THE SCHOOL DISTRICT OF PHILADELPHIA Office of Capital Programs 440 North Broad Street, 3rd Floor – Suite 371 Philadelphia, PA 19130

TELEPHONE: (215) 400-4730

Addendum No. 01

- Subject: Stephen Decatur K-8 School SDP Contract No. B-082 18/19
- Location: Stephen Decatur K-8 School 3500 Academy Road Philadelphia, PA 19154

This Addendum, dated October 28th, 2020, shall modify and become part of the Contract Documents for the work of this project. Any items not mentioned herein, or affected by, shall be performed strictly in accordance with the original documents.

Bid RFIs:

Question #1:

Please clarify if spec section 262816 Enclosed Switches & Circuit Breakers is applicable to this project. There does not appear to be any scope regarding that spec in the drawings.

Response:

An enclosed switch is indicated on the riser diagram of FA4.0 ahead of the FACP.

Question #2:

Fire alarm general note 24 on drawing FA1.0 is not applicable because there is no scope in the project to replace the fire protection or elevator systems. Please confirm this note can be removed.

Response:

It is correct that the fire protection/sprinkler systems and elevators are not being replaced, and any present are existing to remain; contractor scope of work shall include monitoring any existing points of monitoring for these systems, and as indicated in the latest contract documents.

THE SCHOOL DISTRICT OF PHILADELPHIA

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OFFICE OF CAPITAL PROGRAMS

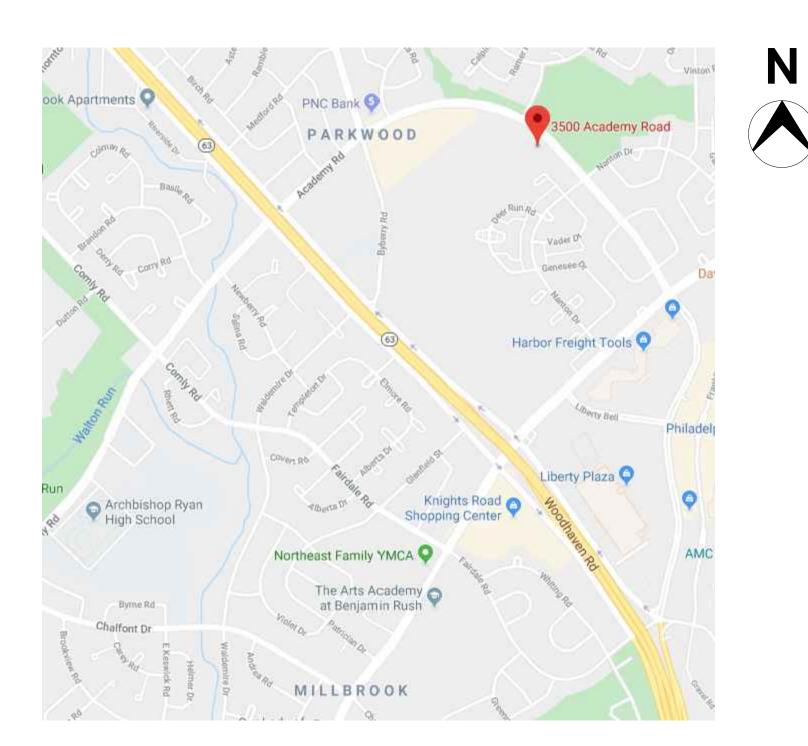
DRAWING LIST

| | current issue: ADDENDUM #1 | D 08.30.19 ISSUE FOR 60% REVIEW | G 11.21.19 ISSUE FOR 90% REVIEW | O 12.06.19 ISSUE FOR 100% REVIEW | O 07.31.20 ISSUE FOR BID | |
|--------|---|---------------------------------|---------------------------------|----------------------------------|--------------------------|------------|
| | R SHEET | - | <u> </u> | <u> </u> | | - |
| CS1.0 | COVER SHEET | 0 | 0 | 0 | 0 | |
| FIRE A | LARM | 1 | | | 1 | |
| FA1.0 | FIRE ALARM SYMBOLS & NOTES | 0 | 0 | 0 | 0 | lacksquare |
| FA1.1 | FIRE ALARM DETAILS & GUIDELINES | | 0 | 0 | \bullet | |
| FA2.0 | FIRE ALARM PLAN - GROUND FLOOR (EAST) - SLC DEVICES | 0 | 0 | 0 | 0 | \bullet |
| FA2.1 | FIRE ALARM PLAN - PARTIAL GROUND & FIRST FLOOR (WEST) - SLC DEVICES | 0 | 0 | 0 | \bullet | |
| FA2.2 | FIRE ALARM PLAN - PARTIAL FIRST FLOOR - SLC DEVICES | 0 | 0 | 0 | | |
| FA2.3 | FIRE ALARM PLAN -SECOND FLOOR - SLC DEVICES | 0 | 0 | 0 | \bullet | |
| FA2.4 | FIRE ALARM PLAN - THIRD FLOOR - SLC DEVICES | 0 | 0 | 0 | \bullet | |
| FA3.0 | FIRE ALARM PLAN - GROUND FLOOR - NAC DEVICES | 0 | 0 | 0 | \bullet | |
| FA3.1 | FIRE ALARM PLAN - PARTIAL FIRST FLOOR - NAC DEVICES | 0 | 0 | 0 | \bullet | |
| FA3.2 | FIRE ALARM PLAN - PARTIAL FIRST FLOOR - NAC DEVICES | 0 | 0 | 0 | lacksquare | |
| FA3.3 | FIRE ALARM PLAN - SECOND FLOOR - NAC DEVICES | 0 | 0 | 0 | lacksquare | |
| FA3.4 | FIRE ALARM PLAN - THIRD FLOOR - NAC DEVICES | 0 | 0 | 0 | lacksquare | |
| FA4.0 | FIRE ALARM RISER DIAGRAM - SLC DEVICES | 0 | 0 | 0 | 0 | \bullet |
| FA4.1 | FIRE ALARM RISER DIAGRAM - NAC DEVICES | 0 | 0 | 0 | lacksquare | |
| FA4.2 | FIRE ALARM BATTERY CALCULATIONS | | 0 | 0 | lacksquare | |
| FA4.3 | FIRE ALARM VOLTAGE DROP CALCULATIONS | | 0 | 0 | lacksquare | |
| FA5.0 | FIRE ALARM SYSTEM MANUFACTURER'S DEVICE SPECIFICATION SHEETS | 0 | 0 | 0 | lacksquare | |
| FA5.1 | FIRE ALARM SYSTEM MANUFACTURER'S DEVICE SPECIFICATION SHEETS | 0 | 0 | 0 | lacksquare | |
| FA5.2 | FIRE ALARM SYSTEM MANUFACTURER'S DEVICE SPECIFICATION SHEETS | 0 | 0 | 0 | lacksquare | |
| FA5.3 | FIRE ALARM SYSTEM MANUFACTURER'S DEVICE SPECIFICATION SHEETS | 0 | 0 | 0 | lacksquare | |
| FA5.4 | FIRE ALARM SYSTEM MANUFACTURER'S DEVICE SPECIFICATION SHEETS | 0 | 0 | 0 | lacksquare | |
| FA5.5 | FIRE ALARM SYSTEM MANUFACTURER'S DEVICE SPECIFICATION SHEETS | | 0 | 0 | \bullet | |
| FIRE A | LARM DEMOLITION | | | | | |
| FAD1.0 | FIRE ALARM DEMOLITION PLAN - GROUND FLOOR | | 0 | 0 | \bullet | |
| FAD1.1 | FIRE ALARM DEMOLITION PLAN - PARTIAL FIRST FLOOR | | 0 | 0 | \bullet | |
| FAD1.2 | FIRE ALARM DEMOLITION PLAN - PARTIAL FIRST FLOOR | | 0 | 0 | lacksquare | |
| FAD1.3 | FIRE ALARM DEMOLITION PLAN - SECOND FLOOR | | 0 | 0 | lacksquare | |
| FAD1.4 | FIRE ALARM DEMOLITION PLAN - THIRD FLOOR | | 0 | 0 | \bullet | |

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LOCATION MAPS

4



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FIRE ALARM REPLACEMENT PROJECT

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FOR

STEPHEN DECATUR ELEMENTARY SCHOOL 3500 ACADEMY ROAD PHILADELPHIA, PA 19154

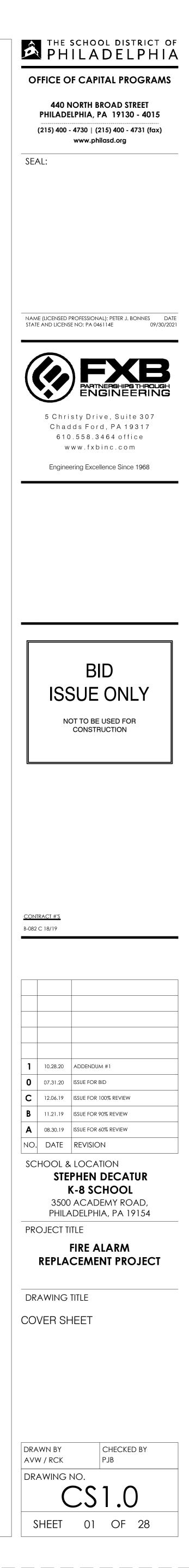
SDP#: B-082 C 18/19

ENGINEERING CONTACT

FXB ENGINEERING

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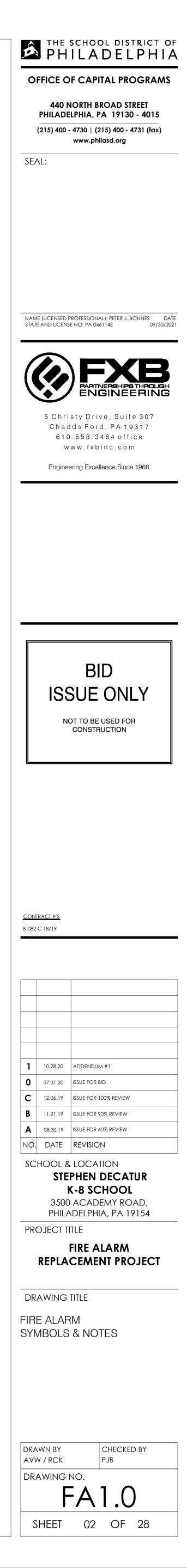


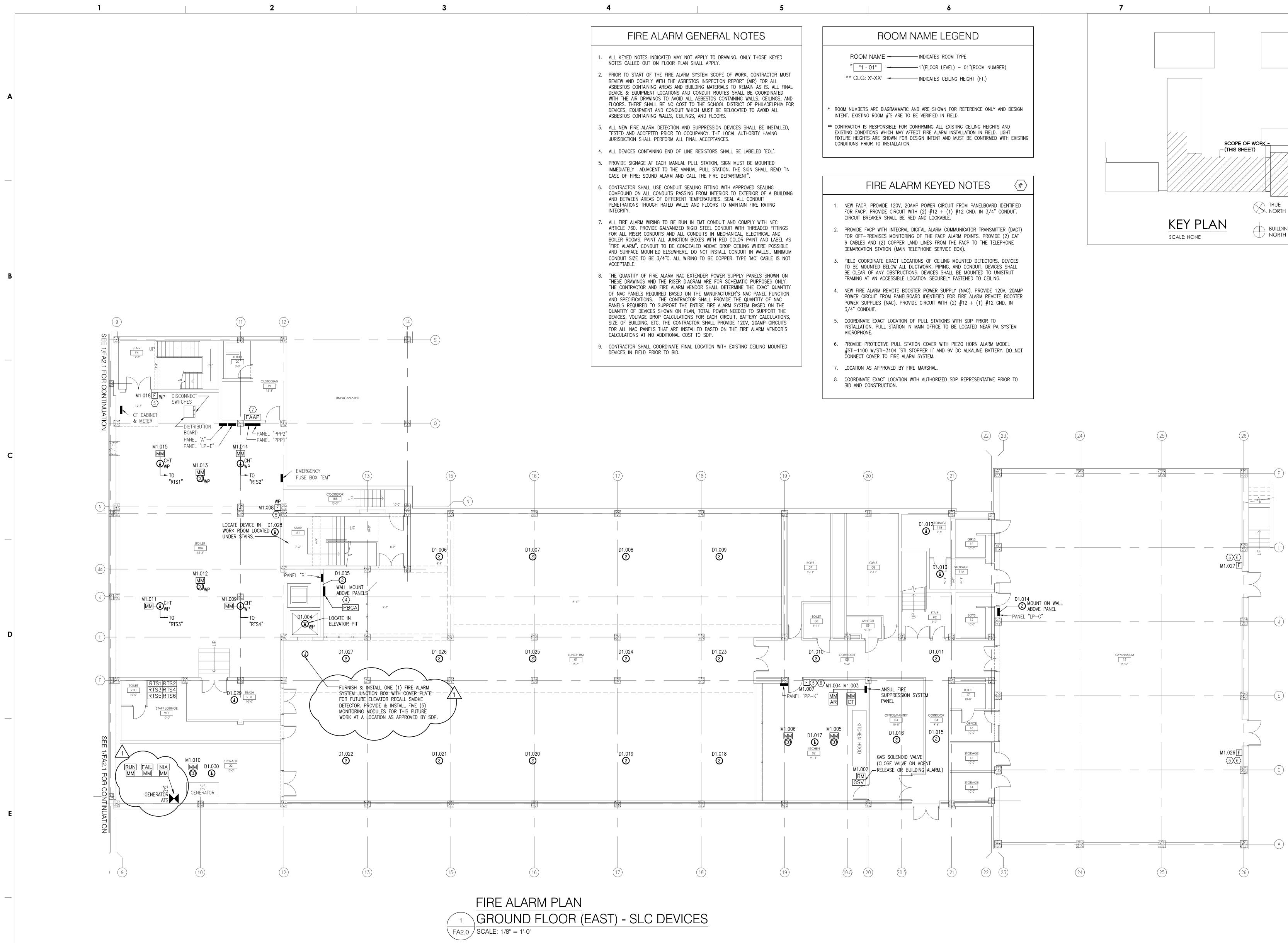
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| Α | |

| FIRE A | LARM SYMBOLS (ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT. SEE PLANS AND RISERS FOR SYMBOLS USED.) | TYPICAL SEQUENCE OF OPERATIONS MATRIX | FIRE ALARM GEN |
|---|--|--|--|
| NAC DEVIC | ES (ALL DEVICES SHALL BE AS SPECIFIED OR APPROVED EQUAL) | | 1. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT NECESSARY FOR AND INC |
| F | WALL-MOUNTED SPEAKER/STROBE DEVICE; SELECTABLE OUTPUT | $\begin{array}{c c} & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\$ | COMPLETE FIRE ALARM SYSTEM SHAL -INTERNATIONAL FIRE CODE (IFC) |
| F | WALL-MOUNTED STROBE DEVICE; SELECTABLE OUTPUT | | -NFPA 72 (NATIONAL FIRE ALARM -NFPA 70 (NATIONAL ELECTRICAL |
| ΕK | WALL-MOUNTED SPEAKER DEVICE; SELECTABLE OUTPUT | 12 3 3 3 3 3 3 3 5 5 5 | ANSI/ASME A17.1 (SAFETY CODE –ICC ANSI 117.1 (ACCESSIBLE AN |
| CM L | CEILING-MOUNTED SPEAKER/STROBE DEVICE; SELECTABLE OUTPUT | MANUAL PULL STATION | -NFPA 20 (STANDÀRD FOR THE IN -NFPA 13 (STANDARD FOR THE IN -LOCAL ORDINANCES |
| F | WALL-MOUNTED SPEAKER/STROBE DEVICE; WEATHERPROOF; SELECTABLE OUTPUT | AREA DETECTOR (SMOKE OR HEAT) • | -FIRE MARSHAL REQUIREMENTS 2. DEVICES AND EQUIPMENT SHALL BE L |
| FQWP | WALL-MOUNTED ALARM BELL; WEATHERPROOF | FACP/PB PRIMARY POWER FAILURE Image: Comparison of the second s | EQUIPMENT AND DEVICES SHALL BE IN |
| | NOTES: 1. SPEAKER TONE SHALL BE SET AT 15dBA OUTPUT ABOVE AREA'S AMBIENT SOUND LEVEL UNLESS OTHERWISE NOTED. 2. CANDELA SETTING SHALL BE AS SHOWN ON DRAWINGS. | FACP/PB LOW BATTERY | 3. ALL FIRE ALARM ("FA") EQUIPMENT AN PERPENDICULAR TO BUILDING STRUCTU |
| | SLC/SBUS DEVICES (ALL DEVICES SHALL BE AS SPECIFIED OR APPROVED EQUAL) | SLC/NAC OPEN-CIRCUIT • • • • SLC/NAC GROUND-FAULT • • • • | 4. THE CONTRACTOR SHALL REVIEW ALL ALARM EQUIPMENT. COORDINATE WITH DRAWINGS ARE INTENDED ONLY TO SH |
| FACP | FIRE ALARM CONTROL PANEL, INTELLIGENT, ADDRESSABLE; W/ VOICE EVAC/AMPLIFIER; W/ INTEGRAL DIGITAL COMMUNICATOR; PROVIDE SLC EXPANDER FOR EACH ADDITIONAL SLC SHOWN | SLC/NAC SHORT-CIRCUIT Image: Constraint of the second se | 5. THE CONTRACTOR SHALL BE RESPONS GRILLS, DUCTS, CONDUIT, PIPING, AND |
| FAAP | PROVIDE SLC EXPANDER FOR EACH ADDITIONAL SLC SHOWN FIRE ALARM ANNUNCIATOR PANEL | FIRE EXTINGUISHING ANSUL SYSTEM AGENT RELEASE | 6. SMOKE DETECTORS SHALL NOT BE INS |
| | DIGITAL VOICE CONTROL SYSTEM WITH DIGITAL AUDIO AMPLIFIER | ALL OTHER MONITORED POINTS | 7. DO NOT INSTALL FIRE ALARM CABLES |
| PB | FIRE ALARM REMOTE POWER SUPPLY | NOTE: CONTRACTOR SHALL PROVIDE MATRIX FOR PROPOSED INSTALL AS PART OF SHOP DRAWING SUBMITTAL. | 8. POLARITY SHALL BE MAINTAINED. POSI 9. FIRE ALARM WIRING CONNECTIONS SHA |
| ММ | ADDRESSABLE MONITOR MODULE | ABBREVIATIONS | BE PROVIDED & INSTALLED. |
| RM | ADDRESSABLE MONITOR MODULE | SYMBOL DESCRIPTION SYMBOL DESCRIPTION | 10. SIGNALING LINE CIRCUITS SHALL SHA ALLOWED QUANTITY DEVICES PER SLC. |
| | ADDRESSABLE RELAY MODULE CELLULAR ALARM COMMUNICATOR | A AMPERES SDP THE SCHOOL DISTRICT OF PHILADELPHIA AFF ABOVE FINISH FLOOR HD HEAT DETECTOR | 11. PERMANENTLY AFFIX A TYPEWRITTEN ACCEPTABLE. |
| RTS | REMOTE TEST SWITCH | ARCH ARCHITECT HR HOUR | 12. NOTIFICATION APPLIANCE VISUAL & A |
| | REMOTE TEST SWITCH REMOTE MICROPHONE WITH CABINET | AUXAUXILIARYmAMILLI-AMPBLDGBUILDINGMCMECHANICAL CONTRACTOR | MAXIMUM ALLOWED CIRCUIT CAPACITIES |
| | | C CONDUIT MPS MANUAL PULL STATION CKT CIRCUIT MISC MISCELLANEOUS | 14. PROVIDE SMOKE DETECTOR WITHIN 3 |
| F | ADDRESSABLE MANUAL PULL STATION; DUAL ACTION; KEYED RESET | C/L CENTERLINE MOD MODULE | 15. PROVIDE A FIRE ALARM ANNUNCIATOF THE FIRE MARSHAL. |
| <u>©</u> | CARBON MONOXIDE DETECTOR; PROVIDE & INSTALL ADDRESSABLE MONITOR MODULE | COL COLUMN N NEW DEVICE CU COPPER NAC NOTIFICATION APPLIANCE CIRCUIT | 16. PROVIDE DUCT SMOKE DETECTOR IN THIS SHALL INCLUDE AN ADDRESSABL |
| ② | ADDRESSABLE SMOKE DETECTOR; PHOTOELECTRIC W/ BASE ADDRESSABLE HEAT DETECTOR; 135°F FIXED TEMPERATURE | DWG DRAWING N.C. NORMALLY CLOSED E EXISTING DEVICE TO REMAIN N.O. NORMALLY OPEN | STATION. PROVIDE RELAY(S), AUX POW VAV UNIT & MAIN HVAC UNIT FOR SH |
| | CONVENTIONAL HEAT DETECTOR; 194°F FIXED TEMPERATURE; PROVIDE & INSTALL ADDRESSABLE MONITOR MODULE | EC ELECTRICAL CONTRACTOR NTS NOT TO SCALE | ACCESSIBLE LOCATION IN THE AREA S DETECTORS WITH MECHANICAL CONTRA |
| | | EMTELECTRICAL METALLIC TUBINGPBPOWER BOOSTEREOLEND OF LINEPWRPOWER | 17. PROVIDE 120V POWER SUPPLY TO FI CIRCUIT. PROVIDE LOCKING DEVICE FO |
| RTS | DUCT SMOKE DETECTOR HOUSING W/ RELAY MODULE & REMOTE TEST SWITCH; PROVIDE ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR; (LOCATE REMOTE TEST SWITCH IN PROXIMITY OF ASSOCIATED HVAC UNIT-SEE DEVICE MOUNTING HEIGHT DETAIL) | EOLREND OF LINE RESISTORREXISTING DEVICE TO BE REMOVEDEREXISTING DEVICE TO BE RELOCATEDRTUROOF TOP UNIT | 18. PROVIDE WIRING FOR TWO PHONE LI |
| MONITORE | D POINTS (SEE SEQUENCE OF OPERATIONS MATRIX FOR ADDITIONAL INFORMATION) | ERL EXISTING RELOCATED DEVICE (NEW LOCATION) SBY STANDBY FA FIRE ALARM SD SMOKE DETECTOR | 19. UPON COMPLETION OF THE INSTALLA |
| ST | SHUNT TRIP CONTROL POWER SUPERVISION | FAAP FIRE ALARM ANNUNICATOR PANEL SLC SIGNALING LINE CIRCUIT | 20. FA SYSTEM INSTALLER IS RESPONSIB |
| AR | FIRE EXTINGUISHING SYSTEM AGENT RELEASE | FACP FIRE ALARM CONTROL PANEL UON UNLESS OTHERWISE NOTED FAC FIRE ALARM CONTRACTOR V VOLT | PHILADELPHIA ('SDP') PRIOR TO BID, MANUFACTURER'S REPRESENTATIVE OF |
| | FIRE EXTINGUISHING SYSTEM CONTROL PANEL TROUBLE | FBO FURNISHED BY OTHERS W/ WITH FT FEET WG WIRE GUARD | RELAYS, MODULES, POWER SUPPLIES, FIRE ALARM SYSTEM IN ACCORDANCE |
| RUN | GENERATOR RUNNING | FI FEET WG WIRE GUARD GRD GROUND WP WEATHERPROOF | 21. FA SYSTEM INSTALLER SHALL COORD PHILADELPHIA SCHOOL DISTRICT REPRI |
| FAIL | GENERATOR FAILURE | CABLE TYPE SCHEDULE | EVACUATION PLANS" INCLUDING THOSE 22. THE FA SYSTEM INSTALLER IS RESPO |
| NIA | GENERATOR CONTROLLER NOT IN AUTO | TYPE APPLICATIONS (SEE NEC 2017; 760.154) | SPECIFIC VOLTAGE DROP & BATTERY ENGINEER FOR APPROVAL. DRAWINGS LICENSED IN GOOD STANDING WITH TH |
| | ED DEVICES (SEE SEQUENCE OF OPERATIONS MATRIX FOR ADDITIONAL INFORMATION) | FPL-CI (CIRCUIT INTEGRITY) INSTALLED WHERE 2 HR FIRE RATING OF CABLE IS REQUIRED FPL-CI (CIRCUIT INTEGRITY) INSTALLED WHERE 2 HR FIRE RATING OF CABLE IS REQUIRED | 23. CONTRACTOR MUST INCLUDE IN BID |
| ERP | ELEVATOR RECALL; PRIMARY FLOOR | FPLP (PLENUM RATED)INSTALLED IN DUCTS, PLENUMS, AND OTHER SPACES USED FOR ENVIROMENTAL AIR.FPLR (RISER RATED)INSTALLED IN VERTICAL RUNS AND PENETRATING MORE THAN ONE FLOOR OR INSTALLED IN VERTICAL RUNS IN A SHAFT. | RECORD TRAINING AND SUBMIT RECOR |
| ERA | ELEVATOR RECALL; ALTERNATE FLOOR | FPL (GENERAL PURPOSE) INSTALLED IN BUILDING LOCATIONS OTHER THAN THOSE LISTED ABOVE. | REQUIRED TO BE MONITORED BY THE PROVIDE & INSTALL HEAT DETECTOR |
| ERM | ELEVATOR RECALL; ELEVATOR MACHINE ROOM OR HOISTWAY | | ELEVATOR POWER. COORDINATE ELEVATION. |
| EST | ELEVATOR SHUT-DOWN; SHUNT TRIP DEVICE | | |
| OTHER | ELEVATOR SHUT-DOWN; FIRE HAT DEVICE | | |
| | END OF LINE RESISTOR | | 1. CONTRACTOR SHALL PROVIDE ALL MA THAT ARE INDICATED AND IMPLIED B |
| | | | BUILDING CONDITIONS FOR COMPLETE COSTS REQUIRED FOR A LICENSED F OPERATIONAL, CODE COMPLIANT, "TU |
| | FIRE ALARM TE | STING NOTES | 2. CONTRACTOR SHALL VISIT THE SITE |
| | | | ISSUES THAT WILL AFFECT THE BID SUBMIT A COMPLETE AND ACCURATE 'REQUEST FOR INFORMATION' (RFI) F |
| PROPER | TESTING & ADHERENCE TO ALL APPLICABLE STANDARDS & CODES, AS WELL AS ALL MANUFACTURER, FIRE MARSHAL, & PHILADELPHIA | | 3. CONFLICTS BETWEEN THE DRAWINGS, |
| 2. CONTRACTOR SHALL PROVIDE SUPPORT TO THE FOLLOWING FUNCTIONAL TESTING OF ALL DEVICES TO ENSURE THESE DEVICES OPERATE & FUNCTION AS REQUIRED DURING AN ALARM CONDITION: 2.1. VISUAL CONFIRMATION | | | 4. THE CONTRACTOR'S FAILURE TO IDEN |
| 2.1.2. | PROPER FUNCTIONING OF VISUAL DEVICE SYNCHRONIZATION OF ALL VISUAL DEVICES IN PROPER SEQUENCE BLE CONFIRMATION | | ACCOUNT FOR ALL COSTS NEEDED T INSTRUCTIONS, DRAWINGS, AND BOOK |
| 2.2.1. 2.2.2. | PROPER AUDIBLE FUNCTIONING OF ALL AUDIBLE DEVICES PROPER INTELLIGIBILITY OF SIGNAL FROM ALL AUDIBLE DEVICES | | THE SCHOOL DISTRICT OF PHILADELF IMPLIED. |
| 2.2.2.1. 2.3. INTE | PROVIDE STIPA TESTING AS REQUIRED IN ACCORDANCE WITH ANNEX D OF NFPA 72 | | 5. BID PRICE SHALL INCLUDE ADDITION THE INDICATED WORK DUE TO CHALI |
| 2.3.1. | 2.3.1. VERIFICATION OF SIGNAL BEING SENT TO SECURITY SYSTEM FOR RELEASE OF EGRESS LOCKS (AS APPLICABLE/REQUIRED) | | |
| 2.3.3. | VERIFICATION OF SIGNAL BEING SENT/RECEIVED & PROPER SEQUENCING BETWEEN FA & SPRINKLER SYSTEMS (AS APPLICABLE/REQUIN | RED) | 5.1. RELOCATION OR TEMPORARILY R 5.2. ROUTING CONDUIT, CIRCUITS, AN |
| CONTRACTOR SHALL PROVIDE SUPPORT TO THE FOLLOWING FUNCTIONAL TESTING OF ALL DEVICES TO ENSURE THESE DEVICES OPERATE & FUNCTION AS REQUIRED DURING FIRE/SMOKE/HEAT DETECTION CONDITION: 3.1. VERIFICATION THAT THE REQUIRED SIGNAL(S) ARE SENT TO, & RECEIVED BY, THE FACP FROM THE DETECTION DEVICE(S) | | | 6. BID PRICE SHALL INCLUDE TEMPORAL AS REQUIRED TO COMPLETE ALL INC |
| 3.2. VERIFICATION THAT THE REQUIRED SIGNALS ARE SENT TO, & RECEIVED BY, SMOKE DAMPERS FROM THE FACP (AS APPLICABLE/REQUIRED) 3.2.1. THIS FUNCTIONING SHALL BE COORDINATED WITH THE MECHANICAL CONTRACTOR | | | |
| 3.3.1. | FICATION OF SHUT—DOWN SIGNAL BEING SENT TO, & RECEIVED BY, THE ASSOCIATED HVAC UNIT FAN UPON DUCT SMOKE DETECTION V THIS FUNCTIONING SHALL BE COORDINATED WITH THE MECHANICAL CONTRACTOR FICATION THAT THE REQUIRED ALARM SIGNAL IS SENT TO, & RECEIVED BY, THE FACP UPON MANUAL PULL STATION ACTIVATION | | SHELVING. |
| | OR SHALL COORDINATE TESTING OF THE SPRINKLER PROTECTION SYSTEM(S) (PRE-ACTION, WET, DELUGE) TO ENSURE PROPER INTER- | SYSTEM COMMUNICATION (AS APPLICABLE/REQUIRED) | 7. BID PRICE SHALL INCLUDE PROVIDING CONSIST OF (1) 20A/1 POLE CIRCU |
| | FUNCTIONING SHALL BE COORDINATED WITH THE SPRINKLER CONTRACTOR | | (1)#12 GRD. IN 3/4" EMT CONDUIT. NEMA 5-20R DUPLEX RECEPTACLES |
| | | | |
| 5.1. CON | OR OR VENDOR (OR AGENT(S) THEREOF) SHALL PROVIDE ALL EQUIPMENT NECESSARY FOR TESTING FOR PROPER FUNCTION OF THE F RACTOR SHALL PROVIDE ANY FIRE ALARM SYSTEM TESTING EQUIPMENT NOT PROVIDED BY OTHER DISCIPLINES AS REQUIRED FOR PROF | PER INTER-SYSTEM TESTING. | FOR FA SYSTEM PRINTER, ONE (1) CONFIRM THE LOCATIONS OF THESE |
| 5.1. CON 6. CONTRACT 7. CONTRACT | | PER INTER–SYSTEM TESTING. DR A MINIMUM OF TWO (2) DAYS OF TESTING. IND ALL OTHER APPLICABLE CODES HAVE BEEN MET OR EXCEEDED. | |

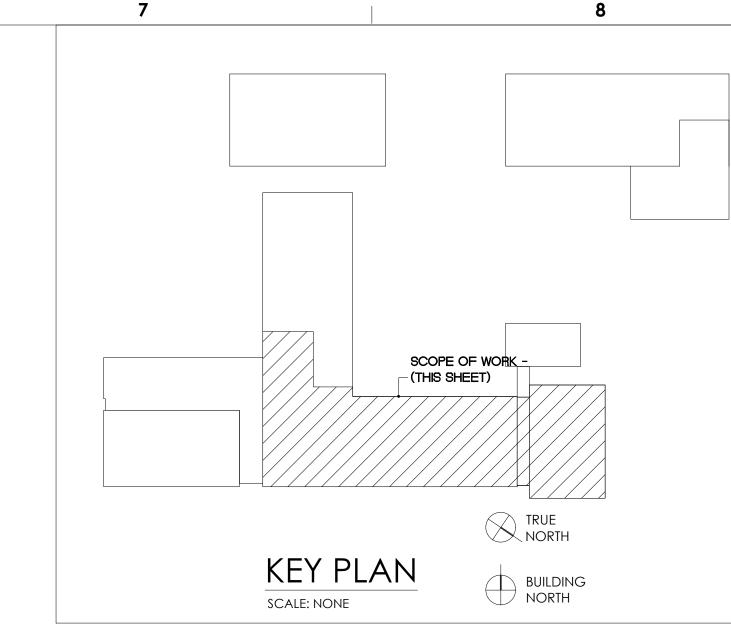
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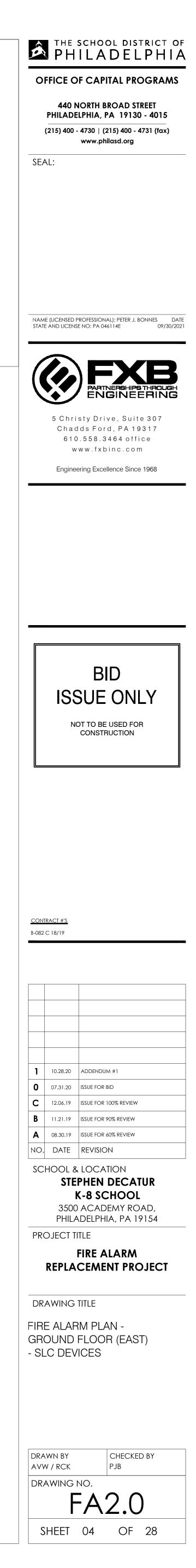
| OTES | | ELECTRICAL GENERAL NOTES |
|--|--|---|
| ILS, PERMITS, AND APPROVALS FROM GOVERNING AGE INSTALLATION AND TESTING OF THE SPECIFIED FIRE A IN COMPLIANCE WITH THE FOLLOWING: | | 1. ALL FEEDER AND BRANCH CIRCUIT WIRING SHALL BE RUN IN CONDUIT AS INDICATED IN THE SECTION 26 SPECIFICATIONS. MC CABLE SHALL ONLY BE USED FOR LIGHTING POWER WHIPS ABOVE ACT. TYPE "AC" OR "NM" CABLE SHALL NOT BE USED. AN INSULATED EQUIPMENT GROUNDING CONDUCTOR MUST BE RUN IN ALL BRANCH CIRCUITS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. |
| AND ESCALATORS) NGS AND FACILITIES) STATIONARY FIRE PUMPS) SPRINKLER SYSTEMS) | | ALL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, PARALLEL & PERPENDICULAR TO BUILDING STRUCTURE. MINIMUM CONDUIT SIZE SHALL BE 3/4", UNLESS NOTED OTHERWISE. MINIMUM WIRE SIZE SHALL BE #12 AWG TYPE THHN/THWN FOR POWER AND #14 THHN/THWN FOR CONTROL. ALL WIRING TO BE COPPER. |
| WRITER'S LABORATORIES (UL) OR FACTORY MUTUAL (I ORDANCE WITH THEIR LISTING. | M) APPROVED. | 4. ALL RACEWAYS RUNNING THROUGH BUILDING EXPANSION JOINTS SHALL BE EQUIPPED WITH EXPANSION FITTINGS. |
| BE INSTALLED IN A NEAT AND WORKMANLIKE MANNE ORING OF STRUCTURAL MEMBERS IS NOT PERMITTED. CT DOCUMENTS TO DETERMINE SPECIFIC MOUNTING LO OWNER, GENERAL CONTRACTOR OR CONSTRUCTION M (IMATE LOCATION OF DEVICES. | DCATIONS FOR FIRE | ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE 2017 NATIONAL ELECTRICAL CODE, THE PHILADELPHIA FIRE CODE, IBC 2018, IECC 2018, IFC 2018, THE LATEST STATE CODES, AND ALL LOCAL CODES. ALL ELECTRICAL EQUIPMENT, INCLUDING, BUT NOT LIMITED TO CONDUIT, WIRE, BOXES, AND FITTINGS, SHALL BE NEW AND FREE OF DEFECTS, SHALL BEAR THE THE UL LABEL, AND |
| NG ALL CONFLICTS WITH LIGHTING FIXTURES, DIFFUSE CTIONS AND MAINTAINING ADEQUATE CLEARANCES. THAN 36" TO OR IN THE DIRECT AIRSTREAM OF SUF H ANY OTHER BUILDING SYSTEM CONDUCTORS. | | 7. ALL WORK AND MATERIALS SHALL BE GUARANTEED FREE FROM DEFECTS FOR A MINIMUM PERIOD OF ONE YEAR UNLESS NOTED OTHERWISE. THE WARRANTY PERIOD SHALL BEGIN AT THE DATE OF BENEFICIAL OCCUPANCY OF THE SPACE UNLESS NOTED OTHERWISE IN THE PROJECT SPECIFICATIONS. |
| RED AND NEGATIVE SHALL BE BLACK. VICE TO DEVICE. WHERE SPLICING IS REQUIRED, TEF | RMINAL STRIPS SHALL | 8. THE CONTRACTOR IS RESPONSIBLE FOR FILING AND PAYING ALL FEES AND OBTAINING NECESSARY PERMITS, CERTIFICATES OF INSPECTION AND SHALL DELIVER ALL CERTIFICATES OF INSPECTION TO OWNER/ CONSTRUCTION MANAGER OR GENERAL CONTRACTOR INCLUDING COPIES WITH MAINTENANCE MANUALS. |
| DO NOT INSTALL MORE THAN 80% OF MANUFACTUR | ER'S MAXIMUM | 9. ALL NEW BRANCH CIRCUITS SHALL CONTAIN DEDICATED NEUTRAL CONDUCTORS. DO NOT SHARE NEUTRAL CONDUCTORS. |
| IRE ALARM DEVICES WITH DEVICE ADDRESS. HAND-WR | | BUILT DRAWINGS TO INDICATE ANY DEVIATIONS IN DESIGN DOCUMENTS. CONTRACTOR SHALL |
| HALL BE CLASS B; DO NOT INSTALL MORE THAN 80% /ER SUPPLY, &/OR AUDIO AMPLIFIER . | G OF MANUFACTURER'S | SUBMIT BOTH HARD COPIES AND DIGITAL COPIES OF "AS-BUILT" DRAWINGS UPON ACCEPTANCE OF COMPLETION OF CONSTRUCTION. 11. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL EXISTING SITE CONDITIONS. COORDINATE |
| F MONITORED OR CONTROLLED DEVICE. | | 12. ALL NEW BRANCH CIRCUITS, SHALL BE SURFACE MOUNTED, UNLESS NOTED OTHERWISE. |
| RE COMMAND CENTER(S) AS REQUIRED & AT LOCATIO | | PROVIDE FACEPLATES, BACKBOXES, MOUNTING HARDWARE, SURFACE MOUNTED CONDUIT, AND SIMILAR APPURTENANCES FOR A FULL INSTALLATION OF ALL REQUIRED WORK. |
| RN AIR PLENUMS OF ALL HVAC UNITS OVER 2,000 C TOR, SMOKE DETECTOR HOUSING, SAMPLING TUBES AN RING AS REQUIRED FROM DETECTOR TO BOTH ASSOC ACTIVATION OF DETECTOR. PROVIDE REMOTE TEST ST JNIT. COORDINATE EXACT LOCATIONS AND QUANTITY O | ND REMOTE TEST ATED FAN POWERED ATION AT A READILY | NEW RECEPTACLES MUST BE TAMPER PROOF PER NEC 2017. PATCH, REPAIR, AND PAINT ALL HOLES AND COSMETIC BLEMISHES DUE TO REMOVAL OF DEVICES AND EQUIPMENT. INSTALL BLANK STAINLESS STEEL FACEPLATES ON UNCOVERED OUTLET AND SWITCH BOXES. |
| ROL PANEL, POWER BOOSTERS, AMPLIFIERS, ETC., FRO KER AND PERMANENTLY LABEL CIRCUIT "FIRE ALARM S PHONE DEMARCATION POINT TO FIRE ALARM CONTROL D BY FIRE MARSHAL. | SYSTEM POWER". | 15. CAT 5/6 CABLING FOR LIGHTING CONTROLS SHALL BE PLENUM RATED. ABOVE DROP CEILING, CAT 5/6 CABLE SHALL BE SUSPENDED FROM J-HOOKS. IN WALLS OR EXPOSED, CAT 5/6 CABLING SHALL BE IN CONDUIT. |
| TORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE | IN THE PRESENCE OF | DEVICE ADDRESSING |
| L FULLY COORDINATE WITH FIRE MARSHAL & SCHOOL CONSTRUCTION. INSTALLER SHALL RETAIN SERVICES O REQUIRED. INSTALLER SHALL PROVIDE ALL FA DEVICES URTENANCES, ETC., AS NECESSARY FOR A COMPLETE RE MARSHAL REQUIREMENTS, & ALL APPLICABLE COD | F AUTHORIZED S, EQUIPMENT, WIRING, & FULLY FUNCTIONAL | STROBE CIRCUIT: SLC CIRCUIT: NAC POWER BOOSTER CIRCUIT NUMBER DEVICE NUMBER DEVICE NUMBER |
| DESIGN AND CONSTRUCTION WITH FIRE MARSHAL AND COMPLIANCE WITH REQUIREMENTS OF 2018 IFC 404 DCK DOWN [SHELTER-IN-PLACE] PLANS". | | N1A .1 .1 M1 .001 |
| /IDE A COMPLETE SET OF SHOP DRAWINGS, INCLUDING EQUENCE OF OPERATIONS MATRIX & DEVICE SPECIFIC REVIEW & APPROVAL SHALL BEAR THE SEAL OF A PI | ATION SHEETS TO THIS | SPEAKER CIRCUIT: NODE NUMBER SPEAKER CIRCUIT DETECTOR SLC NUMBER DEVICE NUMBER |
| ING SDP PERSONNEL ON USE OF FIRE ALARM SYSTEI A THUMB DRIVE AND A DVD FORMAT TO SDP. | M. CONTRACTOR SHALL | 1. SP 1 D1 .001 |
| OR FOR LOCATION AND QUANTITY OF ANY FIRE PROTI STEM. PROVIDE ONE MONITOR MODULE FOR EACH MOT PRINKLER HEAD(S) IN ELEVATOR SHAFT; INTERLOCK F UIREMENTS WITH ELEVATOR VENDOR & FIRE MARSHAL | NITORED POINT. OR INTERRUPTION OF | 15cd —— STROBE CANDELA 1/4w —— SPEAKER WATTAGE |
| BIDDING INS | FRUCTION | IS - BASE BID |
| EQUIPMENT, AND RELATED APPURTENANCES GS, BOOK SPECIFICATIONS, AND EXISTING ERATIONAL SYSTEMS. THIS SHALL INCLUDE ALL LECTRICAL CONTRACTOR TO PROVIDE A FULLY I FOR TYPE OF WORK INDICATED. | DEVICES & EQUIF AND PROPOSED I FIRE ALARM SYST GALVANIZED RIGID BOILER ROOM AN | L INCLUDE ALL REQUIRED MOUNTING HARDWARE & RACEWAYS FOR ALL NEW PMENT, AS REQUIRED AND TO COORDINATE DEVICE INSTALLATION WITH EXISTING BUILDING CONDITIONS. PROVIDE A COMPLETE NEW RACEWAY SYSTEM FOR THE NEW TEM AND INSTALLED ALL FIRE ALARM WIRING IN METAL CONDUIT. PROVIDE D STEEL CONDUIT FOR ALL RISER CONDUITS AND, ALL CONDUITS LOCATED IN ND ALL WET AND DAMP AREAS. PAINT ALL COVERS OF JUNCTION BOXES WITH RED |
| ISTING BUILDING AND BUILDING SYSTEMS ESTIONS AND CLARIFICATIONS REQUIRED TO LL BE SUBMITTED TO THIS ENGINEER AS A TAL OF BID. | 9. REMOVE AND KEE | ID LABEL AS "FIRE ALARM". EP SAFE EXISTING CEILING TILES. CONTRACTOR IS RESPONSIBLE TO REPLACE ANY DURING CONSTRUCTION. |
| ATIONS, AND THE REQUIREMENTS OF THE THE MOST EXPENSIVE CONSTRUCTION METHOD. | 10. BID PRICE SHALL | L INCLUDE ALL WALL AND FLOOR/CEILING PENETRATIONS FOR NEW BRANCH RE ALARM CIRCUITS. FIRESTOP ALL HOLES CREATED OR THAT BECOME EXPOSED DUE |
| UILDING CONDITION CHALLENGES, AND TO NOT E WORK DESCRIBED IN THESE BIDDING 5, SHALL NOT RESULT IN ADDITIONAL COST TO FE ALL WORK DESCRIBED, INDICATED, AND | TO DEMOLITION WO 11. UNLESS OTHERWI DEPARTMENT, COI | ORK IN ALL WALLS, FLOORS, SLABS AND FIRE RATED ASSEMBLIES. ISE DIRECTED BY THE PHILADELPHIA SCHOOL DISTRICT CONSTRUCTION MANAGEMENT INTRACTOR IS RESPONSIBLE FOR COVERING AND PROTECTING ALL SCHOOL DUST AND DEBRIS DURING ALL PHASES OF CONSTRUCTION. CONTRACTOR SHALL |
| RIAL, AND EQUIPMENT REQUIRED TO COMPLETE TO EXISTING DUCTWORK, PIPING, STRUCTURAL EMS. THIS INCLUDES: | AND SECURITY DI 12. PATCH, REPAIR, A | S INCLUDING BUT NOT LIMITED TO COMPUTERS, FURNITURE, FIRE ALARM DEVICES, DEVICES. AND PAINT ALL HOLES AND COSMETIC BLEMISHES DUE TO REMOVAL OF DEVICES INSTALL BLANK STAINLESS STEEL FACEPLATES ON UNCOVERED OUTLET AND |
| INSTALLATION OF THESE BUILDING SYSTEMS. | SWITCH BOXES. | L INCLUDE ALL FIRE ALARM DEVICES, PROGRAMMING, TESTING, COMMISSIONING, AND |
| AROUND THESE BUILDING SYSTEMS. OF FURNITURE, FURNISHINGS, AND EQUIPMENT | | L INCLUDE COST TO PROVIDE & INSTALL A NEW SIGN TO EACH NEW MANUAL PULL |
| HIS SHALL INCLUDE, BUT NOT BE LIMITED TO GHTING, BOILER ROOM PIPE HANGERS, AND | SHALL READ "IN | GN SHALL BE MOUNTED IMMEDIATELY ADJACENT TO THE MANUAL PULLSTATION AND CASE OF FIRE: SOUND ALARM AND CALL THE FIRE DEPARTMENT" L INCLUDE COST TO CONNECT ALL EXISTING ELEVATOR CONTROL EQUIPMENT TO |
| 0V, 20A CIRCUITS. EACH CIRCUIT SHALL H RED LOCKING DEVICE, 125'—0" OF (2)#12 & TO PROVIDE & INSTALL (3) THREE 20A, 120V | THE FIRE ALARM CONTRACTOR SHA ELEVATOR. | S FIRE ALARM SYSTEM COMPLETELY INCLUDING FIRE ALARM CONTROL PANEL, CODED |
| SURFACE MOUNTED OUTLET BOXES [ONE (1) ND ONE (1) AS MAY BE REQUESTED BY SDP). SDP & THIS ENGINEER PRIOR TO | PULL STATIONS, F THE EXISTING FIR IS CERTIFIED; THE THE INSTALLATION FIRE MARSHAL/AF CONDUIT, WIRING, WALLS WHERE PA | BELLS, DETECTORS, FIRE ALARM WIRING AND CONDUIT SYSTEM IN THEIR ENTIRETY. BELLS, DETECTORS, FIRE ALARM WIRING AND CONDUIT SYSTEM IN THEIR ENTIRETY. RE ALARM SYSTEM SHALL BE OPERATIONAL PRIOR TO THE NEW FIRE ALARM SYSTEM DE DEMOLITION OF EXISTING FIRE ALARM SYSTEM SHALL NOT BEGIN UNTIL AFTER N OF NEW FIRE ALARM SYSTEM IS COMPLETED AND CERTIFIED FOR USE BY THE HJ. DEMOLITION SHALL INCLUDE REMOVAL OF ALL EXISTING FA SYSTEM DEVICES, BACKBOXES, RACEWAYS, ETC., INCLUDING PATCHING, PAINTING AND REPAIRING ANELS AND RELATED APPURTENANCES ARE REMOVED. REMOVE ALL EXISTING DLD WHICH CONTAINS BRANCH CIRCUITS OR WIRING FROM PANELS BEING REMOVED. |

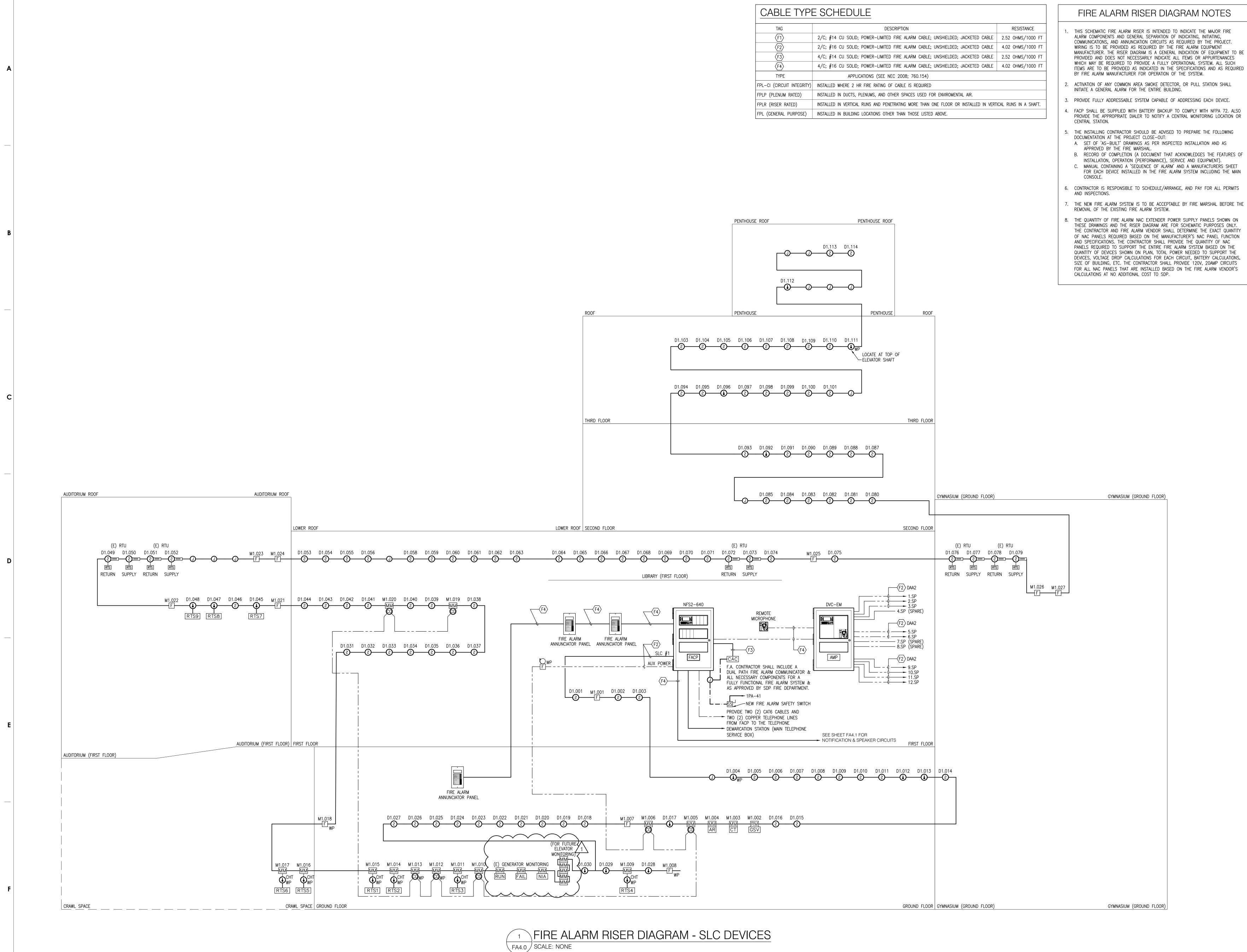




| 3 | 4 | 5 | |
|----|--|--|---|
| | FIRE AL | ARM GENERAL NOTES | RO |
| | NOTES CALLED OUT ON F 2. PRIOR TO START OF THE REVIEW AND COMPLY WITH ASBESTOS CONTAINING AF DEVICE & EQUIPMENT LO WITH THE AIR DRAWINGS FLOORS. THERE SHALL BI DEVICES, EQUIPMENT AND ASBESTOS CONTAINING W. 3. ALL NEW FIRE ALARM DE TESTED AND ACCEPTED F JURISDICTION SHALL PERI | ATED MAY NOT APPLY TO DRAWING. ONLY THOSE KEYED FLOOR PLAN SHALL APPLY. FIRE ALARM SYSTEM SCOPE OF WORK, CONTRACTOR MUST H THE ASBESTOS INSPECTION REPORT (AIR) FOR ALL REAS AND BUILDING MATERIALS TO REMAIN AS IS. ALL FINAL CATIONS AND CONDUIT ROUTES SHALL BE COORDINATED TO AVOID ALL ASBESTOS CONTAINING WALLS, CEILINGS, AND E NO COST TO THE SCHOOL DISTRICT OF PHILADELPHIA FOR O CONDUIT WHICH MUST BE RELOCATED TO AVOID ALL ALLS, CEILINGS, AND FLOORS. TECTION AND SUPPRESSION DEVICES SHALL BE INSTALLED, PRIOR TO OCCUPANCY. THE LOCAL AUTHORITY HAVING FORM ALL FINAL ACCEPTANCES. END OF LINE RESISTORS SHALL BE LABELED 'EOL'. | ROOM NAME |
| | IMMEDIATELY ADJACENT CASE OF FIRE: SOUND AI 6. CONTRACTOR SHALL USE COMPOUND ON ALL CONE AND BETWEEN AREAS OF | CH MANUAL PULL STATION, SIGN MUST BE MOUNTED TO THE MANUAL PULL STATION. THE SIGN SHALL READ "IN LARM AND CALL THE FIRE DEPARTMENT". CONDUIT SEALING FITTING WITH APPROVED SEALING DUITS PASSING FROM INTERIOR TO EXTERIOR OF A BUILDING DIFFERENT TEMPERATURES. SEAL ALL CONDUIT CATED WALLS AND FLOORS TO MAINTAIN FIRE RATING | 1. NEW FACP. PROVIDE 1 FOR FACP. PROVIDE C |
| | ALL FIRE ALARM WIRING ARTICLE 760. PROVIDE G. FOR ALL RISER CONDUITS BOILER ROOMS. PAINT AL "FIRE ALARM". CONDUIT T AND SURFACE MOUNTED CONDUIT SIZE TO BE 3/- ACCEPTABLE. THE QUANTITY OF FIRE A THESE DRAWINGS AND TH THE CONTRACTOR AND FI OF NAC PANELS REQUIRE AND SPECIFICATIONS. TH PANELS REQUIRED TO SU QUANTITY OF DEVICES SH | TO BE RUN IN EMT CONDUIT AND COMPLY WITH NEC ALVANIZED RIGID STEEL CONDUIT WITH THREADED FITTINGS S AND ALL CONDUITS IN MECHANICAL, ELECTRICAL AND L JUNCTION BOXES WITH RED COLOR PAINT AND LABEL AS TO BE CONCEALED ABOVE DROP CEILING WHERE POSSIBLE ELSEWHERE. DO NOT INSTALL CONDUIT IN WALLS MINIMUM 4"C. ALL WIRING TO BE COPPER. TYPE 'MC' CABLE IS NOT LARM NAC EXTENDER POWER SUPPLY PANELS SHOWN ON THE RISER DIAGRAM ARE FOR SCHEMATIC PURPOSES ONLY. IRE ALARM VENDOR SHALL DETERMINE THE EXACT QUANTITY ED BASED ON THE MANUFACTURER'S NAC PANEL FUNCTION THE CONTRACTOR SHALL PROVIDE THE QUANTITY OF NAC IPPORT THE ENTIRE FIRE ALARM SYSTEM BASED ON THE HOWN ON PLAN, TOTAL POWER NEEDED TO SUPPORT THE CALCULATIONS FOR EACH CIRCUIT, BATTERY CALCULATIONS, | CIRCUIT BREAKER SHALL 2. PROVIDE FACP WITH IN FOR OFF-PREMISES M 6 CABLES AND (2) CO DEMARCATION STATION 3. FIELD COORDINATE EXA TO BE MOUNTED BELC BE CLEAR OF ANY OB FRAMING AT AN ACCES 4. NEW FIRE ALARM REMO POWER CIRCUIT FROM POWER SUPPLIES (NAC 3/4" CONDUIT. |
| (S | SIZE OF BUILDING, ETC. FOR ALL NAC PANELS TH CALCULATIONS AT NO ADI | THE CONTRACTOR SHALL PROVIDE 120V, 20AMP CIRCUITS IAT ARE INSTALLED BASED ON THE FIRE ALARM VENDOR'S DITIONAL COST TO SDP. RDINATE FINAL LOCATION WITH EXISTING CEILING MOUNTED | COORDINATE EXACT LO INSTALLATION. PULL ST MICROPHONE. PROVIDE PROTECTIVE F #STI-1100 W/STI-310 CONNECT COVER TO F LOCATION AS APPROVE COORDINATE EXACT LO |







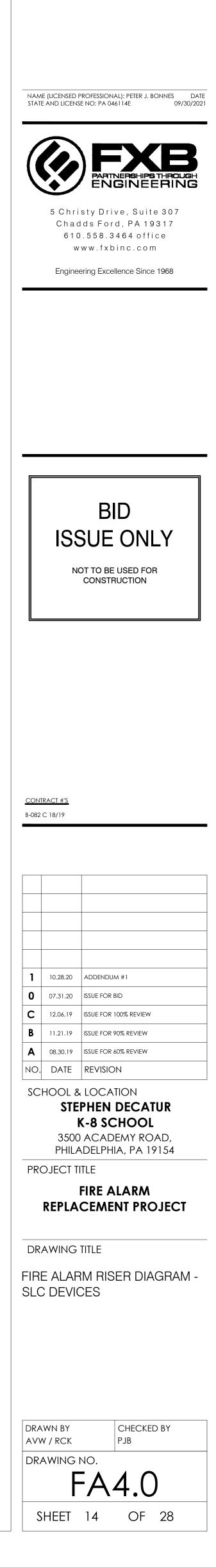
| CABLE TYP |
|---------------------------|
| |
| TAG |
| (F1) |
| F2 |
| F3 |
| (F4) |
| TYPE |
| FPL-CI (CIRCUIT INTEGRITY |
| FPLP (PLENUM RATED) |
| FPLR (RISER RATED) |
| FPL (GENERAL PURPOSE) |
| |

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