended moisture tests of substrate, including a plan indicating the location where tests were performed. Submission will be for record only.

1.3 QUALITY ASSURANCE

- A. Single-Source Responsibility: Obtain each type, color, and pattern of resilient tile from a single source with resources to provide products of consistent quality in appearance and physical properties without delaying progress of the Work.
- B. Fire-Test-Response Characteristics: As determined by testing identical resilient floor tile products according to ASTM E 648 or NFPA 253 by a qualified testing agency.
 - 1. Critical Radiant Flux Classification: Class I, not less than 0.45 w/sq. cm.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to Project site in original packages and containers with seals unbroken and bearing manufacturer's original labels, including manufacturer's name, product name, and directions for storing, handling, and use.

- B. Store flooring materials in dry interior spaces protected from the weather, with ambient temperature maintained between 65 deg F and 85 deg F, and with relative humidity maintained between 30 and 60 percent.
 - 1. Store tiles on flat surfaces.
 - 2. Limit stacking to five (5) boxes high.
- C. Move materials into spaces where they will be installed at least 48 hours prior to installation.

1.5 PROJECT CONDITIONS

- A. Maintain ambient temperatures between 65 deg F and 85 deg F in spaces to receive tiles for at least 48 hours prior to installation, during installation, and for not less than 48 hours after installation. After installation period, maintain a temperature of not less than 55 deg F.
- B. Close spaces to traffic during floor tile installation and for not less than 48 hours after floor tile installation.
- C. Install floor tile after other finishing operations, including painting, have been completed.

1.6 WARRANTY

- A. Manufacturer's Standard Warranty: Manufacturer agrees to replace resilient floor tile and transition strips that fail in performance or materials within specified warranty period.
 - 1. Warranty Period: Five (5) years from date of Final Acceptance or Substantial Completion.

1.7 **MOISTURE MITIGATION SYSTEM**

A. Install moisture mitigation system on elevated concrete deck substrate prior to installation of solid vinyl tile flooring materials to provide proper adhesion to substrate. Subject to compliance with project requirements provide Uzin PE 460 (epoxy primer) or manufacturer approved equivalent. Install in strict accordance with moisture mitigation product instructions.

1.8 EXTRA MATERIALS

- A. Extra Materials: Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents and handling instructions.
 - 1. Floor Tile: Furnish one box for every 50 boxes, or fraction thereof, of each type, color, and pattern of floor tile installed.
 - 2. Transition Strips: Furnish not less than ten linear feet for every 500 linear feet, or fraction thereof, of each type, color, profile, and size of transition strip installed.

PART 2 - PRODUCTS

2.1 RESILIENT TILE

- A. Vinyl Composition Floor Tile: ASTM F 1066, Class 2, through-pattern tile.
 - 1. Wearing Surface: Smooth.
 - 2. Thickness: 1/8 inch.
 - 3. Size: 12 by 12 inches.
 - 4. Color and Pattern: As selected by Architect from manufacturer's full range of colors and patterns.
 - 5. Manufacturer and Product: Subject to compliance with requirements, provide one of the following:
 - a. Armstrong World Industries, Inc.; Standard Excelon, Imperial Texture.
 - b. Congoleum Corporation; Alternatives.
 - c. Tarkett, Inc. (Azrock); Cortina Colors.
 - d. Knight Quartz Flooring; Quartz Concepts.

2.2 INSTALLATION ACCESSORIES

- A. Primer: Non-staining type as recommended by flooring manufacturer.
- B. Trowelable Underlayments and Patching Compounds: Latex-modified, portland-cement-based formulation provided or approved by tile manufacturer for applications indicated.
 - 1. Gypsum based underlayments and patching compounds are not permitted.
- C. Adhesives: Water-resistant type recommended by tile manufacturer to suit resilient floor tile products and substrate conditions indicated.
- D. Transition Strips: Composed of homogeneous vinyl or rubber, with tapered or bullnose edge. Provide in color(s) selected by the Architect from manufacturer's full range, in height required to protect exposed edges of tiles, and in maximum available lengths to minimize joints.
- E. Floor Polish: Commercially available, commercial grade, non-slip, protective liquid floor polish as recommended in writing by floor tile manufacturer for extra heavy traffic areas.
 - 1. Selection of protective floor polish is to be coordinated with Owner's cleaning service and procedures.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas where installation of tiles will occur, with Installer present, to verify that substrates and conditions are satisfactory for tile installation and comply with tile manufacturer's requirements.

- B. Verify that substrates are free of cracks, ridges, depressions, scale, foreign deposits, dirt, oils, and other deleterious materials that could impair the adhesive bond of the floor tile.
 - 1. Wood Substrates: In addition to the above, verify that wood substrates are free of gaps between boards, protruding fasteners, and cracks, shakes, splits, and checks.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.
- D. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Prepare substrates according to manufacturer's written instructions to ensure adhesion of resilient products.
- B. Concrete Substrates: Prepare according to ASTM F 710.
 - 1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
 - 2. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by manufacturer. Do not use solvents.
 - 3. Alkalinity and Adhesion Testing: Perform tests recommended by manufacturer. Provide test results to Owner. Proceed with installation only after substrates pass testing.
 - 4. Moisture Testing: Perform tests recommended by manufacturer and as follows. Proceed with installation only after substrates pass testing.
 - a. Perform anhydrous calcium chloride test, ASTM F 1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 5 lb of water/1000 sq. ft. in 24 hours.
 - b. Perform relative humidity test using in situ probes, ASTM F 2170. Proceed with installation only after substrates have a maximum 75% relative humidity level measurement.
- C. Wood Substrates:
 - 1. Verify that substrates are sound, dry, free of irregularities, and free of substances that would impair the adhesive bond of the floor tile.
 - 2. Prepare existing wood substrates by sanding to remove finishes and to provide a smooth, level substrate. Thoroughly vacuum substrate after sanding to remove dust.
- D. Use trowelable leveling and patching compounds to fill cracks, holes, and depressions in substrates. Install in accordance with manufacturer's instructions.
- E. Remove coatings, including curing compounds, and other substances that are incompatible with flooring adhesives and that contain soap, wax, oil, or silicone, by using a terrazzo or concrete grinder, a drum sander, or a polishing machine equipped with a heavy-duty wire brush.
- F. Broom sweep and vacuum clean substrates to be covered by tiles immediately before tile installation. Ensure substrates are free of moisture, alkaline salts, carbonation, dust, dirt, grease and debris.

G. Apply primer to concrete slabs, if recommended by flooring manufacturer, prior to application of adhesive. Apply primer in accordance with manufacturer's instructions.

3.3 INSTALLATION

- A. Comply with manufacturer's installation instructions for installing floor tile and accessories.
- B. Lay out tiles from center marks established with primary walls, discounting minor offsets, so tiles at opposite edges of room are of equal width unless noted otherwise on the Drawings. Adjust as necessary to avoid using cut widths that measure less than one-half tile. Install tiles square with room axis, unless otherwise indicated.
- C. Match tiles for color and pattern by selecting tiles from cartons in same sequence as manufactured and packaged. Discard broken, cracked, chipped, or deformed tiles.
 - 1. Lay tiles with grain direction alternating in adjacent tiles (basket-weave pattern).
 - 2. Tiles with directional arrows on their backs should be installed with the arrows pointing in the same direction.
- D. Scribe, cut, and fit tiles to butt tightly to vertical surfaces, and permanent fixtures including built-in furniture including cabinets, pipes, outlets, edgings, thresholds, door frames, and nosings.
- E. Extend tiles into toe spaces, door reveals, closets, and similar openings. Extend floor tiles into door openings as necessary to ensure the transition strip at the edge of the tile is located beneath the door when in a closed position.
- F. Maintain reference markers, holes, or openings that are in place or plainly marked for future cutting by repeating on finish flooring as marked on substrates. Use chalk or other nonpermanent, nonstaining marking device.
- G. Use full spread of adhesive applied to substrate in compliance with tile manufacturer's directions including those for trowel notching, adhesive mixing, and adhesive open and working times.
- H. Adhere tiles to flooring substrates without producing open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, or other substrate and surface imperfections in completed tile installation.

3.4 CLEANING AND PROTECTION

- A. Perform the following operations immediately after completing floor tile installation:
 - 1. Remove adhesive and other surface blemishes using clean cloth and cleaner recommended by tile manufacturer.
 - 2. Sweep and vacuum floor thoroughly.
 - 3. Damp-mop surfaces to remove marks and soil.
 - a. Do not wash or apply floor polishes to resilient floor tile until after adhesives have fully cured unless otherwise recommended by flooring manufacturer.

- 4. Following tile manufacturer's recommended setting period, wash floor with a neutral cleaner, rinse thoroughly, and vacuum dry in accordance with tile manufacturer's written instructions.
- B. Protect flooring against mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period. Use protection methods recommended in writing by tile manufacturer to ensure the resilient tile flooring will be free of damage at Preliminary Acceptance, or Substantial Completion.
 - 1. Do not move heavy or sharp objects over newly installed floor tiles. Place plywood or hardboard panels over tiles and under objects while they are being moved, and slide or roll objects without moving panels.
- C. Immediately prior to Preliminary Acceptance, or Substantial Completion, remove protective covers and panels, thoroughly clean floor tile, and apply floor polish in accordance with manufacturer's instructions.
 - 1. Clean resilient floor tile in accordance with tile manufacturer's written instructions.
 - 2. Apply five (5) coats of protective floor polish to horizontal surfaces that are free from soil, visible adhesive, and surface blemishes using methods recommended in writing by floor polish manufacturer.
 - a. Use commercially available product acceptable to tile manufacturer.
 - 3. Cover tiles with undyed, untreated building paper until inspection for Preliminary Acceptance or Substantial Completion.
 - 4. Do not move heavy or sharp objects over newly installed floor tiles. Place plywood or hardboard panels over tiles and under objects while they are being moved, and slide or roll objects without moving panels.

END OF SECTION



Date of Issue: April 28, 2017 PBC: Lake View High School Renovation Project_C1583 - Addendum No. 2

ANTITY	ROOM ID	ROOM NAME	REMARK
3	ØlØA	STORAGE	
1	ØlØC	MEN STAFF STORAGE	
1	Ø10D	WOMEN STAFF STORAGE	
1	100E	WOMEN STAFF TOILET	
1	1001	GIRLS TOILET	
1	100J	UNISEX STAFF TOILET	
1	112B,1	STORAGE	
1	2ØØC	UNISEX STAFF TOILET	
1	200D	STORAGE	
1	2 <i>ØØ</i> J	BOYS TOILET	
1	200N	MEN STAFF TOILET	
1	300G	GIRLS TOILET	
1	3ØØH	STORAGE	
1	3001	UNISEX STAFF TOILET	
1	ØlØ	UNISEX STAFF TOILET	
1	Ø1ØF	UNISEX STAFF TOILET	
1	Ø1ØG	UNISEX STAFF TOILET	
1	Ø4Ø	UNISEX STAFF TOILET	
1	116	UNISEX STAFF TOILET	
1	Ø1ØC	MEN STAFF	
1	Ø10D	WOMEN STAFF	
1	1001	GIRLS TOILET	
1	300G	GIRLS TOILET	
1	2ØØJ	BOYS TOILET	
1	200N	MEN STAFF TOILET	
_	300G	WOMEN'S TOILET	
	100E	WOMEN'S STAFF TOILET	
5	(VARIES)	(VARIES)	SEE PLANS 2
1	ØlØ	LUNCHROOM	<pre>}</pre>
1	116	MAIN GYMNASIUM	
18			SEE PLANS
IGN NAME	S AND NUMBER	5 TO BE REVIEWED WITH AND APT CT LOCATIONS WITH PROJECT SUF	PROVED BY OWNER. COORDINATE PERINTENDENT AND SCHOOL PERSONNEL.





ROUT AND EPOXY REPAIR STONE CRACKS AND HOLES. FINISH STONE REPAIR WORK TO MATCH FINISH AND COLOR OF

NEW WALL TO ADJACENT MASONRY WALL. PROVIDE NEW FLASHING/COUNTERFLASHING SYSTEM, COORDINATE WITH ROOF AREAS OF NEW PARAPET WORK TO MAINTAIN WATERTIGHT CONSTRUCTION. REFER TO ROOF DRAWINGS FOR ADDITIONAL

NEW BRICK AND MORTAR TO MATCH EXISTING. PROVIDE STAINLESS STEEL TIES TO BACK-UP STRUCTURE. APPROX. SF

CLAY TILE COPING TO BE REPLACED WITH STONE COPING - REFER TO ROOF PLANS FOR COMPLETE DESCRIPTION OF

STONE COPING TO BE SALVAGED, CLEANED AND REINSTALLED. PROVIDE NEW STONE COPING IN SAME SIZE, SHAPE, PROFILE, COLOR AND TEXTURE WHERE EXISTING CANNOT BE SALVAGED - ASSUME 10% STONE REPLACEMENT. REFER

REMOVE EXISTING METAL WIRE SCREEN AND PATCH FRAME. PROVIDE CPS STANDARD PERFORATED METAL SECURITY PANEL, COORDINATE SIZES OF OPENINGS WITH WINDOW SCHEDULE. FINISH TO BE WHITE. FOR WINDOWS THAT HAVE AC





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MASONRY REPAIR GENERAL NOTES

1. GRIND AND TUCKPOINT ALL EXTERIOR MASONRY FACADES INCLUDING MASONRY HEADERS, JAMBS & SILLS AND ROOF SIDE FACES OF PARAPET WALLS TO REMAIN, 100% OF BUILDING. ALL GRINDING AND TUCKPOINTING WORK TO FOLLOW CONTRACT DOCUMENT REQUIREMENTS. PROVIDE TOOLED CONCAVE JOINT 2. GRIND AND TUCKPOINT ALL EXTERIOR STONE ELEMENTS ON THE FACADES INCLUDING CORNICES, HEADERS, JAMBS, SILLS, AND ACCENT PIECES, 100% OF BUILDING FACADE. ALL GRINDING AND TUCKPOINTING WORK TO FOLLOW CONTRACT DOCUMENT REQUIREMENTS, PROVIDE TOOLED CONCAVE JOINT. 3. REFER TO ROOF PLANS FOR ADDITIONAL INFORMATION FOR WORK RELATED TO COPINGS AND MASONRY PARAPET WALLS. 4. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY REMOVAL AND REINSTALLATION OF ALL DOUNSPOUTS TO PROPERLY PERFORM MAGONRY REPAIR AND TUCKPOINTING WORK. THE DRAWINGS ARE FOR REFERENCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTE ALL DOWNSPOUT LOCATIONS

ON THE BUILDING PRIOR TO SUBMITTING BID. 5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SURFACE MOUNTED EQUIPMENT AND UTILITIES THAT REMAIN IN PLACE AROUND

AREAS OF WORK INCLUDING BUT NOT LIMITED TO ELECTRICAL CABLES, LIGHTING, EQUIPMENT SUPPORT STRUCTURES AND WINDOW MOUNTED AIR 6. DIMENSIONS AND NUMERIC NOTATIONS NEXT TO KEYNOTE INDICATES APPROXIMATE SF. OF REQUIRED WORK FOR BIDDING PURPOSES. CONTRACTOR

SHALL VERIFY EXACT LOCATION AND SF. IN THE FIELD. 1. NOT ALL ELEVATIONS ARE SHOWN BUT ALL MASONRY WORK IDENTIFIED IN THESE DRAWINGS SHALL INCLUDE ASSOCIATED CORNERS AND RETURNS ADJACENT TO WALLS SHOWN ON THE ELEVATIONS AND SHALL BE CONSIDERED PART OF SAME SCOPE.

8. WASH ALL MASONRY AND STONE FACADE SURFACES AFTER TUCKPOINTING WORK IS COMPLETE

3. PROVIDE FOR 150 LF. OF STEEL LINTEL REPLACEMENT, EXACT LENGTHS TO BE VERIFIED IN THE FIELD. COORDINATE WITH KEYNOTE MR-2. REPLACE REVEALED LINTELS THAT SHOW MORE THAN 25% SECTION LOSS W/ GALVANIZED STEEL LINTEL. REBUILD OPENING PER KEYNOTE MR-2. SEE DETAIL 13/A12.4 10. PROVIDE FOR 100 SF. OF STONE HEADER PATCHING / EPOXY REPAIR. EXACT LOCATIONS TO BE DETERMINED IN THE FIELD. COORDINATE WITH KEYNOTE MR-4. REBUILD HEADER PER KEYNOTE MR-4

II. PROVIDE FOR APPROX. 200 S.F. OF STONE HEADER REPLACEMENT. EXACT LOCATIONS TO BE DETERMINED IN THE FIELD. PROFILE OF STONE HEADER TO MATCH EXISTING. COORDINATE WITH KEYNOTE MR-4. REBUILD HEADER PER KEYNOTE MR-4 12. REMOVE AND REPLACE PERIMETER SEALANT AT ALL WINDOWS, 100% REPLACEMENT, FOLLOWING SEALANT MANUFACTURER'S

RECOMMENDATIONS. DRAWINGS ARE FOR REFERENCE ONLY, NOT ALL WINDOWS ARE SHOWN ON ELEVATION DRAWINGS. CONTRACTOR TO VERIFY ALL WINDOW LOCATIONS. 13. ALL NEW MASONRY TO BE TOOTHED INTO EXISTING, TYPICAL

MASONRY REPAIR KEY NOTES

REMOVE EXISTING LIGHT FIXTURE AND BRACKETS IN ITS ENTIRETY. PATCH EXPOSED MASONRY SURFACES. REFER $\langle g_R \rangle$ to roof plans and electrical drawings for removal and new exterior lighting work information.

LOCALLY REMOVE EXTERIOR MASONRY AT BRICK WINDOW HEAD TO EXPOSE LINTEL. SCRAPE AND PAINT EXPOSED STEEL LINTELS WITH ANTI-RUST COATING. REFER TO TYP. EXTERIOR COATING SYSTEM NOTE ON SHEET A5.4. REBUILD 1ASONRY WALL WITH SALVAGED OR MATCHING BRICK AND MORTAR AND PROVIDE STAINLESS STEEL TIES TO BACKUP STRUCTURE. PROVIDE NEW FLASHING, TERMINATION BAR, DRIP EDGE, END DAMS AND CELL VENT WEEPS. APPROX. LOCATIONS HATCHED ON DRAWINGS. REFER TO DETAIL 10/A12.4 FOR TYPICAL REPAIR WORK. COORDINATE WITH GENERAL MAGONRY NOTE *9 FOR LINTEL REPLACEMENT SCOPE.

LOCALLY DEMOLISH AND REBUILD DAMAGED MASONRY TO 2 WYTHES DEPTH. NEW BRICK AND MORTAR TO MATCH EXISTING. PROVIDE STAINLESS STEEL TIES TO BACK-UP STRUCTURE. APPROX. SF OF AREA SHOWN ON DRAWINGS.

REMOVE AND SALVAGE HUNG STONE AT WINDOW HEAD. DEMO MASONRY ABOVE STONE HEADER TO EXPOSE LINTEL. REPLACE EXISTING ANGLE SUPPORTING WINDOW FRAME HEAD WITH GALVANIZED STEEL LINTEL TO PROVIDE BEARING FOR WINDOW AND MATCH ELEVATION OF TOP OF EXISTING WINDOW HEAD. PROVIDE NEW FLASHING, TERMINATION BAR, DRIP EDGE, END DAMS AND CELL VENT WEEPS AT LINTEL. REBUILD MASONRY WITH SALVAGED OR MATCHING MATERIAL AND REINSTALL STONE HEADER. SAWCUT STONE HEADER AS NECESSARY TO FIT INTO NEW LINTEL. PROVIDE STAINLESS STEEL TIES TO BACKUP STRUCTURE AND MORTAR ALL JOINTS. CAREFULLY REMOVE AND SALVAGE WINDOW FOR REINSTALLATION OR FULLY REPLACE IF NOTED AS SUCH ON ELEVATIONS. REINSTALL/INSTALL WINDOW IN COMPLETED OPENING AND CAULK ALL JOINTS. COORDINATE WITH GENERAL MASONRY NOTES #10 AND #11 FOR STONE HEADER REPAIR AND REPLACEMENT SCOPES. REFER TO DETAIL 1/AI2.4

LOCALLY REMOVE INFILL MASONRY. REBUILD WALL WITH CMU BACKUP AND MASONRY FACE BRICK TOOTHED INTO AND LAID FLUGH WITH ADJACENT MAGONRY. PROVIDE STAINLESS STEEL MAGONRY TIES TO BACK UP.

LOCALLY REMOVE ALL LOOSE CONCRETE. SCRAPE, PRIME AND PAINT ALL EXPOSED STEEL REINFORCEMENT WITH ANTI-CORROGION BONDING AGENT. PROVIDE ADDITIONAL REINFORCEMENT AS REQUIRED. PATCH SPALLED CONCRETE ACCORDING TO PATCH MATERIAL MANUFACTURER'S REPAIR INSTRUCTIONS. ROUT AND EPOXY REPAIR CONCRETE CRACKS, FINISH CONCRETE REPAIR WORK TO MATCH FINISH AND COLOR OF EXISTING CONCRETE SURFACES. ROUT AND EPOXY REPAIR STONE CRACKS AND HOLES. FINISH STONE REPAIR WORK TO MATCH FINISH AND COLOR OF EXISTING STONE SURFACES.

SALVAGE COPPER CORNICES INCLUDING ASSOCIATED BRACKETS. REINSTALL CORNICES AT COMPLETION OF MASONRY WORK. REPLACE ALL WOOD BLOCKING WITH TREATED WOOD BLOCKING TO SUPPORT REINSTALLED CORNICES AND PROVIDE COMPATIBLE SEALANT AT ALL JOINTS. EXACT LOCATION AND DIMENSIONS TO BE VERIFIED IN THE FIELD. CONTRACTOR TO PROVIDE ALLOWANCE TO REPLACE 30% OF COPPER CORNICE WITH NEW COPPER CORNICE ASSEMBLY IN MATCHING PROFILES AND GAUGE. SHOWN DASHED, TYP.

CAREFULLY REMOVE ENTIRE PARAPET WALL DOWN TO ROOF DECK AND REMOVE VENEER WITHE TO CORNICE. PROVIDE NEW MASONRY PARAPET WALL AND STONE COPING. MATCH HEIGHT OF ORIGINAL PARAPET WALL. KEY-IN NEW WALL TO ADJACENT MASONRY WALL. PROVIDE NEW FLASHING/COUNTERFLASHING SYSTEM, COORDINATE WITH ROOF REPLACEMENT WORK AND MAGONRY WORK. REPAIR/PATCH EXISTING ROOF SYSTEMS TO REMAIN AS NECESSARY AT AREAS OF NEW PARAPET WORK TO MAINTAIN WATERTIGHT CONSTRUCTION. REFER TO ROOF DRAWINGS FOR ADDITIONAL RAIN BASIN AND SCUPPER REPLACEMENT WORK RELATED TO THIS PARAPET WALL REBUILD.

REMOVE AND REPLACE ALL METAL GUTTERS, DOWNSPOUTS AND ASSOCIATED BRACKETS. REPLACE WITH COPPER ASSEMBLIES THAT MATCH PROFILE OF ORIGINAL COMPONENTS. PROVIDE COMPATIBLE SEALANT FOR ALL JOINTS. PROVIDE FOR THE REPLACEMENT OF APPROX. 400 LF OF TREATED WOOD BLOCKING TO SUPPORT NEW ASSEMBLIES. LOCATIONS TO BE VERIFIED IN THE FIELD. SHOWN DASHED, TYPICAL

SALVAGE COPPER COPING INCLUDING ASSOCIATED BRACKETS. REINSTALL COPING AT COMPLETION OF WALL AND ROOF WORK. REPLACE ALL WOOD BLOCKING WITH TREATED WOOD BLOCKING TO SUPPORT REINSTALLED COPING AND PROVIDE COMPATIBLE SEALANT AT ALL JOINTS. EXACT LOCATION AND DIMENSIONS TO BE VERIFIED IN THE FIELD. CONTRACTOR TO PROVIDE ALLOWANCE TO REPLACE 30% OF COPPER COPING WITH NEW COPPER COPING ASSEMBLY IN MATCHING PROFILE AND GAUGE. SHOWN DASHED, TYP.

SALVAGE STONE HEADER PIECES AT DOORWAY OPENING. LOCALLY DEMOLISH EXTERIOR MASONRY TO EXPOSE LINTEL. REMOVE EXISTING LINTEL AND REPLACE WITH GALVANIZED STEEL LINTEL ASSEMBLY. REBUILD MASONRY WALL WITH SALVAGED OR MATCHING BRICK AND MORTAR, REINSTALL SALVAGED STONE AND PROVIDE STAINLESS STEEL TIES TO BACKUP STRUCTURE. PROVIDE NEW FLASHING, TERMINATION BAR, DRIP EDGE, END DAMS AND CELL VENT WEEPS. PATCH AND EPOXY REPAIR STONE HEADER PIECES. REFER TO DETAIL 12/A12.4

LOCALLY DEMOLISH AND REBUILD DAMAGED MASONRY TO I WYTHE DEPTH ON THE INSIDE FACE OF PARAPET WALL. NEW BRICK AND MORTAR TO MATCH EXISTING. PROVIDE STAINLESS STEEL TIES TO BACK-UP STRUCTURE. APPROX. SF OF AREA SHOWN ON DRAWINGS.

CLAY TILE COPING TO BE REPLACED WITH STONE COPING - REFER TO ROOF PLANS FOR COMPLETE DESCRIPTION OF WORK.

STONE COPING TO BE SALVAGED, CLEANED AND REINSTALLED. PROVIDE NEW STONE COPING IN SAME SIZE, SHAPE, PROFILE, COLOR AND TEXTURE WHERE EXISTING CANNOT BE SALVAGED - ASSUME 10% STONE REPLACEMENT. REFER TO ROOF PLANS FOR COMPLETE DESCRIPTION OF WORK.

C DEMOLISH AND REPLACE EXISTING STONE BALUSTRADE. COORDINATE WITH COPPER CORNICE AND ROOFING MR17 REPLACEMENT - REFER TO ROOF PLANS FOR COMPLETE DESCRIPTION OF WORK.

 \gtrsim REBUILD MASONRY SCUPPER OPENING. COORDINATE WITH PARAPET WALL REBUILDING WORK - REFER TO ROOF

MR18 PLANS FOR COMPLETE DESCRIPTION OF WORK.

REMOVE LADDER AND PATCH WALL. PROVIDE NEW SAFETY LADDER, REFER TO ROOF HATCH DETAILS FOR

REMOVE AND REPLACE STONE BANDING. MATCH DIMENSIONS, PROFILE AND COLOR OF EXISTING STONE. POINT ALL JOINTS.

REMOVE EXISTING METAL WIRE SCREEN AND PATCH FRAME. PROVIDE CPS STANDARD PERFORATED METAL SECURITY PANEL, COORDINATE SIZES OF OPENINGS WITH WINDOW SCHEDULE. FINISH TO BE WHITE. FOR WINDOWS THAT HAVE AC UNITS, CUT THE NEW SECURITY PANEL TO FIT AROUND UNIT.

DEMOLISH EXISTING FENCE AND PICTH POCKETS AS PART OF ROOF DEMOLITION. REPLACE WITH SIMILAR 6'-O", 2 RAIL MR2 fence system with posts in pitch pocket assembly. Provide 45 degree lateral cross bracing of entire STRUCTURE TO MATCH EXISTING FENCING SUPPORT. COORDINATE WITH ROOF WORK.

MR2)3 RE-SET CAST IRON DRAIN LINE LATERAL RUN AT FIRST FIRST FLOOR TO CREATE POSITIVE SLOPE FOR DRAINAGE

REPLACE EXISTING WINDOW, SHOWN DASHED. SEE BUILDING ELEVATIONS FOR SPECIFIC NUMBER OF REPLACEMENT. NUMBER - IN HEXAGON REFERS TO WINDOW MARK IN WINDOW SCHEDULE, WHERE THERE IS A WINDOW AC UNIT LOCATED IN A WINDOW TO BE REPLACED, SALVAGE THE AC UNIT AND PROVIDE NEW AC UNIT SUPPORT FRAME AND INSULATED PANEL IN NEW WINDOW FRAME TO REINSTALL AC UNIT IN SAME LOCATION. PROVIDE STANDARD CPS METAL SECURITY PANEL, COORDINATE SIZES OF OPENINGS WITH WINDOW SCHEDULE.

FINISH TO BE WHITEFOR WINDOWS THAT HAVE AC UNITS, CUT THE NEW SECURITY PANEL TO FIT AROUND UNIT.



A5.3



MASONRY REPAIR GENERAL NOTES

1. GRIND AND TUCKPOINT ALL EXTERIOR MASONRY FACADES INCLUDING MASONRY HEADERS, JAMBS & SILLS AND ROOF SIDE FACES OF PARAPET WALLS TO REMAIN, 100% OF BUILDING. ALL GRINDING AND TUCKPOINTING WORK TO FOLLOW CONTRACT DOCUMENT REQUIREMENTS. PROVIDE TOOLED CONCAVE JOINT 2. GRIND AND TUCKPOINT ALL EXTERIOR STONE ELEMENTS ON THE FACADES INCLUDING CORNICES, HEADERS, JAMBS, SILLS, AND ACCENT PIECES, 100% OF BUILDING FACADE, ALL GRINDING AND TUCKPOINTING WORK TO FOLLOW CONTRACT DOCUMENT REQUIREMENTS, PROVIDE TOOLED CONCAVE JOINT, 3. REFER TO ROOF PLANS FOR ADDITIONAL INFORMATION FOR WORK RELATED TO COPINGS AND MASONRY PARAPET WALLS. 4. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY REMOVAL AND REINSTALLATION OF ALL DOUNSPOUTS TO PROPERLY PERFORM MAGONRY REPAIR AND TUCKPOINTING WORK. THE DRAWINGS ARE FOR REFERENCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTE ALL DOWNSPOUT LOCATIONS

ON THE BUILDING PRIOR TO SUBMITTING BID. 5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SURFACE MOUNTED EQUIPMENT AND UTILITIES THAT REMAIN IN PLACE AROUND AREAS OF WORK INCLUDING BUT NOT LIMITED TO ELECTRICAL CABLES, LIGHTING, EQUIPMENT SUPPORT STRUCTURES AND WINDOW MOUNTED AIR

6. DIMENSIONS AND NUMERIC NOTATIONS NEXT TO KEYNOTE INDICATES APPROXIMATE SF. OF REQUIRED WORK FOR BIDDING PURPOSES. CONTRACTOR

SHALL VERIFY EXACT LOCATION AND SF. IN THE FIELD. 1. NOT ALL ELEVATIONS ARE SHOWN BUT ALL MASONRY WORK IDENTIFIED IN THESE DRAWINGS SHALL INCLUDE ASSOCIATED CORNERS AND RETURNS ADJACENT TO WALLS SHOWN ON THE ELEVATIONS AND SHALL BE CONSIDERED PART OF SAME SCOPE.

8. WASH ALL MASONRY AND STONE FACADE SURFACES AFTER TUCKPOINTING WORK IS COMPLETE

3. PROVIDE FOR 150 LF. OF STEEL LINTEL REPLACEMENT, EXACT LENGTHS TO BE VERIFIED IN THE FIELD. COORDINATE WITH KEYNOTE MR-2. REPLACE REVEALED LINTELS THAT SHOW MORE THAN 25% SECTION LOSS W/ GALVANIZED STEEL LINTEL. REBUILD OPENING PER KEYNOTE MR-2. SEE DETAIL 13/A12.4 10. PROVIDE FOR 100 SF. OF STONE HEADER PATCHING / EPOXY REPAIR. EXACT LOCATIONS TO BE DETERMINED IN THE FIELD. COORDINATE WITH KEYNOTE MR-4. REBUILD HEADER PER KEYNOTE MR-4

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MR2)3 RE-SET CAST IRON DRAIN LINE LATERAL RUN AT FIRST FIRST FLOOR TO CREATE POSITIVE SLOPE FOR DRAINAGE

REPLACE EXISTING WINDOW, SHOWN DASHED. SEE BUILDING ELEVATIONS FOR SPECIFIC NUMBER OF REPLACEMENT. NUMBER IN HEXAGON REFERS TO WINDOW MARK IN WINDOW SCHEDULE, WHERE THERE IS A WINDOW AC UNIT LOCATED IN A WINDOW TO BE REPLACED, SALVAGE THE AC UNIT AND PROVIDE NEW AC UNIT SUPPORT FRAME AND INSULATED PANEL IN NEW WINDOW FRAME TO REINSTALL AC UNIT IN SAME LOCATION. PROVIDE STANDARD CPS METAL SECURITY PANEL, COORDINATE SIZES OF OPENINGS WITH WINDOW SCHEDULE.

FINISH TO BE WHITEFOR WINDOWS THAT HAVE AC UNITS, CUT THE NEW SECURITY PANEL TO FIT AROUND UNIT.

ORDOGAN, CLARK & ASSOCIATES ARCHITECTS . ENGINEERS www.cordoganclark.com 630.896.4678 630.896.4987 SINGH + ASSOCIATES, INC CONSULTING ENGINEERS PROVIDE AOR/EOR STAMP HERE LAKE VIEW HIGH SCHOOL RENOVATION 5 NORTH ASHLAND AVENUE HICAGO, ILLINOIS 60613 BC PROJECT #05095 CPS PROJECT NO. 2016-46211-MCR REVISIONS NO. DATE DESCRIPTION 2016-05.17 60% SUBMITTAL 60% RE-SUBMITTAL 2016-06.14 2017-02.14 75% SUBMITTAL 2017-03.02 | 100% SUBMITTAL 2017-03.07 PERMIT SET 2017-03.23 PRELIMINARY OTB SET 2017-04.06 | BID SET 2017-04.12 ADDENDUM #01 2017-04.21 ADDENDUM #02 CCA RAWN BY: VARIES ASHLAND AVE. AREAS OF WORK: ENTIRE BUILDING EXTERIOR, ALL LEVELS AND ROOF KEY PLA ASBESTOS-CONTAINI WARNING: BUILDING MATERIALS ARE OR MA E PRESENT IN THIS BUILDING. A ASBESTOS MANAGEMENT PLAN AVAILABLE IN THE SCHOOL F REVIEW UPON REQUEST. NO PERSOI MAY DISTURB ASBESTOS-CONTAININ MATERIALS UNLESS THAT PERSON A LICENSED ASBESTOS WORKER CONDUCTS SUCH WORK ACCORDANCE WITH SPECIFICATION CONTAINED IN THE PROJEC DOCUMENTS AND IN COMPLIANCE WITH ILLINDIS DEPARTMENT D HEALTH RULES AND REGULATIONS. BUILDING **ELEVATIONS** DRAWING NO

A5.4





N 2 200N STAFF TOILET PLAN









N 7 200C STAFF TOILET PLAN



TIN PROVIDE WOOD CAP ENCLOSURE AT TOP OF WET WALL CHASE, SEE DETAILS.

PROVIDE EXHAUST FAN IN INSULATED PANEL INSTALLED IN WINDOW SAGH, COORDINATE W/ WINDOW SCHEDULE SHEET, WINDOW DETAILS 14 & 15/A12.4, ELEVATIONS AND MECHANICAL DWGS.

TIS REINSTALL FIXTURES, REFER TO PLUMBING DWGS.

THEN REINSTALL. TEMP CAP SYSTEM TO PERFORM WORK.

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TID TEMP. REMOVE EXIST. RADIATOR TO SCRAPE & PAINT UNIT. SCRAPE AND PAINT WALL BEHIND UNIT AND

GENERAL NOTES

I. PROVIDE DEMOLITION OF EXISTING CEILING IN ROOMS LOCATED BELOW ALL TOILET ROOMS TO BE RENOVATED AS PART OF THIS PROJECT TO PROVIDE ACCESS TO PERFORM ALL MEP WORK RELATED TO THE TOILET ROOM RENOVATION. PATCH/REPAIR CEILINGS TO MATCH ADJACENT CEILING FINISH FOLLOWING COMPLETION OF WORK. COORDINATE WITH WORK IDENTIFIED ON MEP DRAWINGS.

2. ALL DIMENSIONS / ELEVATIONS INDICATED THIS SHEET ARE FOR REFERENCE AND ARE TO BE VERIFIED IN FIELD, REFER TO ALX SERIES SHEETS FOR GENERAL DEMOLITION NOTES.

WALL LEGEND

EXISTING CONSTRUCTION TO REMAIN

NEW CONSTRUCTION WALL









8 300I STAFF TOILET PLAN







CONSTRUCTION KEY NOTES:

- A1 PATCH, SCRAPE, PRIME, PAINT & FINISH ALL WALLS AND PAINTABLE SURFACE ALONG WALLS IN THEIR ENTIRETY, EXCEPT UN-PAINTED WOOD, GLAZED BLOCK OR CERAMIC TILE ELEMENTS, W/ LOW OR NO V.O.C. PAINT - SEE RM. FIN. SCHED. FOR ADD'L. REQ'S. TAPE OFF EXIST. UN-PAINTED WD. TRIM AND OTHER SURFACE MT'D. ELEMENTS TO REMAIN (NOT INCL. CONDUIT OR OTHER SURFACE MT'D. ELEMENTS TO REMAIN (NOT INCL. CONDUIT OR OTHER ITEMS THAT CAN BE PAINTED). PROVIDE CONST. CLEAN AND FINAL CLEAN, PROVIDE SEAL COAT ON FIN. FLOORING THIS ROOM IN ITS ENTIRETY. ALL EXPOSED SURFACES TO BE COMPLETELY FREE OF ANY DUST / DEBRES
- SCRAPE, PATCH, SAND, PRIME, PAINT AND FINISH ALL HARD A2 SURFACE CEILINGS AND PAINTABLE SURFACE ALONG CEILINGS & SOFFITS THIS ROOM IN THEIR ENTIRETY - PAINT W/ LOW OR NO VOC PAINT - SEE RM. FIN. SCHED. FOR ADD'L. REQ'S. TAPE OFF / PROTECT AS REQUIRED EXIST. CLG. MT'D ELEMENTS TO REMAIN (NOT INCL. CONDUIT OR OTHER ITEMS THAT CAN BE PAINTED)
- PREP. & PAINT ALL EXIST. PREVIOUSLY PAINTED WD. TRIM A 3 EXPOSED TO RM. VIEW (WHERE APPLICABLE), INCL. BUT NOT LIMITED TO: BASE, CHAIR RAIL, PICTURE RAIL, UPPER PICTURE RAIL, BUILT-IN CASEWORK (INCL. SHELVING, DOORS, DRAWERS, ETC.) TO REMAIN & TRIM @ WINDOWS AND DOORS (INCL. SASHES, JAMBS, HEADS, STOPS, APRONS, SILLS, STOOLS, RAILS, MUNTINS, ETC.) THIS ROOM IN THEIR ENTIRETY. REMOVE POORLY ADHERED EXIST. PAINT, PREP. & PAINT W/ LOW OR NO VOC PAINT A 4 CLEAN EXIST CERAMIC TILE / GLAZED CMU AND GROUT WITH
- AFTER CONSTRUCTION IS COMPLETE, RELOCATE ALL FURN. AFTER CONSTRUCTION IS COMPLETE, RELOCATE ALL FURN. 45 4 WALL-MOUNTED 4 OTHER LOOSE ITEMS REMOVED FROM ROOM BACK INTO ROOM 4 RE-INSTALL. ARRANGE IN
- CONFIG. AS DIRECTED BY OWNER PROVIDE 2'-0"x4'-0" OR 2'-0"x2'-0" ACOUSTIC CEILING TILES IN EXIST. GRID, THIS ROOM IN ITS ENTIRETY. SEE RF.9. FOR ADD. INFO. PAINT EXIST CEILING GRID, THIS ROOM, IN ITS ENTIRETY. TAPE OFF CEILING MTD. LIGHT FIXTURES, REGISTERS, SPRINKLER HEADS, ETC.
- RE-INSTALL SALVAGED A.C.T. GRID AND CEILING TILES THIS AREA A7 AS REQ'D. DUE TO TEMP. REMOVAL OF A.C.T. TILES TO ACCOMMODATE SCOPE OF WORK, TYP. SEE TARGET FOR QUANTITY
- PROVIDE CARPET FOR ENTIRE ROOM AND PROVIDE QUARTER ROUND SHOE STAINED TO MATCH WOOD BASE AT LOCATIONS A8 WHERE THE EXISTING BASE IS WOOD. PROVIDE VINYL BASE WHERE EXISTING BASE WAS VINYL, SEE DETAILS 1, 2 & 3/A12.1 & RF.S. FOR ADD'L. REQ'S.
- APROVIDE V.C.T. FLOORING OVER 1/4" B-C PLYWOOD UNDERLAYMENT, ADHERED AND MECHANICALLY FASTENED OVER EXIST. VCT THIS ROOM IN ITS ENTIRETY, REFER TO 4/AI2.I AND RF.S. FOR ADD'L. REQ'S. UNDERCUT ALL EXIST. DOORS IN ROOM TO ACCOMODATE ELEVATION CHANGE OF FLOOR PROVIDE QUARTER ROUND SHOE STAINED TO MATCH WOOD BASE AT LOCATIONS WHERE THE EXIST. BASE IS WOOD. PROVIDE RUBBER BASE WHERE EXIST. BASE WAS VINLY, SEE DETAILS 1, 2, 3 4 4/AI2.I 4 RF.S. FOR ADD'L. REQ'S.
- PROVIDE PLASTER FINISH COAT & AREA OF DEMO'ED PLASTER INDICATED THIS AREA OF WALL IN THICKNESS REQ'D TO ALIGN W/ ADJACENT EXIST. PLASTER AT AREAS WHERE PLASTER BASE COAT & METAL LATH HAS BEEN REMOVED - ASSUME 5% OF AREA INDICATED - PROVIDE METAL LATH, PLASTER BASE COAT, BROWN COAT & FINISH COAT TO THICKNESS REQ'D TO ALIGN WITH ADJACENT EXIST. PLASTER. FEATHER INTO EXIST SOUND PLASTER, AND SAND. SEE TAG FOR APPROX. SF. RE-ATTACH EXIST. WD. TRIM / BUILT-IN CHALK / TACK BD.. RE-ATTACH EXIST. DUCTWORK AND PIPING. RE-INSTALL WIRING / CONDUIT / RACEWAY FROM NEAREST JUNCTION BOX. SEE INT. ELEVS. FOR ADD. INFO.
- PROVIDE PLASTER FINIGH COAT & AREA OF DEMO'ED PLASTER A11 INDICATED THIS AREA OF CEILING IN THICKNESS REQ'D TO ALIGN W/ ADJACENT EXIST. PLASTER. AT AREAS WHERE PLASTER BASE COAT & METAL LATH HAS BEEN REMOVED - ASSUME 5% OF AREA INDICATED - PROVIDE METAL LATH, PLASTER BASE COAT, BROWN COAT & FINISH COAT TO THICKNESS REQ'D. TO ALIGN WITH ADJACENT EXIST. PLASTER. FEATHER INTO EXIST. SOUND PLASTER, AND SAND. SEE TAG FOR APPROX. SF. RE-ATTACH EXIST. WD. TRIM. RE-ATTACH EXIST. DUCTWORK AND PIPING. RE-INSTALL WIRING / CONDUIT / RACEWAY FROM NEAREST JUNCTION BOX. SEE INT. ELEVS. FOR ADD. INFO.
- PROVIDE WOOD TRIM IN MATCHING SIZE, PROFILE AND FINISH WITH ADJACENT TRIM AT THIS LOCATION. MITER JOINTS. CLOSE ALL GAPS. SCRAPE, SAND TO 180 GRIT, PATCH HOLES & GAPS W/ PUTTY,
- PRIME & PAINT ALL <u>PREVIOUSLY PAINTED</u> WD. TRIM, WD. WINDOW SILLS, WD. BASE, & WD. DOORS. SCRAPE, PATCH, PRIME & PAINT ALL EXPOSED CONSTRUCTION ELEMENTS - SUCH AS PIPES, RACEWAY, RADIATORS, GRILLS, DIFFUSERS, CONDUIT, ETC. THIS ROOM, IN THEIR ENTIRETY. USE PRIMER & PAINT AS APPROPRIATE FOR SUBSTRATE MATERIAL SEE RFS & INT. ELEV'S. FOR ADD'L. INFO. & APPROX. TYP. CONFIG'S. SEE FIN. MATERIAL BD. FOR COLOR SCHEME.
- WORK AT EXIST., <u>PREVIOUSLY STAINED</u> WOOD WINDOW TRIM, PICTURE RAIL TRIM, DOOR TRIM, AND TACKBOARD/CHALKBOARD TRIM, THIS ROOM IN THEIR ENTIRETY, INCLUDING AT ALL ENDS:
- PATCH ALL HOLES WITH WOOD PUTTY.
 LIGHTLY SAND TO 180 GRIT ALL SIDES AND PREP.
- Indite to the grant all order and the training for proposed finish.
 Stain with opaque stain & finish W/ Clear.
- WATER-BASED POLYURETHANE.
 SEE INT. ELEVS. FOR APPROX. TYP. CONFIG.
 WORK AT EXISTING. PREVIOUSLY STAINED WOOD STORAGE
- WORK AT EXISTING, <u>PREVIOUSLY STAINED</u> WOOD STORAGE CABINET: • PATCH ALL HOLES WITH WOOD PUTTY. • LIGHTLY SAND ALL SURFACES EXPOSED TO VIEW TO 180 GRIT,
- LIGHTLY SAND ALL SURFACES EXPOSED TO VIEW TO 180 GRIT, INCL. INSIDE FACE OF SHELVING UNIT, & PREP. AS REQ'D. FOR PROPOSED FIN.
- REPAIR / REPLACE EXIST. ROLLER LATCHES @ ALL CAB. DRS AS REQ'D. TO MAKE OPERABLE. STAN ALL EXPOSED SUPPACES INCLUDING INSIDE FACE OF
- STAIN ALL EXPOSED SURFACES, INCLUDING INSIDE FACE OF SHELVING UNIT, W/ OPAQUE STAIN & FINISH W/ CLEAR WATER-BASED POLYURETHANE
- SEE All3 FOR APPROX. STORAGE CABINET CONFIG'S, AND ADD'L. INFO.
- INSTALL 3'-4" X I'-4" GLASS WHERE MISSING
 PROVIDE RUBBER TILE FOR ENTIRE ROOM AND PROVIDE QUARTER
 ROUND SHOE STAINED TO MATCH WOOD BASE AT LOCATIONS
 WHERE THE EXISTING BASE IS WOOD. PROVIDE RUBBER BASE
 WHERE EXIST. BASE WAS VINYL, SEE DETAILS 1, 2 & 3/A12.1 & RF.9.
- FOR ADD'L. REQ'S. PROVIDE 20 LF (UNLESS OTHER QUANTITY IS NOTED @ TARGET) WOOD TRIM INFILL, THIS ROOM, WHERE EXIST. TRIM IS DAMAGED OR MISSING, APPROX. SEVEN (1) LOCATIONS. TRIM INFILL MAY INCLUDE, BUT IS NOT LIMITED TO, PICTURE RAIL (APPROX. 8"H), CHAIR RAIL (APPROX. 3"H), BASE (APPROX 6"H), SHOE, WINDOW TRIM (APPROX. 4" - 12"), CHALKBD. / TACKBD. TRIM (APPROX. 4"H). MATCH EXIST. ADJACENT TRIM PROFILE AND FILL SEAMS WITH WOOD PUTTY. EXIST. TRIM IS ORNATE WITH VARIOUS BEADING AND
- MITERS, TYPICAL OF TRIM STYLES CIRCA 1900. SEE INT. ELEVS. FOR ADD. INFO. REFINISH EXIST. WOOD FLOOR, THIS ROOM, IN ITS ENTIRETY. REMOVE EXIST. RUBBER BASE OR WOOD SHOE. WOOD BASE TO REMAIN. SAND ENTIRE FLOOR, STAIN AND FINISH W/ WATER BASED
- POLYURETHANE FINISH, PROVIDE QUARTER ROUND SHOE WHERE WOOD FLOORS MEETS EXIST'G WD BASE, PROVIDE RUBBER BASE WHERE NO WOOD BASE PRESENT. SEE DETAILS 1, 2 & 3/A12.1, & RF.S. FOR ADD'L. REQ'S.
- PROVIDE LIGHTING FIXTURE. REFER TO ELEC. DRAWINGS FOR DETAILS.
- PROVIDE 12" X 12" ADHERED CEILING TILES ENTIRELY FOR THIS ROOM (UNLESS OTHER QUANTITY IS NOTED @ TARGET)
- A2) PAINT ADHERED CEILING TILES THIS ROOM IN ITS ENTIRETY.
- A22 EXHAUST VENT TO ROOF FOR WALK-IN COOLER
- COVER / PANEL AND PAINT
- PROVIDE ACRYLIC LENS COVERS FOR EXIST. LIGHTING FIXTURES. SEE FLOOR PLAN FOR SPECIFIC LOCATION AND NUMBERS





OILET CONSTRUCTION KET NOTES T1 PROVIDE WOOD TRIM THIS AREA TO MATCH ADJACENT SIMILAR TRIM IN PROFILE, TYPE, SIZE, STAIN / PAINT COLOR T2 PROVIDE 30"x48" LOCKABLE PAINTED STEEL ACCESS PANEL, FOR ACCESS TO PLUMBING CHAS COORDINATE LOCATIONS W PLUMBING DWG'S. AND PLUMBING SCOPE OF WORK T3 PROVIDE PLUMBING FIXTURE(S) - REFER TO PLUMBING DRWG'S. FOR ADD'L. REQ'S. T4 SCRAPE, PREP, PATCH EXISTING PLASTER CEILING AND TOP PORTION OF HALF HEIGHT WALLS, IF REMOVE EXISTING CERAMIC TILE / V.C.T. FLOORING IN ITS ENTIRETY DOWN TO SUBSTRATE. PATCH T5 INFILL SUBSTRATE AS REQ'D. PROVIDE CERAMIC TILE FLOORING AND BASE. PROVIDE THRESHO FLOORING MATERIAL CHANGES. T6 PROVIDE MIN. 5'-0"W. ADA COMPLIANT STALL INCLUDING GRAB BARS. COORDINATE W INTERIOR ELEVATIONS AND ADA SHEETS.	SE.
 T1 PROVIDE WOOD TRIM THIS AREA TO MATCH ADJACENT SIMILAR TRIM IN PROFILE, TYPE, SIZE, STAIN / PAINT COLOR T2 PROVIDE 30"x48" LOCKABLE PAINTED STEEL ACCESS PANEL, FOR ACCESS TO PLUMBING CHAS COORDINATE LOCATIONS W/ PLUMBING DWG'S. AND PLUMBING SCOPE OF WORK T3 PROVIDE PLUMBING FIXTURE(S) - REFER TO PLUMBING DRUG'S. FOR ADD'L. REQ'S. T4 SCRAPE, PREP, PATCH EXISTING PLASTER CEILING AND TOP PORTION OF HALF HEIGHT WALLS, IF REMOVE EXISTING CERAMIC TILE / V.C.T. FLOORING IN ITS ENTIRETY DOWN TO SUBSTRATE. PATCH 5. T6 PROVIDE MIN. 5'-@"W. ADA COMPLIANT STALL INCLUDING GRAB BARS. COORDINATE W/ INTERIOR ELEVATIONS AND ADA SHEETS. 	.SE.
 T2 PROVIDE 36"X45" LOCRADLE PAINTED STEEL ACCESS FANEL, FOR ACCESS TO FEMILIA CHARGES (COORDINATE LOCATIONS W/ PLUMBING DUG'S, AND PLUMBING SCOPE OF WORK T3 PROVIDE PLUMBING FIXTURE(S) - REFER TO PLUMBING DRUG'S, FOR ADD'L. REQ'S, T4 SCRAPE, PREP, PATCH EXISTING PLASTER CEILING AND TOP PORTION OF HALF HEIGHT WALLS, IF REMOVE EXISTING CERAMIC TILE / V.C.T. FLOORING IN ITS ENTIRETY DOWN TO SUBSTRATE. PATCH T5 INFILL SUBSTRATE AS REQ'D. PROVIDE CERAMIC TILE FLOORING AND BASE. PROVIDE THRESHOF FLOORING MATERIAL CHANGES. T6 PROVIDE MIN. 5'-@"W. ADA COMPLIANT STALL INCLUDING GRAB BARS. COORDINATE W/ INTERIOR ELEVATIONS AND ADA SHEETS. 	19E.
 SCRAPE, PREP, PATCH EXISTING PLASTER CEILING AND TOP PORTION OF HALF HEIGHT WALLS, II REMOVE EXISTING CERAMIC TILE / V.C.T. FLOORING IN ITS ENTIRETY DOWN TO SUBSTRATE. PATC T5 INFILL SUBSTRATE AS REQ'D. PROVIDE CERAMIC TILE FLOORING AND BASE. PROVIDE THRESHC FLOORING MATERIAL CHANGES. T6 PROVIDE MIN. 5'-@"W. ADA COMPLIANT STALL INCLUDING GRAB BARS. COORDINATE W/ INTERIOR ELEVATIONS AND ADA SHEETS. 	
REMOVE EXISTING CERAMIC TILE / V.C.T. FLOORING IN ITS ENTIRETY DOWN TO SUBSTRATE. PATC T5 INFILL SUBSTRATE AS REQ'D. PROVIDE CERAMIC TILE FLOORING AND BASE. PROVIDE THRESHC FLOORING MATERIAL CHANGES. T6 PROVIDE MIN. 5'-@"W. ADA COMPLIANT STALL INCLUDING GRAB BARS. COORDINATE W/ INTERIOR ELEVATIONS AND ADA SHEETS.	IF PRESENT.
T & FLOORING MALERIAL CHANGES. T & PROVIDE MIN. 5'-@"W. ADA COMPLIANT STALL INCLUDING GRAB BARS. COORDINATE W/ INTERIOR ELEVATIONS AND ADA SHEETS.	CH / IOLDS AT
X	
7> PROVIDE FLOOR DRAIN IN FLOOR/ REFER TO PLUMBING DRUG'S. FOR ADD'L. REQ'S.	oil schools
PROVIDE AMBULATORY MIN. 3'-@"W. STALLS INCLUDING GRAB BARS. COORDINATE W/ INTERIOR ELEVATIONS AND ADA SHEETS.	
OPROVIDE STALLS, PARTITIONS AND ALL PLUMBING ACCESSORIES THIS ROOM, MOUNTED AT ADA COMPLIANT HEIGHTS. COORDINATE W/ INTERIOR ELEVATIONS AND ADA SHEETS.	
10 PROVIDE WALL MOUNTED ELECTRICAL HEATER - REFER 10 ELECTRICAL DWGD. FOR ADD'L. REG	
REPAIR HOLES IN WOOD FRAME AND DOOR, SAND DOWN EXISTING DOOR AND FRAME INCLUDING 12 TRANSOM PROVIDE SOLID COLOR STAIN COLOR TO MATCH EXISTING, PROVIDE FOR BOTH SIE	G CORDOGAN, CLARK & ASSOCIATES INC
	WWW.cordoganclark.com A U R O R A C H I C A G 960 RIDGEWAY AVENUE 716 NORTH WELLS ST
13 REINSTALL SALVAGED WOOD WARTER ROUND ONCE WITH LOOK THE WALLS, TYP.	AURORA, ILLINOIS 60506 CHICAGO, ILLINOIS 60 TEL 630.896.4678 TEL 312.943.7 FAX 630.896.4987 FAX 312.943.4
REPAIR EXISTING WOOD TRIM. PREP AND PAINT ALL EXPOSED PREVIOUSLY PAINTED WOOD TRI	
$\begin{pmatrix} \\ \\ \\ \end{pmatrix}$ provide wood cap enclosure at top of wet wall chase, see details.	JINUI
PROVIDE EXHAUST FAN IN INSULATED PANEL INSTALLED IN WINDOW SASH, COORDINATE W/ WINDO SCHEDULE SHEET, WINDOW DETAILS 14 & 15/A12.4, ELEVATIONS AND MECHANICAL DWGS.	DOW SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS
REINSTALL FIXTURES, REFER TO PLUMBING DUGS.	PROVIDE ADRY LOR STAWF HERE
1) TEMP. REMOVE EXIST. RADIATOR TO SCRAPE & PAINT UNIT. SCRAPE AND PAINT WALL BEHIND UN THEN REINSTALL. TEMP CAP SYSTEM TO PERFORM WORK.	
PLUMBING ACCESSORY SCHEDULE	Ξ
S.S. PAPER TOWEL DISPENSER / TRASH S.S. GRAB BAR - 36", TYF RECEPTACLE (COMBO UNIT, S.S. TOILET PAPER	(P.
SEINI-RECESSEDDISPENSER, TYP6.5. HAND DRYERK	
LAY. W/ INSUL. PIPING, TYP. ***LHAND SOAPWATER CLOSET, TYP. ***	LAKE VIEW
FLOOR MTD. H.D.P.E. TOILET PARTITION (SEE SHEET 5/A12.2 FOR G (SEE NOTE *3 BELOW) (SEE NOTE *3 BELOW)	4015 NORTH ASHLAND AVENUE
URINAL, TYP. *** 3. S.S. GRAB BAR - 42", TYP.	CHICAGO, ILLINOIS 60613 PBC PROJECT #05095
	CPS PROJECT NO. 2016-46211-MCR
NOTES: 1. REFER TO ADA SHEETS FOR STANDARD MOUNTING REQ'S. RE: SIZES, CLEARANCES & MOUNTING LOCATIONS. 2. *** REFER TO PLUMB. DRUG'S. FOR PLUMB. FIXTURE TYPES 3. PROVIDE BLOCKING AND ANCHORAGE IN WALL AND ELECT. CONNECTIONS AS REQ'D. SEE DETAILS 3, 4/A12.2 AND ELECT. DRUG'S. FOR ADD'L. REQ'S.	NO. DATE DESCRIPTION - 2016-05.17 60% SUBMITTAL - 2016-06.14 60% RE-SUBMITTAL - 2017-02.14 75% SUBMITTAL
CONSTRUCTION KEY NOTES:	- 2017-03.02 TOUX SUBMITAL - 2017-03.07 PERMIT SET
PATCH, SCRAPE, PRIME, PAINT & FINISH ALL WALLS IN THEIR ENTIRETY, EXCEPT UN-PAINTED WOOD, A1 GLAZED BLOCK OR CERAMIC TILE ELEMENTS, W/ LOW OR NO YOC. PAINT - SEE RM. FIN. SCHED. FOR	- 2017-03.23 PRELIMINARY OTB SET - 2017-04.06 BID SET
ADD'L. REGS. TAPE OF EXIST. UN-PAINTED UD. TRIP AND OTHER SURFACE 111D. ELEMENTS TO REMAIN (NOT INCL. CONDUIT OR OTHER ITEMS THAT CAN BE PAINTED). PROVIDE CONST. CLEAN AND FINAL CLEAN, PROVIDE SEAL COAT ON FIN. FLOORING THIS ROOM IN ITS ENTIRETY. ALL EXPOSED SURFACES TO BE COMPLETELY FREE OF ANY DUST / DEBRIG.	1 2017-04.12 ADDENDUM #01
PREP. & PAINT ALL EXIST. PREVIOUSLY PAINTED WD. TRIM EXPOSED TO RM. VIEW (WHERE APPLICABLE), (A3) INCL. BUT NOT LIMITED TO: BASE, CHAIR RAIL, PICTURE RAIL, UPPER PICTURE RAIL, BUILT-IN CASEWORK	DRAWN BY: CCA
(INCL. SHELVING, DOORS, DRAWERS, ETC.) TO REMAIN & INIT & WINDOWS AND DOORS (INCL. SASHES, JAMBS, HEADS, STOPS, APRONS, SILLS, STOOLS, RAILS, MUNTINS, ETC.) THIS ROOM IN THEIR ENTIRETY. REMOVE POORLY ADHERED EXIST. PAINT, PREP. & PAINT W/ LOW OR NO VOC PAINT	SCALE: VARIES JOB: 15355
PROVIDE PLASTER FINISH COAT @ AREA OF DEMO'ED PLASTER INDICATED THIS AREA OF WALL IN 10 THICKNESS REQ'D TO ALIGN W/ ADJACENT EXIST. PLASTER AT AREAS WHERE PLASTER BASE COAT 4 METAL LATH HAS BEEN REMOVED - ASSUME 5% OF AREA INDICATED - PROVIDE METAL LATH. PLASTER	FILE:
BASE COAT, BROWN COAT & FINISH COAT TO THICKNESS REQ'D TO ALIGN WITH ADJACENT EXIST. PLASTER. FEATHER INTO EXIST SOUND PLASTER, AND SAND. SEE TAG FOR APPROX. SF. RE-ATTACH EXIST. WD. TRIM / BUILT-IN CHALK / TACK BD., RE-ATTACH EXIST. DUCTWORK AND PIPING. RE-INSTALL WIRING / CONDUIT / RACEWAY FROM NEAREST JUNCTION BOX. SEE INT. ELEVS. FOR ADD. INFO.	
SENERAL TOILET ROOM NOTES: . SCRAPE AND PAINT ALL EXPOSED CONDUIT & PIPING: IN TOILET ROOMS 2. ROD & SCOPE EXIST. FLOOR DRAINS FROM DRAIN TO MAIN SEWER CONNECTION IN ALL TOILET ROOMS	AREAS OF WORK: ENTIRE BUILDING EXTERIOR, ALL LEVELS AND ROOF KEY PL
	WARNING: ASBESTOS-CONTAININ BUILDING MATERIALS ARE OR MA
	ASBESTOS MANAGEMENT PLAN AVAILABLE IN THE SCHOOL F
	MAY DISTURB ASBESTOS-CONTAINI MATERIALS UNLESS THAT PERSON
NOTE:	A LICENSED ASBESTOS WORKER CONDUCTS SUCH WORK ACCORDANCE WITH SPECIFICATION
AOTE: ALL DIMENSIONS / ELEVATIONS INDICATED THIS SHEET ARE FOR REFERENCE AND ARE TO BE VERIEIED IN FIELD	CONTAINED IN THE PROJE
OTE: LL DIMENSIONS / ELEVATIONS INDICATED HIS SHEET ARE FOR REFERENCE AND RE TO BE VERIFIED IN FIELD.	DOCUMENTS AND IN COMPLIAN
OTE: ALL DIMENSIONS / ELEVATIONS INDICATED HIS SHEET ARE FOR REFERENCE AND ARE TO BE VERIFIED IN FIELD. WALL LEGEND	DOCUMENTS AND IN COMPLIAN WITH ILLINDIS DEPARTMENT HEALTH RULES AND REGULATIONS.
NOTE: ALL DIMENSIONS / ELEVATIONS INDICATED THIS SHEET ARE FOR REFERENCE AND ARE TO BE VERIFIED IN FIELD. WALL LEGEND EXISTING CONSTRUCTION TO REMAIN	DOCUMENTS AND IN COMPLIAN WITH ILLINDIS DEPARTMENT HEALTH RULES AND REGULATIONS.
OTE: LL DIMENSIONS / ELEVATIONS INDICATED HIS SHEET ARE FOR REFERENCE AND RE TO BE VERIFIED IN FIELD. WALL LEGEND EXISTING CONSTRUCTION TO REMAIN NEW CONSTRUCTION WALL	DOCUMENTS AND IN COMPLIAN WITH ILLINDIS DEPARTMENT HEALTH RULES AND REGULATIONS. INTERIOR ELEVATIONS
NOTE: ALL DIMENSIONS / ELEVATIONS INDICATED THIS SHEET ARE FOR REFERENCE AND ARE TO BE VERIFIED IN FIELD. WALL LEGEND EXISTING CONSTRUCTION TO REMAIN NEW CONSTRUCTION WALL	DICUMENTS AND IN COMPLIAN WITH ILLINDIS DEPARTMENT HEALTH RULES AND REGULATIONS. INTERIOR ELEVATIONS DRAWING NO.
NOTE: ALL DIMENSIONS / ELEVATIONS INDICATED THIS SHEET ARE FOR REFERENCE AND ARE TO BE VERIFIED IN FIELD. WALL LEGEND EXISTING CONSTRUCTION TO REMAIN NEW CONSTRUCTION WALL	DICUMENTS AND IN COMPLIAN WITH ILLINDIS DEPARTMENT HEALTH RULES AND REGULATIONS. INTERIOR ELEVATIONS DRAWING NO.



MECHANICAL COORDINATION NOTES

MECHANICAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADES INCLUDING BUT NOT NECESSARILY LIMITED TO THE FOLLOWING:

- 1. INDICATE THE PROPOSED LOCATIONS OF PIPING, DUCTWORK, EQUIPMENT, AND MATERIALS. INCLUDE THE FOLLOWING:
- A. DUCTWORK MAINS AND BRANCHES, SIZE AND LOCATION, FOR BOTH EXTERIOR AND INTERIOR; LOCATIONS OF DAMPERS AND OTHER CONTROL DEVICES: FILTERS, BOXES, AND TERMINAL UNITS REQUIRING PERIODIC MAINTENANCE OR REPAIR.
- B. MAINS AND BRANCHES OF ALL PIPING SYSTEMS, WITH VALVES AND CONTROL DEVICES LOCATED AND NUMBERED, UNIONS LOCATED, AND WITH ITEMS REQUIRING MAINTENANCE. INDICATE ACTUAL INVERTS AND HORIZONTAL LOCATIONS OF UNDERGROUND PIPING.
- C. EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), DIMENSIONED FROM PROMINENT BUILDING LINES.
- D. CLEARANCES FOR INSTALLING AND MAINTAINING INSULATION.
- E. CLEARANCES FOR SERVING AND MAINTAINING EQUIPMENT, INCLUDING TUBE REMOVAL, FILTER REMOVAL, ETC.
- F. EQUIPMENT CONNECTIONS AND SUPPORT DETAILS.
- G. EXTERIOR WALL AND FOUNDATION PENETRATIONS.
- H. FIRE-RATED WALL AND FLOOR PENETRATIONS.
- I. SIZES AND LOCATION OF REQUIRED CONCRETE PADS AND BASES.
- J. VALVE STEM MOVEMENT.

M2.2

M2.3

M2.4

M3.1

M3.3

M3.4

M4.1

M4.2

BASEMENT ENLARGED MECHANICAL PLANS

ENLARGED MECHANICAL PLANS

ENLARGED MECHANICAL PLANS

MECHANICAL SCHEDULES

-MECHANICAL SCHERULES

MECHANICAL SCHEDULES

MECHANICAL SCHEDULES

MECHANICAL DETAILS

STEAM BOILER SYSTEM

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- K. INDICATE LOCATION OF ALL EQUIPMENT, DUCTWORK, PIPING, ETC., WITH DIMENSIONS FROM PROMINENT BUILDING LINES; AND ELEVATIONS ABOVE CORRESPONDING FLOORS, ROOFS OR GRADE AS APPLICABLE.
- 2. INDICATE SCHEDULING, SEQUENCING, MOVEMENT, AND POSITIONING OF LARGE EQUIPMENT INTO THE BUILDING DURING CONSTRUCTION.
- 3. PREPARE FLOOR PLANS, ELEVATIONS, AND DETAILS TO INDICATE PENETRATIONS IN FLOORS, WALLS, AND CEILINGS AND THEIR RELATIONSHIP TO OTHER PENETRATIONS AND INSTALLATIONS.
- 4. PREPARE REFLECTED CEILING PLANS TO COORDINATE AND INTEGRATE INSTALLATIONS, DUCTWORK, LIGHT FIXTURES, PIPING, AND OTHER CEILING-MOUNTED ITEMS. DIMENSION ALL ITEMS FROM PROMINENT BUILDING LINES.
- 5. SUBMIT ALL COORDINATION DRAWINGS AND/OR SHOP DRAWINGS PRIOR TO PURCHASE, FABRICATION, OR INSTALLATION OF ANY EQUIPMENT. ANY WORK STARTED OR EQUIPMENT PURCHASED PRIOR TO THE REVIEW OF SUBMITTED DRAWINGS BY THE ARCHITECT/ENGINEER IS DONE AT THE CONTRACTOR'S RISK. THE OFFENDING CONTRACTOR SHALL BE ENTIRELY RESPONSIBLE FOR ALL CHANGES, MODIFICATIONS, AND/OR EXTRA SERVICES REQUIRED RESULTING FROM THE IMPROPER COORDINATION AND/OR IMPROPER SUBMITTAL PROCESS.
- 6. ENCIRCLE OR BUBBLE ANY REVISIONS MADE ON DRAWINGS BEING SUBMITTED MORE THAN ONE TIME. INDICATE ALL REVISIONS OR CHANGES MADE SUBSEQUENT TO THE PREVIOUS SUBMITTAL REVIEWED BY THE ARCHITECT/ENGINEER.

GENERAL NOTES ON STEAM TRAPS, DAMPERS, RADIATORS, & INSULATIONS

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$\left\{ \right\}$	1.	TAG AND TEST ALL STEAM TRAPS. PROVIDE ALLOWANCE TO REPLACE 40 TRAPS ON A TOTAL OF APPROXIMATELY 150. REPLACEMENT SHALL INCLUDE ISOLATION VALVES, BYPASS, AND STRAINER. PROVIDE SHOP DRAWINGS INDICATING WHICH TRAPS WILL BE REPLACED.										
	2.	ALL EXISTING DAMPERS (RETURN, BYPASS, OUTDOOR, ZONE) UNLESS OTHERWISE STATED AS TO BE REPLACED, SHALL BE CLEANED AND DEGREASED, SHAFTS AND LINKAGES LUBRICATED AND ADJUSTED. STRAIGHTEN BLADES AS REQUIRED AND EXERCISE DAMPERS TO OPERATE FROM FULL OPEN TO FULL CLOSE WITHOUT BINDING. PROVIDE SHOP DRAWINGS INDICATING WHICH DAMPERS WILL BE REPLACED.										
$\langle \rangle$	3.	3. INSTALL TEMPERATURE STAND-ALONE CONTROL VALVES, UNIONS, AND ISOLATION VALVES ON RADIATORS WITHOUT CONTROLS. PROVIDE ALLOWANCE TO INSTALL 60 CONTROL VALVES CORRIDORS AND CLASSROOMS INCLUDING THOSE SHOWN ON M1.1 THRU M1.3. PROVIDE SHOP DRAWINGS INDICATING WHICH CONTROL VALVES WILL BE REPLACED.										
$\left\langle \right\rangle$	4.	PROVIDE INSULATIONS ON PIPES WITH DAMAGED INSULATIONS. PROVIDE ALLOWANCE TO REPLACE 400 LF OF 6" STEAM AND CONDENSATE LINES. PROVIDE SHOP DRAWINGS INDICATING WHICH PIPES WILL BE PROVIDED WITH NEW INSULATION										
		SHEET INDEX										
		MO.0 MECHANICAL ABBREVIATIONS, SYMBOLS, AND NOTES M1.0 BASEMENT MECHANICAL REFERENCE PLAN										
		M1.1 FIRST FLOOR MECHANICAL REFERENCE PLAN M1.2 SECOND FLOOR MECHANICAL REFERENCE PLANS										
		M1.3 THIRD FLOOR MECHANICAL DEMOLITION PLAN										
		MD1.5 ROOF MECHANICAL DEMOLITION PLAN										
		M1.5 ROOF MECHANICAL PLAN										
		MD2.1 BASEMENT ENLARGED MECHANICAL DEMOLITION PLAN										
		MD2.2 DASEMENT ENLARGED MECHANICAL DEMOLITION PLANS										
		M2.1 BASEMENT ENLARGED MECHANICAL PLAN										

MECHANICAL NEW WORK GENERAL NOTES

- COMPLETION DATE OF THE PROJECT.
- ENERGY CODE.
- CONDITIONS, AND/OR AS SPECIFIED, WHEN INSTALLING THEIR WORK.
- AND/OR AS DIRECTED.
- HEIGHTS AND CLEARANCE FOR INSTALLING THEIR WORK.
- THEREFORE, SUBJECT TO PATCHING, REPAIRING, AND REFINISHING.
- MANAGER.
- FROM BUILDING STRUCTURAL MEMBERS ONLY.
- AND/OR DETAILED ON THE DRAWINGS.
- INSTALLED AROUND THE PIPE AND PIPE INSULATION.
- EQUIPMENT FOR OPERATION AND MAINTENANCE OF THE EQUIPMENT.
- THE CONTRACT DOCUMENTS.
- PROVIDED WITHOUT ADDITIONAL COST TO THE CONTRACT.
- FOR ALL ROOF MOUNTED EQUIPMENT.
- RE-SETTING THE FIRE DAMPER.
- DIVISION 09 OF THE SPECIFICATIONS FOR DETAILS.

GENERAL NOTES ON CONTROLS:

THEOMANO ACTORNO.
A. TEST ALL THE PNEUMATIC ACTUATORS AND REPLACE THE ACTUATORS IF ACTUATORS FAIL TO STROKE OPEN OR CLOSE. ALLOWANCE TO TEST 120 ACTUATORS. PROVIDE SHOP DRAWINGS INDICATING WHICH ACTUATORS WILL E REPLACED.
PNEUMATIC CONTROLS: 1. FLASH ALL THE PNEUMATIC LINES AND CLEAN WITH NITROGEN. PRESSURE TEST THE LINES. IDENTIFY AND FIX ALL PNEU LINE LEAKAGE. PROVIDE ALLOWANCE TO REPLACE 400 LINEAR FEET OF TUBING.
2. PROVIDE NEW SETPOINT CONTROLLER FOR ALL THE AIR-HANDLING UNITS. REPLACE COMPONENTS AS REQUIRED.
3. ADJUST START-STOP SETPOINTS IN EACH AIR-HANDLING UNIT CONTROL PANEL. CALIBRATE AS REQUIRED.

1. DRAWINGS ARE GENERALLY DIAGRAMMATIC. ROUTING OF PIPING AND DUCTWORK AS SHOWN, DOES NOT INTEND TO SHOW EVERY RISE, DROP, OFFSET, FITTING NOR EVERY STRUCTURAL ELEMENT THAT MAY BE ENCOUNTERED DURING THE INSTALLATION OF THIS WORK. EACH CONTRACTOR SHALL MAKE ANY REQUIRED CHANGES FROM THE GENERAL ROUTING SHOWN ON THESE DRAWINGS, SUCH AS OFFSETS, BENDS OR CHANGES IN ELEVATION DUE TO COORDINATION WITH THE WORK OF OTHER TRADES AND BUILDING CONSTRUCTION. ALL CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER OR DELAY IN

2. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST CODES AND ORDINANCES OF THE CITY OF CHICAGO, AS WELL AS THE LATEST OSHA, AND STATE REQUIREMENTS. VERIFY ALL REQUIREMENTS OF ALL GOVERNING BODIES. ALL WORK ALSO SHALL BE COMPLIANCE WITH CHICAGO

3. CONTRACTOR SHALL PROVIDE SLEEVES IN FLOORS AND WALLS AS SHOWN ON THE DRAWINGS, AS REQUIRED BY JOB SITE

4. THE SEQUENCE FOR THE INSTALLATION OF ALL WORK SHALL BE COORDINATED BETWEEN ALL CONTRACTORS ON THE PROJECT AND IN STRICT ACCORDANCE WITH CONSTRUCTION MANAGER AND OWNERS STIPULATION AS CALLED FOR IN THE SPECIFICATION

5. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, ELECTRICAL, PLUMBING, AND STRUCTURAL CONTRACT DOCUMENTS (BEFORE SUBMITTING THEIR BIDS) TO FAMILIARIZE THEMSELVES WITH THE EXTENT OF THE OTHER TRADES CONTRACTORS WORK, CEILING

6. CONTRACTOR SHALL BE RESPONSIBLE AND PAY FOR ALL CORING, CUTTING, PATCHING, REPAIRING AND REFINISHING OF BUILDING CONSTRUCTION REQUIRED TO ACCOMMODATE THE INSTALLATION OF THEIR WORK. (NOTE: FLOOR CUTTING AND PATCHING FOR NEW DUCTWORK AND ALL ROOF CUTTING AND PATCHING TO BE BY GENERAL CONTRACTOR.) ALL PATCHING, REPAIRING AND REFINISHING WORK SHALL BE PERFORMED BY THOSE REGULARLY INVOLVED IN THAT TRADE AND SHALL MATCH THE NEW CONSTRUCTION AS CLOSELY AS POSSIBLE. CARE SHALL BE TAKEN SO AS NOT TO DAMAGE ANY EXISTING BUILDING CONSTRUCTION OR ITEMS THAT ARE TO REMAIN. ANY EXISTING FINISHES THAT ARE DAMAGED DURING THE INSTALLATION OF NEW WORK SHALL BE REPAIRED, REPLACED AND PAID FOR BY THE INSTALLING CONTRACTOR, TO THE SATISFACTION OF THE ARCHITECT AND OWNER. REFER TO ARCHITECTURAL DRAWINGS FOR EXISTING BUILDING CONSTRUCTION THAT IS TO REMAIN AND,

7. CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR OWN CLEAN-UP DURING CONSTRUCTION. IF CONTRACTOR FAILS TO PROVIDE SUCH CLEAN-UP, THE ARCHITECT/ENGINEER WILL DIRECT ANOTHER CONTRACTOR TO PERFORM THE CLEAN-UP AND THE NEGLIGENT CONTRACTOR SHALL PAY THE ASSOCIATED BACK-CHARGES AS DEEMED APPROPRIATE BY THE CONSTRUCTION

8. CONTRACTOR SHALL INSTALL ALL AUXILIARY SUPPORTING STEEL AS REQUIRED FOR THE SUPPORTING OF THEIR PIPING, DUCTWORK, CONDUIT, TANKS, EQUIPMENT, ETC. ALL SUPPORTING STEEL FOR ITEMS ABOVE A SUSPENDED CEILING SHALL BE

9. ALL PIPING SHALL BE SUSPENDED WITH CLEVIS AND/OR TRAPEZE PIPE HANGERS. INSULATED PIPING SHALL REST ON STEEL OR WOOD. PIPE COVERING PROTECTION SADDLES OR SHEET METAL INSULATION SHIELDS AS CALLED FOR IN THE SPECIFICATIONS

10. BEFORE STARTING ANY SYSTEM INSTALLING CONTRACTOR SHALL CONTACT EQUIPMENT MANUFACTURER TO VERIFY THAT EACH PIECE OF EQUIPMENT OR SYSTEM HAS BEEN CHECKED FOR PROPER LUBRICATION, DRIVE ROTATION, BELT TENSION, CONTROL SEQUENCE OR OTHER CONDITIONS WHICH MAY CAUSE DAMAGE TO THE EQUIPMENT OR SYSTEM.

11. ALL PIPING PASSING THRU FLOOR CONSTRUCTION SHALL HAVE A SCHEDULE 40 STEEL PIPE SLEEVE INSTALLED AROUND PIPE ONLY. ALL PIPE PASSING THRU WALLS SHALL HAVE A GALVANIZED SHEET METAL OR SCHEDULE 40 STEEL PIPE SLEEVE

12. THE DRAWINGS, SCHEDULES AND SPECIFICATIONS HAVE BEEN PREPARED USING ONE MANUFACTURER FOR EACH PIECE OF EQUIPMENT AS THE BASIS FOR DIMENSIONAL DESIGN. IF THE CONTRACTOR PURCHASES EQUIPMENT LISTED AS A SPECIFIED ACCEPTABLE MANUFACTURER BUT IS NOT THE SCHEDULED MANUFACTURER USED FOR THE BASE DESIGN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING ALL THE DIMENSIONS OF THE EQUIPMENT TO VERIFY THAT IT WILL FIT IN THE SPACE SHOWN ON THE DRAWINGS. MINOR DEVIATIONS IN DIMENSIONS WILL BE PERMITTED, PROVIDED THE RATINGS MEET THOSE SHOWN ON THE DRAWINGS AND EQUIPMENT WILL PHYSICALLY FIT INTO THE SPACE ALLOCATED WITH REQUIRED ACCESS AROUND

13. THE ACCESSORIES OR DEVICES REASONABLY INFERABLE AS NECESSARY, TO THE COMPLETE AND PROPER INSTALLATION AND OPERATION OF ANY SYSTEM SHALL BE PROVIDED BY CONTRACTOR WHETHER OR NOT THEY ARE SPECIFICALLY CALLED FOR IN

14. ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS UNLESS NOTED OTHERWISE. ALL PIPING, VALVES, CONNECTIONS, DEVICES RECOMMENDED BY MANUFACTURER OR REQUIRED FOR PROPER OPERATION SHALL BE

15. PROVIDE CONCRETE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED EQUIPMENT. PROVIDE ROOF CURBS (14 INCHES HIGH MIN.)

16. PROVIDE FIRE DAMPERS IN ALL DUCTWORK CROSSING A FIRE RATED WALL/SLAB. PROVIDE DUCT ACCESS DOOR FOR

17. CONTRACTOR SHALL PERFORM ALL CUTTING, PATCHING, AND PAINTING AS REQUIRED TO COMPLETE THE WORK.

18. CONTRACTOR SHALL PERFORM ALL CUTTING, PATCHING, AND PAINTING AS REQUIRED TO COMPLETE THE WORK. REFER TO

19. PROVIDE SMOKE DETECTORS IN RETURN AIR DUCT OR PLENUM UPSTREAM OF ANY FILTERS, EXHAUST AIR CONNECTIONS, OUTDOOR AIR CONNECTIONS. OR DECONTAMINATION EQUIPMENT AND APPLIANCES

> ID REPLACE THE ACTUATORS IF ACTUATORS FAIL TO STROKE OPEN OR CLOSE. PROVIDE $\sqrt{1/2}$ PROVIDE SHOP DRAWINGS INDICATING WHICH ACTUATORS WILL BE





1. ALL DIMENSIONS ARE TO BE VERIFIED IN FIELD.

KEYED NOTES:

- DISCONNECT, REMOVE, AND DISPOSE OFFSITE EXISTING GAS-FIRED BURNER INCLUDING ASSOCIATED AIR COMPRESSOR, GAS TRAIN, ALL CONTROLS, ELECTRICAL DEVICES, AND ELECTRICAL CONNECTIONS. EXISTING BOILERS SHALL REMAIN BUT STEAM OPERATING PRESSURE CURRENTLY AT AS DOL WILL DE DEPUGES TO BOILERS SHALL REMAIN BUT STEAM OPERATING PRESSURE CURRENTLY AT 25 PSI WILL BE REDUCED TO 8 PSI.
- 2 DISCONNECT, REMOVE, AND DISPOSE OFFSITE EXISTING BOILER NOZZLE AND REPLACE WITH 12"Ø BOILER NOZZLE. WORK SHALL BE DONE BY UNION BOILER MAKERS, CERTIFIED AND AUTHORIZED BY HARTFORD INSURANCE COMPANY TO WORK ON PRESSURE VESSELS. EXISTING BOILERS ARE 3-PASS DRYBACK SUPERIOR SCOTCH MARINE MODEL 4-5-1758. PROVIDE HYDROSTATIC TEST UPON COMPLETION OF BOILER MODIFICATION.
- 3 DISCONNECT, REMOVE, AND DISPOSE OFFSITE EXISTING STEAM HEADER INCLUDING ASSOCIATED STEAM TRAPS, VALVES, ACCESSORIES, AND INSULATION.
- 4 DISCONNECT, REMOVE, AND DISPOSE OFFSITE EXISTING BOILER TRIMS INCLUDING PUMP CONTROLLER, LOW AND HIGH WATER-LEVEL CUT OFF DEVICES, ASSOCIATED PIPING, CONTROL WIRING TO FIELD-MOUNTED ELECTRICAL DEVICES.
- 5 DISCONNECT, REMOVE, AND DISPOSE OFFSITE EXISTING BOILER PRESSURE SAFETY VALVES, INCLUDING ASSOCIATED PIPING.
- 6 DISCONNECT, REMOVE, AND DISPOSE OFFSITE EXISTING BOILER SHEET METAL JACKET AND INSULATION. EXISTING BOILERS ARE 3-PASS DRYBACK SUPERIOR SCOTCH MARINE MODEL 4-5-1758.
- $\overline{7}$ existing isolation value on steam header shall remain. Repack gland packing. VI.F. exact value sizes.
- 8 REPLACE BOILER TUBES THAT ARE APPROACHING 50% WALL LOSS. PRESSURE WASH WATERSIDE AND CLEAN FIRESIDE OF BOILER TO FREE OF SCALES. REMOVE ALL DEBRIS AND SEDIMENTS FROM THE BOILER. REPAIR ANY REFRACTORY CRACKING. PRESSURE TEST THE TUBES AFTER CLEANING. REPLACE MINIMUM OF 7 TUBES PER BOILER. SEE NOTE 4.
- 9 CLEAN EXISTING DAMPERS, LUBRICATE SHAFTS AND LINKAGES, ADJUST LINKAGES AND DAMPER BLADES. ALL DAMPERS SHALL BE EXERCISE TO OPERATE WITHOUT BINDING FROM FULL OPEN TO FULL CLOSE POSITION.
- (10) REFURBISH EXISTING BASE-MOUNTED END SUCTION, CLOSED-COUPLED BOILER FEEDWATER PUMPS BY (1) REPLACEMENT OF SEALS. ADJUST PUMP DISCHARGE PRESSURE FOR LOW-PRESSURE (8 PSI) BOILER APPLICATION. (TYPICAL FOR 2) (.....





1. ALL DIMENSIONS ARE TO BE VERIFIED IN FIELD. 2. REFER TO MD2.1 FOR ALL EQUIPMENT-REFURBISHMENT WORK.

KEYED NOTES:

- 1 PROVIDE NEW 350-BHP GAS-FIRED BURNER INCLUDING ASSOCIATED GAS TRAIN, ALL CONTROLS, ELECTRICAL DEVICES, AND ELECTRICAL CONNECTIONS. (TYPICAL FOR 2 BOILERS). CONNECT NEW GAS TRAIN TO GAS PIPES FROM EXISTING GAS BOOSTER. NEW BOILERS SHALL OPERATE AT 8 PSI. PROVIDE NEW HEAT-TIMER BOILER CONTROLLERS. SEE M4.2.
- 2 PROVIDE NEW STEAM PIPING FROM BUILER OUTLETS INCLUDING THE STEAM HEADER TO EXISTING DISTRIBUTION LINE SHUT-OFF VALVES, PROVIDE STEAM HEADER WITH 8"Ø DRIP LEGS, STEAM TRAPS, INSULATION, AND ACCESSORIES PROVIDE PIPING FROM TRAPS AND ROUTE TO [E]CONDENSATE (TANK. \sim
- PROVIDE NEW BOILER TRIMS INCLUDING PUMP CONTROLLER, LOW AND HIGH WATER-LEVEL CUT OFF DEVICES, GASKETS, AND ASSOCIATED PIPING, $\langle 3 \rangle$ CONTROL WIRING TO FIELD-MOUNTED ELECTRICAL DEVICES. (TYPICAL FOR 2 BOILERS).
- 4 PROVIDE NEW BOILER PRESSURE SAFETY VALVES FOR EACH BOILER AND RUN NEW PIPING (FULL SIZE) TO DRAIN. (TYPICAL FOR 2 BOILERS).
- 5 provide new boiler sheet metal jacket and insulation. (Typical for 2 boilers).
- 6 RUN NEW WIRING FROM EMERGENCY SHUT-OFF SWITCHES TO NEW BOILERS. PROVIDE NEW CEILING-MOUNTED HEAT DETECTORS AND WIRE TO NEW CONTROL CIRCUITS TO BOILERS.
- 7 PROVIDE CARBON MONOXIDE DETECTOR. NIGHTHAWK MODEL 5U747 OR APPROVED EQUAL, 120V AC PLUG-IN TYPE WITH 9V DC BATTERY BACKUP.
- 8 PROVIDE NEW BASE-MOUNTED, END SUCTION, CLOSED-COUPLED FEEDWATER PUMP IN PARALLEL WITH EXISTING PUMPS, INCLUDING ALL ASSOCIATED PIPES, FITTINGS, AND ACCESSORIES, AND CONTROL PANEL. PUMP AND VALVES SHALL BE OPERATED MANUALLY.
- 9 EXISTING COMBUSTION AIR DAMPER SHALL BE CLEANED AND DEGREASED. BLADES AND LINKAGES SHALL BE LUBRICATED AND ADJUSTED. EXERCISE DAMPERS TO OPERATE WITHOUT BINDING FROM FULL OPEN TO FULL CLOSE, RE-CONNECT ACTUATOR TO BOILER CONTROLS. $\overline{}$





—(F)

ALL DIMENSIONS ARE TO BE VERIFIED IN FIELD.
 REFER TO MD2.2 AND MD2.3 FOR ALL EQUIPMENT-REFURBISHMENT WORK.

KEYED NOTES:

- 1 PROVIDE NEW STEAM LINE TO RECONNECT THE EXISTING STEAM LINES DUE TO REMOVED STEAM PRESSURE REDUCING VALVE. PROVIDE ALL ASSOCIATED PIPES, FITTINGS, ACCESSORIES, AND INSULATION.
- PROVIDE NEW NON-FREEZE PREHEAT STEAM COILS AND REHEAT STEAM COILS, INCLUDING ALL ASSOCIATED STEAM AND CONDENSATE PIPES (TO EXISTING CONDENSATE PUMP), FITTINGS, VALVES, TRAPS, ACCESSORIES, CONTROLS, (PNEUMATIC MOUDLATING) CONTROL VALVES, HANGERS, AND SUPPORTS. RECONFIGURE STEAM AND CONDENSATE LINES AND TRAPS AS REQUIRED FROM REMOVED PRV TO EXISTING CONDENSATE PUMP. ALL COILS SHALL BE OF COPPER TUBE AND ALUMINUM FIN TYPE, AND CONTROL VALVES SHALL BE OF MODULATING, NORMALLY-OPEN TYPE, PNEUMATIC ACTUATORS (WITH TRANSDUCERS). CONNECT TO BAS. REUSE EXISTING COIL SUPPORT.
- 3 PROVIDE NEW OUTDOOR AIR DAMPER, INCLUDING ALL ASSOCIATED DAMPER ACTUATORS.
- 4 PROVIDE NEW BYPASS DAMPERS INCLUDING ASSOCIATED DAMPER ACTUATORS. CONNECT TO EXISTING CONTROLS.
- $\overline{(5)}$ provide New 2 inch thick air filters.
- 5A PROVIDE NEW FILTER RACK FOR 2 INCH THICK AIR FILTERS. NEW RACK SHALL BE FLOOR-MOUNTED LOCATED UPSTREAM OF FAN(S).
- 6 REPLACE BOTTOM 12" OF AHU CASING WITH SAME THICKNESS METAL AS EXISTING CASING.
- 7 TEST AND BALANCE AIR HANDLING UNIT AFTER INSTALLATION OF NEW COILS 1/2 AND FILTERS. ALL AIR SYSTEMS, INCLUDING EXHAUST FANS, SHALL BE BALANCED. PROVIDE FINAL TAB RESULTS TO AOR.
- 8 PROVIDE NEW FREEZE-STATS HARDWIRED TO SHUT OFF AHU FAN AND CLOSE OA DAMPERS WHEN MIXED AIR TEMPERATURE DROPS TO 35°F (ADJ.). PROVIDE SMOKE DETECTORS IN EACH SUPPLY PLENUM HARDWIRED TO SHUT OFF AHU FAN AND SEND SIGNAL TO FIRE ALARM PANEL. COORDINATE WITH E.C.
- PROVIDE NEW EXHAUST FAN ON REMOVED WINDOW PANE (SEE ARCH. DWGS.) FAN SHALL BE CONTROLLED BY A COOLING-TYPE THERMOSTAT AND INTERLOCKED WITH A MOTORIZED DAMPER IN TRANSFER DUCT AT CORRIDOR WALL. TRANSFER DUCT SHALL INCLUDE GRILLE AT CORRIDOR WALL, MOTORIZED DAMPER, FIRE DAMPER DAMPER, AND ANOTHER GRILLE INSIDE THE ROOM.)



1. ALL DIMENSIONS ARE TO BE VERIFIED IN FIELD.

KEYED NEW WORK NOTES:

1 PROVIDE NEW WALL-MOUNTED EXHAUST FAN WITH GRAVITY DAMPER. ENLARGE EXISTING OPENING TO ACCOMMODATE NEW FAN AND PROVIDE NEW STAINLESS LINTEL AS REQUIRED. PROVIDE ALL FLASHINGS, WEEPS, AND REBUILT BRICK MASONRY AS REQUIRED.









 $\langle 1R \rangle$ DISCONNECT, REMOVE, AND DISPOSE OFFSITE EXISTING EXHAUST FAN INCLUDING GRAVITY DAMPER. $\langle 2R \rangle$ disconnect, remove, and dispose offsite existing electric wall-mounted unit heater.

	OGAN, CLA	RK & ASSOCIATES INC.
A U R 960 RIDGE	ARCHITECT www.	Cordoganclark.com C H I C A G O 716 NORTH WELLS STREET CHICAGO, ULINOIS 60654
FAX 6	SINGH + ASSOC	TATES, INC. NGINEERS
LAKE HIGH 4015 M CHICAG	VIEW SCHOOL NORTH ASHL O, ILLINOIS	AND AVENUE 60613 6-46211-MCR
	R	EVISIONS
NO. - - - -	DATE 2016.04.19 2016.06.14 2017.02.14 2017.03.02	DESCRIPTION 30% SUBMITTAL 60% SUBMITTAL 75% SUBMITTAL 100% SUBMITTAL
-	2017.03.07 2017.03.23	PERMIT SET PRELIMINARY OTB SET
$\frac{-}{2}$	2017.04.04 2017.04.12 2017.04.21	ADDENDUM #1
DRAWN SCALE:	BY: FT 1/	/8"=1'-0"
JOB: FILE:	M2	2.2
AR		ASHLAND AVE.
WC EX AN WARN BUILD BE PI ASBES AVAIL REVIE MATER A LIC CONDU ACCOR CONTA DOCUN WITH HEAL	ING: ALL ID ROOF ING: ALL ID ROOF ING MATE RESENT II STOS MAI LABLE IN EW UPON DISTURB A STALS UNL CENSED A JCTS S ALALS UNL CENSED A JCTS S ALNED I MENTS A ILLINDI TH RULES	LEVELS NEEVELS KEY PLAN ASBESTOS-CONTAINING ERIALS ARE OR MAY N THIS BUILDING. AN NAGEMENT PLAN IS I THE SCHOOL FOR REQUEST. NO PERSON ASBESTOS-CONTAINING ESS THAT PERSON IS SBESTOS WORKER OR SUCH WORK IN ITH SPECIFICATION(S) IN THE PROJECT ND IN COMPLIANCE S DEPARTMENT OF AND REGULATIONS.
M	IECHAN	AWING NO.
	M	2.3

<u>NOTES:</u>

THE SCOPE OF WORK IN THIS PROJECT INCLUDES REPLACEMENT OF LEAKING COILS IN SOME EXISTING AIR-HANDLING UNITS. FANS IN THE EXISTING SHALL REMAIN.

EXISTING SUPPLY & RETURN CFM TO ROOMS SHALL REMAIN AS IS UNLESS OTHERWISE STATED.

	VENTILATION SCHEDULE																	
ROOM	No.	POOM			ORDIN	ANCE F	REQUIREN	IENTS				ACTUAL	PROVIDED			EQUIF	MENT	
	ROOM NAME PURPOSE AREA		NATURAL VENTII	NATURAL LIGHT & VENTILATION		MECHANICAL VENTILATION		(RO) Relief Openings		NATURAL LIGHT & VENTILATION		MECHANICAL VENTILATION		Relief nings	SUPPLY	EXHAUST	REMARKS	
	(Plan)	(per Table 403.3)	sq.rt.	Glass sq.ft.	Vent sq.ft.	Supply CFM	Exhaust CFM	Volume (CFM)	Area of Duct (SF)	Glass sq.ft.	Vent sq.ft.	Supply CFM	Exhaust CFM	Volume (CFM)	Area of Duct (SF)	FAN	FAN	
010C	DRY STORAGE	STORAGE – INACTIVE	105	0	0	NR	NR	0	0	0	0	0	0	0	0			
010D.1	W. STAFF TOILET	TOILET ROOM	105	4	2	NR	210	0	0	0	0	0	210	0	0	[E]AHU-7	[E]EF	
011	STORAGE	STORAGE – INACTIVE	125	0	0	NR	NR	0	0	0	0	0	0	0	0			
011B	ELECTRICAL ROOM	STORAGE – INACTIVE	318	0	0	NR	NR	0	0	0	E	0	0	0	0			
030	TOILET	TOILET ROOM	53	2	1	NR	106	0	0	0	E	0	110	0	0	[E]AHU-5	[E]EF	
030A	STAFF LOUNGE	LOUNGE	217	9	5	217	326	0	0	0	E	350	350	0	0	[E]AHU-7	[E]EF	
030B	COOLERS	STORAGE – INACTIVE	440	0	0	NR	NR	0	0	0	0	0	110	0	0	[E]AHU-5	EF-6; EF-7	
116	GYMNASIUM	GYMNASIUM	5,901	236	118	11,802	8,852	0	0	0	0	11,900	11,900	0	0	[E]AHU-4	[E]EF	
100C	STAFF & UNISEX TOILET	TOILET ROOM	194	8	4	NR	388	0	0	0	0	0	400	0	0	[E]AHU-1	TEF-4	
100E	WOMEN STAFF TOILET	TOILET ROOM	132	5	3	NR	264	0	0	0	0	0	300	0	0	[E]AHU-3	TEF-5	
1001	GIRL'S STUDENT TOILET	TOILET ROOM	232	9	5	NR	464	0	0	0	0	0	500	0	0	[E]AHU-3	TEF-1	
100J	STAFF TOILET	TOILET ROOM	31	1	1	NR	62	0	0	0	0	0	65	0	0	[E]AHU-7	[E]TEF	
200C	STAFF TOILET	TOILET ROOM	31	1	1	NR	62	0	0	0	0	0	65	0	0	[E]AHU-7	[E]TEF	
200J	BOY'S STUDENT TOILET	TOILET ROOM	232	9	5	NR	464	0	0	0	0	0	500	0	0	[E]AHU-3	TEF-2	
200N	MEN STAFF TOILET	TOILET ROOM	186	7	4	NR	372	0	0	0	0	0	400	0	0	[E]AHU-1	TEF-4	
300C	GIRLS' TOILET	TOILET ROOM	211	8	4	NR	422	0	0	0	0	0	450	0	0	[E]AHU-1	TEF-4	
300G	STAFF & UNISEX TOILET	TOILET ROOM	232	9	5	NR	464	0	0	0	0	0	500	0	0	[E]AHU-3	TEF-3	
3001	STAFF TOILET	TOILET ROOM	33	1	1	NR	66	0	0	0	0	0	70	0	0	[E]AHU-7	[E]TEF	

I certify that I am a Registered Energy Professional (REP). I also certify	BUILDING
for	Total Ordinance Required Outside
	Total Actual Continuous Exhaust
Address: 4015 N. ASHLAND AVENUE, CHICAGO, IL 60613	Note: This table is to show conformity
fully comply with the requirements of Chapter 18—13. Energy Conservation of the Municipal Code of Chicago as effective April 22, 2009 as well as the State of Illinois Energy Conservation code as required by State legislation.	
The	
Signed: $\sqrt{21/2017}$ Date: $4/21/2017$	WALL
	ROOF
MUMMANANANANANANANANANANANANANANANANANAN	VENTILATION LOAD
Illinois License Number: 062-047603	TOTAL:
	HEATING SYSTEM
COF ILLing	BOILERS
As for the second secon	
EXPIRES 11/30/2017	HEATING SYSTEM
	BOILERS

PORTION OF THE CODE).

Faz SIGNED: _____7

ING PRESSURIZATION TABLE	
Dutside Air (CFM)	44,000
haust (CFM)	44,000
formity to Section 18-28-501.4.	

HEATING TABLE		
LOAD:	(MBH)	
	998,480	
	945,216	
	522,720	
LOAD (MBH)	3,801,600	
	6,266,016	
SYSTEM OUTPUT:	(MBH)	
	11,810,750	
SYSTEM INPUT:	(MBH)	
	14,810,750	

HEATING CERTIFICATION STATEMENT

I HEREBY CERTIFY THAT THE HEATING SYSTEM WILL HEAT ALL ROOMS REGULARLY OCCUPIED BY HUMANS TO AN INSIDE TEMPERATURE OF 68° WHEN THE OUTSIDE TEMPERATURE IS MINUS 10° F (AS REQUIRED BY THE SECTIONS 34(13-196-410) AND 4(5-4-270) OF THE 2002 CHICAGO BUILDING CODE AND BY PARAGRAPH 1204.1 OF CHAPTER 18-12 (INTERIOR ENVIRONMENT) OF THE PROPOSED BUILDING PLANNING AND LIFE SAFETY

OWNER, CONTRACTOR OR OWNER'S LICENSED ENGINEER REPRESENTATIVE.

	STEAM COIL SCHEDULE														
TAG	LOCATION	SERVICE	STEAM [PSI]	DESIGN FLOW RATE [CFM]	WIDTH (IN)	LENGTH (IN)	FACE VEL [FPM]	MIN. CAP. [MBH]	STEAM [LBS/HR]	EAT °F	LAT °F	COIL SIZE	MAX. APD [in wg]	REMARKS	
PHC-2	BASEMENT	AHU-2	8	13,200	120	72	220	1,089.0	1,139.0	-10.0	65.0	12'-0 x 6'-0	0.2	1, 2, 3	
PHC-3A	BASEMENT	AHU-3	8	11,100	68	72	326	915.8	958.0	-10.0	65.0	5'-8 x 6'-0	0.2	1, 2, 3	
PHC-3B	BASEMENT	AHU-3	8	22,150	138	84	275	1,827.4	1,912.0	-10.0	65.0	11'-6 x 7'-0	0.2	1, 2, 3	
PHC-4	BASEMENT	AHU-4	8	40,350	\wedge ¹⁴⁴	96	420	3,328.9	3,483.0	∕∑ ^{10.0}	65.0	12'-0 x 8'-0	0.2	1, 2, 3	
PHC-7	BASEMENT	AHU-7	8	(21,360)	²¹ 120	72	356	1,762.2	1,844.0	<u>2</u> 10.0	65.0	10'-0 x 6'-0	0.2	1, 2, 3	
RHC-2	BASEMENT	AHU-2	8	13,200	120	72	220	798.6	836.0	65.0	120.0	12'-0 x 6'-0	0.2	1, 2, 3	
RHC-3A	BASEMENT	AHU-3	8	11,100	68	72	326	671.6	703.0	65.0	120.0	5'-8 x 6'-0	0.2	1, 2, 3	
RHC-3B	BASEMENT	AHU-3	8	22,150	138	84	275	1,340.1	1,402.0	65.0	120.0	11'-6 x 7'-0	0.2	1, 2, 3	
RHC-4	BASEMENT	AHU-4	8	40,350	\wedge ¹⁴⁴	96	420	2,441.2	2,554.0	A ^{65.0}	120.0	12'-0 x 8'-0	0.2	1, 2, 3	
RHC-7	BASEMENT	AHU-7	8	(21,360)	²¹ 120	72	356	1,292.3	1,352.0	2) 65.0	120.0	10'-0 x 6'-0	0.2	1, 2, 3	
NOTES:									_						

1. FINS & TUBES NON-FREEZE COILS.

2. BLANK-OFF WITH SHEET METAL AREAS NOT COVERED BY COILS. 3. PROVIDE NECESSARY COILS SUPPORTS AS REQUIRED.

	AIR FILTER SCHEDULE																
THO	SERVICE	LOCATION	MIN.	FFF %	FIL	_TER TYPE		FACE	FACE		FILTER ASSY			P.D. (IN.WG.)	MANUFACTURER /	
TAG			CFM	(MERV)	CARTAGE	PLATE	BAG	AREA SQ.FT.	FPM	QTY	H [IN]	W [IN]	D [IN]	CLEAN	DIRTY	MODEL	REMARKS
_	AHU-1	BASEMENT	12,420	8.0		YES		28.0	444	7	24	24	2	0.1	0.3	FARR	1, 2
_	AHU-2	BASEMENT	13,200	8.0		YES		60.0	220	15	24	24	2	0.1	0.3	FARR	1, 2
Ι	AHU-3	BASEMENT	33,250	8.0		YES		80.0	416	20	24	24	2	0.1	0.3	FARR	1, 2
Ι	AHU-4	BASEMENT	40,350	8.0		YES		80.0	504	20	24	24	2	0.1	0.3	FARR	1, 2
_	AHU-5	BASEMENT	19,500	8.0		YES		48.0	406	12	24 ^	24	2	0.1	0.3	FARR	1, 2
_	AHU-6	BASEMENT	13,000	<u>/2\</u> 8.0		YES		32.0	406	8	<u>/2\</u> }24	24	2	0.1	0.3	FARR	1, 2, 3
_	AHU-7	BASEMENT	21,360	8.0		YES		100.0	214	25	} ₂₄	24	2	0.1	0.3	FARR	1, 2
NOTES:							\sim	\sim	\sim	\sim	\sim	\sim	\sim				

1. PROVIDE FRONT ACCESS FILTER FRAMES. 2. REFER TO DETAILS AND SPECS.

	ELECTRIC WALL HEATER SCHEDULE											
TAG	LOCATION	SERVICE	MIN.		ELECTRICAL DATA			CONTROL		wт		
			CAP (MBH)	MIN. kW	VOLT	PH	ΗZ	(THERMOSTAT)	AND STYLE	(LBS)	MODEL NUMBER	REMARKS
EWH-1	TOILET	TOILET	5118	1.125	208	3	60	INTEGRAL	WALL	210	INDEECO EWI / 935U01500V-T	1, 2
NOTES:												
1.	1. UNIT SHALL COMPLETE WITH THERMAL LIMIT SWITCH WITH AUTOMATIC RESET AND BUILT-IN THERMOSTAT.											
0												

2. PROVIDE WITH DISCONNECT SWITCH.

3. PROVIDE NEW CEILING FILTER RACK.





SCALE: NONE

RECEPTACLE/LIGHTING/EQUIPMENT BRANCH WIRE SIZING SCHEDULE

TABLES ARE BASED ON EVENLY DISTRIBUTIED LOAD ALLOWING A 3% VOLTAGE AT LAST OUTLET (APPLY ACCORDINGLY).



	GENERAL NOTES	GENER
	 EXISTING FIRE ALARM DEVICES AND OTHER LOW VOLTAGE EQUIPMENT SHALL REMAIN IN ROOMS WITH ELECTICAL EQUIPMENT BEING DEMOLISHED. CONTRACTOR SHALL PROTECT AND/OR RELOCATE DEVICES IF REQUIRED BY DEMOLITION SCOPE. IN AN AREA WHERE LICHTING FIXTURES. UNIT HEATERS, MOTORS, ETC., ARE BEING REPLACED. DISCONNECT THE WIRING TO THE EXISTING EQUIPMENT, DEMOLISH THE FIXTURES AND EXTEND NEW WIRING TO THE NEW EQUIPMENT, KEEPING THE EXISTING HOME NUW WIRING BACK TO THE PARKEDOARD IF THE EXISTING WIRING IS OF SUITABLE CONDITION TO BE RE-USED. NOTE THAT EXISTING CICH WIRE IS NOT SUITABLE FOR RE-USE. IF THE EXISTING WIRING IS CLOTH WIRING SO THAT PROPER ACTION OF TESTING AND DEMOLISHING IT CAN BE UNDERTRACH. PROVIDE CONTRACTOR SHALL NOT CONNECT TO IT, BUT AUXISE OF SO THE DETAILS OF SULCH WIRING SO THAT PROPER ACTION OF TESTING AND DEMOLISHING IT CAN BE UNDERTRACH. PROVIDE AN ALLOWANCE OF 2000 FEET OF CONDULT ADVISE OF SO THE DETAILS OF SULCH WIRING SO THAT PROPER ACTION OF TESTING AND DEMOLISHING IT CAN BE UNDERTRACH. PROVIDE AN ALLOWANCE OF 2000 FEET OF CONDULT ADVISE OF SO THE DETAILS OF SULCH WIRING SO THAT PROPER ACTION OF THE WORK ON DEMOLISHING IT CAN BE UNDERTRACH. PROVIDE AN ALLOWANCE OF 2000 FEET OF CONDULT ADVISE OF SO THE DETAILS OF SULCH TO PARELS AC-1S, AC-2N, AC-2S AND AC-3S. SEE PANEL SCHEDULES ON DRAWING E4.3. ALL ELECTRICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND ALL OTHER DRAWINGS RELATED TO THE VERFORMANCE OF THE WORK. THE CONTRACT RESPONSIBLE FOR THE EXECUTIONS OF THIS CONTRACT REQUIRAENTS NAD DURING THE THE AND GRAW OF MATERIAS TO BE INSTALLED, TOROUGHLY FAMILIAR WITH THE PROJECT SPECIFICATIONS BEFORE COMMENCING ANY WORK. THE PROJECT SPECIFICATIONS AND DRAWINGS FORM THE DESIGN OF THIS CONTRACT REQUIRAENTS NAD DURING THE AND DRAWING FORM THE PROJECT SPECIFICATIONS AND DRAWINGS, SPECIFICATIONS AND DRAWING SPECIFICATION RAWINGS AND SPECIFICATIONS THAT ARE PART OF THE REXELED TO DE INSTALLED AND WERKE TO DE LOCATED. IN THE VERITI	 22. COORDINATE WITH OTHER TRADES A DUCTS, OPENINGS AND OTHER STRUSCOPE. 23. ALL BRANCH CIRCUITS MUST BE GINOMERUNS. NOT MORE THAN 6 C 24. SECURE AND PAY FOR ALL PERMITEFOR THE PROPER EXECUTION AND 25. PREPARE AND SUBMIT TO GOVERNMWHICH ARE REQUIRED BY THESE A 26. NOTIFY THE ARCHITECT/ENGINEER CONDEQUATE, UNSUITABLE, OR IN VIOOF AUTHORITIES HAVING JURISDICTIONS MAY STRUCTURAL VARCHITECT/ENGINEER OR THEIR RE 27. ALL CUTTING, DRILLING, AND PATCHTHE BUILDING MUST BE DONE IN CONDITIONS MAY STRUCTURAL VARCHITECT/ENGINEER OR THEIR RE 28. PROVIDE "AS-BUILT" DRAWINGS AND 29. ALL MATERIAL, EQUIPMENT, WIRING INDICATED AS EXISTING TO BE REU 30. EXCEPT AS NOTED OTHERWISE, ALL DRAWINGS INCLUDING LABOR, EQUIPWITH THE BUILDING STANDARDS. 31. PROVIDE CONDUIT FOR ALL LOW VOLIMITED TO, TEMPERATURE CONTROL SYSTEMS ETC. REVIEW THESE DRA COORDINATE WITH THEM BEFORE CONSISTENCE AND AND CONDURATE WITH THEM BEFORE CONSISTENCE AND AND CONDUCTORS SIZE 33. RECESS EXISTING SURFACE MOUNTER AND/OR SUPPORT ELECTRICAL EQUIPMENT LOCATED AND SUPPORT ELECTRICAL EQUIPMENT SUPPONTE ELECTRICAL EQUIPMENT SUPPONTE ELECTRICAL EQUIPMENT SUPPONTE ELECTR
ACLE	 FURNISH AND INSTALL EQUIPMENT DISCONNECT SWITCHES IN STRICT COMPLIANCE WITH CODE REQUIREMENTS. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL DEVICES WITH THE ARCHITECTURAL PLANS, INCLUDING BUT NOT LIMITED TO ARCHITECTURAL DETAILS, ELEVATIONS AND MILLWORK/CASEWORK DETAILS. REMOVE ALL CABLING, CONDUIT AND DEVICES IN THE BUILDING THAT ARE NOT BEING REUSED. MAKE SUFFICIENT ALLOWANCE IN PRICING. NO CHANGE ORDERS WILL BE APPROVED FOR REMOVAL OF THESE ITEMS. ALL WORK SHALL CONFORM TO THE CHICAGO ELECTRICAL CODE. ALL WORK SHALL CONFORM TO THE CHICAGO ELECTRICAL CODE. PROVIDE AL COMPETE ELECTRICAL SYSTEM INCLUDING ALL NEW REQUIRED ELECTRICAL DEVICES, CONDUT AND WRING AS GENERALLY OUTLINED ON THE PLANS. THE ELECTRICAL CONTRACTOR IS TO PROVIDE ALL MATERIALS AND WORK NORMALLY REQUIRED FOR A COMPLETE INSTALLATION AND SHOULD INCLUDE ALL ANTICIPATED DISCREPANCIES BE FULLY IDENTIFIED WHEN A BID IS SUBMITTED. EC IS REQUIRED TO VERIFY ALL FIELD CONDITIONS PRIOR TO PERFORMING ANY WORK. ANY DISCREPANCIES OR OTHER ASPECTS OF CONSTRUCTION NOT ANTICIPATED BY THESE PLANS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTING OFFICER. INSULATE AND SEAL CONDUIT PENETRATIONS BETWEEN SPACES AT DIFFERENT TEMPERATURES AND HUMIDITY LEVELS. MINIMUM BRANCH CIRCUIT WIRING SHALL BE SIZED FOR A MAXIMUM OF 5% VOLTAGE DROP TO THE END OF CIRCUIT. FOR CLARITY NOT ALL JUNCTION BOXES, WHIP CONNECTIONS, FEEDERS, AND CABLES SHOWN ON THE DRAWINGS. FOR FEEDERS SIZES REFER TO EQUIPMENT SCHEDUES. EQUIPMENT LABELS AND INSTRUCTIONS REGARDING THE APPLICATION AND INSTALLATION OF THE USTED EQUIPMENT SHALL BE FOLLOWED TO ENSURE THAT THE EQUIPMENT IS BEING INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LISTING INSTRUCTIONS. THE TEMPERATURE RATINGS OF THE COUPMENT TERMINATIONS SHALL BE CAREFULLY CORRELATED WITH THE CONDUCTOR AMAGICT TO PREVENT OVERHEATING AND PREMATURE FALLURE. ELECTRICAL DRAWIN	 DEN RE WORK OR RE ROUTE EXISTING REPLACED DEVICES. CONTRACTORS PERFORMING DEMOLI BIDDING. PLANS MAY NOT INDICATE RELOCATION OF EQUIPMENT OR CO REMOVAL OF ELECTRICAL EQUIPMEN CONDUIT SHALL BE REMOVED IN A REMOVED TO THE POINT OF ORIGIN AREA JUNCTION BOX TO MAINTAIN SHUTDOWNS AND SERVICE INTERRU APPROVED PRIOR TO WORK BEING FOR ITEMS TO BE DEMO'D, ITEMS THE CONTRACTOR AND DISPOSED OF SEE DRAWINGS OF OTHER DIVISION EXISTING LOW VOLTAGE FIRE ALARM MAKE MINOR LOCATION ADJUSTMEN SEE A3 SERIES DRAWINGS FOR QU SWITCHES.

NERAL NOTES (CONT.)	
ADES AND INSTALL CONDUIT AND BOXES TO CLEAR EMBEDDED ER STRUCTURAL FEATURES.	
BE GROUPED INTO PHASE BALANCED MULTIPLE CIRCUIT AN 6 CIRCUITS ARE ALLOWED IN ONE HOMERUN CONDUIT.	
PERMITS, GOVERNMENTAL FEES, TAXES AND LICENSES NECESSARY N AND COMPLETION OF THE ELECTRICAL WORK.	Noise Schools
OVERNMENTAL AGENCIES BY UTILITY COMPANIES SHOP DRAWINGS, HESE AGENCIES. FOR THEIR APPROVAL.	
NEER OF ANY MATERIALS OR APPARATUS BELIEVED TO BE R IN VIOLATION OF LAWS, ORDINANCES, RULES OR REGULATIONS RISDICTION.	PUBLIC BU
PATCHING OF MASONRY STEEL OR IRON WORK BELONGING TO NE IN ORDER THAT WORK MAY BE PROPERLY INSTALLED. UNDER TURAL WORK BE CUT EXCEPT AT THE DIRECTION OF THE EIR REPRESENTATIVE.	CORDOGAN, CLARK & ASSOCIATES IN ARCHITECTS · ENGINEERS www.cordoganclark.com A U R O R A 960 RIDGEWAY AVENUE AURORA, ILLINOIS 60506 TEL 630.896.4975 FAX 630.896.4975 CH J C A G CH J C A G 716 NORTH WELLS STR CHICAGO, ILLINOIS 60506 TEL 312.943.73 FAX 630.896.4987 CHICAGO, ILLINOIS 60506 CHICAGO, CHICAGO, CHICAGO CHICAGO, CHICAGO, CHICAGO CHICAGO, CHICAGO CHICAGO, CHICAGO CHICAGO CHICAGO, CHICAGO C
GS AND SUBMIT FOR APPROVAL TO THE ARCHITECT/ENGINEER.	
WIRING DEVICES, ETC. SHALL BE NEW UNLESS SPECIFICALLY BE REUSED. USE EXISTING CONDUIT SYSTEM IF FOUND.	SINGH + ASSOCIATES, INC.
SE, ALL WORK REQUIRED FOR THE INSTALLATION AS SHOWN ON , EQUIPMENT AND MATERIALS SHALL BE IN STRICT COMPLIANCE RDS.	PROVIDE AOR/EOR STAMP HERE
LOW VOLTAGE SYSTEMS INCLUDING BUT NOT ONTROL, BUILDING AUTOMATION SE DRAWINGS BEFORE BIDDING AND TORE CONSTRUCTION.	
REMOVAL/REPLACEMENT, CONTRACTOR SHALL EXAMINE ATED ABOVE THE CEILING AND REATTACH THEM TO BUILDING L CEILING GRIDS AND TILES SHALL NOT BE USED TO MOUNT AL EQUIPMENT.	
MOUNTED CONDUIT IN TOILET RMS.	LAKE VIEW HIGH SCHOOL
RS SIZE IS 12 AWG.	4015 NORTH ASHLAND AVENUE CHICAGO, ILLINOIS 60613
LS WITH NEW LOADS ADDED HAVE SUFFICIENT AMPERE CAPACITY.	PROJECT NO. 2016-46211-MCR
DE CONNECTED FOR A FERIOD OF 30 DATS.	
	NO. DATE DESCRIPTION - 2016.04.19 30% SUBMITTAL
	- 2016.06.14 60% SUBMITTAL - 2017.02.14 75% SUBMITTAL
	- 2017.03.02 100% SUBMITTAL - 2017.03.07 PERMIT SET
DEMOLITION NOTES	- 2017.03.23 PRELIMINARY OTB SET - 2017.04.04 BID SET
	2017.04.12 ADDENDUM #1
ISTING CONDUIT, BOXES, ETC., AS REQUIRED FOR INSTALLATION OF NEW OR	DRAWN BY: DS
DEMOLITION ARE REQUIRED TO VERIFY FIELD CONDITIONS PRIOR TO	SCALE: NTS JOB:
OR CONDUIT SYSTEMS.	FILE: E0.0
QUIPMENT INCLUDES THE REMOVAL OF THE BRANCH CIRCUIT SERVING IT. D IN ACCESSIBLE SPACES. DEDICATED CIRCUIT CONDUCTORS SHALL BE ORIGIN. CONDUCTORS SERVING OTHER LOADS MAY BE REMOVED TO AN INTAIN CIRCUIT INTEGRITY.	
NTERRUPTIONS SHALL BE COORDINATED WITH CONTRACTING OFFICER AND BE BEING PERFORMED.	
ITEMS NOT WANTED BY THE OWNER SHALL BE COME THE PROPERTY OF OSED OF IN A PROPER LAWFUL MANNER.	WARNING: ASBESTOS-CONTAININ BUILDING MATERIALS ARE OR MA
DIVISIONS FOR ADDITIONAL DEMOLITION WORK. ALARM AND OTHER EQUIPMENT IN AREAS OF DEMOLITION SHALL REMAIN. JSTMENTS AS NECESSARY. FOR QUANTITY OF LIGHT FIXTURE TO BE DEMOED. DEMO EXISTING LIGHT	BE PRESENT IN THIS BUILDING, A ASBESTOS MANAGEMENT PLAN AVAILABLE IN THE SCHOOL FO REVIEW UPON REQUEST. NO PERSO MAY DISTURB ASBESTOS-CONTAININ MATERIALS UNLESS THAT PERSON A LICENSED ASBESTOS WORKER D
	ACCORDANCE WITH SPECIFICATIONS CONTAINED IN THE PROJEC DOCUMENTS AND IN COMPLIANC WITH ILLINDIS DEPARTMENT D HEALTH RULES AND REGULATIONS.
	ELECTRICAL SYMBOLS LIST
	DRAWING NO.
	EO.1

Date of Issue: April 28, 2017
PBC: Lake View High School Renovation Project_C1583 - Addendum No. 2

	SED ENT EL BOOM SCHDULE
ROOM	ROOM NAME
NO.	
A000	CORRIDOR
000B	
0000	FAN ROOM-7
001A	CORRIDOR
001B	CORRIDOR
001C	CORRIDOR
001S	STAIR-1
002	
010A	STORAGE
010B	DRY STORAGE
010C	DRY STORAGE
010D	DRY STORAGE
010D.1	WOMEN STAFF TOILET
010E	UNISEX TOILET
010G	UNISEX TOILET
010S	STAIR-2
011	STORAGE
011A	ELECTRICAL ROOM
011B	ELECTRICAL ROOM
014-0	VESTIBULE
014S	STAIR-3
016	BOYS LOCKER ROOM
016A	BOYS SHOWER ROOM
016B	BOYS DRYING AREA
0160	TEAM LOCKER ROOM
0165	STAIR-4
017	MECHANICAL ROOM
	CORRIDOR
020	SERVING
023	FAN ROOM-3
027	POOL TANK
027A	STAIR-5 CORRIDOR
027S	STAIR-5
029	
029B	RECEIVING
029S	STAIR-6
029E	ELEVATOR
030A 030B	COOLERS
031	STORAGE
031A	STORAGE
031B	FAN ROOM-1
031C 031D	STORAGE
032	STORAGE
033	STORAGE
034	STORAGE
035-0	VESTIBULE
0000	517IN-0
037 l	PLENUM CHAMBFR
037 040	PLENUM CHAMBER
037 040 040A	PLENUM CHAMBER KITCHEN STORAGE
037 040 040A 040B	PLENUM CHAMBER KITCHEN STORAGE OFFICE
037 040 040A 040B 050	PLENUM CHAMBER KITCHEN STORAGE OFFICE NATATORIUM
037 040 040A 040B 050 050A 050A	PLENUM CHAMBER KITCHEN STORAGE OFFICE NATATORIUM CONS. EQUIP. STORAGE GIRLS LOCKER ROOM
037 040 040A 040B 050 050A 050A 060	PLENUM CHAMBER KITCHEN STORAGE OFFICE NATATORIUM CONS. EQUIP. STORAGE GIRLS LOCKER ROOM GIRLS SHOWER ROOM
037 040 040A 040B 050 050A 060 060A 060B	PLENUM CHAMBER KITCHEN STORAGE OFFICE NATATORIUM CONS. EQUIP. STORAGE GIRLS LOCKER ROOM GIRLS SHOWER ROOM GIRLS DRYING AREA
037 040 040A 050 050A 060 060A 060B 060C	PLENUM CHAMBER KITCHEN STORAGE OFFICE NATATORIUM CONS. EQUIP. STORAGE GIRLS LOCKER ROOM GIRLS SHOWER ROOM GIRLS DRYING AREA GIRLS TOILET ROOM
037 040 040A 050 050A 060 060A 060B 060C 060D	PLENUM CHAMBER KITCHEN STORAGE OFFICE NATATORIUM CONS. EQUIP. STORAGE GIRLS LOCKER ROOM GIRLS SHOWER ROOM GIRLS DRYING AREA GIRLS TOILET ROOM LAUNDRY ROOM
037 040 040A 050 050A 060A 060A 060B 060C 060D 070	PLENUM CHAMBER KITCHEN STORAGE OFFICE NATATORIUM CONS. EQUIP. STORAGE GIRLS LOCKER ROOM GIRLS SHOWER ROOM GIRLS DRYING AREA GIRLS TOILET ROOM LAUNDRY ROOM STAFF & UNISEX LOCKER ROOM
037 040 040A 050 050A 060A 060A 060B 060C 060D 070	PLENUM CHAMBER KITCHEN STORAGE OFFICE NATATORIUM CONS. EQUIP. STORAGE GIRLS LOCKER ROOM GIRLS SHOWER ROOM GIRLS DRYING AREA GIRLS TOILET ROOM LAUNDRY ROOM STAFF & UNISEX LOCKER ROOM WEIGHT ROOM
037 040 040A 050 050A 060A 060A 060B 060C 060D 070 080 080-0	PLENUM CHAMBER KITCHEN STORAGE OFFICE NATATORIUM CONS. EQUIP. STORAGE GIRLS LOCKER ROOM GIRLS SHOWER ROOM GIRLS DRYING AREA GIRLS TOILET ROOM LAUNDRY ROOM STAFF & UNISEX LOCKER ROOM WEIGHT ROOM
037 040 040A 050 050A 060 060A 060B 060C 060D 070 080 080-0 080S	PLENUM CHAMBER KITCHEN STORAGE OFFICE NATATORIUM CONS. EQUIP. STORAGE GIRLS LOCKER ROOM GIRLS SHOWER ROOM GIRLS DRYING AREA GIRLS TOILET ROOM LAUNDRY ROOM STAFF & UNISEX LOCKER ROOM WEIGHT ROOM VESTIBULE STAIR-10
037 040 040A 050 050A 060 060A 060B 060C 060D 070 080 080 080 080 080S 090	PLENUM CHAMBER KITCHEN STORAGE OFFICE NATATORIUM CONS. EQUIP. STORAGE GIRLS LOCKER ROOM GIRLS SHOWER ROOM GIRLS DRYING AREA GIRLS TOILET ROOM LAUNDRY ROOM STAFF & UNISEX LOCKER ROOM WEIGHT ROOM WEIGHT ROOM VESTIBULE STAIR-10 ROTC CLASSROOM
037 040 040A 050 050A 060A 060A 060B 060C 060D 070 080 080 080 080 080 080 080 090 090A 090R	PLENUM CHAMBER KITCHEN STORAGE OFFICE NATATORIUM CONS. EQUIP. STORAGE GIRLS LOCKER ROOM GIRLS SHOWER ROOM GIRLS DRYING AREA GIRLS TOILET ROOM LAUNDRY ROOM LAUNDRY ROOM STAFF & UNISEX LOCKER ROOM WEIGHT ROOM WEIGHT ROOM VESTIBULE STAIR–10 ROTC CLASSROOM ROTC OFFICE ROTC STORAGF
037 040 040A 050 050A 060 060A 060B 060C 060D 070 080 080 080 080 080 080 080 080 080	PLENUM CHAMBER KITCHEN STORAGE OFFICE NATATORIUM CONS. EQUIP. STORAGE GIRLS LOCKER ROOM GIRLS SHOWER ROOM GIRLS DRYING AREA GIRLS TOILET ROOM GIRLS TOILET ROOM LAUNDRY ROOM STAFF & UNISEX LOCKER ROOM WEIGHT ROOM WEIGHT ROOM VESTIBULE STAIR–10 ROTC CLASSROOM ROTC OFFICE ROTC STORAGE
037 040 040A 050 050A 060A 060A 060B 060C 060D 070 080 080 080 080 080 080 080 080 080	PLENUM CHAMBER KITCHEN STORAGE OFFICE NATATORIUM CONS. EQUIP. STORAGE GIRLS LOCKER ROOM GIRLS SHOWER ROOM GIRLS DRYING AREA GIRLS TOILET ROOM GIRLS TOILET ROOM LAUNDRY ROOM STAFF & UNISEX LOCKER ROOM WEIGHT ROOM WEIGHT ROOM VESTIBULE STAIR–10 ROTC CLASSROOM ROTC OFFICE ROTC STORAGE BOILER
037 040 040A 050 050A 060 060A 060B 060C 060D 070 080 080 080 080 080 080 080 080 090 09	PLENUM CHAMBER KITCHEN STORAGE OFFICE NATATORIUM CONS. EQUIP. STORAGE GIRLS LOCKER ROOM GIRLS SHOWER ROOM GIRLS DRYING AREA GIRLS TOILET ROOM LAUNDRY ROOM STAFF & UNISEX LOCKER ROOM WEIGHT ROOM WEIGHT ROOM WEIGHT ROOM WEIGHT ROOM WEIGHT ROOM WEIGHT ROOM MEIGHT ROOM STAIR–10 ROTC CLASSROOM ROTC OFFICE ROTC STORAGE BOILER
037 040 040A 050 050A 060 060A 060B 060C 060D 070 080 080 080 080 080 080 080 090 080S 090 090A 090A 090B 090A 090B 090C 091 091A 092	PLENUM CHAMBER KITCHEN STORAGE OFFICE NATATORIUM CONS. EQUIP. STORAGE GIRLS LOCKER ROOM GIRLS SHOWER ROOM GIRLS DRYING AREA GIRLS TOILET ROOM LAUNDRY ROOM STAFF & UNISEX LOCKER ROOM WEIGHT ROOM WEIGHT ROOM WEIGHT ROOM VESTIBULE STAIR–10 ROTC CLASSROOM ROTC OFFICE ROTC STORAGE BOILER BOILER BOILER VESTIBULE
037 040 040A 050 050A 060 060A 060B 060C 060D 070 080 080 080 080 080 080 080 090 080S 090 080S 090 090A 090A 090B 090A 090B 090C 091A 092	PLENUM CHAMBER KITCHEN STORAGE OFFICE NATATORIUM CONS. EQUIP. STORAGE GIRLS LOCKER ROOM GIRLS SHOWER ROOM GIRLS DRYING AREA GIRLS TOILET ROOM LAUNDRY ROOM STAFF & UNISEX LOCKER ROOM WEIGHT ROOM WEIGHT ROOM VESTIBULE STAIR–10 ROTC CLASSROOM ROTC OFFICE ROTC STORAGE BOILER BOILER BOILER VESTIBULE
037 040 040A 050 050A 060 060A 060B 060C 060D 070 080 080 080 080 080 080 080 080 090 080S 090 090A 090A 090B 090A 090B 090C 091A 092	PLENUM CHAMBER KITCHEN STORAGE OFFICE NATATORIUM CONS. EQUIP. STORAGE GIRLS LOCKER ROOM GIRLS SHOWER ROOM GIRLS DRYING AREA GIRLS TOILET ROOM LAUNDRY ROOM STAFF & UNISEX LOCKER ROOM WEIGHT ROOM WEIGHT ROOM WEIGHT ROOM VESTIBULE STAIR–10 ROTC CLASSROOM ROTC OFFICE ROTC STORAGE BOILER BOILER BOILER VESTIBULE FAN ROOM–2
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- 1. ELECTRICAL CONTRACTOR (EC) SHALL:
- a REFER TO MECHANICAL DRAWINGS FOR EXACT EQUIPMENT LOCATION. b – REFER TO ELECTRICAL SCHEDULE OF MECHANICAL EQUIPMENT FOR ELECTRICAL REQUIREMENTS.
- C EXTEND EXISTING CONDUIT AND WIRING TO NEW FAN LOCATION. d – EC SHALL REUSE EXISTING CIRCUITS (POWER AND CONTROL) TO FEED NEW EXHAUST FANS. FOR EXCEPTIONS SEE "DEMOLITION SPECIFIC NOTES" ON ROOF DEMO PLAN.
- e WHEN NECESSARY, EC SHALL EXTEND EXISTING CIRCUIT(S) UP TO FAN INSTALL ADDITIONAL JUNCTION BOX OR REUSE EXISTING AND EXTEND WIRES AS REQUIRED.
- f INSTALL FOR EACH FAN, SAFETY DISCONNECT SWITCH IN WEATHERPROOF BOX.
- g FOR EACH GROUP OF FANS, INSTALL CONVENIENCE RECEPTACLE GFCI TYPE IN WEATHERPROOF BOX AND FEED IT FROM NEAREST PANEL.
- h VERIFY IF EXISTING CIRCUIT BREAKER IS SUITABLE FOR NEW FAN.
- 2. PROVIDE GUTTER HEAT TRACING SYSTEMS. PROVIDE WIRING AS REQUIRED.
- 3. NEW CONDUITS SHALL BE RUN IN THE ATTIC.
- 4. PROVIDE GUTTER, DOWNSPOUT AND ROOF HEAT TRACING FOR AREAS INDICATED. PROVIDE 4#10 AND 1#10 GRD TO FEED CONTROLLER. CONNECT TO PANEL AC-2N.
- 5. GFI RECEPTACLE FOR FAN'S USE PROPER ROOF PENETRATION (TYP.)
- 6. DISCONNECT SWITCH FURNISHED BY MECHANICAL CONTRACTOR. SEE NOTE 1.f. ABOVE. (TYP.)

PUBLIC BUILDING COMMISSION		object schools	
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CHICAG PROJEC	O, ILLINOIS CT NO. 201	60613 6-46211-MCR	
NO.	R date	REVISIONS DESCRIPTION	
-	2016.04.19 2016.06.14	30% SUBMITTAL 60% SUBMITTAL	
-	2017.02.14 2017.03.02	75% SUBMITTAL 100% SUBMITTAL	
-	2017.03.07 2017.03.23	PERMIT SET PRELIMINARY OTB SET	
- 1	2017.04.04	BID SET	
	2017.04.21	ADDENDUM #2	
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	040 040A 050 050A 060A 060B 060C 060D 070 080 080 080 080 090 090A 090A 090A 090A 090A 090B 090C 091A 090B 090C 091A 092 091A 092 091A 092 091A	KTICHEN STORAGE OFFICE NATATORIUM CONS. EQUIP. STORAGE GIRLS LOCKER ROOM GIRLS SHOWER ROOM GIRLS DRYING AREA GIRLS TOILET ROOM LAUNDRY ROOM STAFF & UNISEX LOCKER ROOM WEIGHT ROOM WEIGHT ROOM VESTIBULE STAIR-10 ROTC CLASSROOM ROTC OFFICE ROTC STORAGE BOILER BOILER VESTIBULE FAN ROOM-2
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ROOM NO.	INT FL ROOM SCHDULE
NO.	ROOM NAME
0004	
000A	
0000	CORRIDOR
001	FAN ROOM-7
001A	CORRIDOR
001B	CORRIDOR
001C	CORRIDOR
001S	STAIR-1
002	DRY STORAGE
010	LUNCHROOM
010A	STORAGE
010B	DRY STORAGE
010C	DRY STORAGE
010D	DRY STORAGE
010D.1	WOMEN STAFF TOILET
010E	JANITOR CLOSET
010F	UNISEX TOILET
010G	UNISEX TOILET
010S	STAIR-2
011	STORAGE
011A	ELECTRICAL ROOM
011B	ELECTRICAL ROOM
012	FAN ROOM-5&6
014-0	VESTIBULE
014S	STAIR-3
016	BOYS LOCKER ROOM
016A	BOYS SHOWER ROOM
016B	BOYS DRYING ARFA
0160	BOYS TOILET ROOM
0160	TEAM LOCKER ROOM
0165	STAIR-4
017	MECHANICAL ROOM
	CORRIDOR
020	SERVING
023	
023	FAN ROOM-3
027	POOL TANK
027	STAIR-5 CORRIDOR
0270	STAIR-5
02/3	
029	
0297	
0290	
0295	
029E	
0308	
0300	
031	STORAGE
0310	
0310	
0310	STORAGE
0310	STORAGE
0.32	
033	
0355	
	PLENUM CHAMBER
040A	
	UNS. EQUIP. STORAGE
060	GIRLS LUCKER ROOM
i ()∺()∆ ^I	GIRLS SHOWER ROOM
	GIRLS DRYING AREA
060B	
060B 060C	GIRLS TOILET ROOM
060B 060C 060D	GIRLS TOILET ROOM
060B 060C 060D 070	GIRLS TOILET ROOM LAUNDRY ROOM STAFF & UNISEX
060B 060C 060D 070	GIRLS TOILET ROOM LAUNDRY ROOM STAFF & UNISEX LOCKER ROOM
060B 060C 060D 070 080	GIRLS TOILET ROOM LAUNDRY ROOM STAFF & UNISEX LOCKER ROOM WEIGHT ROOM
060B 060C 060D 070 080 080-0	GIRLS TOILET ROOM LAUNDRY ROOM STAFF & UNISEX LOCKER ROOM WEIGHT ROOM VESTIBULE
060B 060C 060D 070 080 080-0 080S	GIRLS TOILET ROOM LAUNDRY ROOM STAFF & UNISEX LOCKER ROOM WEIGHT ROOM VESTIBULE STAIR-10
060B 060C 060D 070 080 080-0 080S 090	GIRLS TOILET ROOM LAUNDRY ROOM STAFF & UNISEX LOCKER ROOM WEIGHT ROOM VESTIBULE STAIR-10 ROTC CLASSROOM
060B 060C 060D 070 080 080-0 080S 090 090A	GIRLS TOILET ROOM LAUNDRY ROOM STAFF & UNISEX LOCKER ROOM WEIGHT ROOM VESTIBULE STAIR-10 ROTC CLASSROOM ROTC OFFICE
060B 060C 060D 070 080 080-0 080S 090 090A 090B	GIRLS TOILET ROOM LAUNDRY ROOM STAFF & UNISEX LOCKER ROOM WEIGHT ROOM VESTIBULE STAIR-10 ROTC CLASSROOM ROTC OFFICE ROTC STORAGE
060B 060C 060D 070 080 080-0 080S 090 090A 090B 090C	GIRLS TOILET ROOM LAUNDRY ROOM STAFF & UNISEX LOCKER ROOM WEIGHT ROOM VESTIBULE STAIR-10 ROTC CLASSROOM ROTC OFFICE ROTC STORAGE ROTC STORAGE
060B 060C 060D 070 080 080-0 080S 090 090A 090A 090B 090C 091	GIRLS TOILET ROOM LAUNDRY ROOM STAFF & UNISEX LOCKER ROOM WEIGHT ROOM VESTIBULE STAIR-10 ROTC CLASSROOM ROTC OFFICE ROTC STORAGE ROTC STORAGE BOILER
060B 060C 060D 070 080 080-0 080S 090 090A 090B 090C 091 091A	GIRLS TOILET ROOM LAUNDRY ROOM STAFF & UNISEX LOCKER ROOM WEIGHT ROOM VESTIBULE STAIR-10 ROTC CLASSROOM ROTC OFFICE ROTC STORAGE ROTC STORAGE BOILER BOILER
060B 060C 060D 070 080 080-0 080S 090 090A 090A 090B 090C 091 091A 092	GIRLS TOILET ROOM LAUNDRY ROOM STAFF & UNISEX LOCKER ROOM WEIGHT ROOM VESTIBULE STAIR-10 ROTC CLASSROOM ROTC OFFICE ROTC STORAGE BOILER BOILER BOILER VESTIBULE FAN ROOM-2
060B 060C 060D 070 080 080–0 080S 090 090A 090A 090B 090C 091 091A 092	GIRLS TOILET ROOM LAUNDRY ROOM STAFF & UNISEX LOCKER ROOM WEIGHT ROOM VESTIBULE STAIR-10 ROTC CLASSROOM ROTC OFFICE ROTC STORAGE BOILER BOILER BOILER VESTIBULE FAN ROOM-2
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060B 060C 060D 070 080 080-0 080S 090 090A 090A 090B 090C 091A 091A 092	GIRLS TOILET ROOM LAUNDRY ROOM STAFF & UNISEX LOCKER ROOM WEIGHT ROOM VESTIBULE STAIR-10 ROTC CLASSROOM ROTC OFFICE ROTC STORAGE BOILER BOILER BOILER ENTE VESTIBULE FAN ROOM-2
060B 060C 060D 070 080 080-0 080S 090 090A 090B 090C 091 091A 092	GIRLS TOILET ROOM LAUNDRY ROOM STAFF & UNISEX LOCKER ROOM WEIGHT ROOM VESTIBULE STAIR-10 ROTC CLASSROOM ROTC OFFICE ROTC STORAGE BOILER BOILER BOILER VESTIBULE FAN ROOM-2
060B 060C 060D 070 080 080-0 080S 090 090A 090A 090B 090C 091 091A 092	GIRLS TOILET ROOM LAUNDRY ROOM STAFF & UNISEX LOCKER ROOM WEIGHT ROOM VESTIBULE STAIR-10 ROTC CLASSROOM ROTC OFFICE ROTC STORAGE BOILER BOILER BOILER VESTIBULE FAN ROOM-2
060B 060C 060D 070 080 080-0 080S 090 090A 090B 090C 091A 091A 091A 092	GIRLS TOILET ROOM LAUNDRY ROOM STAFF & UNISEX LOCKER ROOM WEIGHT ROOM VESTIBULE STAIR-10 ROTC CLASSROOM ROTC OFFICE ROTC STORAGE BOILER BOILER BOILER VESTIBULE FAN ROOM-2
060B 060C 060D 070 080 080-0 080S 090 090A 090A 090B 090C 091A 091A 092	GIRLS TOILET ROOM LAUNDRY ROOM STAFF & UNISEX LOCKER ROOM WEIGHT ROOM VESTIBULE STAIR-10 ROTC CLASSROOM ROTC OFFICE ROTC STORAGE ROTC STORAGE BOILER BOILER BOILER VESTIBULE FAN ROOM-2

	SED	PROPO	SED
ROOM	ROOM NAME		ROOM NAME
NO.		NO.	
200A	JANITOR CLOSET	300A	TOILET
200B	TOILET	300B	TOILET
200C	STAFF TOILET	300C	STAFF & UNISEX TOLIET
200D	STORAGE	300D	JANITOR CLOSET
200E	STORAGE	300E	JANITOR CLOSET
200F	MAIN GYNASIUM-TRACK	300F	STORAGE
200G	JANITOR CLOSET	300G	GIRL'S STUDENT TOILET
200H	TOILET	300H	STORAGE
200J	BOY'S STUDENT TOILET	3001	STAFF TOILET
200K	JANITOR CLOSET	300J	JANITOR CLOSET
200L	ELECTRICAL ROOM	300K	GIRL'S STUDENT TOILET
200M	TOILET	300L	CORRIDOR
200N	MEN STAFF TOILET	300M	CORRIDOR
200P	JANITOR CLOSET	300N	CORRIDOR
200Q	CORRIDOR	302	CLASSROOM
200R	CORRIDOR	302S	STAIR-2
2005	CORRIDOR	304	CLASSROOM
201	SMALL GYMNASIUM-WEST	305	STEM NETWORKING LAB
201A	STAFF AND UNISEX DRY	305S	STAIR-1
ļ	LOCKER ROOM	310	TEACHER WORK AREA
201B	PE STORAGE	311	CLASSROOM
201C	CORRIDOR	312	CLASSROOM
203	SMALL GYMNASIUM-EAST	313	CLASSROOM
2035	STAIR-9	313S	STAIR-10
202	CLASSROOM	314	CLASSROOM
2025	STAIR-2	316	ART LAB
204	CLASSROOM	316S	STAIR-4
205	SUPPORT COMPUTER LAB	317	ART LAB
2055	STAIR-1	317A	DARK ROOM
207	OFFICE	318	ART LAB
209	CLASSROOM	318A	ART STORAGE
211	CLASSROOM	319	CLASSROOM
212	LEVEL 2 BIOLOGY LAB	320	LEVEL 2 SCIENCE LAB
212A	SCIENCE PREP ROOM	320S	STAIR-5
212B	STORAGE	321	CLASSROOM
213	CLASSROOM	322	COMPUTER LAB SR
2135	STAIR-10	322A	TECHNOLOGY STORAGE
215	CLASSROOM	323	CLASSROOM
2165	STAIR-4	324	SCIENCE LAB
217	CLASSROOM	324A	SCIENCE OFFICE
219	CLASSROOM	324B	SCIENCE STORAGE ROOM
220	LEVEL 1 BIOLOGY LAB	325	CLASSROOM
220S	STAIR-5	325A	STORAGE
221	SOCIAL STUDIES OFFICE	327	CLASSROOM
222	LEVEL 1 BIOLOGY LAB	328	SCIENCE LAB
222A	PREP ROOM	328A	TEACHER WORK AREA
222B	STORAGE	328B	SCIENCE STORAGE ROOM
223	CLASSROOM	328S	STAIR-6
1		329	CLASSROOM
224			
224 225	CLASSROOM	330	CLASSROOM
224 225 228	CLASSROOM SCIENCE OFFICE	330 330A	CLASSROOM CLASSROOM STORAGE
224 225 228 228A	CLASSROOM SCIENCE OFFICE STORAGE	330 330A 332	CLASSROOM CLASSROOM STORAGE CLASSROOM
224 225 228 228A 228A 228B	CLASSROOM SCIENCE OFFICE STORAGE STORAGE	330 330A 332 333	CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM
224 225 228 228A 228A 228B 228E	CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR	330 330A 332 333 334	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM
224 225 228 228A 228B 228B 228E 228S	CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6	330 330A 332 333 334 335	CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE
224 225 228 228A 228B 228B 228E 228S 229	CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB	330 330A 332 333 334 335 336	CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM
224 225 228 228A 228B 228B 228E 228S 229 229A	CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA	330 330A 332 333 334 335 336 337	CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM
224 225 228 228A 228B 228E 228E 228S 229 229A 229A 229B	CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF	330 330A 332 333 334 335 336 337 337A	CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY
224 225 228 228A 228B 228E 228S 229 229A 229B 229B 229C	CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE	330 330A 332 333 334 335 336 337 337A 338	CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM
224 225 228 228A 228B 228E 228S 229 229A 229B 229C 230	CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA	330 330A 332 333 334 335 336 337 337A 337A 338 338S-7	CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7
224 225 228 228A 228B 228E 228S 229 229A 229B 229C 230 231	CLASSROOM CLASSROOM SCIENCE OFFICE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE	330 330A 332 333 334 335 336 337 337A 337A 338 338S-7 338S-8	CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-8
224 225 228 228A 228B 228E 228S 229 229A 229B 229A 229B 229C 230 231 232	CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN	330 330A 332 333 334 335 336 337 337A 337A 338 338S-7 338S-8 340	CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-8 CLASSROOM
224 225 228 228A 228B 228E 228S 229 229A 229B 229C 230 231 232 232A	CLASSROOM CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE	330 330A 332 333 334 335 336 337 337A 337A 338 338S-7 338S-8 340 342	CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM
224 225 228 228A 228B 228E 228S 229 229A 229B 229A 229B 229C 230 231 232 232A 232B	CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE	330 330A 332 333 334 335 336 337 337A 337A 338 338S-7 338S-8 340 342 344	CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE
224 225 228 228A 228B 228E 228S 229 229A 229B 229A 229B 229C 230 231 232 232A 232A 232B 235	CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA	330 330A 332 333 334 335 336 337 337A 337A 338 338S-7 338S-8 340 342 342 344 367	CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE
224 225 228 228A 228B 228E 228S 229 229A 229B 229A 229B 229C 230 231 232 232A 232A 232B 235 237	CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE	330 330A 332 333 334 335 336 337 337A 337A 338 338S-7 338S-8 340 342 342 344 367 367S	CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
224 225 228 228A 228B 228E 228S 229 229A 229B 229A 229B 229C 230 231 232 232A 232A 232A 232B 235 237 237A	CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY	330 330A 332 333 334 335 336 337 337A 337A 338S–7 338S–8 340 342 342 344 367 367S	CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
224 225 228 228A 228B 228E 228S 229 229A 229A 229B 229C 230 231 232 232A 232B 235 237 237A 237S-7	CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY	330 330A 332 333 334 335 336 337 337A 337A 338S–7 338S–8 340 342 342 344 367 367S	CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
224 225 228 228A 228B 228E 228S 229 229A 229A 229B 229C 230 231 232 232A 232A 232B 235 237 237A 237S-7 237S-8	CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-8	330 330A 332 333 334 335 336 337 337A 338 338 338 338 338 338 338 338 338 33	CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
224 225 228 228A 228B 228E 228S 229 229A 229A 229B 229C 230 231 232 232A 232B 235 237 237A 237S-7 237S-8 238	CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-8 LIBRARY WORKROOM	330 330A 332 333 334 335 336 337 337A 337A 338S-7 338S-8 340 342 344 367 367S	CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
224 225 228 228A 228B 228E 228S 229 229A 229A 229B 229C 230 231 232 232A 232A 232B 235 237 237A 237S-7 237S-8 238	CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-8 LIBRARY WORKROOM	330 330A 332 333 334 335 336 337 337A 338 338 338 338 338 338 338 338 338 33	CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
224 225 228 228A 228B 228E 228S 229 229A 229A 229B 229C 230 231 232 232A 232A 232B 235 237 237A 237S-7 237S-8 238	CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-8 LIBRARY WORKROOM	330 330A 332 333 334 335 336 337 337A 338 338S-7 338S-8 340 342 344 367 367 367S	CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
224 225 228 228A 228B 228E 228S 229 229A 229B 229C 230 231 232 232A 232B 232A 232B 235 237 237A 237S-7 237S-8 238 238	CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM	330 330A 332 333 334 335 336 337 337A 337A 338S-7 338S-8 340 342 344 367 367S 367S	CLASSROOM STORAGE CLASSROOM STORAGE CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE PE OFFICE STAIR-9
224 225 228 228A 228B 228E 228S 229 229A 229B 229A 229B 229C 230 231 232 232A 232B 235 237 237A 237S-7 237S-8 238 238	CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-8 LIBRARY WORKROOM	330 330A 332 333 334 335 336 337 337A 338 338 338 338 338 338 338 338 338 33	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
224 225 228 228A 228B 228E 228S 229 229A 229A 229B 229C 230 231 232 232A 232B 235 237 237A 237S-7 237S-8 237S-8 238	CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-8 LIBRARY WORKROOM	330 330A 332 333 334 335 336 337 337A 338 338S-7 338S-8 340 342 344 367 367S 367S	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE PE OFFICE STAIR-9
224 225 228 228A 228B 228E 228S 229 229A 229B 229A 229B 229C 230 231 232 232A 232B 235 237 237A 237S-7 237S-8 238 238	CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-8 LIBRARY WORKROOM	330 330A 332 333 334 335 336 337 337A 338 338 338 338 338 338 338 338 338 33	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-8 CLASSROOM OFFICE PE OFFICE PE OFFICE STAIR-9
224 225 228 228A 228B 228E 228S 229 229A 229A 229B 229C 230 231 232 232A 232B 235 237 237A 237S-7 237S-8 237S-8 238 238	CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM	330 330A 332 333 334 335 336 337 337A 338 338S-7 338S-8 340 342 344 367 367 367 367 367 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
224 225 228 228A 228B 228E 228S 229 229A 229A 229B 229C 230 231 232 232A 232A 232B 235 237 237A 237S-7 237S-8 238 238	CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM	330 330A 332 333 334 335 336 337 337A 338 338 338 338 338 338 338 338 338 33	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
224 225 228 228A 228B 228E 228S 229 229A 229A 229B 229C 230 231 232 232A 232B 235 237 237A 237S-7 237S-8 237S-7 237S-8 238 235	CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-8 LIBRARY WORKROOM	330 330A 332 333 334 335 336 337 337A 338 338 338 338 338 338 338 338 338 33	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
224 225 228 228A 228B 228E 228S 229 229A 229B 229C 230 231 232 232A 232B 235 237 237A 237S-7 237S-8 237S-8 238 238 235	CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM	330 330A 332 333 334 335 336 337 337A 338S-7 338S-8 340 342 344 367 367 367 367 367 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
224 225 228 228A 228B 228E 228S 229 229A 229A 229B 229C 230 231 232 232A 232B 235 237 237A 237S-7 237S-8 238 237 237S-8 238	CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM	330 330A 332 333 334 335 336 337 337A 338 338 338 338 338 338 338 338 338 33	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
224 225 228 228A 228B 228E 228S 229 229A 229A 229B 229C 230 231 232 232A 232B 235 237 237A 237S-7 237S-8 237 237S-8 238 238 235	CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-8 LIBRARY WORKROOM	330 330A 332 333 334 335 336 337 337A 338S-7 338S-8 340 342 344 367 367S 367S 367S	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
224 225 228 228A 228B 228E 228S 229 229A 229B 229A 229B 229C 230 231 232 232A 232B 235 237 237A 237S-7 237S-8 238 237 237S-8 238	CLASSROOM SCIENCE OFFICE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM	330 330A 332 333 334 335 336 337 337A 338 338 338 338 338 338 338 338 338 33	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
224 225 228 228A 228B 228E 228S 229 229A 229A 229B 229C 230 231 232 232A 232B 235 237 237A 237S-7 237S-7 237S-8 238 237 237S-8 238	CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-8 LIBRARY WORKROOM	330 330A 332 333 334 335 336 337A 337A 338S-7 338S-8 340 342 344 367 367S	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM STAIR-7 STAIR-8 CLASSROOM OFFICE PE OFFICE STAIR-9 STAIR-9
224 225 228 228A 228B 228E 228S 229 229A 229B 229C 230 231 232 232A 232B 235 237 237A 237S-7 237S-8 237S-7 237S-8 238 235 237 237S-8 238 235 237 237S-8 238	CLASSROOM SCIENCE OFFICE STORAGE STORAGE ELEVATOR STAIR-6 COLLEGE & CAREER LAB TEACHER WORK AREA MDF STORAGE TEACHER WORK AREA OFFICE LIBRARY-MAIN STORAGE CLASSROOM STORAGE TEACHER WORK AREA OFFICE AUDITORIUM BALCONY STAIR-7 STAIR-7 STAIR-8 LIBRARY WORKROOM	330 330A 332 333 334 335 336 337 337A 338S-7 338S-8 340 342 344 367 367 367 367 367 367 367 367 367 367	CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM CLASSROOM AUDITORIUM BALCONY CLASSROOM CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9

NOTES:

- 1. SEE SCOREBOARD DETAIL FOR CONNECTION DETAILS, SEE DRAWING E3.2. REUSE EXISTING 120V, 20A CIRCUIT FEED FROM PANEL L-1N CIRCUIT # 33. EXTENDING WIRING AS NEEDED TO NEW SCOREBOARD LOCATION.

CIRCUITING LAYOUT SHALL MATCH EXISTING. REPLACE DAMAGED RECEPTACLES (5) AND DAMAGED WIREWAY (10 FEET). NEW WIRING SHALL INCLUDE GROUNDING CONDUCTORS (1 PER 3 PHASE NETWORK) PROVIDE ADDITIONAL RACEWAY CAPACITY FOR THE GROUNDING CONDUCTORS.

2. DEMOLISH EXISTING WIRE FOR COMPUTER OUTLETS. PROVIDE NEW WIRING FOR ALL RECEPTACLE OUTLETS. WIRE SHALL BE #12 AWG MINIMUM.

 $\langle 3 \rangle$ provide 8"x6"x4" pull box $\langle 4 \rangle$ provided by others GENERAL NOTES:

2 PROVIDE 4"X4"X3" PULL BOX

KEY NOTES:

PULL BOX

 $\overline{\langle \chi \rangle}$

 $\langle 1 \rangle$ provide 20A/1P NEMA-1 DISCONNECT SWITCH. PROVIDE 2#10+1#6 1"C FEEDER ON A DEDICATED CIRCUIT.

(5) provide duplex outlet on a dedicated circuit (see note #1 on drawing e2.4). ·····

1. SCOREBOARD AND CONTROL PANELS PROVIDED BY OTHERS. COORDINATE LOCATION WITH THE ARCHITECT. 2. COORDINATE DISCONNECT SWITCHES, PULL BOX LOCATIONS, AND OUTLET LOCATION WITH ARCHITECT. 3. ALL EQUIPMENT NOT NOTED AS PROVIDED BY OTHERS IS PROVIDED BY E.C.

	OGAN, CLA	RK & ASSOCIATES INC.
A U R 960 RIDGE Aurora, II TEL 6 FAX 6	ARCHITEC www. 0 R A WAY AVENUE LINOIS 60506 30.896.4987	TS · ENGINEERS ; .cordoganclark.com C H I C A G O 716 NORTH WELLS STREET CHICAGO, ILLINOIS 60654 TEL 312.943.7300 FAX 312.943.4771
S	SINGH + ASSOC	CIATES, INC. NGINEERS
	PROVIDE AO	k/lor stamp here
LAKE HIGH 4015 N CHICAG	VIEW SCHOOL NORTH ASHL O, ILLINOIS	AND AVENUE 60613
PROJEC	CT NO. 201	6–46211–MCR
NO.	DATE	DESCRIPTION
-	2016.04.19 2016.06.14	30% SUBMITAL
-	2017.02.14 2017.03.02	75% SUBMITTAL 100% SUBMITTAL
-	2017.03.07	PERMIT SET
	2017.03.23 2017.04.04	PRELIMINARY OTB SET BID SET
	2017.04.21	ADDENDUM #2
DRAWN	BY: DS	l S
SCALE: JOB:	N	rs
FILE:	ES	5.0
WARN BUILD BE PI ASBES AVAIL REVIE MATER A LIC CONDU ACCOR CONTA DOCUN WITH HEALT	ING: MATE RESENT I STOS MA LABLE IN EW UPON DISTURB A RIALS UNL CENSED A JCTS S ADANCE W AINED I MENTS A ILLINDI IH RULES	ASBESTOS-CONTAINING ERIALS ARE OR MAY N THIS BUILDING, AN NAGEMENT PLAN IS I THE SCHOOL FOR REQUEST, NO PERSON ASBESTOS-CONTAINING ESS THAT PERSON IS SBESTOS WORKER OR SUCH WORK IN ITH SPECIFICATION(S) IN THE PROJECT ND IN COMPLIANCE S DEPARTMENT OF AND REGULATIONS.
	SCO D	REBOARD)ETAIL
	DR	AWING NO.
	E	3.2

	DESIGNATION VOLTAGE SYSTEM TYPE	K-2 (EXIS 208Y/120	STING) 0V <mark>3PH 4</mark> W	/ SN		PANE BUS A	LBO MPS	ARD 8 200	SCHE	DULE		١	PANEL L	OCATIC
	MCB-MLO - MAIN AMPS, KAIC RATING	200	MLO	- NI/A	EN	CLOS	URE	NEM	A-1	SUR	FACE	N		
D=D	IST E=EQUIP L=LIGHTS R=REC	IN/A	VOLTAMP	PS	СВ	ССТ	L1	L2	L3	ССТ	СВ	P	VOLTAMP	S
YPE	DESCRIPTION	Α	В	С	TR	NO	Α	В	С	NO	TR	Α	В	С
L		696			20	1	Α	B		2	20	696		
L	EX KITCHEN LIGHTS		-	-	20	5		Б	С	6	20		-	-
L	EX HOOD LIGHTS	-			20	7	Α		-	8	20	-		_
-	EX REACH IN FREEZER (MOVE CCT)		-		20	9		В	6	10	20		-	
Ľ	EX KITCHEN STOVE LIGHTS EX EXHAUST FAN	-		-	20	11	Α		C	12	20	-		-
L	EX KITCHEN - REACH IN COOLER		-		20	15		В		16	20		-	
L	NEW HFD-1	4 500		1,500	20	17		1	С	18	20			-
L 1	NEW HED-2	1,500	1 500		20	19 21	Α	B		20	20	-		
L			.,	1,500	20	23			С	24	20			1,044
L	NEW HFD-3	1,500			20	25	Α		·	26	20	1,044		-
L			1,500	1 500	20	27		В	6	28	20		-	1 044
-		1,500		1,500	20	31	Α		C	30	20	1,200		1,044
-	NEW HFD-5		1,500		20	33		В		34	20		1,200	
-		4 500		1,500	20	35			С	36	20	4.000		1,200
-	NEW HFD-6	1,500	1.500		20	37 39	Α	B		38 40	20 20	1,200	1.200	
-	SPARE		.,	-	20	41			С	42	20		.,	1,200
	TOTAL PER PHASE	6,696	6,000	6,000	PC	WER	SYS	TEM 1	YPE	NML		4,140	2,400	4,488
	ES: VERIFY SPARE AND SPACES PRIOR TO	D INSTAL	LATION				Т	OTAL	VA F		HASE	10,836	8,400	10,488
VER	IFY AVAILABLE BREAKERS DUE TO DEMOL						101	AL AN	IPS F	PER PE	HASE	90.3	<u>/0.0</u>	87.4
												\sim		
	VOLTAGE SYSTEM TYPE	AC-2S (E	EXISTING) 0V 3PH 4W	/ SN		PANE	MPS		SCHE	DULE	•		NEUTRAL	-OCATIC % RATIN
	MCB-MLO - MAIN AMPS, KAIC RATING		MLO	-	EN	ICLOS	URE	NEM	A-1	SUR	FACE	N	IEUTRAL E	BUS AMF
	TVSS ENC	N/A	N/A	N/A					1			P	ANEL FEE	DER SIZ
D=D YPF	IST E=EQUIP L=LIGHTS R=REC	Δ					L1	L2 B	L3 C		CB	Δ		
	EX AC UNIT - RM 222 SOUTH	-		0	30	1	A			2	20	-		
			-		-	3		В		4	20		-	
R	NEW RECEPT BATHROOMS	000		360	20	5			С	6	20			-
E	EX SPARE	696	-		20	9	A	В	1	8 10	20	-		
	EX SPARE			-	20	11		I	С	12	20			-
	EX SPARE	-			20	13	A		1	14	20	-		1
	EX SPARE		-		20	15		B		16	20		-	
	EX SPARE	-		-	20	17	A			20	20	-		-
	EX SPARE		-		20	21		В		22	20		-	
	EX SPARE			-	20	23			С	24	20			-
	EX SPARE	-			20	25 27	A	B		26	20	-		
	EX INSIDE AC UNIT - MDF			-	20	29			С	30	20			-
-		-			-	31	Α			32	20	-		-
-			-		20	33		В		34	-		-	
-	EX OUTSIDE AC UNIT - MDF	_		-	- 20	35	A			36	- 20	-		-
-	EX OUSIDE AC UNIT - MDF		-		20	39		В		40	20		-	
-				-	-	41			С	42	20			-
	TOTAL PER PHASE	696	0	360	PC)WER	SYS			NML		0	0	0
NOT VER	ES: VERIFY SPARE AND SPACES PRIOR TO IFY AVAILABLE BREAKERS DUE TO DEMOI	D INSTAL _ITION	LATION				I TOT	otal Al AM	IPS F	PER PH	HASE	696 5.8		360
	DESIGNATION	AC-3S (I	EXISTING)			PANE	LBO	ARD	SCHE	EDULE			PANEL I	
	VOLTAGE SYSTEM TYPE	208Y/12	0V 3PH 4W	/ SN		BUS A	MPS					1	NEUTRAL	% RATIN
	MCB-MLO - MAIN AMPS, KAIC RATING		MLO	-	EN	ICLOS	URE	NEM	A-1	SUR	FACE	N		
D=D	IST E=EQUIP L=LIGHTS R=REC	IN/A	VOLTAMF	N/A PS	СВ	ССТ	L1	L2	L3	ССТ	СВ	F	VOLTAMF	S S
TYPE	DESCRIPTION	A	В	С	TR	NO	Α	B	C	NO	TR	A	В	C
	EX AC UNIT - RM 328 SOUTH	-		1	20	1	Α			2	20	-		
			-		- 20	3		B		4	- 20		-	
	EX EF	-			20	7	A			8	20	-		
			-		-	9		В		10	20		-	
				-	-	11			C	12	20		$\overline{\gamma}$	
		-	_		- 20	13	A	B		14	20 (600	+	
				-	-	17			C	18	20			-
	EX TEF-1	-			20	19	A			20	20	-		
R F	NEW RECEPT. BATHROOM		180	606	20	21		B	^	22	20		-	
	EX SPARE	-		090	20	25	A			24	20	-		
	EX SPARE		-		20	27		В		28	20		-	
	EX SPARE			-	20	29			C	30	20			-
-	EX SPARE EX SPARE	-			20	31	A	B		32	20	-	-	
-	EX SPARE			-	20	35			С	36	20			-
-	EX SPARE	-			20	37	A			38	20	-		
-	EX SPARE		-		20	39		B	- -	40	20		-	
-		0	190	-	20					42	20	600		-
	IOTAL ELIX ETTALS		100	0.90		JVVFr	0	I CIMI				000		

NOTES: VERIFY SPARE AND SPACES PRIOR TO INSTALLATION

VERIFY AVAILABLE BREAKERS DUE TO DEMOLITION

)N	KITCHEN	
G	100	
S	200	TAC
Έ	EXISTING	
	D=DIST E=EQUIP L=LIGHTS R=REC	
	DESCRIPTION	ΓΥΡΙ
	NEW EF-7	L
	EX HOOD LIGHTS	L
	EX TEACHERS LUNCH ROOM LIGHTS	L
	EX MANAGER OFFICE LIGHTING	L
	SOUTH SIDE RECEPTACLE	Ц
	EX SERVING LINE LIGHTS	Ц
	EX SERVING LINE LIGHTS	L
	EX PLUG-IN MIXER	L
	SO. SIDE WALL RECEPTACLE	L
	WEST SERVING RECEPTACLE	L
	GRILL	L
	NEW CP-1 & MC-1	L
	NEW CP-2 & MC-2	-
	ALLEY ENTRANCE	-
	NEW CP-2 & MC-2	-
	NEW IM-1	I.
	NEW IM-2	I.
	NEW FR-1	I.
	NEW FR-2	I.
	NEW FR-3	-
)	NEW FR-4	-
}	TOTAL PER PHASE	
3	29,724	VA
<u>* </u> *	82.6	Α

DESIGNATION	AC-1S (E	XISTING)			PANE		RD S	CHEI	DULE			PANEL L	OCATION		
	208Y/120	V 3PH 4W	SN	BUS AMPS							N	EUTRAL 9	% RATING		
TVSS ENC	MCB-MLO - MAIN AMPS, KAIC RATING MLO -					ORE	NEMA	\- 1	SURE	FACE	P	ANFL FFF		EXISTING	TAG
D=DIST E=EQUIP L=LIGHTS R=REC	,	VOLTAMP	S	СВ	ССТ	L1	L2	L3	ССТ	CB	· · · ·	VOLTAMP	S	D=DIST E=EQUIP L=LIGHTS R=REC	
YPEDESCRIPTION	А	В	С	TR	NO	Α	В	С	NO	TR	А	В	С	DESCRIPTION	YPE
EX AC UNIT RM 126 NORTH	-			20	1	A	– 1		2	20	-			EX AC UNIT RM 126 SOUTH	
		-		- 20	3		В	C	4	- 20		-			
EX RECEPT BATHROOM	_		-	20	7	Α		C	8	-	_		-		
EX LOW VOLTAGE		-		20	9		В		10	20		-		EX SPARE	
EX HAND DRYER		-	-	20	11			С	12	20		-	-	EX SPARE	
EX A.C.N.O	-		1	20	13	Α			14	20	-		1	EX SPARE	
		-	200	20	15		В	•	16	20		-		EX SPARE	
E NEW TEE-1	696		360	20	17	Δ		C	18 20	20	_		-	EX SPARE	
E NEW TEF-5	000	100		20	21		в		22	20		-		EX SPARE	
EX SPARE			-	20	23			С	24	20			-	EX SPARE	
EX SPARE	-		1	20	25	Α			26	20	-			EX SPARE	
EX SPARE		-		20	27		В		28	20		-		EX SPARE	
EX SPARE			-	20	29			С	30	20			-	EX SPARE	
- EX SPARE	-	_		20	33	A	в		34	20	-		6		·
- EX SPARE		1	-	20(35		$\overline{}$	Ċ	36	20			600	SHADE MOTOR	-
- EX SPARE	-		1	20	37	Α	I		38	20	600			SHADE MOTOR	- \
- EX SPARE		-		20	39		В		40	20		600		SHADE MOTOR	<u>-</u>
- EX SPARE	000	400	-		41			С	42	20	000	000	600	SHADE MOTOR	<u>-</u>)
	696		360	P ((JWER	SYST	ד איז דע <u>דאר</u>				600 1 296	600 700	1,200	3 556	
VERIFY AVAILABLE BREAKERS DUE TO DEMOL				(ł	TOTA				HASE	10.8	5.8	13.0	9.9	A
					<u>'`</u>				<u> </u>	<u></u> 入					一 ノ
		XISTINO			PVNE										$\overline{}$
VOLTAGE SYSTEM TYPE	208Y/120	V 3PH 4W	SN		BUS A	MPS		JULL	JULC		N	EUTRAL 9	% RATING		
MCB-MLO - MAIN AMPS, KAIC RATING		MLO		EN	ICLOS		NEMA	\-1	SURF	FACE	N	EUTRAL B	US AMPS	-	ГАG
TVSS ENC	N/A	N/A	N/A								P	ANEL FEE	DER SIZE	EXISTING	
D=DIST E=EQUIP L=LIGHTS R=REC	·		S	CB	ССТ	L1	L2	L3	ССТ	CB	<u> </u>		S	D=DIST E=EQUIP L=LIGHTS R=REC	
	A	В	C	TR	NO 4	A	В	C	NO	TR	A	В	C		ҮРВ
	-	-		20	1	A	B		<u>ک</u>	20	-				
EX AC UNIT RM 120			-	20	5	+	-	С	6	20			600	NEW ROOF RECEPTACLE	—
	-		I	-	7	Α			8	20	600				
NEW RECEPT. BATHROOM		180		20	9		В		10	20		-		EX SPARE	
EX SPARE			-	20	11			С	12	20			-	EX SPARE	
EX SPARE EX SPARE	-	_		20	13	A	R		14 16	20	-	_		EX SPARE	—
EX SPARE			_	20	17			С	18	20			-	EX SPARE	
EX SPARE	-			20	19	Α		_	20	20	-			EX SPARE	
EX SPARE		-		20	21		В		22	20		-		EX SPARE	
EX SPARE			-	20	23			С	24	20			-	EX SPARE	
EX SPARE	-			20	25	A	– [–]		26	20	-			EX SPARE	
EX SPARE		-	_	20	27		В	<u> </u>	28	20		-	_	EX SPARE	
- EX SPARE	-		-	20	29 31	Δ		U	32	20	_			EX SPARE	-
- EX SPARE		-		20	33		В		34	20		750		SCOREBOARD	-
- EX SPARE				20	-35			<u> </u>	36	20		Los	750	SCOREBOARD	
	1,000			20	37	A			38	20	1,000		•		- }
- HEAT TRACING PANEL		1,000	4.000	20	39		В		40	20		1,000	4.000	HEAT TRACING PANEL	- {
	1 000	1 1 2 0	1,000	20		ever			42	20	1 600	1 750	1,000		<u>-</u>
	ייטטט,י וואַדאַאַון (1,000			ייין אין אין אין אין אין אין אין אין אין				HASE	2.600	2,930	3,350		
VERIFY AVAILABLE BREAKERS DUE TO DEMOL						ΤΟΤΑ	L AM	PS PE	ER PH	HASE	21.7	24.4	27.9	24.7	Α
	~ <i>.</i>	<u> </u>						~	\sim	$\overline{\ldots}$		$\overline{\overline{\ }}$	m	<i>ب</i> ر	
DESIGNATION	P-BB1 (F)				PANE	LBOA							OCATION	BOILER ROOM	
VOLTAGE SYSTEM TYPE	208Y/120	V 3PH 4W	SN		BUS A	MPS	100				N	EUTRAL %	6 RATING	100	
MCB-MLO - MAIN AMPS, KAIC RATING	100	MLO	-	EN	ICLOS		NEMA	\-1	SURF	FACE	N	EUTRAL B	US AMPS	100	ſAG
TVSS ENC	N/A	N/A	N/A			<u>г.</u> Т				 T	P/	ANEL FEE	DER SIZE		
DESCRIPTION	^		s C	CB		L1	L2	L3	CCT	CB			S C		
	A _	В	C	1 R 20	NU 1	A A	В	ر	NU 2	1 K 20	A 	В	U U	EX SET #2 PLIMP #1	TPD
	_	-		-	3		В		4	-	-	-			
	<u> </u>	1	-	-	5		-	С	6	-		I	-		
EX SET #1 PUMP #2	-		•	20	7	Α	I		8	20	-			EX SET #2 PUMP #2	
		-		-	9		В		10	-		-			
			-	-	11			С	12	-			-		
EX FEED WATER CONT. TRANS.	-			20	13	Α	P		14	20	-			EX HOT WATER CIRCULATION PUMP	
		-		-	15		В	<u> </u>	16	-		-	_		
E NEW BFP-3	2,000			30	19	Α			20	60	-		I	EX SPARE	

G		
S		TAG
Ε	EXISTING	
	D=DIST E=EQUIP L=LIGHTS R=REC	
	DESCRIPTION	TYPE
	EX AC UNIT - RM 222 NORTH	
	EX SPARE	
	EX EF 5	-
		-
		-
	EX LOW VOLTAGE CONTROL PNL	-
	EX SPARE	-
	EX SPARE	-
	1,056	VĄ
(2.9	A
\sim	man mun	
N		
) N G S		
N G S F	EXISTING	TAG
N G S E	EXISTING D=DIST E=FQUIP L=LIGHTS R=RFC	TAG
N G S E	EXISTING D=DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION	TAG
N G S E	EXISTING D=DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 NORTH	TAG
N G S E	EXISTING D=DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 NORTH	TAG
N G S E	EXISTING D=DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 NORTH	TAG
N G S E	EXISTING D=DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 NORTH EX CCTV EX RECEPT - BATHROOM	TAG
	EXISTING D=DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 NORTH EX CCTV EX RECEPT BATHROOM EX HAND DRYER	TAG
N G S E	EXISTING D=DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 NORTH EX CCTV EX RECEPT BATHROOM EX HAND DRYER EX LOW VOLTAGE	TAG
	EXISTING D=DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 NORTH EX CCTV EX RECEPT BATHROOM EX HAND DRYER EX LOW VOLTAGE	TAG
	EXISTING D=DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 NORTH EX CCTV EX RECEPT BATHROOM EX HAND DRYER EX LOW VOLTAGE NEW ROOF RECEPTACLE	TAG
	EXISTING D=DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 NORTH I EX CCTV EX RECEPT BATHROOM EX HAND DRYER EX LOW VOLTAGE NEW ROOF RECEPTACLE EX SPARE	
	EXISTING D=DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 NORTH EX CCTV EX RECEPT BATHROOM EX HAND DRYER EX LOW VOLTAGE NEW ROOF RECEPTACLE EX SPARE EX SPARE	
	EXISTING D=DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 NORTH EX CCTV EX RECEPT BATHROOM EX HAND DRYER EX LOW VOLTAGE EX SPARE EX SPARE EX SPARE EX SPARE	
	EXISTING D=DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 NORTH EX CCTV EX RECEPT BATHROOM EX HAND DRYER EX LOW VOLTAGE NEW ROOF RECEPTACLE EX SPARE EX SPARE EX SPARE EX SPARE	
	EXISTING D=DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 NORTH I EX CCTV EX RECEPT BATHROOM EX HAND DRYER EX LOW VOLTAGE EX SPARE EX SPARE EX SPARE EX SPARE EX SPARE EX SPARE	
	EXISTING D=DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 NORTH EX CCTV EX RECEPT BATHROOM EX HAND DRYER EX LOW VOLTAGE EX SPARE EX SPARE EX SPARE EX SPARE EX SPARE EX SPARE EX SPARE	
	EXISTING D=DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 NORTH I EX CCTV EX RECEPT BATHROOM EX HAND DRYER EX LOW VOLTAGE EX SPARE EX SPARE	
	EXISTING D=DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 NORTH EX CCTV EX RECEPT BATHROOM EX HAND DRYER EX LOW VOLTAGE EX SPARE EX SPARE	
	EXISTING D=DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 NORTH EX CCTV EX RECEPT BATHROOM EX HAND DRYER EX LOW VOLTAGE EX SPARE EX SPARE	
	EXISTING D=DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 NORTH I EX CCTV EX RECEPT BATHROOM EX HAND DRYER EX LOW VOLTAGE EX SPARE EX SPARE	
	EXISTING D=DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 NORTH I EX CCTV EX RECEPT BATHROOM EX HAND DRYER EX LOW VOLTAGE X RECEPTACLE EX SPARE EX SPARE	
	EXISTING D=DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 NORTH I EX CCTV EX RECEPT BATHROOM EX HAND DRYER EX LOW VOLTAGE EX SPARE EX SPARE	
	EXISTING D=DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 NORTH I EX CCTV EX RECEPT BATHROOM EX HAND DRYER EX LOW VOLTAGE EX SPARE EX SPARE	
	EXISTING D=DIST E=EQUIP L=LIGHTS R=REC DESCRIPTION EX AC UNIT - RM 328 NORTH EX CCTV EX RECEPT BATHROOM EX HAND DRYER EX LOW VOLTAGE EX SPARE EX SPARE	

DESIGNATION	AC-1S (E	XISTING)			PANE	LBOA	RD S	CHE	DULE			PANEL L	OCATION		
	208Y/120	V 3PH 4W	SN		BUS A	MPS			0115		N		% RATING	 	
	NI/A	MLO N/A	- N/A	EN	NCLOS	SURE N	NEMA	<u>\-1</u>	SURI	FACE	N D		DER SIZE		IAG
D=DIST E=EQUIP L=LIGHTS R=REC	1.11/73	VOLTAMP	S	СВ	ССТ	L1	L2	L3	ССТ	CB	۲۲ ۱	VOLTAMP	S	D=DIST E=EQUIP L=LIGHTS R=REC	
TYPEDESCRIPTION	Α	В	С	TR	NO	Α	В	С	NO	TR	A	В	С	DESCRIPTION	YPE
EX AC UNIT RM 126 NORTH	-			20	1	Α			2	20	-			EX AC UNIT RM 126 SOUTH	
		-		-	3		В	~	4	-		-			
	_		-	20	5	Δ		С	6 8	20	_		-	EX AC UNIT RM 138	—
EX LOW VOLTAGE	-	-		20	9	^	B		0 10	- 20	-	-		EX SPARE	
EX HAND DRYER			-	20	11			С	12	20			-	EX SPARE	
EX A.C.N.O	-			20	13	A		_	14	20	-			EX SPARE	
EX A.C.N.O		-		20	15		В		16	20		-		EX SPARE	
R NEW RECEPT. BATHROOM		-	360	20	17			С	18	20			-	EX SPARE	
E NEW TEF-1	696		T	20	19	Α			20	20	-		1	EX SPARE	
E NEW TEF-5		100		20	21		В	-	22	20		-		EX SPARE	
EX SPARE			-	20	23			С	24	20			-	EX SPARE	
	-			20	25	A	в		26	20	-				
		-		20	21		Б	C	20 30	20		-	_		
- EX SPARE	-			20	31	Α		•	32	20	_			EX SPARE	-
- EX SPARE		-		20	33		В		34	20				EX SPARE	-
- EX SPARE		· · · · · · · · · · · · · · · · · · ·	-	20(35			č	36	20		······································	600	SHADE MOTOR	<u>-</u>
- EX SPARE	-			20	37	Α			38	20	600			SHADE MOTOR	- <a< td=""></a<>
- EX SPARE		-		20	39		В		40	20		600		SHADE MOTOR	-
- EX SPARE			-	20	41			С	42	20			600	SHADE MOTOR	-)
TOTAL PER PHASE	696	100	360		OWER	SYST		YPE	NML		600	600	1,200		
NOTES: VERIFY SPARE AND SPACES PRIOR TO	UINSTALL	_ATION		(\mathbf{k}			va Pl ng pr	EK PI	HASE	1,296	700 5 °	1,560	3,556	
								J		E	10.0	J.0 ^		<u> </u>	<u> </u>
	T														
DESIGNATION	AC-2N (E	XISTING)			PANE	LBOA	RD S	CHEI	DULE		-	PANEL L	OCATION		
	208Y/120	V 3PH 4W	SN		BUS A						N		% RATING	 	
	NI/A		- N/A	EN	NULUS		NEIVIA	\- 1	SUR	FACE			DEP 917		
D=DIST E=FQUIPTELIGHTS R-RFC	IN/A			CP	ССТ	1 1	12	13	ССТ	CR			S		
TYPEDESCRIPTION	A	B	<u>с</u>	TR	NO		 B	<u>C</u>	NO		A	B	с С	DESCRIPTION	YPE
EX AC UNIT RM 209 SOUTH	-			20	1	A	-	-	2	20	-		. ~	EX AC UNIT RM 209 NORTH	
		-		-	3		В		4	-					
EX AC UNIT RM 120			-	20	5			С	6	20		· · ·	600		
	-		1	-	7	Α	·		8	20	600				
NEW RECEPT. BATHROOM		180		20	9		В		10	20		-		EX SPARE	
EX SPARE			-	20	11			С	12	20			-	EX SPARE	
	-			20	13	A	P		14	20	-				
EX SPARE		-	_	20	15		D	C	10	20		-	_	EX SPARE	
EX SPARE	_			20	19	Α			20	20	-		-	EX SPARE	
EX SPARE		-		20	21		в		22	20		-		EX SPARE	
EX SPARE			-	20	23		_	С	24	20			-	EX SPARE	
EX SPARE	-			20	25	Α			26	20	-			EX SPARE	
EX SPARE		-		20	27		В		28	20		-		EX SPARE	
EX SPARE		-	-	20	29			С	30	20			-	EX SPARE	
- EX SPARE	-			20	31	Α			32	20	-	\sim	\sim	EX SPARE 2	-
- EX SPARE		-		20	33		В		34	20		750		SCOREBOARD	-
- EX SPARE		\frown	<u> </u>	20	35	\vdash	\checkmark	<u>د</u>	36	20			750		- 1
	1,000	1.000		20	37	A	P		38	20	1,000	1.000			<u>-</u> }
		1,000	1 000	20	39		B	^	40 12	20		1,000	1 000		
TOTAL PER PHASE	1.000	1.180	1.000	20 P(SYST	ב אר EM	<u> </u>	NMI	20	1.600	1.750	2.350		
NOTES: VERIFY SPARE AND SPACES PRIOR TO	D INSTALL	ATION	,		(TO	TAL \	VA PI	ER PI	HASE	2,600	2,930	3,350	8,880	VA
VERIFY AVAILABLE BREAKERS DUE TO DEMO						TOTA	L AMF	PS PI	ER PI	HASE	21.7	24.4	27.9	24.7	A
	<u> </u>					~~~		<u> </u>		<u> </u>		<u> </u>		بر	
				\sim					៸~						
VOI TAGE SYSTEM TYPE	208Y/120	XISTING) V 3PH 4W	SN				יר חיי 00	JUEL	JULE	•	N		6 RATING	100	
MCB-MLO - MAIN AMPS, KAIC RATING	100	MLO	-	EN				1	SURF	FACE	N	EUTRAL B	US AMPS	100 I	TAG
TVSS ENC	N/A	N/A	N/A						2.11		P/	ANEL FEE	DER SIZE	EXISTING	
D=DIST E=EQUIP L=LIGHTS R=REC	,	VOLTAMP	S	СВ	ССТ	L1	L2	L3	ССТ	CB	\ \	/OLTAMP	S	D=DIST E=EQUIP L=LIGHTS R=REC	
TYPEDESCRIPTION	Α	В	С	TR	NO	Α	В	С	NO	TR	Α	В	С	DESCRIPTION	YPE
EX SET #1 PUMP #1 OIL	-			20	1	Α			2	20	-			EX SET #2 PUMP #1	
		-		-	3		В]	4	-		-			
		1	-	-	5			С	6	-			-		
EX SET #1 PUMP #2	-		1	20	7	A			8	20	-			EX SET #2 PUMP #2	
		-		-	9		В		10	-		-			
			-	-	11			C	12	-			-		
EA FEED WATER CONT. TRANS.	-			20	15	A	R		14		-	_			_
		-	_		13		U	<u> </u>	18			-	_		_
E NEW BFP-3	2.000			30	19	Δ			20	60	-			EX SPARE	

EX SPARE

EX SPARE

EX SPARE

EX SPARE

EX SPARE

EX GAS BOOSTER

-

EX COLD WATER BOOSTER PUMP

21 B 22 2,000 23 C 24 2,000 EX OIL PUMP CONT. TRANS 30 25 A **26** 60 -27 B 28 -29 C 30 - -60 31 A 32 30 NEW BFP-3 33 B 34 35 C 36 20 37 A E NEW CO2 SENSOR 100 38 20 40 - EX SPARE 20 39 B - EX SPARE 20 41 C 42 -TOTAL PER PHASE2,1002,0002,000POWER SYSTEM TYPE NML 0 0 0 TOTAL PER PHASE

 TOTAL VA PER PHASE
 600
 180
 696
 1,476
 VA
 1

 TOTAL AMPS PER PHASE
 5.0
 1.5
 5.8
 4.1
 A
 NOTES: VERIFY SPARE AND SPACES PRIOR TO INSTALLATION VERIFY AVAILABLE BREAKERS DUE TO DEMOLITION

 TOTAL VA PER PHASE
 2,100
 2,000
 2,000
 6,100
 VA
 1

 TOTAL AMPS PER PHASE
 17.5
 16.7
 16.7
 16.9
 A
 A
 A

NO.ROOM NAME100MAIN OFFICE100ATOILET100BTOILET100CSTAFF & UNISEX TOILET100DJANITOR CLOSET100EWOMEN STAFF TOILET100FTOILET100GTOILET100GCORRIDOR100LSTAFF TOILET100KJANITOR CLOSET100LCORRIDOR100NCORRIDOR100NCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR101AHEALTH OFFICE101AHEALTH OFFICE102ECLASSROOM STORAGE102ECLASSROOM STORAGE103ESTAIR-2102ECLASSROOM STORAGE103EGAMING ROOM103SSTAIR-9105GAMING ROOM103SSTAIR-1103DCORRIDOR103SSTAIR-1103DCORRIDOR103SSTAIR-1103DCORRIDOR112ECOUNSELOR OFFICE113OFFICE113OFFICE113OFFICE113OFFICE114SPECIAL EDUCATION112BSTARAGE112B <th>EXISTIN</th> <th>NG FLOOR ROOM SCHDULF</th>	EXISTIN	NG FLOOR ROOM SCHDULF
NO.1000MAIN OFFICE100ATOILET100ESTAFF & UNISEX TOILET100DJANITOR CLOSET100FTOILET100FTOILET100GGIRL'S STUDENT TOILET100JSTAFF TOILET100LCORRIDOR100LCORRIDOR100NCORRIDOR100NCORRIDOR100NCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QISTAIR-7101AHEALTH OFFICE101DVESTBULE102ECLASSROOM STORAGE102ECLASSROOM STORAGE103ESTAIR-9103ESTAFF AND UNISEX103CGARL'S LOCKER ROOM103SSTAIR-1103DCORRIDOR103SSTAIR-1103DCORRIDOR103SSTAIR-1103DCORRIDOR103SSTAIR-1103DCORRIDOR103SSTAIR-1103DCOUNSELOR OFFICE111SPECIAL EDUCATION0FICECLASSROOM STORAGE112BCLASSROOM STORAGE116CPE STORAGE<	ROOM	ROOM NAME
Image: constraint of the sector of the sec	NO.	
100MAIN OFFICE100ATOILET100CSTAFF & UNISEX TOILET100DJANITOR CLOSET100FTOILET100FTOILET100GTOILET100GGIRL'S STUDENT TOILET100LGRR'S STUDENT TOILET100LCORRIDOR100DCORRIDOR100DCORRIDOR100DCORRIDOR100DCORRIDOR100DCORRIDOR100DCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR101AHEALTH OFFICE101AHEALTH OFFICE101AEACHER OFFICE102ECLASSROOM STORAGE103ESTAFF AND UNISEX103ECARSINOR103BSTAFF AND UNISEX103CSTAIR-1103DCORRIDOR103SSTAIR-1103DCORRIDOR103SSTAIR-1103DCORRIDOR103ESTAIR-1103DCORRIDOR103ESTAIR-1103DCORRIDOR103ESTAIR-1103DCORRIDOR103ESTAIR-1103DCORRIDOR103ESTAIR-1103DOFFICE113OFFICE114PECIAL EDUCATION112COUNSELOR OFFICE113AOFFICE114		
1004 101E1 1008 TOILET 1000 JANITOR CLOSET 1006 WOMEN STAFF TOILET 1006 TOILET 1006 GRL'S STUDENT TOILET 1001 GRL'S STUDENT TOILET 1004 CORRIDOR 1004 CORRIDOR 1000 CORRIDOR 10001 CORRIDOR 10022 STAIR-7 1014 HEALTH OFFICE 1015 STAIR-2 1022 IT STEM SUPPORT 1023 STAIR-1 1024 TEACHER OFFICE 1035 STAIR-9 1036 GAMING ROOM 1037 STAIR-9 1038 STAIR-1 1039 ATIENDANCE OFFICE 111	100	MAIN OFFICE
100E STAFF & UNISEX TOILET 100D JANITOR CLOSET 100E WOMEN STAFF TOILET 100F TOILET 100G TOILET 100J GRL'S STUDENT TOILET 100L CORRIDOR 100M CORRIDOR 100M CORRIDOR 100M CORRIDOR 100D CORRIDOR 100Q CORRIDOR 100Q CORRIDOR 100Q CORRIDOR 100D CORRIDOR 100Q CORRIDOR 100Q CORRIDOR 100Q CORRIDOR 1010S STAIR-7 101A HEALTH OFFICE 101S STAIR-2 1012 IT STEM SUPPORT 1022 IT STEM SUPPORT 1023 STAIR-1 1024 CLASSROOM STORAGE 1035 STAIR-9 1035 STAIR-1 1036 GAMING ROOM 1037 STAIR-9 1055	100A	TOILET
100D JANITOR CLOSET 100E WOMEN STAFF TOILET 100F TOILET 100G GIRL'S STUDENT TOILET 100J GIRL'S STUDENT TOILET 100L GIRL'S STUDENT TOILET 100L CORRIDOR 100N CORRIDOR 100Q CORRIDOR 1011 HEALTH OFFICE 1012 TEACHER OFFICE 1021 TEACHER OFFICE 1022 CLASSROOM STORAGE 1033 GIRL'S TOILET ROOM 1034 GIRL'S TOILET ROOM 1035 STAIR-9 1055 GAMING ROOM 1055 STAIR-1	100B	STAFF & UNISEX TOILET
100EWOMEN STAFF TOILET100FTOILET100GGIRL'S STUDENT TOILET100JSTAFF TOILET100LGORIBOR100KJANITOR CLOSET100LCORRIDOR100NCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR101SSTAIR-7101AHEALTH OFFICE102IT STEM SUPPORT102IT STEM SUPPORT102CLASSROOM STORAGE102CLASSROOM STORAGE103GIRL'S TOILET ROOM103BSTAFF AND UNISEX103CSTAIR-9105GAMING ROOM105SSTAIR-1103DCORRIDOR105SSTAIR-1105GAMING ROOM105GAMING ROOM105STAIR-1105GAMING ROOM105STAIR-1105GAMING ROOM105STAIR-1112COUNSELOR OFFICE113OFFICE114MAIN GYMNASIUM115LEVEL 1 CHEM LAB115BCLASSROOM126STAIR-3 <td>100D</td> <td>JANITOR CLOSET</td>	100D	JANITOR CLOSET
100FTOILET100GGIRL'S STUDENT TOILET100JGIRL'S STUDENT TOILET100LGIRL'S STUDENT TOILET100LCORRIDOR100MCORRIDOR100NCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QSTAIR-7101AHEALTH OFFICE101-0VESTIBULE101SSTAIR-2102ECLASSROOM STORAGE102ECLASSROOM STORAGE102ECLASSROOM STORAGE103EGIRL'S TOLET ROOM103AGIRL'S TOLET ROOM103BSTAFF AND UNISEX103CSTAFF AND UNISEX103DCORRIDOR103SSTAIR-1103DCORRIDOR103SSTAIR-1103DCORRIDOR105-0VESTIBULE105GAMING ROOM105-0VESTIBULE112COUNSELOR OFFICE113OFFICE114SPECIAL EDUCATION0FFICEI112112COUNSELOR OFFICE112COUNSELOR OFFICE113OFFICE114MAIN GYMNASIUM115BCLASSROOM STORAGE116MMAIN GYMNASIUM116APE STORAGE116BPE OFFICE116CPE STIBULE116C<	100E	WOMEN STAFF TOILET
100GTOILET100IGIRL'S STUDENT TOILET100JSTAFF TOILET100LCORRIDOR100NCORRIDOR100NCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100QCORRIDOR100SIMAIN ENTRY STAIR100S2STAIR-7101AHEALTH OFFICE101-0VESTBULE1012IT STEM SUPPORT1022IT ACHER OFFICE1023TEACHER OFFICE1024TEACHER OFFICE1025CLASSROOM STORAGE1036GIRL'S TOLET ROOM1037GIRL'S TOLET ROOM1038STAFF AND UNISEX1030CORRIDOR1031STAFF AND UNISEX1032CORRIDOR1033STAIR-91035GAMING ROOM105-0VESTIBULE105GAMING ROOM105-0VESTIBULE115STAIR-1109ATTENDANCE OFFICE111SPECIAL EDUCATION0FFICEI11112COUNSELOR OFFICE1120CUASSROM STORAGE1151CLASSROM STORAGE1162STAIR-31152CLASSROM STORAGE1163STAIR-10117PREP ROOM117-0VESTIBULE1164PE STORAGE1165STAIR-3119LEVEL 2 BIOLOGY LAB120CLASSROOM<	100F	TOILET
1001GIRL S SIDJENT IOLE11003STAFF TOILET1004CORRIDOR1000CORRIDOR1000CORRIDOR1000CORRIDOR1000CORRIDOR1000CORRIDOR10002CORRIDOR1003MAIN ENTRY STAIR10032STAIR-71014HEALTH OFFICE101-0VESTIBULE1012IT STEM SUPPORT1028CLASSROOM STORAGE1029CLASSROOM STORAGE1020CLASSROOM STORAGE1031GIRL'S TOILET ROOM1032STAFF AND UNISEX1032STAFF & UNISEX TOILET1033GIRL'S TOILET ROOM1034GIRL'S TOILET ROOM1035STAIR-91055GAMING ROOM1056GAMING ROOM10570VESTIBULE1058STAIR-1109ATTENDANCE OFFICE111SPECIAL EDUCATION0FFICEOFFICE1122COUNSELOR RECEPTION1128STORAGE113OFFICE114SPECIAL EDUCATION115LEVEL 1 CHEM LAB115ELVEL 1 CHEM LAB1158CLASSROOM STORAGE1169PE STORAGE1160VESTIBULE11616PE STORAGE1162STAIR-3117PREP ROOM117PREP ROOM1170VESTIBULE1171PREP ROOM1225CLASSROOM1236STORAGE1240	100G	
100KJANITOR CLOSET100LCORRIDOR100NCORRIDOR1000CORRIDOR1000CORRIDOR1000CORRIDOR1000CORRIDOR10001CORRIDOR1002STAIR-7101AHEALTH OFFICE101-0VESTIBULE1012IT STEM SUPPORT1022CLASSROOM STORAGE1023GIRL'S LOCKER ROOM1034GIRL'S TOILET ROOM1035STAIF-AND UNISEX1032CASSROOM STORAGE1033GIRL'S TOILET ROOM1034GIRL'S TOILET ROOM1035STAIF-AND UNISEX1036CARING ROOM1037STAIF-9105GAMING ROOM1055STAIR-1109ATTENDANCE OFFICE111SPECIAL EDUCATION112COUNSELOR OFFICE113OFFICE114SPECIAL EDUCATION1128STORAGE1130OFFICE114SPECIAL EDUCATION1128STORAGE1130OFFICE114DE STORAGE115LEVEL 1 CHEM LAB115EVEL 1 CHEM LAB1158CLASSROOM1169PE STORAGE11616PE STORAGE1162STAIR-3117PREP ROOM117PREP ROOM117PREP ROOM1205CLASSROOM1206LEVEL 1 CHEM LAB1207CLASSROOM1208STAIR-61209	100	GIRL'S STUDENT TOILET
100LCORRIDOR100MCORRIDOR1000CORRIDOR1000CORRIDOR1000CORRIDOR1001MAIN ENTRY STAIR1002STAIR-7101AHEALTH OFFICE101-0VESTIBULE1012IT STEM SUPPORT1028CLASSROOM STORAGE1029CLASSROOM STORAGE1021GIRL'S LOCKER ROOM1032STAFF & UNISEX TOILET1030GIRL'S LOCKER ROOM1033STAFF & UNISEX TOILET1030CORRIDOR1035STAIR-9105GAMING ROOM1055STAIR-1109ATTENDANCE OFFICE111SPECIAL EDUCATION1128STORAGE1120COUNSELOR OFFICE113OFFICE114COUNSELOR OFFICE115LEVEL 1 CHEM LAB115BCLASSROOM STORAGE116MAIN GYMNASIUM116APE STORAGE116BPE OFFICE116CPE STORAGE116BPE OFFICE116CPE STORAGE116BPE OFFICE116CPE STORAGE116BPE OFFICE116CPE STORAGE116MAIN GYMNASIUM116APE STORAGE116BPE OFFICE116CPE STORAGE116CPE STORAGE116CPE STORAGE116MAIN GYMNASIUM116STAIR-3117PREP ROOM117PREP ROOM <t< td=""><td>1000 100K</td><td>JANITOR CLOSET</td></t<>	1000 100K	JANITOR CLOSET
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100NCORRIDOR100PCORRIDOR100QCORRIDOR100SIMAIN ENTRY STAIR100S2STAIR-7101AHEALTH OFFICE101-0VESTIBULE101SSTAIR-2102IT STEM SUPPORT102ATEACHER OFFICE102BCLASSROOM STORAGE103EGIRL'S LOCKER ROOM103AGIRL'S TOLET ROOM103BSTAFF AND UNISEX103CSTAFF AND UNISEX103CSTAFF AND UNISEX103SSTAIR-9105GAMING ROOM105-0VESTIBULE105SSTAIR-1109ATTENDANCE OFFICE111SPECIAL EDUCATION112ECOUNSELOR OFFICE113OFFICE114COUNSELOR RECEPTION115BCLASSROOM STORAGE116AMAIN GYMNASIUM117BREVENAGE116CPE STORAGE116BPE OFFICE116CPE STORAGE116BSTAIR-4116CPE STORAGE116MAIN GYMNASIUM117-0VESTIBULE1162SCLASSROOM1205STAIR-3119LEVEL 2 BIOLOGY LAB120CLASSROOM1212CLASSROOM1224PREP ROOM125CLASSROOM126LEVEL 1 CHEM LAB127OFFICE128STAIR-5121CLASSROOM122LEVEL 2 BIOLOGY LAB123CLASSROOM<	100M	CORRIDOR
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116S1 STAIR-10 117 PREP ROOM 117-0 VESTIBULE 117S STAIR-3 119 LEVEL 2 BIOLOGY LAB 120 CLASSROOM 120S STAIR-5 121 CLASSROOM 122 LEVEL 2 BIO LAB 123 CLASSROOM 124 PREP ROOM 125 CLASSROOM 126 LEVEL 1 CHEM LAB 126A SCIENCE STORAGE ROOM 127 OFFICE 128 STUDENT SERVICE 128 STUDENT SERVICE 128 STAIR-6 129 CLASSROOM 135 COPYWORK ROOM 136 PRINCIPAL OFFICE 136A STORAGE 137 AUDITORIUM HOUSE 137A AUDITORIUM SUPPORT 137B AUDITORIUM SUPPORT <td>116S</td> <td>STAIR-4</td>	116S	STAIR-4
117-0 VESTIBULE 117S STAIR-3 119 LEVEL 2 BIOLOGY LAB 120 CLASSROOM 120S STAIR-5 121 CLASSROOM 122 LEVEL 2 BIO LAB 123 CLASSROOM 124 PREP ROOM 125 CLASSROOM 126 LEVEL 1 BIO LAB 127 CLASSROOM 128 SCIENCE STORAGE 129 CLASSROOM 126 LEVEL 1 CHEM LAB 127 OFFICE 127 OFFICE 127 STORAGE 128 STUDENT SERVICE 128 STUDENT SERVICE 128 STAIR-6 129 CLASSROOM 135 COPYWORK ROOM 136 PRINCIPAL OFFICE 136A STORAGE 137 AUDITORIUM HOUSE 137A AUDITORIUM STAGE 137B AUDITORIUM SUPPORT 137B AUDITORIUM SUPPORT <t< td=""><td>11651</td><td>PREP ROOM</td></t<>	11651	PREP ROOM
117SSTAIR-3119LEVEL 2 BIOLOGY LAB120CLASSROOM120SSTAIR-5121CLASSROOM122LEVEL 2 BIO LAB122BSCIENCE STORAGE123CLASSROOM124PREP ROOM125CLASSROOM126LEVEL 1 CHEM LAB126ASCIENCE STORAGE ROOM127OFFICE127ASTORAGE128STUDENT SERVICE128STAIR-6129CLASSROOM135COPYWORK ROOM136PRINCIPAL OFFICE137AAUDITORIUM HOUSE137BAUDITORIUM STAGE137BAUDITORIUM STAGE137AASSISTANT PRINCIPALOFFICEOFFICE138DCOUNSELOR OFFICE138ECOUNSELOR OFFICE138FCOUNSELOR OFFICE138FCOUNSELOR OFFICE138FCOUNSELOR OFFICE138FNURSE OFFICE	117-0	VESTIBULE
119LEVEL 2 BIOLOGY LAB120CLASSROOM120SSTAIR-5121CLASSROOM122LEVEL 2 BIO LAB123CLASSROOM124PREP ROOM125CLASSROOM126LEVEL 1 CHEM LAB126LEVEL 1 CHEM LAB127OFFICE127ASTORAGE128STUDENT SERVICE128STAIR-6129CLASSROOM135COPYWORK ROOM136PRINCIPAL OFFICE137AAUDITORIUM HOUSE137BAUDITORIUM SUPPORT137BAUDITORIUM SUPPORT137AASISTANT PRINCIPALOFFICEOFFICE138AASSISTANT PRINCIPAL138BCOUNSELOR OFFICE138CCOUNSELOR OFFICE138ECOUNSELOR OFFICE138FCOUNSELOR OFFICE138FCOUNSELOR OFFICE138FCOUNSELOR OFFICE138FCOUNSELOR OFFICE	117S	STAIR-3
120 CLASSROOM 120S STAIR-5 121 CLASSROOM 122 LEVEL 2 BIO LAB 122B SCIENCE STORAGE 123 CLASSROOM 124 PREP ROOM 125 CLASSROOM 126 LEVEL 1 CHEM LAB 126 SCIENCE STORAGE ROOM 127 OFFICE 128 STUDENT SERVICE 128 STUDENT SERVICE 128 STUDENT SERVICE 128 STAIR-6 129 CLASSROOM 135 COPYWORK ROOM 136 PRINCIPAL OFFICE 136A STORAGE 137 AUDITORIUM HOUSE 137A AUDITORIUM SUPPORT 137B AUDITORIUM SUPPORT 137B ASSISTANT PRINCIPAL OFFICE OFFICE 138A ASSISTANT PRINCIPAL OFFICE OFFICE 138B COUNSELOR OFFICE 138C COUNSELOR OFFICE 138F COUNSEL	119	LEVEL 2 BIOLOGY LAB
120SSTAIR-5121CLASSROOM122LEVEL 2 BIO LAB123SCIENCE STORAGE123CLASSROOM124PREP ROOM125CLASSROOM126LEVEL 1 CHEM LAB126ASCIENCE STORAGE ROOM127OFFICE127ASTORAGE128STUDENT SERVICE128STUDENT SERVICE128STAIR-6129CLASSROOM135COPYWORK ROOM136PRINCIPAL OFFICE137AAUDITORIUM HOUSE137AAUDITORIUM STAGE137BAUDITORIUM SUPPORT137S1STAIR-8138AASSISTANT PRINCIPALOFFICEOFFICE138DCOUNSELOR OFFICE138ECOUNSELOR OFFICE138FCOUNSELOR OFFICE138GNURSE OFFICE	120	CLASSROOM
121CLASSROOM122LEVEL 2 BIO LAB122BSCIENCE STORAGE123CLASSROOM124PREP ROOM125CLASSROOM126LEVEL 1 CHEM LAB126ASCIENCE STORAGE ROOM127OFFICE127ASTORAGE128STUDENT SERVICE128STUDENT SERVICE128STAIR-6129CLASSROOM135COPYWORK ROOM136PRINCIPAL OFFICE137AAUDITORIUM HOUSE137BAUDITORIUM STAGE137BAUDITORIUM SUPPORT137S1STAIR-8138AASSISTANT PRINCIPALOFFICEOFFICE138DCOUNSELOR OFFICE138DCOUNSELOR OFFICE138FCOUNSELOR OFFICE138GNURSE OFFICE	120S	STAIR-5
122LE VEL 2 BIU LAB123SCIENCE STORAGE123CLASSROOM124PREP ROOM125CLASSROOM126LEVEL 1 CHEM LAB126ASCIENCE STORAGE ROOM127OFFICE127ASTORAGE128STUDENT SERVICE128STUDENT SERVICE1285STAIR-6129CLASSROOM135COPYWORK ROOM136PRINCIPAL OFFICE136ASTORAGE137AAUDITORIUM HOUSE137BAUDITORIUM SUPPORT137S1STAIR-8138AASSISTANT PRINCIPALOFFICEOFFICE138BCOUNSELOR OFFICE138CCOUNSELOR OFFICE138FCOUNSELOR OFFICE138FCOUNSELOR OFFICE138GNURSE OFFICE	121	
123CLASSROOM124PREP ROOM125CLASSROOM126LEVEL 1 CHEM LAB126SCIENCE STORAGE ROOM127OFFICE127ASTORAGE128STUDENT SERVICE128ELEVATOR128STAIR-6129CLASSROOM135COPYWORK ROOM136PRINCIPAL OFFICE136ASTORAGE137AUDITORIUM HOUSE1378AUDITORIUM SUPPORT1378STAIR-8138AASSISTANT PRINCIPALOFFICEOFFICE138BCOUNSELOR OFFICE138FCOUNSELOR OFFICE138FCOUNSELOR RECEPTION138GNURSE OFFICE	122 122R	SCIENCE STORAGE
124PREP ROOM125CLASSROOM126LEVEL 1 CHEM LAB126ASCIENCE STORAGE ROOM127OFFICE127ASTORAGE128STUDENT SERVICE128ELEVATOR1285STAIR-6129CLASSROOM135COPYWORK ROOM136PRINCIPAL OFFICE137AAUDITORIUM HOUSE137BAUDITORIUM SUPPORT137BAUDITORIUM SUPPORT137AASISTANT PRINCIPAL0FFICEOFFICE138AASSISTANT PRINCIPAL0FFICEOFFICE138BCOUNSELOR OFFICE138CCOUNSELOR OFFICE138FCOUNSELOR RECEPTION138GNURSE OFFICE	123	CLASSROOM
125CLASSROOM126LEVEL 1 CHEM LAB126ASCIENCE STORAGE ROOM127OFFICE127ASTORAGE128STUDENT SERVICE128ELEVATOR1285STAIR-6129CLASSROOM135COPYWORK ROOM136PRINCIPAL OFFICE136ASTORAGE137AUDITORIUM HOUSE137AAUDITORIUM STAGE137BAUDITORIUM SUPPORT137S1STAIR-8138AASSISTANT PRINCIPALOFFICEOFFICE138BCOUNSELOR OFFICE138CCOUNSELOR OFFICE138FCOUNSELOR RECEPTION138GNURSE OFFICE	124	PREP ROOM
126LEVEL 1 CHEM LAB126ASCIENCE STORAGE ROOM127OFFICE127ASTORAGE128STUDENT SERVICE128ELEVATOR128SSTAIR-6129CLASSROOM135COPYWORK ROOM136PRINCIPAL OFFICE137AAUDITORIUM HOUSE137BAUDITORIUM STAGE137BAUDITORIUM SUPPORT137S1STAIR-8138AASSISTANT PRINCIPALOFFICEOFFICE138BCOUNSELOR OFFICE138CCOUNSELOR OFFICE138FCOUNSELOR RECEPTION138GNURSE OFFICE	125	CLASSROOM
12bASCIENCE STORAGE ROOM127OFFICE127ASTORAGE128STUDENT SERVICE128ELEVATOR128EELEVATOR128SSTAIR-6129CLASSROOM135COPYWORK ROOM136PRINCIPAL OFFICE136ASTORAGE137AAUDITORIUM HOUSE137AAUDITORIUM SUPPORT137BAUDITORIUM SUPPORT137S1STAIR-8138AASSISTANT PRINCIPALOFFICEOFFICE138BCOUNSELOR OFFICE138DCOUNSELOR OFFICE138ECOUNSELOR OFFICE138FCOUNSELOR RECEPTION138GNURSE OFFICE	126	LEVEL 1 CHEM LAB
127STORAGE127ASTORAGE128STUDENT SERVICE128EELEVATOR128SSTAIR-6129CLASSROOM135COPYWORK ROOM136PRINCIPAL OFFICE136ASTORAGE137AUDITORIUM HOUSE137AAUDITORIUM STAGE137BAUDITORIUM SUPPORT137S1STAIR-8138AASSISTANT PRINCIPALOFFICEOFFICE138BCOUNSELOR OFFICE138DCOUNSELOR OFFICE138FCOUNSELOR OFFICE138GNURSE OFFICE	126A 127	OFFICE
128STUDENT SERVICE128EELEVATOR128SSTAIR-6129CLASSROOM135COPYWORK ROOM136PRINCIPAL OFFICE136ASTORAGE137AUDITORIUM HOUSE137AAUDITORIUM STAGE137BAUDITORIUM SUPPORT137S1STAIR-8138AASSISTANT PRINCIPALOFFICEOFFICE138BCOUNSELOR OFFICE138CCOUNSELOR OFFICE138FCOUNSELOR OFFICE138GNURSE OFFICE	127A	STORAGE
128EELEVATOR128SSTAIR-6129CLASSROOM135COPYWORK ROOM136PRINCIPAL OFFICE136ASTORAGE137AUDITORIUM HOUSE137AAUDITORIUM STAGE137BAUDITORIUM SUPPORT137S1STAIR-8138AASSISTANT PRINCIPALOFFICEOFFICE138BCOUNSELOR OFFICE138CCOUNSELOR OFFICE138FCOUNSELOR OFFICE138GNURSE OFFICE	128	STUDENT SERVICE
128SSTAIR-6129CLASSROOM135COPYWORK ROOM136PRINCIPAL OFFICE136ASTORAGE137AUDITORIUM HOUSE137AAUDITORIUM STAGE137BAUDITORIUM SUPPORT137S1STAIR-8138AASSISTANT PRINCIPALOFFICEOFFICE138DCOUNSELOR OFFICE138ECOUNSELOR OFFICE138FCOUNSELOR OFFICE138GNURSE OFFICE	128E	ELEVATOR
129CLASSROOM135COPYWORK ROOM136PRINCIPAL OFFICE136ASTORAGE137AUDITORIUM HOUSE137AAUDITORIUM STAGE137BAUDITORIUM SUPPORT137S1STAIR-8138AASSISTANT PRINCIPALOFFICEOFFICE138BCOUNSELOR OFFICE138DCOUNSELOR OFFICE138ECOUNSELOR OFFICE138FCOUNSELOR RECEPTION138GNURSE OFFICE	128S	STAIR-6
I 35COPYWORK ROOM136PRINCIPAL OFFICE136ASTORAGE137AAUDITORIUM HOUSE137AAUDITORIUM STAGE137BAUDITORIUM SUPPORT137S1STAIR-8138AASSISTANT PRINCIPALOFFICEOFFICE138BCOUNSELOR OFFICE138DCOUNSELOR OFFICE138ECOUNSELOR OFFICE138FCOUNSELOR RECEPTION138GNURSE OFFICE	129	CLASSROOM
1360FINITION ALL OFFICE136ASTORAGE137AUDITORIUM HOUSE137AAUDITORIUM STAGE137BAUDITORIUM SUPPORT137BAUDITORIUM SUPPORT137S1STAIR-8138AASSISTANT PRINCIPALOFFICEOFFICE138BCOUNSELOR OFFICE138CCOUNSELOR OFFICE138ECOUNSELOR OFFICE138FCOUNSELOR OFFICE138GNURSE OFFICE	135	
137AUDITORIUM HOUSE137AAUDITORIUM STAGE137BAUDITORIUM SUPPORT137BAUDITORIUM SUPPORT137S1STAIR-8138AASSISTANT PRINCIPALOFFICEOFFICE138BCOUNSELOR OFFICE138DCOUNSELOR OFFICE138ECOUNSELOR OFFICE138FCOUNSELOR OFFICE138GNURSE OFFICE	136A	STORAGE
137AAUDITORIUM STAGE137BAUDITORIUM SUPPORT137S1STAIR-8138AASSISTANT PRINCIPALOFFICEOFFICE138BCOUNSELOR OFFICE138CCOUNSELOR OFFICE138DCOUNSELOR OFFICE138ECOUNSELOR OFFICE138FCOUNSELOR RECEPTION138GNURSE OFFICE	137	AUDITORIUM HOUSE
137BAUDITORIUM SUPPORT137S1STAIR-8138AASSISTANT PRINCIPALOFFICEOFFICE138BCOUNSELOR OFFICE138CCOUNSELOR OFFICE138DCOUNSELOR OFFICE138ECOUNSELOR OFFICE138FCOUNSELOR RECEPTION138GNURSE OFFICE	1 <u>37</u> A	AUDITORIUM STAGE
137S1STAIR-8138AASSISTANT PRINCIPALOFFICEOFFICE138BCOUNSELOR OFFICE138CCOUNSELOR OFFICE138DCOUNSELOR OFFICE138ECOUNSELOR OFFICE138FCOUNSELOR RECEPTION138GNURSE OFFICE	137B	AUDITORIUM SUPPORT
138AASSISTANT PRINCIPALOFFICE138BCOUNSELOR OFFICE138CCOUNSELOR OFFICE138DCOUNSELOR OFFICE138ECOUNSELOR OFFICE138FCOUNSELOR RECEPTION138GNURSE OFFICE	137S1	STAIR-8
OFFICE138BCOUNSELOR OFFICE138CCOUNSELOR OFFICE138DCOUNSELOR OFFICE138ECOUNSELOR OFFICE138FCOUNSELOR RECEPTION138GNURSE OFFICE	138A	ASSISTANT PRINCIPAL
138DCOUNSELOR OFFICE138CCOUNSELOR OFFICE138DCOUNSELOR OFFICE138FCOUNSELOR RECEPTION138GNURSE OFFICE	1790	
138DCOUNSELOR OFFICE138ECOUNSELOR OFFICE138FCOUNSELOR RECEPTION138GNURSE OFFICE	1380	COUNSELOR OFFICE
138ECOUNSELOR OFFICE138FCOUNSELOR RECEPTION138GNURSE OFFICE	138D	COUNSELOR OFFICE
138FCOUNSELOR RECEPTION138GNURSE OFFICE	138E	COUNSELOR OFFICE
138G NURSE OFFICE	138F	COUNSELOR RECEPTION
	138G	NURSE OFFICE

4 FIRST FLOOR ROOM 100J - POWER DEMOLITION

	FLOOR ROOM SCHDULE
NO.	ROOM NAME
3004	
300A	
3000	STAFE & LINISEX TOUET
300D	JANITOR CLOSET
300E	JANITOR CLOSET
300F	STORAGE
300G	GIRL'S STUDENT TOILET
300H	TOILET
3001	STAFF TOILET
300J	JANITOR CLOSET
300K	GIRL'S STUDENT TOILET
300L	CORRIDOR
300M	CORRIDOR
300N	CORRIDOR
3000	CORRIDOR
302	CLASSROOM
302S	STAIR-2
304	CLASSROOM
305	STEM NETWORKING LAB
305S	STAIR-1
310	TEACHER WORK AREA
311	CLASSROOM
312	CLASSROOM
513	
2135	
314 716	
310	
316S	
31/A 710	
310 319A	
310	
320	I FVFL 2 SCIENCE LAR
3205	STAIR-5
321	CLASSROOM
322	COMPUTER LAB SR
_322A	TECHNOLOGY STORAGE
323	CLASSROOM
324	SCIENCE LAB
<u>324</u> A	SCIENCE OFFICE
324A 324B	SCIENCE OFFICE SCIENCE STORAGE ROOM
324A 324B 325	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM
324A 324B 325 325A	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE
324A 324B 325 325A 327	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE CLASSROOM
324A 324B 325 325A 327 328	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE CLASSROOM SCIENCE LAB
324A 324B 325 325A 327 328 328A	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA
324A 324B 325 325A 327 328 328A 328A 328B	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM
324A 324B 325 325A 327 328 328A 328B 328B 328S	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6
324A 324B 325 325A 327 328 328A 328A 328B 328S 329 330	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM
324A 324B 325 325A 327 328 328A 328A 328B 328S 329 330	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM
324A 324B 325 325A 327 328 328A 328B 328B 328S 329 330 330A 330A 332	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM
324A 324B 325 325A 327 328 328A 328A 328B 328S 329 330 330A 332 330A 332 333	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM
324A 324B 325 325A 327 328 328A 328A 328B 328S 329 330 330A 330A 332 333 334	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM
324A 324B 325 325A 327 328 328A 328B 328B 328S 329 330 330A 330A 332 333 334 335	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM
324A 324B 325 325A 327 328 328A 328B 328S 328B 328S 329 330 330A 332 330 330A 332 333 334 335 336	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM TEACHER OFFICE CLASSROOM
324A 324B 325 325A 327 328 328A 328B 328S 328S 328S 329 330 330A 330A 332 333 334 335 336 337	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM
324A 324B 325 325A 327 328 328A 328B 328B 328B 328S 329 330 330A 330A 332 330 330A 332 333 334 335 336 337 337A	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM
324A 324B 325 325A 327 328 328A 328B 328B 328S 329 330 330A 332 330 330A 332 333 334 335 336 337 337A 338	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM
324A 324B 325 325A 327 328 328A 328B 328B 328S 329 330 330A 330A 330A 332 330 330A 332 333 334 335 334 335 336 337 337A 338 338S-7	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7
324A 324B 325 325A 327 328 328A 328B 328B 328S 329 330 330A 330A 332 330 330A 332 333 334 335 336 337 337A 337A 338S-7 338S-8	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-7 STAIR-8
324A 324B 325 325A 327 328 328A 328B 328B 328S 329 330 330A 330A 332 330 330A 332 333 334 335 336 337 337A 337A 338 338 338 338S-7 338S-8 340	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-7 STAIR-8 CLASSROOM
324A 324B 325 325A 327 328 328A 328B 328S 328S 329 330 330A 330A 330A 330A 332 333 334 335 334 335 336 337 337A 337A 338 338S-7 338S-8 340 342	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM
324A 324B 325 325A 327 328 328A 328B 328B 328S 329 330 330A 330A 330A 332 333 334 335 336 337 337A 337A 338 338 338 338 338 338 338 338 338 33	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM
324A 324B 325 325A 327 328 328A 328B 328S 329 330 330A 330A 332 330 330A 332 333 334 335 336 337 337A 337A 337A 338 338 338 338 338 338 338 338 338 33	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM
324A 324B 325 325A 327 328 328A 328B 328S 328S 329 330 330 330 330 330 330 330 332 333 334 335 336 337 337 337 337 337 337 337 338 338 338	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM OFFICE PE OFFICE PE OFFICE STAIR-9
324A 324B 325 325A 327 328 328A 328B 328B 328B 328S 329 330 330A 330A 332 330 330A 332 333 334 335 336 337 337A 337A 337A 338 338 338 338 338 338 338 338 338 33	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM
324A 324B 325 325A 327 328 328A 328B 328S 329 330 330A 330A 332 330 330A 332 333 334 335 336 337 337A 337A 337A 338 338 338 338 338 338 338 338 338 33	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM OFFICE PE OFFICE STAIR-9
324A 324B 325 325A 327 328 328A 328B 328S 328 328 328 328 328 328 328 328 328 328	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM OFFICE PE OFFICE STAIR-9
324A 324B 325 325A 327 328 328A 328B 328B 328B 328S 329 330 330A 330A 330A 332 333 334 335 336 337 337A 337A 337A 338 338 338 338 338 338 338 338 338 33	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
324A 324B 325 325A 327 328 328A 328B 328S 329 330 330 330 330 330 330 330 330 330 33	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
324A 324B 325 325A 327 328 328A 328B 328S 328 328 328 328 328 328 328 328 328 328	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM
324A 324B 325 325A 327 328 328A 328B 328S 329 330 330A 330A 332 330 330A 332 333 334 335 336 337 337A 337A 337A 337A 338S-7 338S-8 340 342 344 367 338S-8 340 342 344 367 367S	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
324A 324B 325 325A 327 328 328A 328B 328S 329 330 330 330 330 330 330 330 330 330 33	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM
324A 324B 325 325A 327 328 328A 328B 328S 329 330 330A 332 330 330A 332 333 334 335 336 337 337A 337A 337A 338S-7 338S-8 340 342 344 367 338S-8 340 342 344 367 338S-8	SCIENCE OFFICE SCIENCE STORAGE ROOM CLASSROOM STORAGE CLASSROOM SCIENCE LAB TEACHER WORK AREA SCIENCE STORAGE ROOM STAIR-6 CLASSROOM CLASSROOM CLASSROOM STORAGE CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM STAIR-7 STAIR-8 CLASSROOM CLASSROOM OFFICE PE OFFICE STAIR-9
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1 THIRD FLOOR ROOM 3001 AND 300H - LIGHTING DEMOLITION



 \searrow









3 THIRD FLOOR ROOM 300G - LIGHTING DEMOLITION

4 THIRD FLOOR ROOM 300G - POWER DEMOLITION



DORDOGAN CLARK & ASSOCIATES INC
ARCHITECTS · ENGINEERS : www.cordoganclark.com A U R O R A C H I C A G O 960 RIDGEWAY AVENUE 716 NORTH WELLS STREET AURORA, ILLINOIS 60556
TEL 630.896.4678 TEL 312.943.7300 FAX 630.896.4987 FAX 312.943.4771
SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS
PROVIDE AOR/EOR STAMP HERE
LAKE VIEW HIGH SCHOOL 4015 NORTH ASHLAND AVENUE
CHICAGO, ILLINOIS 60613
REVISIONS
NO. DATE DESCRIPTION - 2016.04.19 30% SUBMITTAL
- 2016.06.14 60% SUBMITTAL - 2017.02.14 75% SUBMITTAL
- 2017.03.02 100% SUBMITTAL - 2017.03.07 PERMIT SET
- 2017.04.04 BID SET - 2017.04.12 ADDENDUM #1
2017.04.21 ADDENDUM #2 DRAWN BY: DS
SCALE: 1/8"=1'-0" JOB:
FILE: ED2.4
ASHLAND AVE.
AREAS OF WORK: ENTIRE BUILDING EXTERIOR, ALL LEVELS
KEY PLAN WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. AN ASBESTOS MANAGEMENT PLAN IS AVAILABLE IN THE SCHOOL FOR REVIEW UPON REQUEST. NO PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATION(S) CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINDIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.
ENLARGED THIRD FLOOR – ELECTRICAL DEMOLITION PLAN
DRAWING NO. ED2.4

EXISTING SECOND ROOM NO.	G FLOOR ROOM SCHDULE ROOM NAME
200A	JANITOR CLOSET
200B	TOILET
200C	STAFF TOILET
200D	TOILET
200E	STORAGE MAIN GYNASIUM-TRACK
200G	JANITOR CLOSET
200H	TOILET
200J	BOY'S STUDENT TOILET
200k	ELECTRICAL ROOM
200M	TOILET
200N	MEN STAFF TOILET
2000	JANITOR CLOSET
200Q 200R	CORRIDOR
200S	CORRIDOR
200T	CORRIDOR
201	SMALL GYMNASIUM-WEST
2014	LOCKER ROOM
201B	PE STORAGE
201C	CORRIDOR
203	SMALL GYMNASIUM-EAST
203S 202	STAIK-9 CLASSROOM
<u>2</u> 02S	STAIR-2
204	CLASSROOM
205	SUPPORT COMPUTER LAE
205S 207	OFFICE
209	CLASSROOM
211	CLASSROOM
212	LEVEL 2 BIOLOGY LAB
212A 212B	SUILNUE PREP ROOM
213	CLASSROOM
213S	STAIR-10
215	CLASSROOM
216S 217	STAIK-4
219	CLASSROOM
220	LEVEL 1 BIOLOGY LAB
220S	STAIR-5
221	LEVEL 1 BIOLOGY LAP
222A	PREP ROOM
222B	STORAGE
223	CLASSROOM
224 225	CUMMUNITY ROOM
228	SCIENCE OFFICE
228A	STORAGE
228B	STORAGE
228E	LLEVATOR STAIR-6
229	COLLEGE & CAREER LAB
229A	TEACHER WORK AREA
229B	MDF
229C	TEACHER WORK AREA
231	OFFICE
232	LIBRARY-MAIN
232A	STORAGE
2320	TEACHER WORK AREA
237	
237A	AUDITORIUM BALCONY
237S-7	STAIR-7
<u>∠375–8</u> 238	LIBRARY WORKROOM



SECTION 01 14 11

CONSTRUCTION OPERATIONS AND SITE UTILIZATION PLAN

1.1 SUMMARY

- A. The Construction Operations Plan provides a coordinated construction environment to ensure an orderly, secure and safe operation within the existing school and the entire school property, consequently forming the basis for the Site Utilization Plan prepared by the General Contractor.
 - 1. The Commission Representative will administer the operations plan activities. All Construction Operating issues shall be channeled through and require approval by the Commission Representative.
 - 2. The Construction Operations Plan will be prepared based on the requirements of the project and in coordination with the existing school operations and program. The elements of this plan required for incorporation into the Site Utilization Plan are included in this section.

1.2 RELATED SECTIONS

- A. Refer to drawings and General Contractor's Service Agreement for information related to this section. Additional Specification Sections containing information that related to this section include, but are not limited to the following:
 - 1. Book 1: Project Information, Instructions to Bidders, and Execution Documents
 - 2. Book 2: Standard Terms and Conditions for Construction Contracts

1.3 SUBMITTALS

- A. Site Utilization Plan: Submit five (5) copies of the Site Utilization Plan required in Part 3.
 - 1. Submit proposed revisions as deemed necessary

1.4 CONSTRUCTION OPERATIONS PLAN

- A. Sequence of Work
 - 1. Milestone #1: Minimum of the following spaces:
 - a. All Door #03 Roof Work and associated tuckpointing, abatement and interior finish work.
 - b. All interior mechanical work, excluding the mechanical work at the kitchen and roof.
 - c. Library 232.
 - d. Any additional scope as scheduled by contractor.
 - 2. Substantial Completion: All remaining scope
- B. Existing: Maintain exiting as follows:

- 1. Maintain all exiting in building clear to a Public Way in a manner acceptable to the Authorities having Jurisdiction.
- 2. Maintain all domestic water service during school instruction hours.
- 3. Maintain full electrical service during school instruction hours.
- 4. Maintain all life safety systems during school instruction hours.
- 5. Maintain all phone and data service during school instruction hours.
- Academic school year 7:45 am - 3:00 pm Student regular hours 6 am - 2 pm M&Sat, 6 am - 6 pm T-TH, Building Engineer regular hours 6 am – 9 am M-F Custodian regular hours Student breakfast starts 7:15 am 4:30 pm After school programs end during the week 8:30 am - 12:30 pm, occasional Saturdays for Weekend activities school functions. Summer break 06.20.17 Last day of school for students Last day of school for teachers 06.22.17 (confirm furlough/snow days) 6 am - 2 pm M-FBuilding Engineer hours during the summer 7 am - 3:30 pm M-F Custodian hours during the summer Building Engineer vacation/time-off N/A summer First day of school for clerks 8/23/17 8/30/17 First day of school for teachers 9/5/17 First day of school for students 2018 SUMMER TO BE COORDINATED AT A LATER DATE BETWEEN CONTRACTOR, PBC AND PRINCIPAL Summer school Summer school to be conducted off site at host Dates school. Typical for both summers. Hours Rooms Doors Outdoor areas Summer programs (Orientation) 08.07.17 - 08.10.17 (8/7-8/9 for 9th graders, Dates 8/10 for other grades) 8 am - 2 pm M-THHours Auditorium, 116, 201, 203 Rooms Door 06 Doors Outdoor areas None Summer Orientation to take place for five days during 2018 summer break from 8:00 am to

C. Use of Site and Special Requirements:

CONSTRUCTION OPERATIONS AND SITE UTILIZATION PLAN

	2:00 pm in Auditorium and four non-specific classrooms. Student entry through door #06. Dates to be coordinated between PBC, Contractor and School at a later date.
Student registration during summer	
Dates	All Year. Applicable for both 2017 and 2018
	summers.
Hours	Regular School Hours. Summer Hours to be
Rooms	Main Office
Doors	Door 06
10013	
Sports teams activities during summer	
Dates	06.26.17-09.01.17
Hours	8 am – 12 pm
Rooms	School access restricted to Gym 116, Gym
	201, Gym 203, Weight Room, Field, Boys
D	Locker Room, Girls Locker Room
Doors	
	2018 Summer Sports Activities to be
	conducted off-site.
Other construction black-out dates	
Graduation ceremonies	Possible (1) day in Summer 2017 if school
	year is shortened. Summer 2018 TBD and
	must be coordinated between contractor and
Frashman arientation	$08\ 07\ 17\ -\ 08\ 09\ 17\ 8\ am\ -\ 2\ nm$
PSAT ACT AP testing	No additional 2016-2017 school year testing
rSA1, AC1, Ar testing	scheduled, 2017-2018 dates to be coordinated
	with Principal.
Other	CPS Standard of first two days of school.
	Identified as 09.05.2017 and 09.06.2017.
Other	2010 GUNDAED TO DE COODDINATED AT
	A LATER DATE BETWEEN
	CONTRACTOR, PBC AND PRINCIPAL
Other after-hours and break community	N/A
activities on campus	
······································	2018 SUMMER TO BE COORDINATED AT
	A LATER DATE BETWEEN
Other engoing or other was ming are insta-	1 Window AC Project (AC unit installation)
other ongoing or other upcoming projects	to be coordinated with MCR work Electrical
at the school	scope to be completed prior to MCR start date
	2. Awning to be installed at Door 03.
Leases at school	
Parking lot	N/A
Telecom at chimney or elsewhere	N/A
	37/4
Auditorium	N/A

Park District	N/A
Staging area(s) for each construction phase	06.22.2017-08.14.2017: Paved asphalt area at SE corner of site and portion of parking lot.
	08.14.2017 – 05.01.2018: Paved asphalt area at SE corner of site and portion of parking lot. No use of CPS parking lot. Parking lot renovations will not begin until after 06.21.2018.
	05.02.2018-06.21.2018: Athletic field, playground and paved asphalt area at SE corner of site turned over to GC for construction and staging. Parking lot must be available to CPS thru 06.21.2018.
	06.21.2108 – 08.13.2018: Parking lot turned over to GC for construction and staging.
School staff over summer break	Teachers for Orientation and Sports. Main Office personnel, regular school hours.
Contractor access after hours and during summer	Contractor to coordinate access with Building Engineer. CPS protocol to provide key access to contractor for necessary off-hours work. PBC to place contractors on CPS Safety and Security list of approved personnel to access school in order to arm/disarm security alarm. PBC to provide CPS PMO with list, as
	necessary, a minimum of 3 business days in advance of work taking place. Contractor required to provide PBC with advanced notice a minimum of 5 days in advance.

1.5 GENERAL REQUIREMENTS

- A. General Contractor shall review and be familiar with the site conditions through site visits.
- B. General Contractor to provide all temporary and permanent driveway apron and alley permits for the duration of the construction if required. The General Contractor is to pay all fees required for processing permits and is to contact and comply with all authorities and jurisdiction required for permitting.
- C. General Contractor shall provide snow removal and clear all debris in construction area.
- D. General Contractor is to provide and pay for all required permits for street access for truck delivery from the local and state jurisdiction.
- E. General Contractor shall be required to coordinate and complete the work within the contractual completion date(s) for the work as described in the Contract Documents, Time for Performance and this section. The General Contractor shall be also held responsible for meeting all related provisions as described within this section.

- F. General Contractor shall survey the site and photograph the area of construction operations. Upon completion of the work the Contractor is to restore the area to the documented condition prior to the start of work or as otherwise indicated in the Contract Documents.
- G. General Contractor is to replace all removed trees, bushes, ground covers and grass on the Chicago Public Schools' property used as part of the construction operations. Also concrete pavement walks and asphalt surfaces shall be restored to condition prior to construction.
- H. General Contractor shall coordinate work with School during Mandatory State Testing periods. Test dates should be verified with the School. No work shall be permitted in the existing facility or on the site during testing except as specifically approved by the Principal, Building Engineer, and Commission Representative. General Contractor must minimize noise in all other areas during these time periods, and if requested by the School, stop work causing the noise until testing is completed. General Contractor shall bear all costs for any loss of time or production related to Mandatory State Testing. Refer to drawing T1.2 "Site Phasing Plan" for further details.
- I. General Contractor shall coordinate and maintain all exit egress during construction as required by the City of Chicago code, other entities with jurisdiction, and as directed by CPS or their representatives. The General Contractor shall provide and maintain all materials and labor including barricades, construction fence, doors, partitions, and fire rated walls as required for safe egress. All costs for this work shall be included in the Contract Base Bid regardless of whether it is indicated in the Contract Documents or not.
- J. No deliveries will be permitted between the hours of 7:30 to 8:30 AM and 2:45 to 3:45 PM.

1.6 **PROTECTIVE FACILITIES**

The contractor must provide, at a minimum, the temporary facilities required by the authorities having jurisdiction.

- 1. Site Fence: 8'-0" high, chain link fence, Contractor Obligations.
 - a. Furnish, install and maintain to prevent unauthorized access to Site by people and animals.
 - b. Locate fence where indicated on Drawings.
 - c. Provide gates as required for access. Coordinate locations with Commission Representative.
 - d. Do not remove until other security facilities, either temporary or permanent, are in place and in operation.

1.7 SECURITY PROCEDURES

The following security procedures must be followed by the Contractor.

- A. Furnish and install fence as detailed per industry standards.
 - 1. Fencing:

- a. Furnish, install, and maintain new chain-link fence at boundary lines of all Sites included in this contract or added to this contract by change order. In addition, contiguous Site, the fence should surround the entire Site.
- b. Material:
 - 1) 9 gauge 2" galvanized steel mesh, 8 feet high
 - 2) 3" outside dimension galvanized end posts with caps
 - 3) 2" outside dimension galvanized line (intermediate) posts
 - 4) 10 ft. max. center to center, with caps
 - 5) 1-5/8" outside dimension galvanized top and bottom rails
 - 6) 12 gauge min. galvanized ties
 - 7) Required fittings for proper installation of above.
 - 8) Opaque fabric meshing affixed to fence as required by Chicago Municipal Code Section 13-32-125.
- c. Method:
 - 1) Unless otherwise indicated on the drawings, posts are to be set at a depth of no less than 3'0" below ground level and anchored in concrete to full depth. Posts shall be properly capped. End posts and line posts will be evenly spaced at a distance of no more than 10'-0" apart, center to center. Fence shall be erected with top and bottom rails of 1-5/8" o.d. and ties of no less than 12 gauge, securing the galvanized steel mesh to the rails. The bottom rail shall be placed at a distance of no greater than 2" from the bottom of the posts and shall be secured by the use of proper fittings to corner and intermediate posts. Top rail shall run continuously through line post caps and shall be fastened to end posts no less than 2" from the top by the use of proper fittings.
 - 2) Galvanized steel mesh shall be 8 feet high installed on outside of posts with salvage edge on top. Ties to be 12 gauge min. spaced as per ASTM F567 "Practice for Installation of Chain-Link Fence".
 - 3) Gates: Double 8'-0" gate with welded frame and galvanized hinges and hardware and full height fabric as per specification. Locations and number as indicated. Coordinate installation of additional gates with Commission Representative. Additional gates to be installed at Contractor's cost.
 - 4) Opaque fabric mesh "shall be affixed to the construction site fence. Such fabric meshing shall be capable of allowing air to pass but impervious to dust and dirt. The fabric meshing shall be of a fineness such that no material over 1/8 inch in size or material splatters, laitance or other products of the construction operation shall pass through the mesh. Such mesh fabric shall be the full height of the fence and cover the entire length of the fence including any gated openings. The fabric meshing and fence shall not contain any advertisements." Chicago Municipal Code Section 13-32-125(2)(a).
- B. The Contractor is to set up and stage the entire project within the boundaries of the construction fence. The General Contractor is responsible for maintaining and modifying the fence as necessary and as approved in the Site Utilization Plan for the life of the project. Removal and disposal of the fence at the conclusion of the project is the responsibility of the General Contractor.

- C. The Building Engineer or other CPS staff as approved by CPS is required to be present at all times work is in progress in the existing Building. If advance arrangements are not made with CPS, the General Contractor shall be responsible for all overtime costs for the CPS staff member for work outside of normal working hours. Overtime arrangements for CPS staff includes weekends, holidays, and generally hours beyond that listed in Site Restrictions above. IUOE Local 143 Holidays are as follows (Saturday holidays are observed on Friday, Sunday holidays are observed on Monday):
 - 1. New Year's Day.
 - 2. Martin Luther King Jr.'s Birthday.
 - 3. Lincoln's Birthday.
 - 4. Presidents Day.
 - 5. Pulaski Day.
 - 6. Memorial Day.
 - 7. Independence Day.
 - 8. Labor Day.
 - 9. Columbus Day.
 - 10. Veterans Day.
 - 11. Thanksgiving.
 - 12. Friday after Thanksgiving.
 - 13. Christmas Day.
- D. Critical Dates affecting Construction Timeline

1.	Shut-off of Heating System	April 01
2.	School Testing Dates per Sect. 1.5-H	No 2016-2017 Academic year dates. 2017-2018
		Academic year to be scheduled at a later date.
3.	Spring Break	2017-2018 Spring Break to be coordinated at a
		later date
4.	Last Day of School	06.20.2017. 2018 to be coordinated at a later
		date
5.	Summer Vacation	06.21.2017 – 09.04.2017. 2017-2018 Academic
		year to be scheduled at a later date.
6.	Start of Heating Season	October 01
	6	

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SITE UTILIZATION PLAN

A. General Contractor is to prepare and submit to the Commission Representative, the Building Engineer, and the AOR for approval a Site Utilization Plan based on the Construction Operations requirements outlined in this section. Mobilization on-site is not to occur until approval of the Site Utilization Plan is obtained. If requested by the Contractor, a preliminary meeting to review site elements and Construction Operations with the Commission Representative, AOR, and School staff prior to submission of the Site Utilization Plan shall be held.

- B. The Site Utilization Plan shall be provided in a full-size graphic drawing format (36 x 48 inches) on 11 x17 inch prints/plots. Provide a separate plan for the site and for each floor of the existing building where work is being performed. Modifications to the format and sheet size shall be permitted if pre-approved by the Commission Representative and if proposed modifications shall facilitate preparation, presentation and review of the Site Utilization Plan. Electronic copies of the Contract Document drawings as appropriate shall be provided for this purpose upon request. The Site Utilization Plan shall at a minimum include the following elements:
 - 1. Title block information including School Name, Contract Number, General Contractor, Building floor/level information, and current plan date.
 - 2. Building footprint of both new (if applicable) and existing buildings, trees, landscaping, paving, drainage structures, existing and ornamental fencing and other important site features.
 - 3. Areas of staging for students and staff, student drop-off points, existing school entrances and exits, staff parking areas, and traffic patterns for both construction and non-construction vehicles.
 - 4. Denotation of the limits of construction and required construction fencing including any existing fencing to remain.
 - 5. Denotation of required covered construction barricade walkways
 - 6. Denotation of areas allowed for staging purposes: construction personnel parking, material storage, and construction trailer(s). Such activities are to only take place in areas designated.
 - 7. Denotation of any specific site conditions required to be observed such as keeping alleys clear next to adjacent properties, and any other issues listed on the Construction Operations Site Plan.
 - 8. Denotation of areas allowed for site access gates.
 - 9. Denotation of areas of work within the existing building for the period of time covered by the Site Utilization Plan, coordinated with the Project Schedule. Each area should indicate planned beginning and end dates for work in that area. Areas where all work is completed are to be noted.
 - 10. Construction worker ingress/egress, material staging areas in the existing building.
 - 11. Proposed locations of temporary protection, barricades, and temporary walls within the existing building.
 - 12. Denotation of all temporary exits and path of travel.
 - 13. Indication of specific areas and their required contractual completion dates. If overtime work is required to meet the project dates it shall be at no additional cost to the Chicago Public Schools.

3.2 SITE UTILIZATION PLAN UPDATES

- A. The General Contractor is required to submit for approval updated Site Utilization Plans whenever conditions in the current approved plan have changed. Approval is required prior to proceeding on any changed conditions not previously approved. Requirements for updating include the following:
 - 1. In coordination with the project schedule provide detailed information regarding work in the existing building including phasing, vacation of existing in-use areas, and any other information requested by the Commission Representative, Principal, or Building Engineer.

2. Revision to the site plan to reflect changing conditions regarding construction fencing, ingress and egress, student and staff staging, construction deliveries, areas of stored materials, parking, and any other construction facility revisions.

END OF SECTION

SECTION 12 93 00

SITE FURNISHINGS

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings: Site Development (SIT)
- B. Book 1: Project Information, Instructions to Bidders, and Execution Documents
- C. Book 2: Standard Terms and Conditions for Construction Contracts
- D. Book 3: Volume III of IV Technical Specifications Site Development (SIT)

1.2 SUMMARY

- A. The work in this section includes fabrication and installation of the following items as shown on the drawings and specified herein:
 - 1. 8' LONG Backless Bench
 - 2. 6' LONG Backed Bench
 - 3. 8' LONG Backed Bench
 - 4. Trash Receptacle
 - 5. Bike Rack
 - 6. 4'x10' Tree Grate
 - 7. 5'x10' Tree Grate

1.3 SUBMITTALS

- A. Product Data: Submit manufacturer's specifications, installation instructions and warrantee for all products specified herein.
- B. Samples: Submit sample for each type of finish indicated.

C. Shop Drawing: Submit shop drawings for backless bench, backed bench, trash receptacle and bike rack.

1.4 QUALITY ASSURANCE

A. Shop Assembly: Preassemble in shop to extent possible to minimize field splicing and assembly. Disassemble only as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinate installation.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. 8' LONG Backless Bench see drawing for color, finish, dimensions and quantities.
 - a) Precast Concrete Circular Bench shall be furnished and installed by the contractor.
 - b) Manufacturers:
 - i. Contact: Columbia Cascade Company 1300 S.W. Sixth Avenue Suite 310 Portland, Oregon 97201 (503) 223-1157
 - ii. Model: TIMBERFOR RENAISSANCE
 - MODEL NO. 2802-6-01
 - SEAT WITH WELDED INTERMEDIATE ARMTESTS COLOR: BLACK
 - iii. Or approved equal
- B. 6' LONG Backed Bench see drawing for color, finish, dimensions and quantities.
 - a) Backed Bench shall be furnished and installed by the contractor.
 - b) Manufacturers:
 - i. Contact: Columbia Cascade Company 1300 S.W. Sixth Avenue Suite 310 Portland, Oregon 97201 (503) 223-1157
 - ii. Model: TIMBERFOR RENAISSANCE
 - MODEL NO. 2807-6
 - BENCH WITH INTERMEDIATE ARMRESTS COLOR: BLACK
 - iii. Or approved equal

- C. 8' LONG Backed Bench see drawing for color, finish, dimensions and quantities.
 - a) Backed Bench shall be furnished and installed by the contractor.
 - b) Manufacturers:
 - i. Contact: Columbia Cascade Company 1300 S.W. Sixth Avenue Suite 310 Portland, Oregon 97201 (503) 223-1157
 - ii. Model: TIMBERFOR RENAISSANCE
 - □ MODEL NO. 2807 8
 - BENCH WITH INTERMEDIATE ARMRESTS COLOR: BLACK
 - iii. Or approved equal
- D. Trash Receptacle see drawing for color, finish, dimensions and quantities.a) Trash Receptacle shall be furnished and installed by the contractor.
 - b) Manufacturers:
 - i. Contact: Victor Stanley, Inc.
 - P.O. Drawer 330
 - Dunkirk, MD 20754 USA
 - 1.800.368.2573
 - Model: S-42
 - Color: black
 - Or approved equal
- E. Bike Rack the work includes fabrication and installation of the items shown on the drawings, as well as the color, finish, dimensions and quantities.
 - a) Manufacturers: i. Conta
 - Contact: NuToys Leisure Products P.O. Box 2121 La Grange, IL 60525 (800) 526-6197
 - ii. Model: 67-947
 - a) S-2 Surface Mount
 - b) Color: Black
 - iii. Or approved equal
- F. 4',x10', Tree Grate The work includes fabrication and installation of the item shown on the drawings, as well as the color, finish, dimensions and quantities.
- G. 5',x10', Tree Grate The work includes fabrication and installation of the item shown on the drawings, as well as the color, finish, dimensions and quantities.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Contractor must examine the areas and the conditions under which all items are to be installed and notify the Architect in writing of conditions detrimental to the proper and timely completion of the work. Do not proceed with work until unsatisfactory conditions have been corrected in a manner acceptable to the owner's representative.

3.2 PREPARATION

- A. Coordinate setting drawings, diagrams, templates, instructions, and directions for installation of anchorages such as sleeves, concrete inserts, anchor bolts and miscellaneous items having integral anchor which are to be imbedded in concrete or masonry. Coordinate delivery of such items to project site.
- B. Field Measurements: Take field measurements prior to preparation of shop drawings and fabrication where possible. Do not delay progress. Allow for adjustments during installation where taking field measurements before fabrication might delay work.
- C. Layout: Mark the locations of site furnishings with chalk, stakes or other appropriate marking devices for the Landscape Architect's review prior to installation. The Landscape Architect may, at his option, require the Contractor to layout the actual assembled furnishing on the site prior to installation.

3.3 INSTALLATION

- A. General
 - 1. Fit exposed connections accurately together to form tight, hairline joints.
 - 2. Perform cutting, drilling and fitting required for installation of site furnishings. Set work accurately in location, alignment and elevation plumb, level, true, non-rocking and free of rack, measured from established lines and levels. Do not weld, cut or abrade surfaces of components which have been coated or finished after fabrication, and are intended for field connection by mechanical means without further cutting or fitting.
 - 3. Setting: Set furnishings straight, plumb, level true to line, and at elevations indicated on the drawings, or in the event none are indicated, flush with the adjacent paving or other surface.

3.4 ADJUST AND CLEAN

- A. Protect finish of all items from damage during construction period by use of temporary protective coverings used by manufacturer. Remove protective covering at project completion or when directed by Architect. Restore finishes damaged during installation and construction period so that no evidence remains of connection work. Return items which cannot be refinished in the field to the shop; make required alterations and refinish entire unit or provide new units as required.
- B. Touch up painting: Immediately after each erection, clean field welds, bolted connections, abraded areas of shop paint, and paint-exposed areas with some same material. Surface preparation, prime coat, and finish coast to be in accordance with manufacturer's instructions.

END OF SECTION

SECTION 32 18 23.39

SYNTHETIC RUNNING TRACK SURFACING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes surfacing of track and field facilities as indicated and as specified.

1.2 SUBMITTALS

- A. Product: Submit complete printed data on surfacing materials.
- B. Shop Drawings: Submit layout drawings for track installation showing lines and symbols.

1.3 QUALITY ASSURANCE

- A. Codes and Standards: Comply with the current guidelines set forth by the National Federation of State High School Associations (NFSHSA) and local regulations.
- B. Installer: Regularly engaged in the installation of the selected track synthetic surfacing for a minimum of five (5) years of primary business and acceptable to the system manufacturer.
- C. Pre-Installation Meeting: Convene a pre-installation meeting at the site before installation starts. Require attendance of parties directly affecting works of this Section including contractor, Architect, asphalt concrete paving installer, and synthetic surfacing installer. Review condition of surface including tolerances. Do not begin work until conditions are acceptable for a successful installation.

1.4 WARRANTY

A. Provide a three (3) year manufacturer's warranty against workmanship and materials including defects such as bubbling, peeling, delamination, loss of integrity and excessive wear.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Manufacturers: Subject to compliance with requirements, one of the following;
 - 1. Seal-Flex LR-6 rubber running surface; Seal-Flex Corp.
 - 2. Plexitrac, California Products Co.

2.2 MATERIALS

A. Composition: Multiple applications of stranded or granulated rubber aggregate bound by successive applications of latex compounds to achieve a total depth of 3/8 inch as specified.

32 18 23.39 - 1 SYNTHETIC RUNNING TRACK SURFACING

- B. Properly ground and graded to a minus 1/4 inch to a plus 16 gradation.
- C. Binder: Pigmented latex mixture of carboxylated styrene-butadiene copolymer as formulated by surfacing system producer.
- D. Prime and first coat: High adhesion latex as formulated by surfacing system producer.
- E. Body and surface: Water resistant latex as formulated.
- F. Protectant coat: High ultra violet resistant latex as formulated.

PART 3 - EXECUTION

3.1 JOB SITE CONDITIONS/PREPARATION

- A. Inspect the surface (track surface installer, paving installer, and General Contractor.) for conformity of planarity requirements and conditions detrimental to a successful installation. Start of installation will evidence acceptance.
- B. Clean surface of contaminates which could inhibit bond.
- C. No phase of construction shall take place unless the ambient temperature is above 50 degrees Fahrenheit, nor when rain is imminent or falling, nor when other conditions are unsuitable.

3.2 APPLICATION

- A. Place binder with a mixer equipped with a pump and spray system capable producing 10 to 40 pounds per square inch.
- B. Apply base rubber aggregate at approximately 2 lbs. per square yard. Spray with latex composition with dilution and additives at approximately .2 gallons per square yard.
- C. Apply successive layers until 3/8" thickness is achieved. Apply surface rubber aggregate and final sheen coat to provide UV protection, texture and spike protection to the final base course.
- D. Provide total finished thickness of minimum 3/8" and finished weight of the system not be less than 9.4 lbs. per square yard of surface.
- E. Stripe all lane lines, in accordance with NFSHSA standard using marking paint warranted not to fade or wear off during the warranty period.
- F. Apply marking under the direction of a party experienced in the layout of track markings.

END OF SECTION







			EXTERIOR S	IDE OF THE								
	L	SERVICE	208/120V-	3PH-4W	208	V	NF	utrai rus:	100% COPF	PFR		
		MAINS	2004 MCB		200	·	GE	OUND BUS	100% COPF	PFR		
	MAIN BUS RATING A	ND TYPE:	225A COPP	FR			01	MOUNTING	SURFACE	2.1		
	INTERRUPT	RATING:	42,000	AIC				ENCLOSURE:	NEMA 4X			
		0.07			CONN					0.01		
DE	SCRIPTION	NO.	BREAKER	LOAD	A	B	C	LOAD	BREAKER	NO.	DE	SCRIPTION
-	POLE P4 SPORTS FIELD LIGHTING	1	30A-3P	2933	5866			2933	30A-3P	2	L	POLE P1 SPORTS FIELD LIGHTING
	(8) F1 AND (1) F3	3	_	2933		5866		2933	-	4	L	(8) F1 AND (1) F3
	-	5	_	2933			5866	2933	-	6	L	-
-	POLE P5 SPORTS FIELD LIGHTING	7	30A-3P	2933	5866			2933	30A-3P	8	L	POLE P2 SPORTS FIELD LIGHTING
-	(8) F1 AND (1) F3	9	-	2933		5866		2933	-	10	L	(8) F1 AND (1) F3
_	-	11	_	2933			5866	2933	-	12	L	-
L	POLE P6 SPORTS FIELD LIGHTING	13	30A-3P	2933	5133			2200	20A-3P	14	L	POLE P3 SPORTS FIELD LIGHTING
L	(8) F1 AND (1) F3	15	_	2933		5133		2200	-	16	L	(6) F1 AND (1) F3
_	-	17	_	2933			5133	2200	-	18	L	-
L	BOLLARD LIGHTS (2) F4's	19	15A-1P	50	50				20A-1P	20		SPARE
	SPARE	21	25A-3P			600		600	15A-2P	22	L	PARKING LOT POLES (8) F2's
	-	23	_				600	600	-	24	L	-
	-	25	_		0				20A-1P	26		SPARE
	SPARE	27	20A-1P			400		400	20A-1P	28	L	PARKING AREA LIGHTING TIMECLOCK
N	IRRIGATION PUMP	29	20A-1P	1200			1600	400	20A-1P	30	L	LIGHTING CONTROL CONTACTOR CABINET
	SPARE	31	20A-1P		0				20A-1P	32		SPARE
	SPARE	33	20A-1P			0			20A-1P	34		SPARE
	SPARE	35	20A-1P				0		20A-1P	36		SPARE
	SPARE	37	20A-1P		0				20A-1P	38		SPARE
	SPARE	39	20A-1P			0			20A-1P	40		SPARE
	SPARE	41	20A-1P				0		20A-1P	42		SPARE
					16915	17865	19065					
					TOTAI	l va per f	PHASE					
			CONNECTED	LOAD			DEMAN) FACTOR	DEMAN	ND LOAI	D	
L LIGHTING 52.65				KVA		1.00		52.65	KVA			
R RECEPTACLES 0.00					KVA		0.50		0.00	KVA		
	TOT		CTED LOAD.	52 65	KVA		τοται ηγι	MAND LOAD.	52.6	K\/Δ		
	1017	L CONNE	ULD LUND.	02.00	1 8 1 / 1	Τı	OTAL DEMAN	CURRENT.	146 13	AMPS		

PANELBOARD L-BN (REVISED)												
	LO	CATION:	BASEMENT (ORRIDOR @	WEIGHT RO	ТОМ						
	S	208/120V-	3PH-4W	208	V NEUTRAL BUS: 100% COPPER							
				GROUND BUS: 100% COPPER								
	MAIN BUS RATING ANI	D TYPE:	225A COPPI	ER				MOUNTING:	SURFACE			
	INTERRUPT	RATING:	42,000	AIC			E	ENCLOSURE:	NEMA 1			
		CCT.	CIRCUIT	CIRCUIT	CONN	IECTED LOAD	(VA)	CIRCUIT	CIRCUIT	CCT.		
DEC		NO.	BREAKER	LOAD	А	В	С	LOAD	BREAKER	NO.	DES	
R	EXISTING	1	20A-1P	800	1600			800	20A-1P	2	L	EXISTING
R	EXISTING	3	20A-1P	800		1600		800	20A-1P	4	L	EXISTING
R	EXISTING	5	20A-1P	800			1600	800	20A-1P	6	L	EXISTING
R	EXISTING	7	20A-1P	800	1600			800	20A-1P	8	L	EXISTING
R	EXISTING	9	20A-1P	800		1600		800	20A-1P	10	L	EXISTING
R	EXISTING	11	20A-1P	800			1600	800	20A-1P	12	L	EXISTING
R	EXISTING	13	20A-1P	800	1600			800	20A-1P	14	L	EXISTING
R	EXISTING	15	20A-1P	800		1600		800	20A-1P	16	L	EXISTING
R	EXISTING	17	20A-1P	800			1600	800	20A-1P	18	L	EXISTING
R	EXISTING	19	20A-1P	800	1600			800	20A-1P	20	L	EXISTING
R	EXISTING	21	20A-1P	800		1600		800	20A-1P	22	L	EXISTING
R	EXISTING	23	20A-1P	800			1600	800	20A-1P	24	L	EXISTING
R	EXISTING	25	20A-1P	800	1600			800	20A-1P	26	L	EXISTING
R	FIELD ITENDIFIED SPARE	27	20A-1P	800		1600		800	20A-1P	28	L	EXISTING
R	FIELD ITENDIFIED SPARE	29	20A-1P	800			1600	800	20A-1P	30	L	EXISTING
R	EXISTING	31	20A-1P	800	1600			800	20A-1P	32	L	EXISTING
R	EXISTING	33	20A-1P	800		1600		800	20A-1P	34	L	EXISTING
R	EXISTING	35	20A-1P	800			1600	800	20A-1P	36	L	EXISTING
R	EXISTING	37	20A-1P	800	17715			16915/2	200A-3P	38	L	L-SITE
R	EXISTING	39	20A-1P	800		18665		17865	سيم	40	L	L-SITE
R	EXISTING	41	20A-1P	800			19865	19065	_	42	L	L-SITE
					27315	28265	29465		I			
	TOTAL VA PER PHASE											
			CONNECTED	LOAD			DEMAND	FACTOR	DEMANI	D LOAI)	
	L LIGHTING 68.25 KVA			KVA		1.00		68.25 I	KVA			
R RECEPTACLES 16.80 KVA			KVA		0.50		8.40	KVA				
	TOTAL	CONNE	CTED LOAD:	85.05	KVA		TOTAL DEM	MAND LOAD:	76.6	KVA		
						TC	TAL DEMAN	CURRENT:	212.75	AMPS		

MULTIPLE FEED THROUGH CIRCUITS

NEW 200A 1207/208V PANEL L-SITE NEW LIGHTING CONTROL CONTROL CONTROL CONTACTOR PANEL LIGHTING CONTROL CONTACTOR PANEL SHALL BE RATED FOR 200 AMPS, 120/208 VOLTS, THREE-PHASE, 4-WIRE.

TYPICAL BRANCH CIRCUIT FEEDERS TO NEW POLE LIGHTS

}└NEW 4 #3/0 & 1#6 GRD., 2" CONDUIT

								PUBLIC SCHOOLS
FIXTURE SYMBOL	DESCRIPTION	LAMP L4	LIGHT FIXTURE	SCHEDU Sf Mo	LE	MAN	IJFACTURFR	DAVID MASON & ASSOCIATES
NO.		TYPE	DRIVER					404 N. MILWAUKEE AVE. CHICAGO, IL 00034 (312) 884–5100
F1 =	POLE MOUNTED SPORTS FIELD L FIXTURE	ED LED 11 EA	OOW ELEC 208V	AT 70' FINISH	–0" ABOVE SPE	CGRADE AFL-1100-NW-60X60- HLINE - STADIUM 1000 LED	-90-305V-BL	-M-dbHMS
F2	PARKING LOT ARM MOUNT WITH FIXTURES AT 90 DEGREES COM WITH 30'-O" HIGH STRAIGHT STE POLE AND CONCRETE BASE. POL SHALL RESIST UP TO 120 MPH GUSTS	TWO PLETE EL LED 15 E E EA	50W ELEC 208V	POLE	MCC MOUNTED PHII LITH	GRAW EDISON – TLM–E03–LED- LLIPS LIGHTING – SFA–1–3–14 HONIA – CSX1LED SERIES	-E1-T3-BK OLA-NW-UNV-NP-LF	303 W. ERIE ST., SUITE 510 CHICAGO, IL 60654 (312) 915-0557
F3	LED PEDESTRIAN LIGHT FIXTURE. FIXTURE SHALL BE MOUNTED TO SPORTS FIELD LIGHTING POLE	LED 7	70W ELEC 208V	POLE AT 15' FINISH	MOUNTED U.S. – O"ABOVE PHIL ED GRADE LITH	.A LIGHTING DSTP1-2-64LED-3 LLIPS LIGHTING IONIA LIGHTING	50-NW-120-XPD1-RAL-9005-T-PC+V	A I f a m a n u Inc. Iandscape architecture + urban design + planning 1700 W. IRVING PARK RD., SUITE 202 CHICAGO, IL 60613 (773) 528-7492
F4 0	48" TALL LED BOLLARD COMPLE WITH 12" DIAMETER X 36" DEEP CONCRETE BASE	TE LED 2	24W ELEC 120V	ON	GRADE FC LITH	LIGHTING FCB840-120V-4K 120 LLIPS LIGHTING IONIA LIGHTING	00-BK-ABC	
SPORTS FIELD LIGHTING POLE	70' ROUND TAPERED GALVANIZED STEEL POLE COMPLETE WITH LUMINAIRE CROSSARMS FOR MOU OF FIXTURES AND PRECAST CON BASE. POLE SHALL RESIST UP 120 MPH WIND GUSTS) JNTING CRETE TO		CONCF	RETE BASE MUS	SCO LIGHTING 1 SLX-21D-80-70-G-G34SS-E		
1 2 3 4 5 6 7 8 8	ELECTRICAL CONTRACTOR SHALL TO ARCHITECT/ENGINEER FOR RE FIXTURES SHALL HAVE APPROPRI THE ARCHITECT AND ENGINEER S REJECTED, CONTRACTOR SHALL F FIXTURES SHALL INCLUDE ACCES PRIOR TO ORDERING LIGHTING EC LAMPS SHALL BE PROVIDED AND EACH POLE SHALL BE PROVIDED SWITCH, AND (4) 15A-2P BRANC CAPACITORS, BALLASTS, CONTROL ACCOMMODATE UP TO TWELVE LU EACH POLE SHALL BE GALVANIZE EACH POLE SHALL BE GALVANIZE CAPACITORS, BALLASTS, CONTROL ACCOMMODATE UP TO TWELVE LU EACH POLE SHALL BE GALVANIZE IN BUS RATING AND TYPE: 225A COPP INTERRUPT RATING: 42,000	PROVIDE SUBMITTAL OF EVIEW AND APPROVAL F ATE UL LABEL, DAMP, SHALL APPROVE FIXTUR PROVIDE SPECIFIED PRO SORIES FOR INSTALLAT QUIPMENT, THE CONTR/ INSTALLED ACCORDING WITH A FACTORY BUIL CH CIRCUIT FUSES (EA - UNIT, SPARE FUSES, JMINAIRES. ED STEEL COMPLETE W	N FULL LIGHTING FIXTURE PU PRIOR TO ORDERING LIGHTING OR WET AS REQUIRED BY LC RE SUBSTITUTIONS PRIOR TO E ODUCT. TION ACCORDING TO LOCAL AN PACTOR SHALL VERIFY LOCATION G TO THE ATTACHED FIXTURE LT NEMA 3R, 120/208V THRE ACH LUMINAIRE INDIVIDUALLY F POLE ALIGNMENT BEAM SWITC WITH SERVICE HAND HOLE, PRE WITH SERVICE HAND HOLE, PRE M M M NEUTRAL BUS: GROUND BUS: MOUNTING: ENCLOSURE:	RCHASE FOR FIXTURES. DCAL CODES. DID. CONTRA ID NATIONAL NS. SCHEDULE. E-PHASE ELI USED), WIRE CH, ETC. MOU ECAST CONCR CH, ETC. MOU ECAST CONCR 100% COPPER 100% COPPER SURFACE NEMA 1	ARCHITECT'S AI	PPROVAL PRIOR TO ORDER. SU UPPLY A SAMPLE AND/OR PHOT ONENTS ENCLOSURE COMPLETE EM WITH QUICK CONNECT PLUG AT TEN FEET ABOVE FINISHED POLE LENGTH WIRE HARNESS.	JBMIT THREE (3) SETS OF CATALOG CUTS TOMETRIC DATA. IF SUBSTITUTION IS WITH 30A-3P JAIN DISCONNECT ENCLOSURE SHALL HOUSE ALL GRADE ENCLOSURE SHALL	LAKE VIEW HIGH SCHOOL 4015 NORTH ASHLAND AVENUE CHICAGO, ILLINOIS 60613 PBC PROJECT NO.: 05095 CPS PROJECT NO.: 2016-46211-SIT REVISIONS NO. DATE DESCRIPTION - 03.22.16 60% SUBMITTAL - 04.05.16 100% SUBMITTAL - 04.06.17 OTB SUBMITTAL - 04.06.17 OTB SUBMITTAL - 04.25.17 ADDENDUM #02 DRAWN BY: BS CHECKED BY: VA SCALE: 1"=20' DMA JOB NO: 2016007-01 FILE: NORTH
DESCRIPTION	CCT. CIRCUIT NO. BREAKER 1 20A-1P	CIRCUIT CONNEC LOAD A 0	CTED LOAD (VA) CIRCUIT B C LOAD	CIRCUIT C BREAKER N 20A-1P	CT. NO. 2 EXISTIN	N IG		W Berteau Ave
EXISTING EXISTING EXISTING	3 20A-1P 5 20A-1P 7 20A-1P	0	0 0	20A-1P 20A-1P 20A-1P	4 EXISTIN 6 EXISTIN 8 FYISTIN			W Warner Ave W Balle Blaine Ave
EXISTING EXISTING	9 20A-1P 11 20A-1P		0 0	20A-1P 20A-1P	10 EXISTIN 12 EXISTIN	IG		N Bark School W Cuyler Ave
EXISTING EXISTING EXISTING	13 20A-1P 15 20A-1P 17 20A-1P	0	0	20A-1P 20A-1P 20A-1P	14EXISTIN16EXISTIN18EXISTIN			Park Rd Use State
EXISTING EXISTING	19 20A-1P 21 20A-1P	0	0	20A-1P 2 20A-1P 2	20 EXISTIN 22 EXISTIN	IG		Linna St Vour Advantage Tennis Shop W B
EXISTING EXISTING FIELD ITENDIFIED SP	23 20A-1P 25 20A-1P PARE 27 20A-1P	0	0	20A-1P 20A-1P 20A-1P	24 EXISTIN 26 EXISTIN 28 EXISTIN			
FIELD ITENDIFIED SP EXISTING	PARE 29 20A-1P 31 20A-1P	0	0	20A-1P	30 EXISTIN 32 EXISTIN			SHEET TITLE
EXISTING EXISTING EXISTING	33 20A-1P 35 20A-1P 37 20A-1P	0	0	20A-1P	54 EXISTIN 36 EXISTIN 38 EXISTIN	IG IG OUTDOOR LIGHTS (DEMOLISHED)		
EXISTING	39 20A-1P 41 20A-1P	0	0 0 0	20A-1P	40 EXISTIN 42 EXISTIN	IG OUTDOOR LIGHTS (DEMOLISHED) IG OUTDOOR LIGHTS (DEMOLISHED)		
	CONNECTED	LOAD	VA PER PHASE DEMAND FACTOR	DEMAND	LOAD			DRAWING NO.
	L LIGHTING R RECEPTACLES	0.00 KVA 0.00 KVA	1.00 0.50	0.00 KV 0.00 KV	Ά		GRAPHIC SCALE	
	TOTAL CONNECTED LOAD:	0.00 KVA	TOTAL DEMAND LOAD: TOTAL DEMAND CURRENT:	0.0 KV 0.00 AN	Ά ΙΡS		20' 0 20' 40' (IN FEET) 1 inch = 20 ft. ALL DRAWINGS SHALL BE CHECKED FOR PROPER SC	E0.2

							Public Schools
							HUBLER OF
			LIGHT FIXTUR	F SCHEDULE	-		
SYMBOL	DESCRIPTION	LAMP LA TYPE	AMP BALLAST/ VOL DRIVER	TAGE MOUNT	TING MA	NUFACTURER	464 N. MILWAUKEE AVE. CHICAGO, IL 60654 (312) 884–5100
POL FIXT	LE MOUNTED SPORTS FIELD LED TURE	LED 11 EA	OOW ELEC 20	08V FINISHED	MUSCO LIGHTING – TLC-LED "ABOVE SPECGRADE AFL-1100-NW-60X6 GRADE TECHLINE – STADIUM 1000 LED	D-90-305V-BL	-M-dhHMS
PAR FIXT WITH POL SHA GUS	RKING LOT ARM MOUNT WITH TWO TURES AT 90 DEGREES COMPLE 'H 30'-0" HIGH STRAIGHT STEEL LE AND CONCRETE BASE. POLE ALL RESIST UP TO 120 MPH WIN STS	D ETE LED ND	50W ELEC 20	08V POLE MC	MCGRAW EDISON – TLM–E03–LEI DUNTED PHILLIPS LIGHTING – SFA–1–3– LITHONIA – CSX1LED SERIES)-E1-T3-BK 40LA-NW-UNV-NP-LF	303 W. ERIE ST., SUITE 510 CHICAGO, IL 60654 (312) 915-0557
LED FIXT SPC) PEDESTRIAN LIGHT FIXTURE. TURE SHALL BE MOUNTED TO ORTS FIELD LIGHTING POLE	LED 7	'OW ELEC 20	POLE MC 08V AT 15'-0' FINISHED	OUNTED U.S.A LIGHTING DSTP1-2-64LED- " ABOVE PHILLIPS LIGHTING GRADE LITHONIA LIGHTING	350-NW-120-XPD1-RAL-9005-T-PC+V	A LI A III A III U III C . Iandscape architecture + urban design + planning 1700 W. IRVING PARK RD., SUITE 202 CHICAGO, IL 60613 (773) 528-7492
	'TALL LED BOLLARD COMPLETE H 12" DIAMETER X 36" DEEP NCRETE BASE	LED 2	24W ELEC 12	20V ON GF	FC LIGHTING FCB840-120V-4K 1 RADE PHILLIPS LIGHTING LITHONIA LIGHTING	200-BK-ABC	(//J) J20-7492
Z TO' STE LOM OF BAS 120	ROUND TAPERED GALVANIZED EEL POLE COMPLETE WITH MNAIRE CROSSARMS FOR MOUNT FIXTURES AND PRECAST CONCR SE. POLE SHALL RESIST UP TO MPH WIND GUSTS	ING ETE		CONCRET	E BASE MUSCO LIGHTING WJM SLX-21D-80-70-G-G34SS	-EMB	
<u>CHEDULE NOTES:</u> 1 ELE TO	CTRICAL CONTRACTOR SHALL PR ARCHITECT/ENGINEER FOR REVIE	OVIDE SUBMITTAL O	N FULL LIGHTING FIXTURE PRIOR TO ORDERING LIGHT	PURCHASE FOR AR	CHITECT'S APPROVAL PRIOR TO ORDER.	SUBMIT THREE (3) SETS OF CATALOG CUTS	
2 FIXI 3 THE REJ 4 FIXT	TURES SHALL HAVE APPROPRIATE E ARCHITECT AND ENGINEER SHA JECTED, CONTRACTOR SHALL PRO TURES SHALL INCLUDE ACCESSO	UL LABEL, DAMP, LL APPROVE FIXTUR VIDE SPECIFIED PRO RIFS FOR INSTALLAT	OR WET AS REQUIRED BY RE SUBSTITUTIONS PRIOR TO ODUCT.	LOCAL CODES.	OR SHALL SUPPLY A SAMPLE AND/OR PH	DTOMETRIC DATA. IF SUBSTITUTION IS	LAKE VIEW HIGH SCHOOL 4015 NORTH ASHLAND AVENUE
5 PRIC	OR TO ORDERING LIGHTING EQUI	PMENT, THE CONTRA	ACTOR SHALL VERIFY LOCA	TIONS.	ULS.		CHICAGO, ILLINOIS 60613 PBC PROJECT NO.: 05095 CPS PROJECT NO.: 2016-46211-SIT
6 LAM 7 EAC SWI	IPS SHALL BE PROVIDED AND IN CH POLE SHALL BE PROVIDED W ITCH AND (4) 15A-2P BRANCH	STALLED ACCORDING) TO THE ATTACHED FIXTUR LT NEMA 3R, 120/208V TR ACH LUMINAIRE INDIVIDUALL	RE SCHEDULE. HREE-PHASE ELECT Y FUSFD). WIRE HA	RICAL COMPONENTS ENCLOSURE COMPLET	E WITH JOA-JP NAIN DISCONNECT	REVISIONS
	PACITORS, BALLASTS, CONTROL U	NIT, SPARE FUSES, NAIRES.	POLE ALIGNMENT BEAM SV	WITCH, ETC. MOUNT	ENCLOSURE AT TEN FEET ABOVE FINISHE	D GRADE ENCLOSURE SHALL	NO. DATE DESCRIPTION - 03.22.16 60% SUBMITTAL - 04.05.16 100% SUBMITTAL
	H PULE SHALL DE GALVANIZED	SIEL COMPLETE "	IIH SERVICE HAND HULL,	PRECAST CONCINETE	L BASE AND FULL LENGTH WINE HANNESS		- 04.06.17 OTB SUBMITTAL 2 04.25.17 ADDENDUM #02
							DRAWN BY: BS CHECKED BY: VA SCALE: 1"=20'
30ard L-Bi	N (EXISTING) location: basement cof	RIDOR @ WEIGHT ROC)M				DMA JOB NO: 2016007-01 FILE:
MAIN BU	SERVICE: 208/120V-3PH MAINS: EXISTING IS RATING AND TYPF: 225A COPPER	1-4W 208 V	NEUTRAL BU GROUND BI MOUNTI'	US: 100% COPPER US: 100% COPPER NG: SURFACE			
	INTERRUPT RATING: 42,000 AIC		ENCLOSU	RE: NEMA 1	T		KEY PLAN
ION	CCT. CIRCUIT C NO. BREAKER C 1 20A-1P	IRCUIT CONNEC LOAD A 0	CIRCUI CIRCUI B C	TCIRCUIT BREAKERCCT. NO.20A-1P2	DESCRIPTION	-	Ashhand Ave
.NG ING	3 20A-1P 5 20A-1P		0 0	20A-1P 4 20A-1P 6	EXISTING EXISTING		W Warner Ave W Warner Ave W Southp
NG NG	7 20A-1P 9 20A-1P	0	0	20A-1P 8 20A-1P 10	EXISTING EXISTING		W Balle Plaine Ave
NG NG	11 20A-1P 13 20A-1P	0	0	20A-1P 12 20A-1P 14	EXISTING EXISTING	-	akertiew High School Gracele
NG NG	15 20A-1P 17 20A-1P		0	20A-1P 16 20A-1P 18	EXISTING EXISTING	-	Park Rd N South
NG NG	19 20A-1P 21 20A-1P	0	0	20A-1P 20 20A-1P 22	EXISTING EXISTING		na St Vour Advantage Tennis Shop
NG NG	23 20A-1P 25 20A-1P	0	0	20A-1P 24 20A-1P 26	EXISTING EXISTING		
ITENDIFIED SPARE	27 20A-1P 29 20A-1P		0	20A-1P 28 20A-1P 30	EXISTING EXISTING	-	SHEET TITLE
ING	31 20A-1P 33 20A-1P		0	20A-1P 32 20A-1P 34	EXISTING EXISTING		
ING ING	35 20A-1P 37 20A-1P	0		20A-1P 30 20A-1P 38	EXISTING EXISTING OUTDOOR LIGHTS (DEMOLISHED)		ELECTRICAL SCHEDULES
ING	39 20A-1P 41 20A-1P		0 0	20A-1P 40 20A-1P 42	EXISTING OUTDOOR LIGHTS (DEMOLISHED)		
		TOTAL	VA PER PHASE		-		DRAWING NO.
	CONNECTED LC L LIGHTING	AU 0.00 KVA	DEMAND FACTOR	. DEMAND LOA 0.00 KVA		GRAPHIC SCALF	
	R REVEPTAULES	0.00 KVA		0.00 KVA		20' 0 20'	
	iutal cunnected LOAD:	U.UU KVA	TOTAL DEMAND LOF	NT: 0.00 AMPS		(IN FEET) $1 inch = 20 ft.$	
						J ALL DRAWINGS SHALL BE CHECKED FOR PROP	YER SUALE

					HORIE BUILD AN ASON
FIXTURE SYMBOL NO.	DESCRIPTION	LIGHT F LAMP LAMP BALLAST/ TYPE DRIVER	FIXTURE SCHEDULE	MANUFACTURER	464 N. MILWAUKEE AVE. CHICAGO, IL 60654
F1 -	POLE MOUNTED SPORTS FIELD LED FIXTURE	LED 1100W ELEC	208V POLE MOUNTED AT 70'-0" ABOVE FINISHED GRADE	MUSCO LIGHTING – TLC-LED SPECGRADE AFL-1100-NW-60X60-90-305V-BL TECHLINE – STADIUM 1000 LED	
F2	PARKING LOT ARM MOUNT WITH TWO FIXTURES AT 90 DEGREES COMPLETE WITH 30'-0" HIGH STRAIGHT STEEL POLE AND CONCRETE BASE. POLE SHALL RESIST UP TO 120 MPH WIND GUSTS	LED 150W ELEC	208V POLE MOUNTED	MCGRAW EDISON – TLM-E03-LED-E1-T3-BK PHILLIPS LIGHTING – SFA-1-3-140LA-NW-UNV-NP-LF LITHONIA – CSX1LED SERIES	303 W. ERIE ST., SUITE 510 CHICAGO, IL 60654 (312) 915-0557
F3	LED PEDESTRIAN LIGHT FIXTURE. FIXTURE SHALL BE MOUNTED TO SPORTS FIELD LIGHTING POLE	LED 70W ELEC	POLE MOUNTED 208V AT 15'-0" ABOVE FINISHED GRADE	U.S.A LIGHTING DSTP1-2-64LED-350-NW-120-XPD1-RAL-9005-T-PC+V E PHILLIPS LIGHTING C LITHONIA LIGHTING	Altamanu Inc. Iandscape architecture + urban design + planning 1700 W. IRVING PARK RD., SUITE 202 CHICAGO, IL 60613 (773) 528-7492
F4 O	48" TALL LED BOLLARD COMPLETE WITH 12" DIAMETER X 36" DEEP CONCRETE BASE	LED 24W ELEC	120V ON GRADE	FC LIGHTING FCB840-120V-4K 1200-BK-ABC PHILLIPS LIGHTING LITHONIA LIGHTING	
SPORTS FIELD LIGHTING POLE	70' ROUND TAPERED GALVANIZED STEEL POLE COMPLETE WITH LUMINAIRE CROSSARMS FOR MOUNTING OF FIXTURES AND PRECAST CONCRETE BASE. POLE SHALL RESIST UP TO 120 MPH WIND GUSTS		CONCRETE BASE	MUSCO LIGHTING WJM SLX-21D-80-70-G-G34SS-EMB	
2 3 4 5 6 7 8 8	THE ARCHITECT AND ENGINEER SHALL AF REJECTED, CONTRACTOR SHALL PROVIDE FIXTURES SHALL INCLUDE ACCESSORIES PRIOR TO ORDERING LIGHTING EQUIPMEN LAMPS SHALL BE PROVIDED AND INSTALL EACH POLE SHALL BE PROVIDED WITH A SWITCH, AND (4) 15A-2P BRANCH CIRCU CAPACITORS, BALLASTS, CONTROL UNIT, S ACCOMMODATE UP TO TWELVE LUMINAIRE EACH POLE SHALL BE GALVANIZED STEEL EACH POLE SHALL BE GALVANIZED STEEL DISTRICT: BASEMENT CORRIDOR SERVICE: 208/120V-3PH-4W MAINS: EXISTING N BUS RATING AND TYPE: 225A COPPER INTERRUPT RATING: 42,000 AIC	PPROVE FIXTURE SUBSTITUTIONS SPECIFIED PRODUCT. FOR INSTALLATION ACCORDING T NT, THE CONTRACTOR SHALL VEF LED ACCORDING TO THE ATTACH A FACTORY BUILT NEMA 3R, 120 CUIT FUSES (EACH LUMINAIRE IN SPARE FUSES, POLE ALIGNMENT ES. CL COMPLETE WITH SERVICE HAN R @ WEIGHT ROOM 208 V	NEUTRAL BUS: 100% COPPER GROUND BUS: 100% COPPER MOUNTING: SURFACE ENCLOSURE: NEMA 1	ALL SUPPLY A SAMPLE AND/OR PHOTOMETRIC DATA. IF SUBSTITUTION IS	LAKE VIEW HIGH SCHOOL 4015 NORTH ASHLAND AVENUE CHICAGO, ILLINOIS 60613 PBC PROJECT NO.: 05095 CPS PROJECT NO.: 2016-46211-SIT REVISIONS NO. DATE DESCRIPTION - 03.22.16 60% SUBMITTAL - 04.05.16 100% SUBMITTAL - 04.06.17 OTB SUBMITTAL - 04.06.17 OTB SUBMITTAL 2 04.25.17 ADDENDUM #02 DRAWN BY: BS CHECKED BY: VA SCALE: 1"=20' DMA JOB NO: 2016007-01 FILE: NORTH KEY PLAN
DESCRIPTION EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING EXISTING	CCT. CIRCUIT CIRCUIT NO. 1 20A-1P 3 20A-1P 1 5 20A-1P 1 7 20A-1P 1 9 20A-1P 1 11 20A-1P 1 13 20A-1P 1 13 20A-1P 1 15 20A-1P 1 15 20A-1P 1 19 20A-1P 1 21 20A-1P 1	CONNECTED LOAD (VA) A B C 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CIRCUIT LOAD CIRCUIT BREAKER CCT. NO. DESCR 20A-1P 2 E 20A-1P 4 E 20A-1P 4 E 20A-1P 6 E 20A-1P 6 E 20A-1P 8 E 20A-1P 10 E 20A-1P 10 E 20A-1P 10 E 20A-1P 14 E 20A-1P 16 E 20A-1P 18 E 20A-1P 20 E	CRIPTIONEXISTING	NAshland Ave W Berteau Ave W Warner Ave Ave Ave W Balla Draine Ave W Warner Ave W Warner Ave W Warner Ave W Warner Ave W Warner Ave W Warner Ave W Unving W Inving Park Rd N Marshfield Ave Your Advantage
EXISTING EXISTING FIELD ITENDIFIED SP FIELD ITENDIFIED SP EXISTING	23 20A-1P 25 20A-1P ARE 27 20A-1P ARE 29 20A-1P 31 20A-1P		20A-1P 24 E 20A-1P 26 E 20A-1P 26 E 20A-1P 28 E 20A-1P 30 E 20A-1P 32 F	EXISTING EXISTING EXISTING EXISTING EXISTING	SHEET TITLE
EXISTING EXISTING EXISTING EXISTING EXISTING	33 20A-1P 35 20A-1P 37 20A-1P 39 20A-1P 41 20A-1P		20A-1P 34 E 20A-1P 36 E 20A-1P 36 E 20A-1P 38 E 20A-1P 40 E 20A-1P 42 F	EXISTING EXISTING EXISTING OUTDOOR LIGHTS (DEMOLISHED) EXISTING OUTDOOR LIGHTS (DEMOLISHED)	ELECTRICAL SCHEDULES
	CONNECTED LOAD	0 0 0 TOTAL VA PER PHASE DEMA	AND FACTOR DEMAND LOAD	GRAPHIC SCALE	DRAWING NO.
	R RECEPTACLES 0.0	0.5 OO KVA O.5 OO KVA TOTAL E TOTAL DEMA	DEMAND LOAD: 0.00 KVA AND CURRENT: 0.00 AMPS	20' 0 20' 40' (IN FEET) 1 inch = 20 ft. ALL DRAWINGS SHALL BE CHECKED FOR PROPER SCALE	E0.2

4/25/2017 2:28 PM



^{4/25/2017 2:27} PM



4/28/2017 8:57 AM