THE SCHOOL DISTRICT OF PHILADELPHIA BOARD OF EDUCATION Office of Capital Programs 440 North Broad Street, Third Floor - Suite 371 Philadelphia, PA 19130-4015

TELEPHONE: (215) 400-4730

Addendum No. 01

Subject: Emlen Classroom Modernization Project

B-031C, B-032C, B-033C of 2018/19

Location: Eleanor C. Emlen Elementary School

6501 Chew Ave.,

Philadelphia, PA 19119

This Addendum, *dated February 26, 2019,* shall modify and become part of the Contract Documents for the work of this project. Any items not mentioned herein, or affected by, shall be performed strictly in accordance with the original documents.

1. <u>Drawings and Specifications Revised by Narrative</u> Note drawing text deletions are shown with strikethrough, drawing text additions are shown in **bold**

a. A300: CASEWORK SCHEDULE:

The Casework Schedule is revised as follows:

THE BASIS OF DESIGN CABINET SHALL BE CAMPBELL RHEA "EMPIRE" IN RED OAK FULL FLUSH OVERLAY WITH SOLID WOOD EDGING. DELETE REFERENCES TO "SIGNATURE" STYLE CABINETS IN MAPLE.

ADD TO SCHEDULE A TEACHER WARDROBE UNIT CABINET TYPE CT1 BASIS OF DESIGN CASEWORK MODEL No. 5866, 35-1/4" (W) x 84" (H) x 22-1/2" (D). PROVIDE 10 (TEN) CT1 CABINETS ONE PER IN-SCOPE CLASSROOM

THE ABOVE CHANGES TO THE CASEWORK SCHEDULE ARE SHOWN IN THE REVISED A300-Rev 1 DRAWING ISSUED WITH THIS ADDENDUM.

b. A300: WALL EQUIPMENT SCHEDULE:

The Wall Equipment Schedule is revised as follows:

DELETE ALL THE NOTES UNDER THE "COMMENTS" COLUMN OF THE SCHEDULE.

Work in connection with Display Boards shall be conducted as follows:

IPBs SHALL BE SUPPLIED AND INSTALLED BY OTHERS UNDER THE DIRECTION OF THE SDP. PROVIDE BLOCKING FOR IPBs AS NECESSARY AND AS INDICATED IN THE DRAWINGS.

MARKERBOARDS AND TACKBOARDS SHALL BE SUPPLIED BY THE SDP AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH OTHER PRIME CONTRACTORS AND FIELD VERIFY FOR THE BOARDS AND ADVISE SDP OF ANY DISCREPANCY OR INTERFERENCES AFFECTING THE DESIGN INTENT.

MARKERBOARD AND TACKBOARD INSERTS SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR

Delete the row reading

" 5 WALL COAT HOOK 3'-0" 0'-8" 11 "

THE ABOVE CHANGES TO THE WALL EQUIPMENT SCHEDULE ARE SHOWN IN THE REVISED A300-Rev 1 DRAWING ISSUED WITH THIS ADDENDUM.

d. A300: SPECIALTY EQUIPMENT SCHEDULE:

The Specialty Equipment Schedule is revised as follows:

VOLTAGES OF NEW EQUIPMENT SHALL BE 120V FOR REFRIGERATOR AND CABINET HOOD; 208V FOR RANGE.

Add CABINET HOOD ACCESSORY JXHC1 POWER CORD KIT

Add RANGE ACCESSORY POWER CORD AND PLUG

THE ABOVE CHANGES TO THE SPECIALTY EQUIPMENT SCHEDULE ARE SHOWN IN THE REVISED A300-Rev 1 DRAWING ISSUED WITH THIS ADDENDUM.

e. E001.0: ELECTRICAL COVER SHEET

For changes see drawing E001.0 Rev1 dated 2/22/19 as issued with this Addendum.

f. E100.0: BASEMENT ELECTRICAL PLAN

For changes see drawing E100.0 Rev1 dated 2/22/19 as issued with this Addendum.

g. E101.0: FIRST FLOOR POWER & SYSTEMS PLAN

For changes see drawing E101.0 Rev1 dated 2/22/19 as issued with this Addendum.

2. Questions and Clarifications

.1 Question: Will another manufacture besides Campbell Rhea be accepted?

Response: Campbell Rhea is the Basis of Design manufacturer. Manufacturers providing equal products may be submitted for review

.2 Question: Can MBE/WBE requirements be reduced to a combined goal?

Response: Combined 15/20% Goal already included in the Bidding Documents.

.3 **Question:** Please provide a spec for Electrostatic painting.

Response: Specification SECTION 105115: ELECTROSTATIC PAINTING is already included in the Technical Specifications.

Question: Spec 101100 Visual Display, 1.2.A, Markerboard and Tackboard infills by GC, plans say by SDP. Who is responsible for them?

Response: See Item 1(c) of this Addendum

.5 <u>Question:</u> Please confirm all visual display boards supplied by SDP will be delivered to each location by the SDP.

Response: Yes, Owner supplied visual display boards will be delivered to the school.

.6 Question: Reference spec. 101100; Owner supplied visual display units, par. 1.3 B .3 please provide manufacturers installation details

Response: Proceed on the basis that the Owner supplied visual display units are similar in type to those listed in specification section 10 1100 VISUAL DISPLAY UNITS and install in accordance with the manufacturer's instructions as described in the specifications.

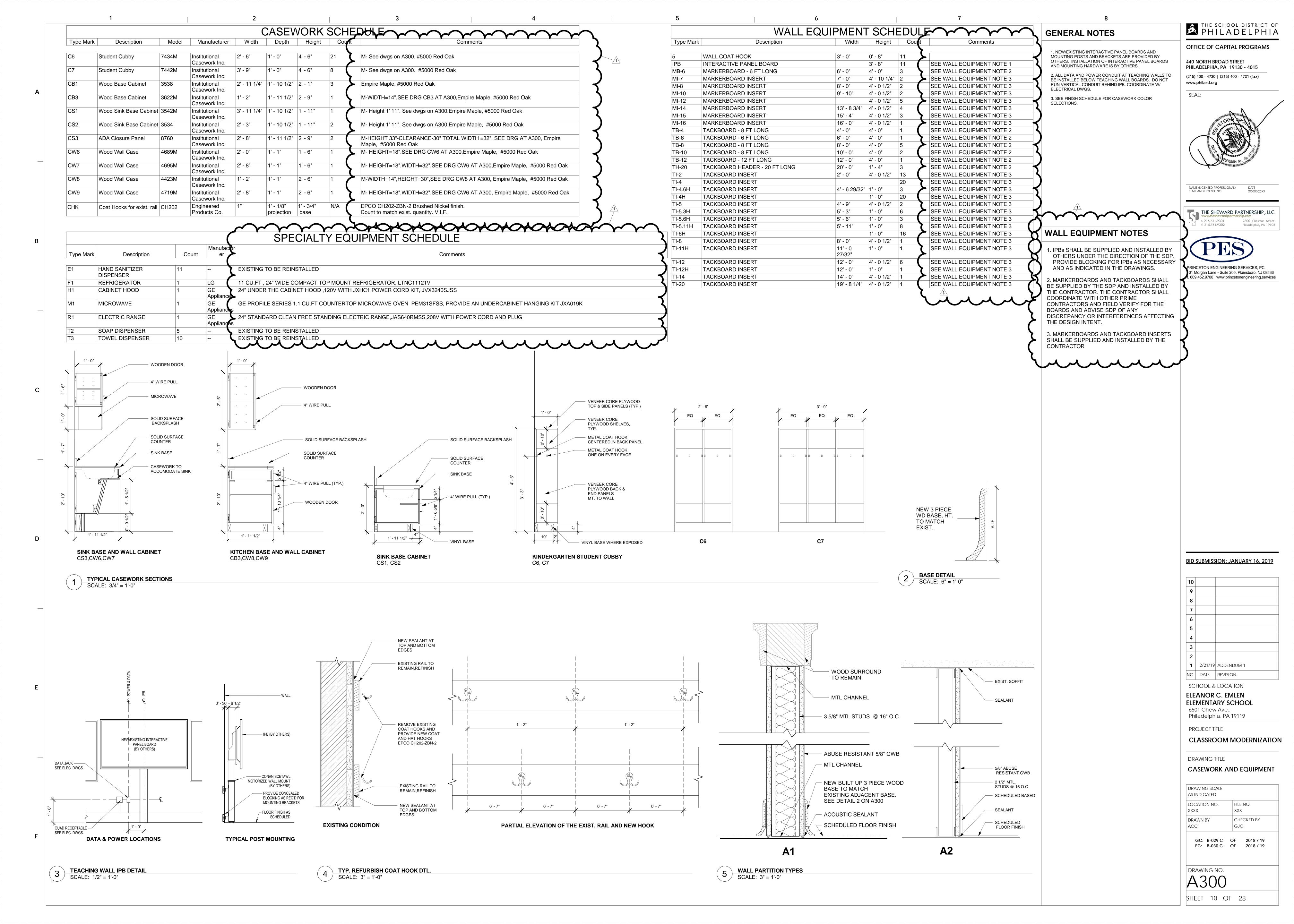
.7 <u>Question:</u> Reference Supplementary Conditions section 16, photographs. Please consider deleting this section from scope of work as it does not seem appropriate or necessary for these type of projects.

Response: Already deleted by Section 01 1400 MODIFICATIONS TO THE GENERAL AND SUPPLEMENTARY CONDITIONS

END OF ADDENDUM NO. 1

Attachment(s)

Drawings – A300-Rev1 E001.0-Rev1 E100.0-Rev1 E101.0-Rev1



ELECTRICAL SYMBOLS SINGLE RECEPTACLE (TAMPER-RESISTANT), NEMA 5-20R, 20A, 125V, 2P, 3W GROUND FAULT CIRCUIT INTERRUPTER TYPE SINGLE RECEPTACLE (TAMPER-RESISTANT), NEMA 5-20R, 20A, 125V, 2P, 3W DUPLEX RECEPTACLE (TAMPER-RESISTANT), NEMA 5-20R, 20A, 125V, 2P, 3W GROUND FAULT CIRCUIT INTERRUPTER TYPE DUPLEX RECEPTACLE (TAMPER-RESISTANT), NEMA 5-20R, 20A, 125V, 2P, 3W QUADRAPLEX RECEPTACLE (TAMPER-RESISTANT), NEMA 5-20R, 20A, 125V, 2P, 3W GROUND FAULT CIRCUIT INTERRUPTER TYPE QUADRAPLEX RECEPTACLE (TAMPER-RESISTANT), NEMA 5-20R, 20A, 125V, 2P, 3W INDICATES DEVICE MOUNTING HEIGHT 3-WAY LIGHT SWITCH SWITCHBOX-MOUNTED DIMMER SWITCH SWITCHBOX-MOUNTED DIMMER OCCUPANCY SENSOR SWITCHBOX-MOUNTED OCCUPANCY SENSOR **EXIST** CEILING MOUNTED OCCUPANCY SENSOR KEY-OPERATED MANUAL MOTOR STARTER WITH THERMAL OVERLOAD MOTOR RATED SWITCH, COORDINATE SWITCH RATING WITH EQUIPMENT JUNCTION BOX POWER PACK FOR OCCUPANCY SENSOR INDICATES CONTROL GROUP (SWITCHING) — FIXTURE TYPE, REFER TO SCHEDULE - INDICATES CONTROL GROUP (SWITCHING) - FIXTURE TYPE, REFER TO SCHEDULE SHADING DEPICTS EXIT FACE ORIENTATION X1 INDICATES SINGLE FACED EXIT SIGN SINGLE FACE, PENDANT MOUNTED LED EXIT LIGHT WITH EMERGENCY BATTERY PACK KILO WATTS DISCONNECT SWITCH, 30A/3P UON MECHANICAL CONTRACTOR FUSIBLE DISCONNECT SWITCH, 30A/3P UON WITH DUAL-ELEMENT MAIN CIRCUIT BREAKER TIME-DELAY FUSES AS NOTED MAIN DISTRIBUTION PANEL ENCLOSED CIRCUIT BREAKER, SIZE AS INDICATED MAIN DISTRIBUTION FRAME MANUFACTURER SURFACE MOUNTED PANELBOARD MAXIMUM FUSE SIZE RECESSED (FLUSH) MOUNTED PANELBOARD MOUNTING HEIGHT MAIN LUGS ONLY 12" DIA CLOCK, BATTERY POWERED, GPS WIRELESS SYNC, MTD. 96" AFF SPEAKER, WALL-MOUNTED NEW WORK. THIS NOTATION WILL SELDOM APPEAR (IF AT ALL), SINCE ALL WORK IS NEW UNLESS OTHERWISE NOTED SPEAKER, RECESS-MOUNTED IN LAY-IN CEILING TILE. NATIONAL ELECTRICAL CODE THERMOSTAT, WALL-MOUNTED NOT IN CONTRACT NOT TO SCALE TELEPHONE OUTLET DATA OUTLET, "N" INDICATES # OF DATA PORTS PHASE WIRELESS ACCESS POINT HOFFMAN#A48 (1) TV & (2) DATA OUTLETS SHORT CIRCUIT CURRENT RATING SCHOOL DISTRICT OF PHILADELPHIA (OWNER) TV OUTLET (OLD TYPE) SPECIFICATION NEW BRANCH CIRCUIT WIRING IN NEW RACEWAY TO BE DETERMINED **TYPICAL** ARROW HEADS INDICATE HOMERUN CIRCUITRY UNDERGROUND NUMBER OF CIRCUITS AS INDICATED IN DRAWINGS. UNLESS OTHERWISE NOTED "WG" INDICATES DEVICE WITH WIRE GUARD UNIT VENTILATOR **VOLTS** "WP" INDICATES WEATHERPROOF DEVICE. VERIFY IN FIELD

"(E)" INDICATES EXISTING TO REMAIN

AUDIO/VISUAL OUTLET

"(R)" INDICATES EXISTING TO BE REMOVED

EXISTING LIGHT FIXTURE TO BE DEMOLISHED

"(RR)" INDICATES EXISTING TO BE REMOVED AND REPLACED

ELECTRICAL ABBREVIATIONS ALTERNATING CURRENT ACOUSTIC TILE CEILING ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AUTHORITIES HAVING JURISDICTION AMPERES, TRIP AMERICAN WIRE GAUGE CONDUIT CIRCUIT BREAKER CIRCUIT ELECTRICAL CONTRACTOR **EMERGENCY** ELECTRICAL METALLIC TUBING FULL LOAD AMPERE FLEXIBLE METAL CONDUIT GROUND GAUGE GENERAL CONTRACTOR GROUND FAULT CIRCUIT INTERRUPTER GALVANIZED RIGID STEEL CONDUIT ISOLATED GROUND INCHES INFORMATIONAL/INSTRUCTIONAL TECHNOLOGY KILO AMPERES KILO AMPERES INTERRUPTING CAPACITY THOUSAND CIRCULAR MIL KILO VOLT AMPERES

GENERAL DEMOLITION NOTES

- WHERE EXISTING FACILITIES ARE BEING ALTERED, DISCONNECT AND REMOVE OR RELOCATE AND EXTEND ALL EXISTING ELECTRICAL WORK THAT INTERFERES WITH OR IS NECESSARY DUE TO SCOPE OF RENOVATION AS SPECIFIED, SHOWN OR REQUIRED. CONTRACTOR TO RELOCATE ANY ELECTRICAL CONDUIT IN THE WAY OF NEW
- 2. WHERE SPECIFIED OR REQUIRED, EXTEND EXISTING SYSTEMS OR TIE INTO SAME TO PROVIDE A COMPLETE COORDINATED ELECTRICAL SYSTEM TO SATISFACTION OF OWNER AND ENGINEER.
- 3. ALL EXISTING WORK TO REMAIN ACTIVE, BUT DISTURBED OR DISCONNECTED DUE TO ALTERATIONS PER THIS RENOVATION SHALL BE REPLACED AND PUT IN OPERATING CONDITION AS REQUIRED TO MAINTAIN CONTINUITY UNLESS INSTRUCTED OTHERWISE IN WRITING BY OWNER OR ENGINEER.
- 4. ALL DISCONNECTED OR ABANDONED WIRE, CABLE AND SURFACE CONDUIT OR RACEWAYS SHALL BE REMOVED.
- 5. ALL EXISTING BUILDING MATERIALS DAMAGED DURING RENOVATIONS SHALL BE REPAIRED AND REPLACED BY THE CONTRACTOR. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO CEILING TILES, GRID, FLOORING, PARTITIONS AND SIMILAR BUILDING ITEMS. ALL DAMAGE SHALL BE REPAIRED TO A QUALITY AND FINISH LEVEL OF ADJACENT AREAS AND SUBJECT TO THE APPROVAL OF OWNER AND ENGINEER.
- 6. PROVIDE PHYSICAL AND DUST PROTECTION OF OWNER'S EQUIPMENT. FURNITURE AND FLOORING DURING RENOVATION. EQUIPMENT PROTECTION SHALL BE INSTALLED AND REMOVED ON A DAILY BASIS AS DIRECTED BY
- 7. ALL ELECTRICAL WORK DAMAGED DURING RENOVATION SHALL BE REPAIRED AND REPLACED BY THE CONTRACTOR THIS SHALL INCLUDE, BUT NOT LIMITED TO: RACEWAYS, WIREWAYS, BACKBOXES, LIGHTING FIXTURES, LAMPS,
- SUBJECT TO APPLICABLE CODE AND APPROVAL OF OWNER AND ENGINEER. 8. PROVIDE A FINISH GRADE COVERPLATE ON ALL WALL AND FLOOR BOXES, FOR ALL DEVICES TO BE REMOVED.

WIRING DEVICES AND SIMILAR ELECTRICAL EQUIPMENT. ALL DAMAGE SHALL BE REPAIRED TO A QUALITY LEVEL

- 9. EXISTING CONDUIT WIREWAYS AND BACKBOXES (IF AT CODE APPROVED HEIGHT) MAY BE REUSED, WHERE NOTED ON SINGLE LINE, TO EXTENT PRACTICAL. THE CONTRACTOR SHALL FIELD VERIFY CONDUIT AND BOX SUITABILITY. PROVIDE NEW AS REQUIRED BY ACTUAL FIELD CONDITIONS.
- 10. PROVIDE TOUCH-UP AND FINISH PAINTING AS REQUIRED IN AREAS AFFECTED BY REMOVAL OF EXISTING EQUIPMENT OR INSTALLATION OF NEW. FINISH AND QUALITY LEVEL SHALL MATCH ADJACENT AREAS AND BE SUBJECT TO APPROVAL OF OWNER AND ENGINEER.
- 11. PERFORM ALTERATIONS AND CONNECTION TO EXISTING FACILITIES WITH A MINIMUM OF INTERRUPTION. WHERE INTERRUPTION IS NECESSARY, PREPARE A TIME SCHEDULE FOR SAME, COORDINATE WITH AND OBTAIN WRITTEN CLEARANCE FROM PRINCIPAL AND OWNER (SDP). PROVIDE AND PLACE NOTICES IN AFFECTED AREAS AND ON FIXTURES OR EQUIPMENT WHICH WILL BE TEMPÓRARILY OUT OF USE. REMOVE NOTICES WHEN INTERRUPTION IS
- 12. DISCONNECT AND REMOVE ALL EXISTING SWITCHES AND LIGHT FIXTURES. REMOVE EXISTING LIGHT FIXTURE CONTROL WIRING WITHIN THE ROOM. KEEP EXISTING LIGHTING CIRCUITS FOR REUSE FOR NEW LIGHTING FIXTURES
- 13. DURING RENOVATION PROVIDE ALL TEMPORARY LIGHTING AND POWER AS REQUIRED. COORDINATE WITH ALL OTHER TRADES FOR TEMPORARY POWER REQUIREMENTS.
- 14. ALL DEMOLITION/REMOVAL SHALL BE PERFORMED IN A NEAT, WORKMANLIKE MANNER WITH GREAT EMPHASIS ON
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL DEMOLISHED MATERIALS FROM THE SITE
- AND DISPOSAL THEREOF, UNLESS SPECIFICALLY NOTED OTHERWISE. 16. IT IS INTENDED THAT ALL NON-OPERATIONAL SURFACE BOXES, CONDUIT AND CABLE BE REMOVED. ALL
- ASSOCIATED WIRING TO BE REMOVED. BOXES AND CONDUIT EMBEDDED IN CONCRETE OR WALLS MAY REMAIN, CONDUIT TO BE CUT AT WALL BOUNDARY, BOXES TO BE COVERED WITH A STAINLESS STEEL BLANK COVER. 17. ALL EXISTING TO REMAIN WIRING ASSOCIATED WITH EXISTING SPEAKERS, TELEPHONE, DATA AND RECEPTACLES SMALL REMAIN AND MAINTAIN IN WORKING CONDITION. ANY WIRING IF DAMAGED ANR/OR CUT DURING THE
- PERFORMANCE OF THIS CONTRACT SHALL BE REMOVED AND REPLACED IN ITS ENTIRETY FROM TERMINATION TO TERMINATION. NO SPLICING OF THE OLD WIRING SHALL BE PERMITTED. THE CONTRACTOR SHELL BE RESPONSIBLE TO TEST AND VERIFY FULL FUNCTIONALITY OF ALL EQUIPMENT IN THE ROOM.
- 18. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EQUIPMENT IDENTIFIED TO BE REMOVED/DEMOLISHED UNDER HIS SCOPE OF WORK.
- 19. THE CONTRACTOR SHALL FIELD VERIFY AND TRACE ALL EXISTING CIRCUITS ASSOCIATED WITH LIGHTS AND RECEPTACLES PRIOR TO COMMENCEMENT OF WORK AND IDENTIFY ON AS BUILT DRAWINGS.
- 20. REPLACE EXISTING COVER PLATES OF ALL EXISTING RECEPTACLES AND DATA OUTLETS WITH NEW GRAY COLOR FINISH COVER PLATES.
- 21. THE CONTRACTOR SHALL INCLUDE IN BID COST TO REMOVE TWO JUNCTION BOXES, ONE ABANDONED BOX ASSOCIATED WITH OLD REMOVED EQUIPMENT AND 65 LINEAR FEET OF ABANDONED CONDUIT AND WIRING PER CLASSROOM. PATCH WALL TO MATCH ADJACENT WALL SURFACE

GENERAL NEW WORK NOTES

- 1. ALL WORK SHALL COMPLY WITH THE 2008 NATIONAL ELECTRICAL CODE (NEC) NFPA 70, NFPA 72, NFPA 101, 2009 IBC, 2009 IECC, ALL PHILADELPHIA BUILDING CODES AND WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ), CITY OF PHILADELPHIA DEPARTMENT OF LICENSING AND INSPECTIONS
- 2. ALL ELECTRICAL SERVICE RELATED WORK SHALL COMPLY REQUIREMENTS OF PECO ENERGY COMPANY.
- 3. ALL ELECTRICAL INSTALLATION SHALL BE PERFORMED IN A NEAT WORKMANLIKE MANNER, IN ACCORDANCE WITH ESTABLISHED INDUSTRY STANDARDS AND PRACTICE FOR K THRU 12 EDUCATIONAL INSTITUTION GRADE
- 4. EACH FEEDER AND BRANCH CIRCUIT SHALL INCLUDE AN (INSULATED) EQUIPMENT GROUNDING CONDUCTOR.
- 5. MULTI-WIRE BRANCH CIRCUITS SHALL NOT BE PERMITTED EXCEPT WHERE INDICATED FOR SERVICE TO SYSTEMS (MODULAR) FURNITURE. EACH 120V SINGLE PHASE BRANCH CIRCUIT SHALL INCLUDE DEDICATED NEUTRAL AND (INSULATED) EQUIPMENT GROUNDING CONDUCTORS.
- TRUNKING OR GROUPING OF BRANCH CIRCUITS SHALL BE PERMITTED, PROVIDED THAT NEC RULES PERTAINING TO MAXIMUM ALLOWABLE PERCENT FILL OF RACEWAYS, AND AMPACITY ADJUSTMENT FACTORS FOR MORE THAN THREE CURRENT-CARRYING CONDUCTORS IN A RACEWAY, ARE STRICTLY COMPLIED WITH. A MAXIMUM OF 9-120V BRANCH CIRCUITS (18 No. 10 AWG CURRENT-CARRYING CONDUCTORS) SHALL BE GROUPED. THE ASSOCIATED EQUIPMENT GROUND CONDUCTORS NECESSITATE 18#10 AND 1#10 G IN 1 1/2"C. THE CONTRACTOR SHALL EXERCISE GREAT CAUTION IN PROVIDING AN EQUAL NUMBER OF A. B. AND C PHASE CONDUCTORS WHEN GROUPING BRANCH CIRCUITS.
- JUNCTION AND PULL BOXES ARE NOT NECESSARILY INDICATED, BUT SHALL BE PROVIDED WHERE MANDATED BY THE NEC, AND AS REQUIRED FOR EASE OF INSTALLATION. BOXES SHALL BE SIZED (MINIMUM) IN ACCORDANCE WITH ARTICLE 314 OF THE 2008 NEC.
- 8. BRANCH CIRCUIT WIRING IS DEPICTED BY ASSIGNMENT OF CIRCUIT NUMBERS OR INTERCONNECTING WIRING AND HOMERUNS, OR HOMERUNS ONLY (FOR SINGULAR LOAD CIRCUITS). ALL FEEDERS AND BRANCH CIRCUITS ARE NEW TO BE PROVIDED UNDER THIS CONTRACT, UNLESS OTHERWISE NOTED. INTERIOR WIRING SHALL BE INSTALLED IN RMC (GRS) AND EMT, 3/4" MINIMUM, AND SMR. BUILDING EXTERIOR WIRING SHALL BE INSTALLED IN RMC (GRS), 3/4" MINIMUM. FMC SHALL ONLY BE ALLOWED ON LIGHTING CONNECTIONS AND CONNECTIONS TO
- 9. ALL CIRCUIT BREAKERS, DISCONNECT SWITCHES, CONTACTORS, STARTERS, ETC. ARE THREE POLE UNLESS OTHERWISE NOTED.
- 10. ALL 600V OR LESS OVERCURRENT PROTECTIVE DEVICES SHALL HAVE INTERRUPTING CAPACITIES OR RATINGS (AIC OR AIR), IN AMPERES ROOT-MEAN-SQUARE SYMMETRICAL. DISTRIBUTION AND CONTROL EQUIPMENT (SWITCHBOARDS, PANELBOARDS, MOTOR CONTROLLERS, MOTOR CONTROL CENTERS, ETC.) SHALL HAVE SHORT CIRCUIT CURRENT RATINGS (SCCR) IN AMPERES ROOT-MEAN- SQUARE SYMMETRICAL. THE INTERRUPTING RATINGS OF MAIN AND BRANCH DEVICES, AND BUS WITHSTAND CAPABILITY (BRACING), SHALL EACH MEET OR EXCEED THE INDICATED SCCR (FULLY RATED EQUIPMENT).
- 11. ALL BUILDING WIRE SHALL BE COPPER CONDUCTORS, TYPE THWN-2/THHN (DUAL LISTED) 90 DEGREE CELSIUS RATED INSULATION, No. 12 AWG MINIMUM. UTILIZE No. 10 AWG FOR ANY 20A, 120V BRANCH CIRCUIT THAT EXCEEDS 50 FT. FROM SOURCE TO LAST DEVICE OR FIXTURE.
- 12. THE CONTRACTOR SHALL PATCH WALL/SLAB/FLOOR/ROOF TO MATCH EXISTING AFTER INSTALLATION OF ANY ELECTRICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO ASSOCIATED WIRING, CONDUITS. PANELS, RECEPTACLES, OUTLETS, SUPPORTS, ETC. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 13. THIS ENTIRE SET OF DOCUMENTS FORMS THE BASIS OF AN AGREEMENT WITH ALL PRIME CONTRACTORS. ALL PRIME CONTRACTORS SHALL REVIEW ALL DRAWINGS & SPECIFICATIONS WITHIN THE ENTIRE SET FOR ADDITIONAL INFORMATION AND SCOPE OF WORK FOR EACH SPECIFIC TRADE. I.E., EACH PRIME CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL WORK SHOWN OR IMPLIED ON THE ARCHITECTURAL, PLUMBING & ELECTRICAL DRAWINGS AND ALL POSSIBLE ANCILLARY SERVICES TO BE PROVIDED FOR COMPLETION OF THE PROJECT.
- 14. EXISTING TO REMAIN CIRCUITS AND ASSOCIATED CONDUITS & WIRES FOR REPLACEMENT LIGHT FIXTURES SHALL BE MODIFIED, EXTENDED AND REROUTED AS REQUIRED TO ACCOMMODATE NEW CEILING, OCCUPANCY SENSORS AND LIGHTING FIXTURES.
- 15. COORDINATE WITH OWNER TO REARRANGE EXISTING EQUIPMENT FURNITURE TO MAKE ROOM FOR NEW POWER
- 16. CONTRACTOR SHALL FIELD VERIFY & SECURE EXISTING DEVICES (THERMOSTATS/TELEPHONES/SPEAKERS/RECEPTACLES/DATA OUTLETS/WIRELESS ACCESS POINTS) THAT ARE
- VISUALLY OBSERVED TO BE FALLING &/OR NOT PROPERLY SECURED TO THE WALL/CEILING. 17. OCCUPANCY SENSOR SHALL BE INSTALLED IN LEVEL WITH LIGHTING FIXTURES. CONTRACTOR SHALL COORDINATE
- LOCATION OF OCCUPANCY SENSORS WITH BEAMS SO THAT SENSOR COVERAGE IS NOT OBSTRUCTED AND PROVIDE PENDANT MOUNTING IF REQUIRED.
- 18. LOCATE WIRELESS MASTER CLOCK IN EXISTING MDF ROOM, PROVIDE MOUNTING SHELF AND EXTENSION CORD AS
- 19. FIRE STOP ALL CONDUIT PENETRATIONS THROUGH WALLS, FLOORS AND FIRE RATED CEILING.
- 20. COORDINATE VERTICAL DROPS/RUNS OF CONDUIT DROPS IN CORNER OF ROOMS.

LIST OF DRAWINGS

COVER SHEET FIRST FLOOR DEMOLITION PLAN SECOND FLOOR DEMOLITION PLAN THIRD FLOOR DEMOLITION PLAN BASEMENT ELECTRICAL PLAN FIRST FLOOR POWER & SYSTEM PLAN SECOND FLOOR POWER & SYSTEM PLAN THIRD FLOOR POWER & SYSTEM PLAN FIRST FLOOR LIGHTING PLAN E202 SECOND FLOOR LIGHTING PLAN THIRD FLOOR LIGHTING PLAN

DETAILS

FIRST FLOOR PLUMBING PLAN

E501

STANDARD MOUNTING HEIGHTS GLASSBREAK DETECTOR, PA SPEAKER, MOTION DETECTOR 6" ABOVE DOOR JAMB EGRESS MOTION DETECTOR 12" BELOW CEILING OR EXIT LIGHTS-LINE OF SIGHT SHALL CLEAR OBSTRUCTION OF PENDANT LIGHT FIXTURES 8'-0" AFF MAX SYSTEM CLOCKS VISUAL FIRE ALARM AUDIO/VISUAL FIRE ALARM TOP OF LTG OR POWER PNL TOP OF TEL CABINET/BACKBOARD TOP OF SAFETY DISC SW TOP OF CONTACTORS TOP OF MAGNETIC STARTERS 4'-8" A.F.F. MAX PEDESTAL MOUNT INTERCOM PEDESTAL MOUNT CARD READER LIGHT SWITCHES TELE OUTLET "PS" (TOP OF COIN SLOT) TELEPHONE HANDSET (WALL MOUNTED) FIRE FIGHTER PHONE JACK MANUAL CONTROL DEVICES FIRE ALARM PULL STATION INTERCOM STATION, THERMOSTAT WALL MOUNTED INTERCOM, CARD READER EMERGENCY SHUTOFF SWITCHES

WALL MOUNTED DURESS ALARM 3'-0" PUSH-BUTTON DURESS ALARM PUSH-BUTTON, UNDER COUNTER OR DESK PUSH-BUTTON DOOR RELEASE DURESS ALARM SPECIALTY OUTLET 1'-6" * RECEPTACLES. DESK TYPE TELEPHONE OUTLETS, LOW TELEVISION OUTLETS. COMPUTER OUTLETS

1. IN MASONRY CONSTRUCTION THE MOUNTING HEIGHTS SHALL BE USED FOR REFERENCE TO THE NEAREST BLOCK OR

0'-0"

2. THE ABOVE MOUNTING SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS OR SPECIFICATIONS. 3. COORDINATE ANY MOUNTING HEIGHTS OF CONCERN WITH ARCHITECT.

FINISHED FLOOR (FF)

IN FLOOR JUNCTION BOXES

	LIGHTING FIXTURE SCHEDULE									
TYPE	DESCRIPTION	VOLTS	WATTS	FIXTURE TYPE	LUMENS	MOUNTED	MANUF.	CATALOG NO.	SYMBOL	
A	2X4 LAY—IN LED FIXTURE	120–277	61.3	LED	7000	RECESSED	DAYBRITE	2CAG70L835-4-DS-UNV-DIM		
A1	2X4 LAY—IN LED FIXTURE	120-277	47.6	LED	5500	RECESSED	DAYBRITE	2CAG55L835-4-DS-UNV-DIM		
В	7" ROUND SURFACE MOUNTED DOWNLIGHT	120-277	13.5	LED	1000	SURFACE	LIGHTOLIER	S7R835K10	0	
С	2X4 SURFACE MOUNTED LED FIXTURE	120-277	47.6	LED	5500	SURFACE	DAYBRITE	2SCA55L835-4-DS-UNV		
D	6" ROUND LAY-IN DOWNLIGHT	120-277	7.7	LED	1000	RECESSED	LIGHTOLIER	P6RD10NZ10UVB-P6RD835VB-P6RDCC	0	

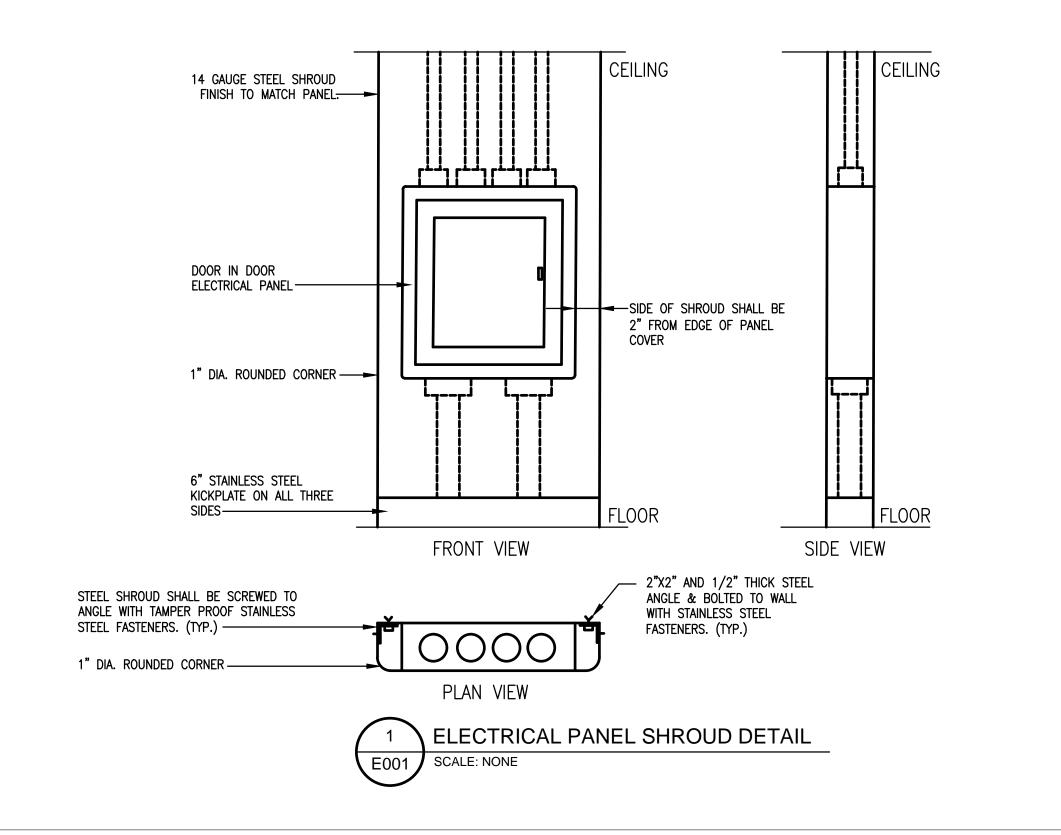
Designation:		1:	ITP1				New Panel					Main Circuit Breaker	10	00				
F	Par	nel\	/olta	ae:	240/120V 1 PHASE 3	WIRE			New	Panei				Number of Poles:	2	4		
			ating	_	10KAIC													
FI			DATA		LOAD DESCRIPTION		C.B. TRIP	C.B. LOAD	PHASE A	PHASE B	C.B. LOAD		POLE	LOAD DESCRIPTION	CIR	FE	EDER I	DAT
No). \	MRE	GND			NO.	Α	VA			VA	Α	NO.			No.	WIRE	GN
2		12	12	1	CLASSROOM 101 RECP	1	20	1080	2160		1080	20	1	CLASSROOM 109 RECP	2	2	12	13
2	i i	12	12	3	CLASSROOM 101 RECP	1	20	900		1800	900	20	1	CLASSROOM 109 RECP	4	2	12	1
2		12	12		CLASSROOM 103 RECP	1	20	1080	1800		720	20	1	DRINKING FOUNTAIN RM 109	6	2	12	1:
2	i.	12	12	7	CLASSROOM 103 RECP	1	20	900		1800	900	20	1	FRIDGE RM 106	8	2	12	1
2	0	12	12	9	CLASSROOM 106 RECP	1	20	1080	4280		3200	40	2	RANGE RM 106	10	3	8	8
2		12	12	11	CLASSROOM 106 RECP	1	20	900		4100	3200	40		TVANGE IVI 100	12	3		
2	i i	12	12		CLASSROOM 108 RECP	1	20	1080	1980		900	20	1	MICROWAVERM 106	14	2	12	12
2		12	12		CLASSROOM 108 RECP	1	20	900		1980	1080	20	1	CABINET HOOD RM 106	16	2	12	13
	_	12	12		SPARE	1	20		0			20	1	SPARE	18			
		12	12		SPARE	1	20			0		20	1	SPARE	20			
					SPACE				0					SPACE	22			
				23	SPACE					0				SPACE	24			
Р	an	el Ty	pe:	Nei	ma 1	P	hase (Conn.	10220	9680	VA			Remarks:				
Mounting: SI		Sui	rface	To	tal Co	nnecte	d Load	20	83	AM	PS							
L	oca	ation		1S ⁻	T FLOOR CORRIDOR		В			125				PROVIDE PANEL WITH	INTEGRAL			
F	ed	Fron	n:	MD						240				TVSS				

WIRE GUARD

WEATHERPROOF

WIRELESS ACCESS POINT

Designation: Panel Voltage: AIC Rating		1.	ITP2				Now	Danal				Main Circuit Breaker	10	00			
		ge:	240/120V 1 PHASE 3	3 WIRE			new	Panel				Number of Poles:		8			
		9	10KAIC														
FEEDER DATA		CIR NO	I DAD DESCRIPTION	C.B. POLE	= 1=10===	C.B. LOAD	PHASE A	PHASE B	C.B. LOAD	_		LOAD DESCRIPTION	CIR NO	FEE	FEEDER DATA		
Vo.	WIRE	GND			NO.	Α	VA			VA	Α	NO.			No.	WRE	GNI
2	12	12	1	CLASSROOM 202 RECP	1	20	1080	2160		1080	20	1	CLASSROOM 310 RECP	2	2	12	12
2	12	12	3	CLASSROOM 202 RECP	1	20	900		1800	900	20	1	CLASSROOM 310 RECP	4	2	12	12
2	12	12	5	CLASSROOM 203 RECP	1	20	1080	2160		1080	20	1	CLASSROOM 311 RECP	6	2	12	12
2	12	12	7	CLASSROOM 203 RECP	1	20	900		1800	900	20	1	CLASSROOM 311 RECP	8	2	12	12
2	12	12	9	CLASSROOM 206 RECP	1	20	1080	1080			20	1	SPARE	10			
2	12	12	11	CLASSROOM 206 RECP	1	20	900		900		20	1	SPARE	12			
2	12	12	13	CLASSROOM 211 RECP	1	20	1080	1080			20	1	SPARE	14			
2	12	12	15	CLASSROOM 211 RECP	1	20	900		900		20	1	SPARE	16			
			17	SPACE				0					SPACE	18			
Pai	Mounting:				Phase Con Total Conne		Conn. 6480		5400	VA			Remarks:				
Мо							nnecte	nnected Load		50	AMI	PS					
Loc			2NI	D FLOOR CORRIDOR			Ві	Bus Size					PROVIDE PANEL WITH	INTI	EGF	RAL	
Fed	d Fror	n:	MD	P			1	√oltage	240				1 733				



PHILADELPHIA

OFFICE OF CAPITAL PROGRAMS

440 NORTH BROAD STREET PHILADELPHIA, PA 19130 - 4015 (215) 400 - 4730 | (215) 400 - 4731 (fax) www.philasd.org

SEAL: REGISTERED DO ONPROFESSIONAL SANJEEV AGARWAL TENGINEER / SANJEEV AGARWAL, P.E.

THE SHEWARD PARTNERSHIP, LLC www.theshewardpartnership.com 215.751.9301 2300 Chestnut Street f. 215.751.9302 Philadelphia, PA 19103

PA PE070557



t. 609.452.9700 www.princetonengineering.services

BID SUBMISSION JANUARY 16, 2019

1 | 2/22/19 | ADDENDUM 1

NO. DATE REVISION

SCHOOL & LOCATION Eleanor C. Emlen School 6501 Chew Avenue,

Philadelphia PA, 19119 PROJECT TITLE

CLASSROOM MODERNIZATION

DRAWING TITLE

COVER SHEET

DRAWING SCALE AS INDICATED LOCATION NO. FILE NO. XXX DRAWN BY CHECKED BY

GC B-029 C OF 2018 / 19 EC B-030 C OF 2018 / 19

DRAWING NO.

SHEET 17 OF 29

NEW — DISCONNECT (E) (5)-350 KCM -3-1/2°C (E) 4 POLE, 400A ENTRY SWITCH (E) METER LOCATION OF MDP IN BASEMENT IN SWITCHBOARD ROOM (E) UNDERGROUND SERVICE

BASEMENT ELECTRICAL PLAN
E100 SCALE: 1/8" = 1'-0"

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BID SUBMISSION JANUARY 16, 2019

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NO. DATE REVISION SCHOOL & LOCATION Eleanor C. Emlen School

6501 Chew Avenue, Philadelphia PA, 19119

PROJECT TITLE

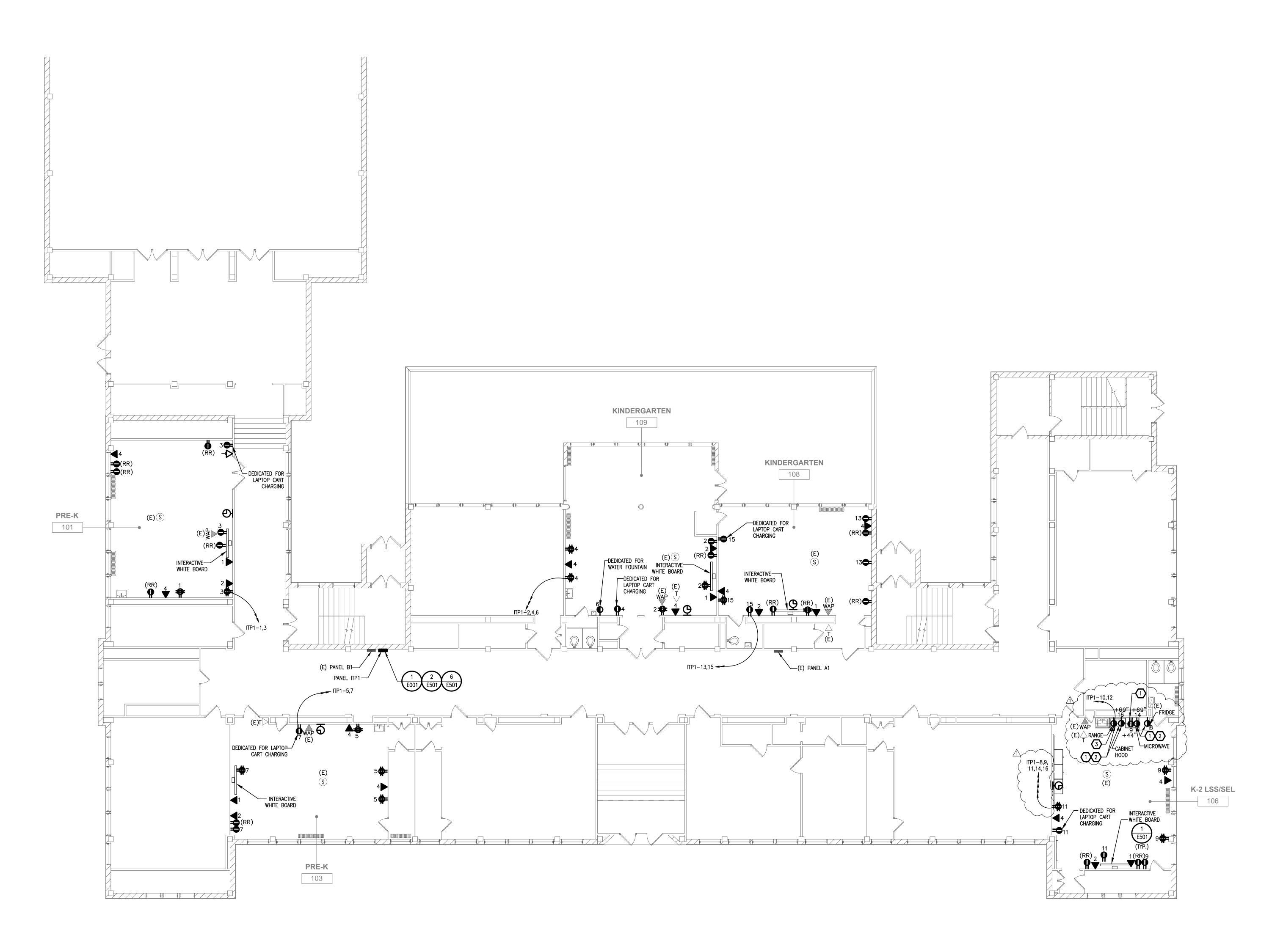
CLASSROOM MODERNIZATION

DRAWING TITLE

BASEMENT ELECTRICAL PLAN

LOCATION N	O. FILE NO.
XXXX	XXX
DRAWN BY	CHECKED BY
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ELECTRICAL KEY NOTES

COORDINATE POWER AND WIRING REQUIREMENTS WITH MANUFACTURER'S RECOMMENDATIONS.

COORDINATE LOCATION OF RECEPTACLE IN FIELD.

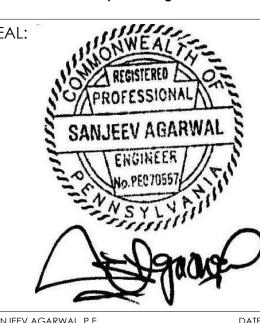
RECEPTACLE SHALL BE SUITABLE FOR 50A, 125/250V, 3 POLE, 4 WIRE, GROUNDING NEMA 14–50R.

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BID SUBMISSION JANUARY 16, 2019

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1	2/22/19	ADDENDUM 1
NO.	DATE	REVISION

SCHOOL & LOCATION

Eleanor C. Emlen School

4501 Chew Avenue

6501 Chew Avenue, Philadelphia PA, 19119

PROJECT TITLE

CLASSROOM MODERNIZATION

DRAWING TITLE

FIRST FLOOR POWER &

SYSTEMS PLAN

DRAWING SCALE

AS INDICATED	
LOCATION NO.	FILE NO.
DRAWN BY NG	CHECKED BY SA
CC P 020 C	OF 2010 / 10

GC B-029 C OF 2018 / 19 EC B-030 C OF 2018 / 19

DRAWING NO.

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