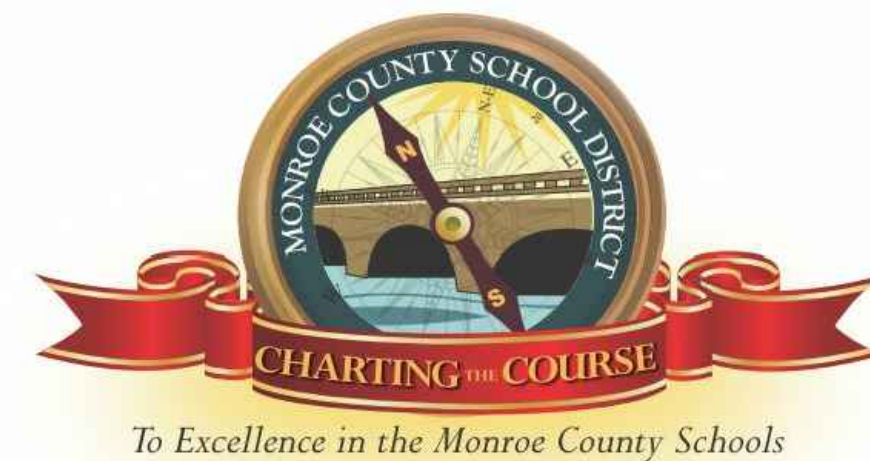


Key Largo School Fire Alarm and Intercom Replacement

PREPARED FOR
Monroe County School District
241 Trumbo Road
Key West, Florida 33040



SCHOOL BOARD MEMBERS
District 1 - Bobby Highsmith
District 2 - Andy Griffiths
District 3 - Mindy Conn
District 4 - John Dick
Distict 5 - Dr. Sue Woltanski

SUPERINTENDENT OF SCHOOLS
Theresa Axford

PREPARED BY
AGI Anston-Greenlees, Inc.
Mechanical & Electrical Consulting Engineers
1315 West Fletcher Avenue, Tampa, FL 33612 Tel:(813)963-1919
Email: AGI@agi-engineers.com HTTP://www.agi-engineers.com
Florida Engineering Business Number 6093

February 14, 2022
CONSTRUCTION DOCUMENTS

DRAWING INDEX

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21013

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ABBREVIATIONS:			
AFF	ABOVE FINISHED FLOOR	G, GND	GROUND
AFG	ABOVE FINISHED GRADE	GWB	GYPSUM WALL BOARD
E	EXISTING	H.D.	HAND DRYER
ETR	EXISTING TO REMAIN	INT	INTERCOM/PAGING CABINET
EW	ELECTRIC WATER COOLER	MTG	MOUNTING
EW	ELECTRIC WATER HEATER	MTD	MOUNTED
EG	EQUIPMENT GROUND	M.H.	MOUNTING HEIGHT
ER	ELEVATOR RECALL	N/A	NOT APPLICABLE
FACP	FIRE ALARM CONTROL PANEL	PROJ	PROJECTOR LOCATION
FATC	FIRE ALARM TERMINAL CABINET	U.O.N.	UNLESS OTHERWISE NOTED
FAVP	FIRE ALARM VOICE COMMAND CONTROL PANEL WITH ANNUNCIATOR	R	REMOVE
		RL	RELOCATED
GFI	GROUND FAULT PROTECTION	WP	WEATHER PROOF

ELECTRICAL LEGEND		
SYMBOL	DESCRIPTION	MOUNTING
	BRANCH CIRCUIT CONDUIT AND WIRE CONCEALED ABOVE CEILING OR BEHIND FINISHED WALL	N/A
	HOMERUN TO PANELBOARD -- LETTER INDICATES PANEL, NUMBER INDICATES CIRCUIT, MINIMUM 3/4" CONDUIT. NOTE: ANY HOMERUN WITHOUT FURTHER DESIGNATION INDICATES TWO #12 AWG AND #12 AWG EQUIPMENT GROUND. PC OUTLET REQUIRES SEPARATE NEUTRAL, MIN. #10 AWG. DEDICATED CIRCUIT REQUIRES SEPARATE NEUTRAL	N/A
	RACEWAY RISER, UP OR DOWN AS NOTED	N/A
	120/208 VOLT POWER PANELBOARD	M.H. 6'-0" TO TOP OR AS NOTED
	277/480 VOLT POWER PANELBOARD	M.H. 6'-0" TO TOP OR AS NOTED
	MANHOLE, 36"x36"x36" MIN. SIZE, WITH COVER, POLYMER CONCRETE CONSTRUCTION, QUATZITE PG SERIES OR EQUIVALENT	IN GRADE
	FIRE ALARM STROBE XX = CANDELA RATING, MINIMUM 75 CANDELA U.O.N.	TOP 6" BELOW CEILING OR 80" TO BOTTOM OF LENS A.F.F. WHICHEVER IS LOWER
	FIRE ALARM COMBINATION HORN/STROBE, LETTER IN CIRCLE INDICATES TYPE: C=CHIME, B=BELL, H=HORN, S=SPEAKER XX = CANDELA RATING, MINIMUM 75 CANDELA U.O.N.	TOP 6" BELOW CEILING OR 80" TO BOTTOM OF LENS A.F.F. WHICHEVER IS LOWER
	FIRE ALARM HORN/SPEAKER, LETTER IN CIRCLE INDICATES TYPE: B=BELL, C=CHIME, H=HORN, S=SPEAKER WP=WEATHERPROOF TYPE	TOP 6" BELOW CEILING OR 80" TO CTR. A.F.F. WHICHEVER IS LOWER EXTERIOR HORNS MOUNTED AT 96" AFF
	FIRE ALARM TROUBLE BELL (SEE F.A. ONE LINE DIAGRAM)	AS NOTED
	FIRE ALARM MANUAL PULL STATION	M.H. 48" AFF TO TOP
	FIRE ALARM REMOTE INDICATOR	M.H. 48" AFF TO TOP
	FIRE ALARM FLOW SWITCH	AS NOTED
	FIRE ALARM TAMPER SWITCH	AS NOTED
	FIRE ALARM MAGNETIC DOOR HOLDER COORDINATE MOUNTING HEIGHT WITH EXISTING DOOR	WALL MOUNTED
	FIRE ALARM SMOKE DETECTOR	CEILING MOUNTED
	FIRE ALARM DUCT MOUNTED SMOKE DETECTOR	DUCT MOUNTED
	FIRE ALARM HEAT DETECTOR	CEILING MOUNTED
	HIGH TEMP. FIRE ALARM HEAT DETECTOR 190°F FIXED TEMP. RATING	CEILING MOUNTED
	FIRE ALARM CONTROL RELAY (AIR HANDLER SHUTDOWN SOLENOID VALVE, ETC.)	M.H. 60" A.F.F. TO BOTTOM OR AS NOTED
	FIRE RATED SMOKE DAMPER WITH MOTOR ACTUATOR PROVIDE RELAY AND CONTROL CIRCUIT TO CONTROL 120V SMOKE DAMPER POWER	AS NOTED
	FIRE ALARM TERMINAL CABINET -- MIN. 18"x18"x6" WITH HINGED LOCKABLE COVER	M.H. 6'-0" A.F.F. TO TOP
	FIRE ALARM CONTROL PANEL	M.H. 6'-0" A.F.F. TO TOP
	FIRE ALARM PULL STATION INSIDE	SEE FIRE ALARM RISER
	FIRE ALARM SYSTEM END OF LINE RESISTOR	SEE FIRE ALARM RISER
	NEW INTERCOM SPEAKER IN NEW LOCATION. PROVIDE NEW INTERCOM CABLING. WP = WEATHERPROOF	WALL MOUNTED
	NEW INTERCOM SPEAKER IN EXISTING LOCATION. REUSE EXISTING INTERCOM CABLING. WP = WEATHERPROOF	WALL MOUNTED

THIS IS A STANDARD LEGEND. NOT ALL DEVICES SHOWN ARE USED IN THESE DOCUMENTS.

- ELECTRICAL GENERAL NOTES:**
(THESE NOTES APPLY TO ALL SHEETS)
- ALL ELECTRICAL WORK SHALL MEET ALL OF THE REQUIREMENTS OF THE FOLLOWING:
 - FLORIDA BUILDING CODE (FBC) 7TH EDITION (2020): THIS CODE INCLUDES THE 2020 FBC BUILDING, MECHANICAL, PLUMBING, ENERGY CONSERVATION, FUEL GAS, ACCESSIBILITY, AND TEST PROTOCOLS VOLUMES. FURTHER, SEE "REFERENCED STANDARDS" IN THE FBC BUILDING CHAPTER 35; FBC MECHANICAL CHAPTER 15; FBC PLUMBING CHAPTER 14; FBC ENERGY CONSERVATION CHAPTER 6; AND FBC FUEL GAS CHAPTER 8) (EFFECTIVE DECEMBER 31, 2020).
 - 7TH EDITION OF THE FLORIDA FIRE PREVENTION CODE (FFPC): (THIS CODE ALSO INCLUDES THE FLORIDA VERSIONS OF NFPA 1 AND NFPA 101.) (EFFECTIVE DECEMBER 31, 2020).
 - 2017 NATIONAL ELECTRIC CODE.
 - 2014 STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (SREF): -- (EFFECTIVE NOVEMBER 4, 2014)
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND VERIFY THE EXISTING CONDITIONS TO GAIN KNOWLEDGE OF THE SCOPE OF WORK INVOLVED.
 - "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
 - IN GENERAL, THESE DRAWINGS ARE SCHEMATIC IN NATURE AND SHOULD NOT BE SCALED. IT SHALL NOT BE THE INTENT OF THESE PLANS AND/OR SPECIFICATIONS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. PROVIDE ALL ITEMS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.
 - ELECTRICAL INSTALLATION SHALL BE CLOSELY COORDINATED WITH ALL OTHER TRADES. REVIEW THE ENTIRE SET OF DOCUMENTS FOR COORDINATION. NO COST SHALL BE ASSOCIATED WITH ILL-TIMED INSTALLATION INCLUDING ANY REPAIRS OR REPLACEMENTS.
 - ALL CONDUITS AND BOXES SHALL BE CONCEALED UNLESS OTHERWISE NOTED. ALL CONDUIT RUNS ARE SCHEMATIC IN NATURE. EXACT ROUTING TO BE DETERMINED IN THE FIELD UNLESS OTHERWISE NOTED.
 - APPLY A BITUMASTIC COATING FOR ALL CONDUITS PENETRATING FLOOR SLABS FROM BELOW GRADE.
 - PROVIDE ALL REQUIRED PULL BOXES, JUNCTION BOXES, ETC. FOR A COMPLETE INSTALLATION.
 - PATCH, REPAIR AND REPAINT ALL WALLS THAT HAVE BEEN DAMAGED DUE TO ELECTRICAL ROUGH-IN. REMOVE ANY UNUSED CONDUIT AND WIRE.
 - PROVIDE FIRE--STOPPING AT ALL FIRE WALL PENETRATIONS. USE A U.L. APPROVED SYSTEM LISTED FOR THE ASSOCIATED INSTALLATION.
 - ALL CONDUCTORS SHALL BE STRANDED COPPER, THHN/THWN, MINIMUM #12 AWG. ALL CONDUCTORS SHALL BE IN CONDUIT. FLEXIBLE CONDUIT SHALL BE LIMITED TO A MAXIMUM OF 6'-0" IN LENGTH.
 - MC CABLE OR OTHER PREMANUFACTURED CABLING SHALL NOT BE USED UNLESS APPROVED BY THE OWNER AND ENGINEER.
 - ALL CIRCUITS SHALL CONTAIN A SEPARATE, GREEN, COPPER GROUNDING CONDUCTOR.
 - WHEN REUSING OR EXTENDING EXISTING CIRCUITS, VERIFY ALL CIRCUIT NUMBERS AND VERIFY ANY EXISTING LOAD. CIRCUITS MAY BE PICKED UP AT AN EXISTING JUNCTION BOX IF AVAILABLE RATHER THAN PROVIDING A SEPARATE HOMERUN TO A PANEL.
 - ANY AFFECTED PANELBOARDS SHALL BE ACCURATELY LABELED TO IDENTIFY FINAL CIRCUIT NUMBERS UTILIZED, THEIR LOAD AND LOCATION.
 - PROVIDE FIRE RETARDANT U.L. APPROVED SEALANT ON ALL PENETRATIONS OF FIRE RATED PARTITIONS, WALLS AND STRUCTURAL SLABS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY, PRIOR TO SUBMITTING BID, LOCATIONS OF ALL SUCH FIRE RATED PARTITIONS, WALL AND STRUCTURAL SLABS.
 - EXISTING POWER, LIGHTING AND LOW VOLTAGE SYSTEMS THAT ARE TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION AND SHALL REMAIN IN OPERATION WHILE THE CAMPUS IS OCCUPIED. ANY AND ALL AREAS THAT ARE OCCUPIED DURING CONSTRUCTION SHALL HAVE OPERATIONAL SYSTEMS, INCLUDING TV, INTERCOM AND VOICE/DATA CABLING INFRASTRUCTURE SYSTEM. ANY DAMAGE TO ANY EXISTING SYSTEMS SHALL BE REPAIRED OR REPLACED AS NECESSARY TO PLACE IT BACK INTO ACCEPTABLE OPERATIONAL CONDITION. ALL ELECTRICAL SYSTEMS ARE DEEMED TO BE OPERATIONAL AND IN SATISFACTORY CONDITION. AT THE CONTRACTORS OPTION, THE FOLLOWING SYSTEMS MAY BE FULLY TESTED PRIOR TO ANY WORK IN THE BUILDING AND ANY EXISTING PROBLEMS OR TROUBLE ON THESE SYSTEMS SHALL BE REPORTED TO THE OWNER IN WRITING. ANY NEW PROBLEMS DISCOVERED DURING OR AFTER CONSTRUCTION THAT ARE NOT DOCUMENTED WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CORRECT AT NO ADDITIONAL COST TO THE OWNER.
 - INSTRUCTIONAL TV
 - INTERCOM SYSTEM (ANY PORTION THAT REMAIN)
 - VOICE AND DATA NETWORK SYSTEM, INCLUDING FIBER BACKBONE
 - SECURITY SYSTEM
 - VIDEO SURVEILLANCE SYSTEM
 - AUDIO--VISUAL SYSTEMS, INCLUDING PROJECTORS
 - BOXES SHALL BE LOCATED SO THEY CAN BE REACHED AND ACCESSED FOR MAINTENANCE. AVOID LOCATING ABOVE HARD CEILINGS. DO NOT LOCATE ABOVE EQUIPMENT OR DUCTWORK WHERE IT CANNOT BE ACCESSED.
 - PROVIDE NEW CEILING TILES FOR ANY AND ALL MISSING, BROKEN, MARKED UP, OR OTHERWISE DAMAGED FROM THE FIRE ALARM SYSTEM CONSTRUCTION WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SURVEY THE CAMPUS FOR ANY EXISTING MISSING, DAMAGED OR BROKEN TILES AND PROVIDE A REPORT IN WRITING BY ROOM NAME AND NUMBER. NEW CEILING TILES SHALL BE IN ACCORDANCE WITH THE EXISTING TILE. CONSULT OWNER FOR MAKE/MODEL NUMBER FOR CLOSE MATCH/MATCH EXISTING.
 - PHASING WITH EXISTING CAMPUS SYSTEM: THE EXISTING FIRE ALARM SYSTEM AND INTERCOM SYSTEM SHALL REMAIN OPERATIONAL WHEN THE CAMPUS IS OCCUPIED UNTIL THE NEW SYSTEMS ARE OPERATIONAL. THIS MAY REQUIRE OPERATING TWO SYSTEMS SIMULTANEOUSLY (TEMPORARILY) OR A FIRE WATCH, OR BOTH, AT THE CONTRACTOR'S DISCRETION THE LOCATIONS OF THE MAIN FIRE ALARM PANEL AND TERMINAL CABINETS MAY BE ADJUSTED TO ALLOW FOR THE REQUIRED PHASED IMPLEMENTATION.
 - SEE SPECIFICATIONS FOR MORE REQUIREMENTS.

REVISIONS	DATE

Key Largo School
Fire Alarm and Intercom
Replacement

Monroe County School District
241 Trumbo Road , Key West, Florida 33040

MONROE COUNTY SCHOOL DISTRICT
241 TRUMBO ROAD, KEY WEST, FLORIDA 33040
BUILDING BRIDGES
TO SUCCESS

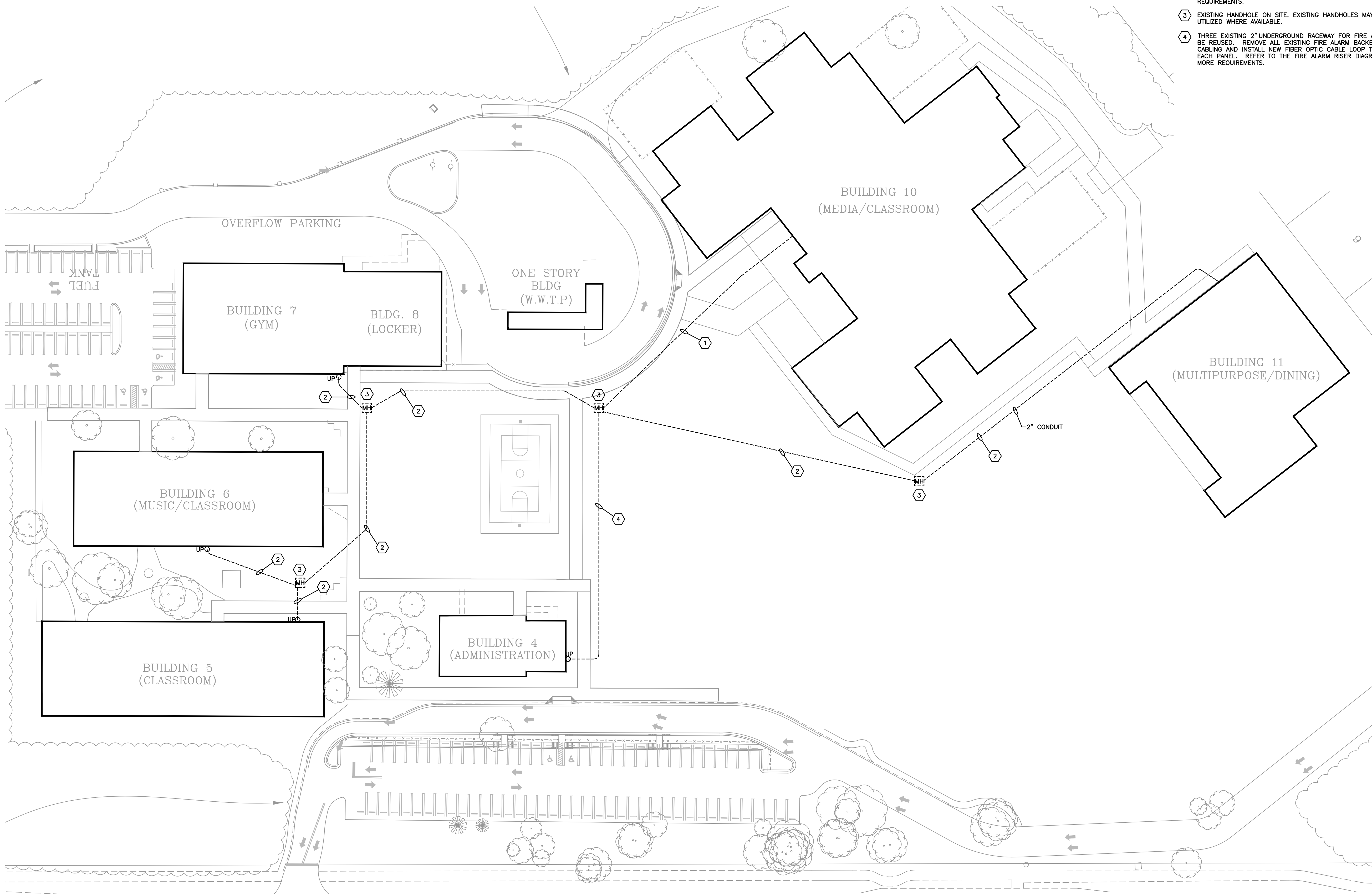
ELECTRICAL LEGEND AND GENERAL NOTES

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DATE	02.14.2022
SCALE	AS NOTED
JOB NO.	21013
DRAWING NO.	E0.00.1

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FIRE ALARMAND INTERCOM SYSTEMS SITE PLAN

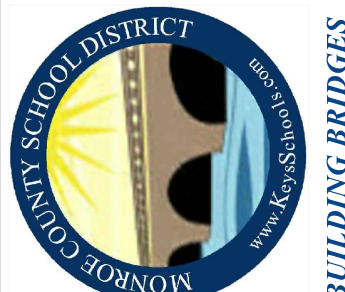
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DRAWING NOTES

- 1 TWO EXISTING 2" UNDERGROUND RACEWAY FOR FIRE ALARM SHALL BE REUSED. REMOVE ALL EXISTING FIRE ALARM BACKBONE CABLEING AND INSTALL NEW FIBER OPTIC CABLE LOOP TO AND FROM EACH PANEL. REFER TO THE FIRE ALARM RISER DIAGRAM FOR MORE REQUIREMENTS.
- 2 EXISTING 2" UNDERGROUND RACEWAY FOR FIRE ALARM SHALL BE REUSED. REMOVE ALL EXISTING FIRE ALARM BACKBONE CABLEING AND INSTALL NEW FIBER OPTIC CABLE LOOP TO AND FROM EACH PANEL. REFER TO THE FIRE ALARM RISER DIAGRAM FOR MORE REQUIREMENTS.
- 3 EXISTING HANDHOLE ON SITE. EXISTING HANDHOLES MAY BE UTILIZED WHERE AVAILABLE.
- 4 THREE EXISTING 2" UNDERGROUND RACEWAY FOR FIRE ALARM SHALL BE REUSED. REMOVE ALL EXISTING FIRE ALARM BACKBONE CABLEING AND INSTALL NEW FIBER OPTIC CABLE LOOP TO AND FROM EACH PANEL. REFER TO THE FIRE ALARM RISER DIAGRAM FOR MORE REQUIREMENTS.

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**Key Largo School
Fire Alarm and Intercom
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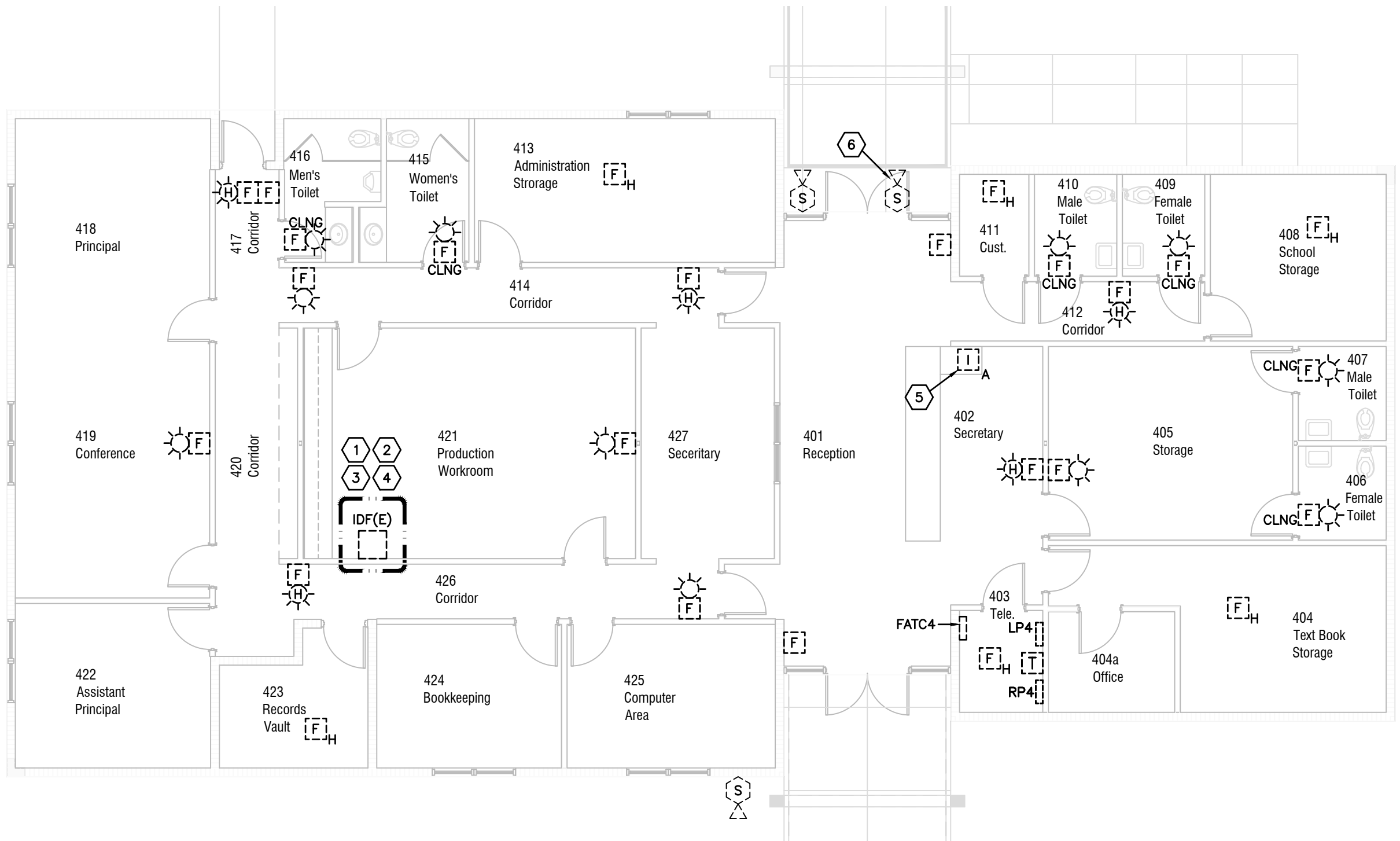
FIRE ALARM AND INTERCOM SYSTEMS SITE PLAN

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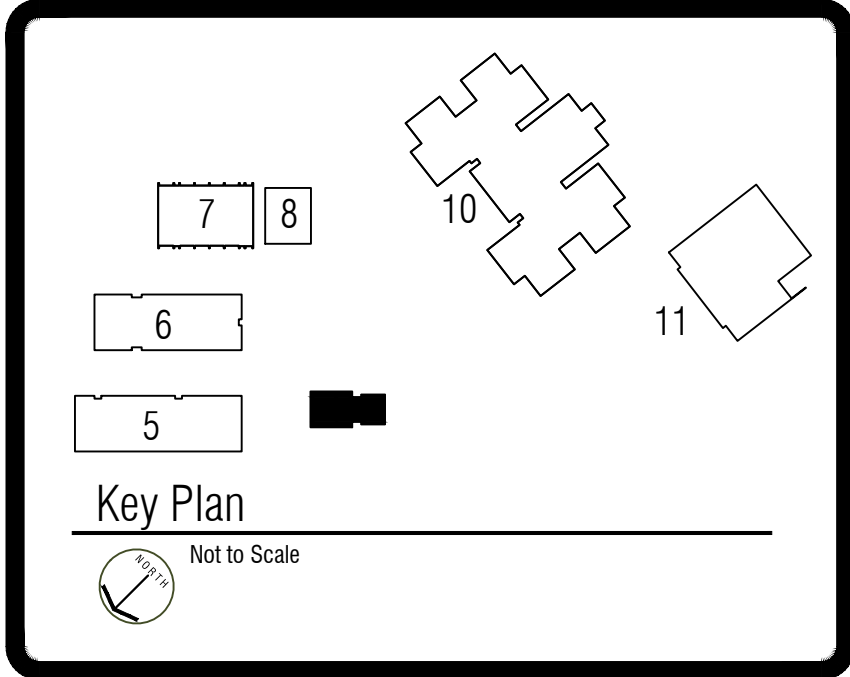
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DRAWING NO. E0.00.2

ROBERT C. ANSTON, P.E. 40858
TO THE BEST OF MY KNOWLEDGE, THESE
DRAWINGS AND THE PROJECT MANUAL ARE
COMPLETE AND COMPLY WITH THE 2020 FLORIDA
BUILDING CODE

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FIRE ALARM AND INTERCOM
DEMOLITION PLAN – BUILDING 4
SCALE: 1/8"=1'-0"



DEMOLITION GENERAL NOTES

1. ALL EXISTING FIRE ALARM DEVICES, EQUIPMENT, AND WIRING SHALL BE COMPLETELY REMOVED.
2. EXISTING FIRE ALARM RACEWAY AND BOXES MAY BE REUSED WHERE POSSIBLE. PROVIDE NEW RACEWAY AND BOXES WHERE REQUIRED FOR NEW DEVICES AND WIRING.
3. REMOVE ALL UNUSED RACEWAYS AND BOXES AS MUCH AS POSSIBLE. CONCEALED RACEWAYS IN WALLS OR UNDERGROUND MAY BE ABANDONED IN PLACE. ALL WIRING SHALL BE REMOVED.
4. CUT, CAP AND PATCH OVER CONCEALED CONDUITS AT POINT OF EMERGENCE.
5. EXISTING FIRE ALARM TERMINAL CABINETS MAY BE REUSED IF THEY ARE OF SUFFICIENT SIZE AND ARE IN GOOD CONDITION, BUT PROVIDE NEW AS REQUIRED FOR THE NEW WIRING. REMOVE ANY TERMINAL CABINETS THAT ARE NOT REUSED.
6. ALL OTHER EQUIPMENT AND DEVICES SHALL BE EXISTING TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. THIS INCLUDES ALL CEILING MOUNTED DEVICES SUCH AS SPEAKERS, PROJECTORS, WIRELESS ACCESS POINTS, ETC..
7. WHERE DEVICES ARE REMOVED, CONTRACTOR SHALL ALSO REMOVE OUTLET BOX, CONDUCTORS, CONDUIT AND MOUNTING HARDWARE. EXCEPTION TO THIS REQUIREMENT MAY BE WHERE CONTRACTOR PROPOSES TO RE-USE CONDUIT CONCEALED OR OUTLET BOX RECESSED IN EXISTING WALL OR FLOOR SLAB FOR NEW WORK IF APPROVED IN ADVANCE BY THE ENGINEER.
8. WHERE CEILING MOUNTED DEVICES ARE REMOVED PROVIDE A NEW CEILING TILE.
9. WHERE WALL MOUNTED DEVICES ARE REMOVED AND NOT REPLACED IN THE SAME LOCATION PROVIDE A STAINLESS STEEL COVER. PATCH AND REPAIR ANY VISIBLE OPENINGS IN WALL AROUND COVER AND PAINT COVER TO MATCH SURROUNDING AREAS.
10. EXISTING STROBE HORN WIRING MAY BE REUSED FOR NEW STROBES (STROBE ONLY). ANY REUSED WIRING SHALL BE TESTED AND FREE OF GROUND FAULTS OR SHORT CIRCUITS.
11. EXISTING INITIATION DEVICE LOOP WIRING MAY BE REUSED FOR NEW INITIATION DEVICES ONLY IF COMPATIBLE WITH NEW FIRE ALARM SYSTEM AND APPROVED FOR USE BY THE NEW SYSTEM MANUFACTURER. ANY REUSED WIRING SHALL BE TESTED AND FREE OF GROUND FAULTS OR SHORT CIRCUITS.
12. REMOVE ALL EXISTING INTERCOM WIRING THAT IS NOT BEING REUSED, INCLUDING ALL UNDERGROUND INTERCOM WIRING.
13. REMOVE ALL EXISTING INTERCOM RAULAND BORG TELECENTER EQUIPMENT LOCATED IN RACKS, CABINETS, ETC., INCLUDING CONTROLLERS, GATEWAYS, AMPLIFIERS, PRE-AMPS, ETC.
14. REMOVE ALL EXISTING CALL-IN SWITCHES IN EVERY ROOM THAT HAS AN EXISTING CALL-IN SWITCH. PREPARE THE CALL SWITCH WIRING FO REUSE.
15. REMOVE ALL EXISTING EXTERIOR INTERCOM PAGING SPEAKERS AND PREPARE THE EXISTING WIRING FOR REUSE.
16. REMOVE ALL EXISTING CLOCKS AND ASSOCIATED WIRING.
17. REMOVE ALL EXISTING MASTER CLOCK SYSTEM EQUIPMENT FROM RACKS AND CABINETS.

DEMOLITION DRAWING NOTES

- 1 REMOVE EXISTING INTERCOM TERMINAL BLOCKS FROM BACK OF IDF CABINET.
- 2 EXISTING RAULAND TELECENTER GATEWAY TO BE REMOVED.
- 3 REMOVE ANY AND ALL EXISTING INTERCOM CABLING TO AND FROM INTERCOM TERMINAL BLOCKS AND RACK MOUNTED RAULAND TELECENTER EQUIPMENT.
- 4 REFER TO INTERCOM DEMOLITION RISER DIAGRAM FOR ADDITIONAL SCOPE.
- 5 REMOVE EXISTING INTERCOM ADMINISTRATIVE PHONE HANDSET.
- 6 EXTERIOR EXTERIOR SPEAKER MOUNTED UP HIGH ABOVE CANOPY SHALL BE REMOVED AND NOT REPLACED.

ROBERT C. ANSTON, P.E. 40858
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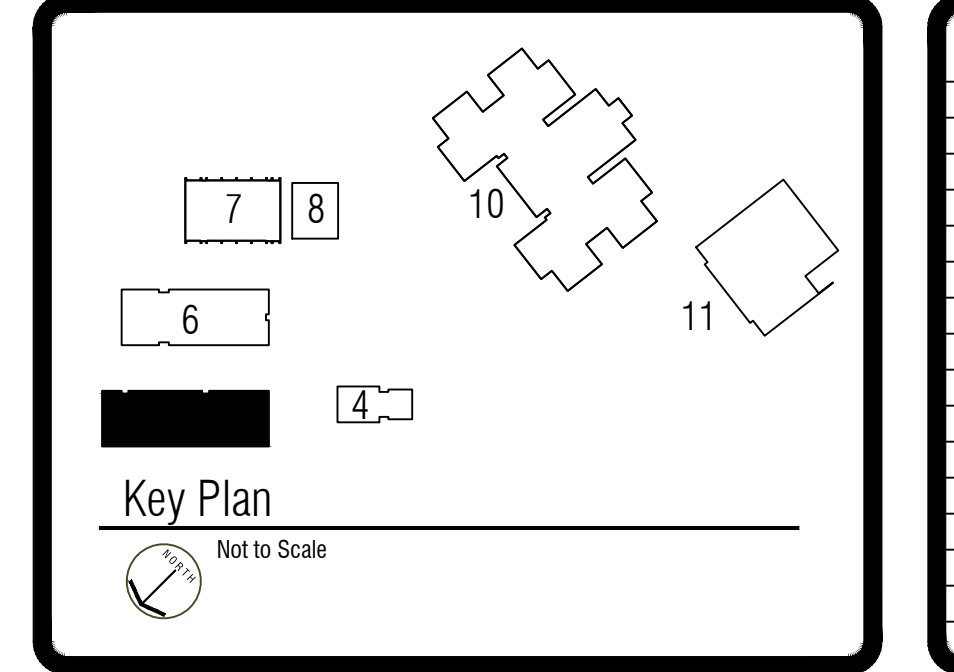
FIRE ALARM DEMOLITION PLAN –
BUILDING 4

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Florida Engineering License Number 4002

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DRAWING NO. E1.04.1

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6. ALL OTHER EQUIPMENT AND DEVICES SHALL BE EXISTING TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. THIS INCLUDES ALL CEILING MOUNTED DEVICES SUCH AS SPEAKERS, PROJECTORS, WIRELESS ACCESS POINTS, ETC..
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8. WHERE CEILING MOUNTED DEVICES ARE REMOVED PROVIDE A NEW CEILING TILE.
9. WHERE WALL MOUNTED DEVICES ARE REMOVED AND NOT REPLACED IN THE SAME LOCATION PROVIDE A STAINLESS STEEL COVER. PATCH AND REPAIR ANY VISIBLE OPENINGS IN WALL AROUND COVER AND PAINT COVER TO MATCH SURROUNDING AREAS.
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11. EXISTING INITIATION DEVICE LOOP WIRING MAY BE REUSED FOR NEW INITIATION DEVICES ONLY IF COMPATIBLE WITH NEW FIRE ALARM SYSTEM AND APPROVED FOR USE BY THE NEW SYSTEM MANUFACTURER. ANY REUSED WIRING SHALL BE TESTED AND FREE OF GROUND FAULTS OR SHORT CIRCUITS.
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13. REMOVE ALL EXISTING INTERCOM RAILROAD BORG TELECENTER EQUIPMENT LOCATED IN RACKS, CABINETS, ETC., INCLUDING CONTROLLERS, GATEWAYS, AMPLIFIERS, PRE-AMPS, ETC.
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15. REMOVE ALL EXISTING EXTERIOR INTERCOM PAGING SPEAKERS AND PREPARE THE EXISTING WIRING FOR REUSE.
16. REMOVE ALL EXISTING CLOCKS AND ASSOCIATED WIRING.
17. REMOVE ALL EXISTING MASTER CLOCK SYSTEM EQUIPMENT FROM RACKS AND CABINETS.

- ① REMOVE EXISTING INTERCOM TERMINAL BLOCKS.
- ② EXISTING RAULAND TELECENTER GATEWAY TO BE REMOVED.
- ③ REMOVE ANY AND ALL EXISTING INTERCOM CABLEING TO AND FROM INTERCOM TERMINAL BLOCKS AND RACK MOUNTED RAULAND TELECENTER EQUIPMENT.
- ④ REFER TO INTERCOM DEMOLITION RISER DIAGRAM FOR ADDITIONAL SCOPE.

[illegible]

**BUILDING BRIDGES
TO SUCCESS**

AGL
Mechanical & Electrical Consulting Engineers
1315 West Fletcher Avenue, Tampa, FL 33612 Tel(813)663-1919
Email: AGL@agl-engineers.com [HTTP://www.agl-engineers.com](http://www.agl-engineers.com)
Florida Engineering Business Number 6093

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JOB NO.
21013
DRAWING NO.

ROBERT C. ANSTON, P.E. 40858
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BUILDING CODE

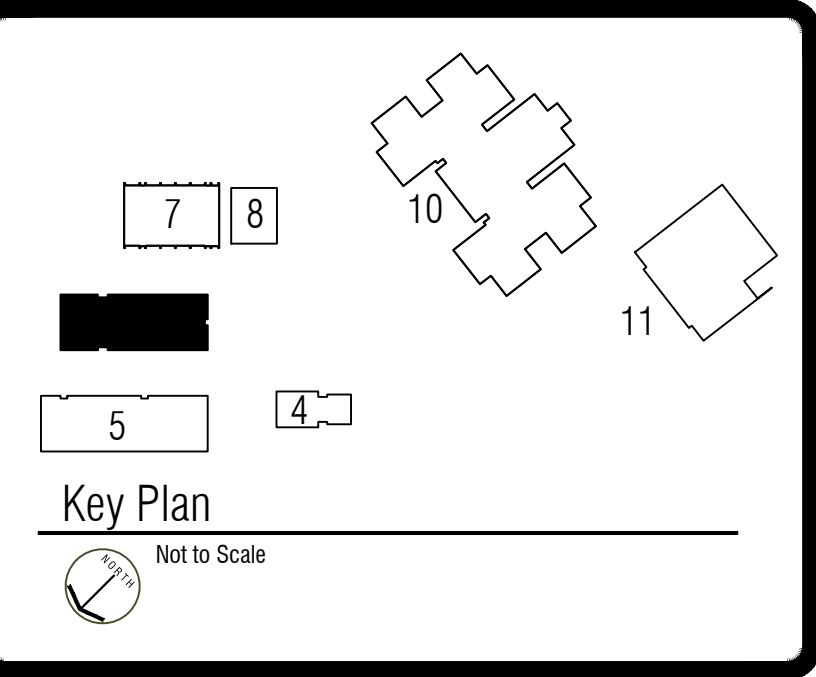


**FIRE ALARM AND INTERCOM
DEMOLITION PLAN – BUILDING 5**
SCALE: 1/8"=1'-0"

Drawing File: I:\21xxx\21013\001\21013a\061.dwg E1061
Plotted by: tm Feb 14, 2022 - 4:31pm

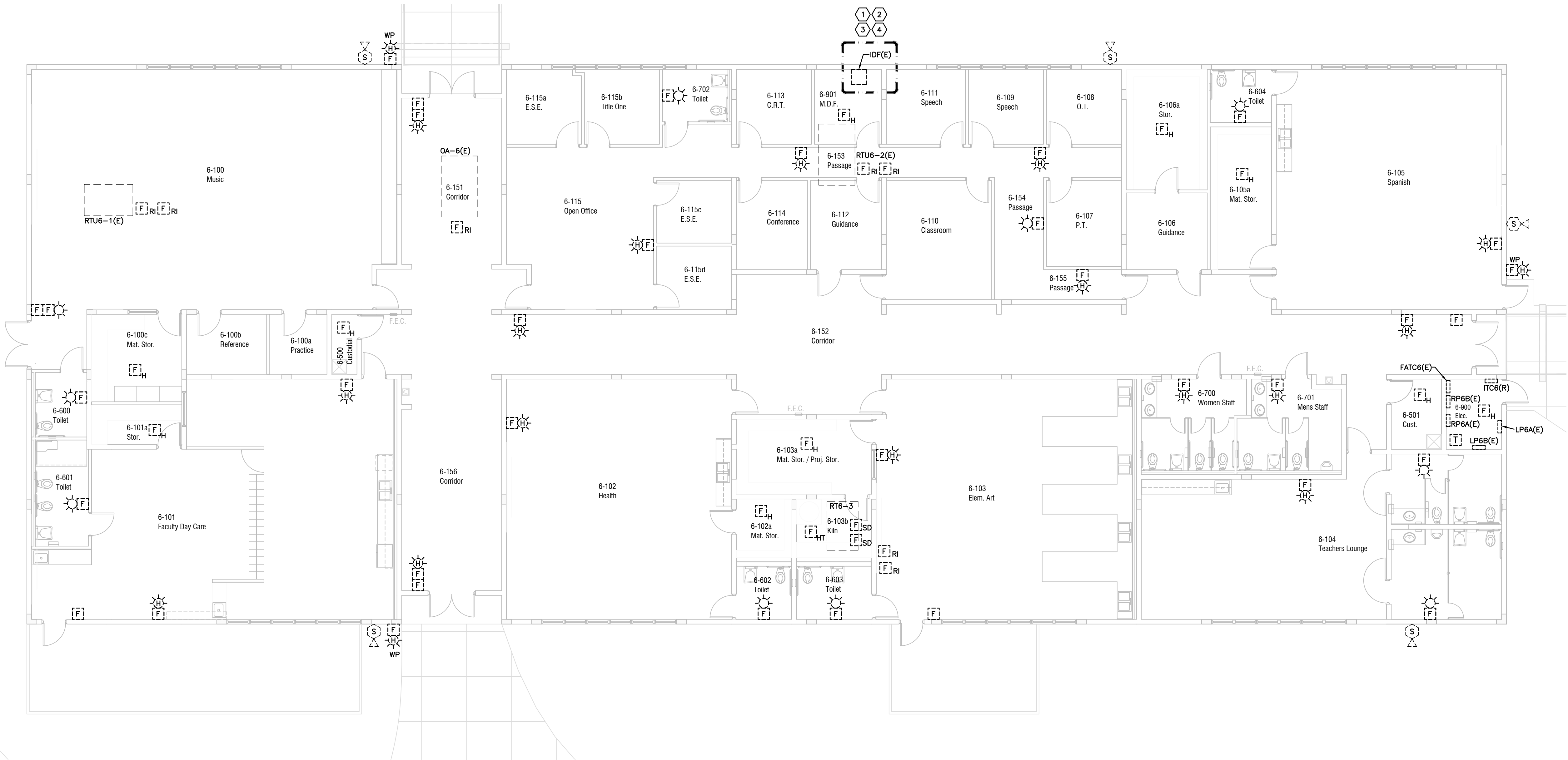
DEMOLITION GENERAL NOTES

1. ALL EXISTING FIRE ALARM DEVICES, EQUIPMENT, AND WIRING SHALL BE COMPLETELY REMOVED.
2. EXISTING FIRE ALARM RACEWAY AND BOXES MAY BE REUSED WHERE POSSIBLE. PROVIDE NEW RACEWAY AND BOXES WHERE REQUIRED FOR NEW DEVICES AND WIRING.
3. REMOVE ALL UNUSED RACEWAYS AND BOXES AS MUCH AS POSSIBLE. CONCEALED RACEWAYS IN WALLS OR UNDERGROUND MAY BE ABANDONED IN PLACE. ALL WIRING SHALL BE REMOVED.
4. CUT, CAP AND PATCH OVER CONCEALED CONDUITS AT POINT OF EMERGENCE.
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6. ALL OTHER EQUIPMENT AND DEVICES SHALL BE EXISTING TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. THIS INCLUDES ALL CEILING MOUNTED DEVICES SUCH AS SPEAKERS, PROJECTORS, WIRELESS ACCESS POINTS, ETC..
7. WHERE DEVICES ARE REMOVED, CONTRACTOR SHALL ALSO REMOVE OUTLET BOX, CONDUCTORS, CONDUIT AND MOUNTING HARDWARE. EXCEPTION TO THIS REQUIREMENT MAY BE WHERE CONTRACTOR PROPOSES TO RE-USE CONDUIT CONCEALED OR OUTLET BOX RECESSED IN EXISTING WALL OR FLOOR SLAB FOR NEW WORK IF APPROVED IN ADVANCE BY THE ENGINEER.
8. WHERE CEILING MOUNTED DEVICES ARE REMOVED PROVIDE A NEW CEILING TILE.
9. WHERE WALL MOUNTED DEVICES ARE REMOVED AND NOT REPLACED IN THE SAME LOCATION PROVIDE A STAINLESS STEEL COVER. PATCH AND REPAIR ANY VISIBLE OPENINGS IN WALL AROUND COVER AND PAINT COVER TO MATCH SURROUNDING AREAS.
10. EXISTING STROBE HORN WIRING MAY BE REUSED FOR NEW STROBES (STROBE ONLY). ANY REUSED WIRING SHALL BE TESTED AND FREE OF GROUND FAULTS OR SHORT CIRCUITS.
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DEMOLITION DRAWING NOTES

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- 4 REFER TO INTERCOM DEMOLITION RISER DIAGRAM FOR ADDITIONAL SCOPE.



FIRE ALARM AND INTERCOM
DEMOLITION PLAN – BUILDING 6
SCALE: 1/8"=1'-0"

REVISIONS	DATE

Key Largo School
Fire Alarm and Intercom
Replacement

Monroe County School District
241 Trumbo Road , Key West, Florida 33040

BUILDING BRIDGES
TO SUCCESS

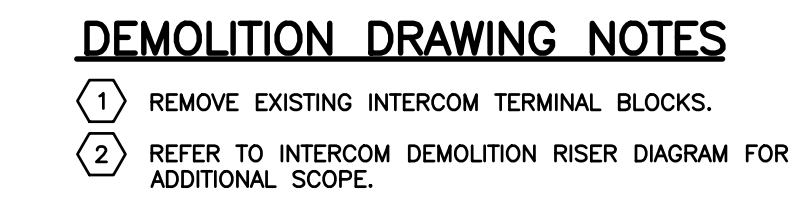
FIRE ALARM AND INTERCOM
DEMOLITION PLAN – BUILDING 6

Anston-Greenlees, Inc.
Mechanical & Electrical Consulting Engineers
1115 West Harbor Avenue, Tampa, FL 33612, (813) 966-5199
Fax: (813) 966-5198
Florida Engineering License Number 4002

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ROBERT C. ANSTON, P.E. 40858
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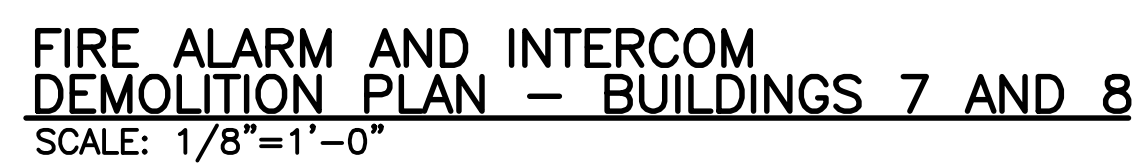
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Florida Engineering Business Number 001

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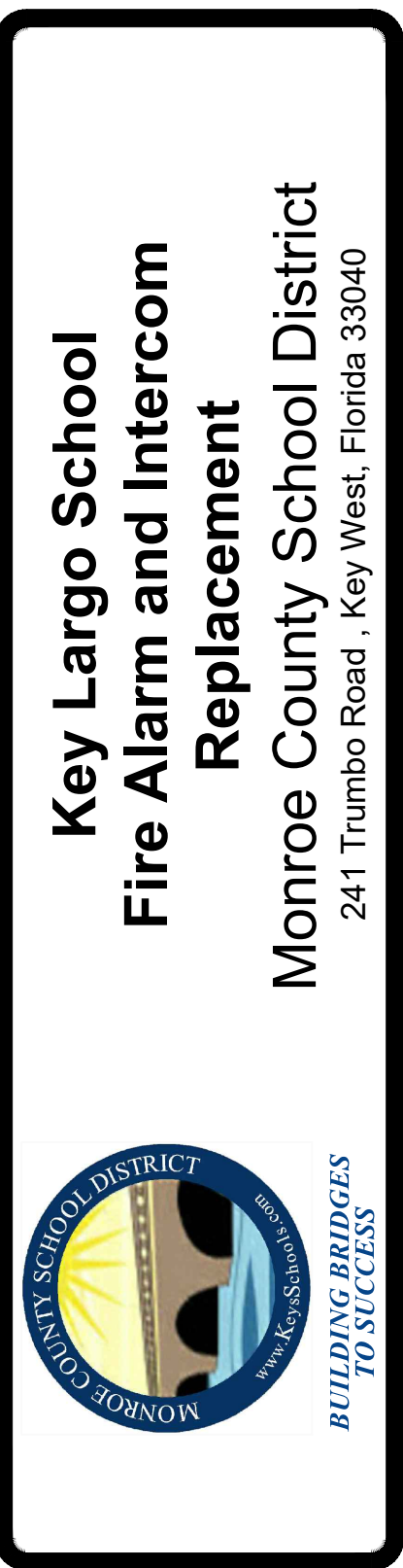
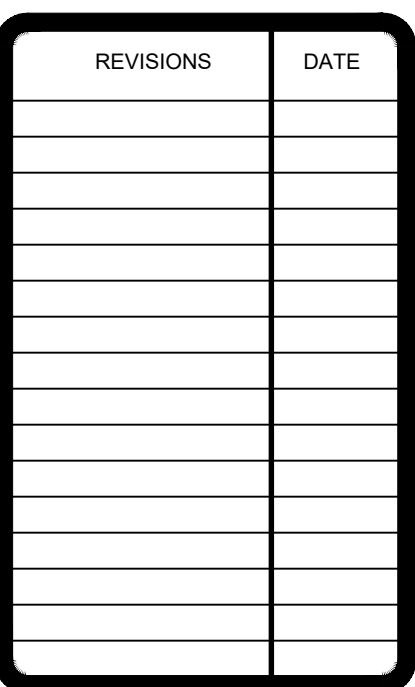
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ROBERT C. ANSTON, P.E. 40858
TO THE BEST OF MY KNOWLEDGE, THESE
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Plotted by: tim Feb 14, 2022 - 4:31pm

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**FIRE ALARM AND INTERCOM DEMOLITION PLAN
BUILDING 10 FIRST FLOOR AREA A**

AGI
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Email: AGI@agi-engineers.com HTTP: www.agi-engineers.com
Florida Engineering Business Number 6093

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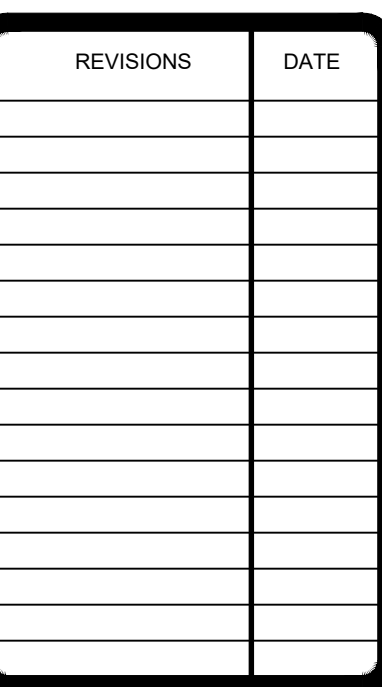
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ROBERT C. ANSTON, P.E. 40858
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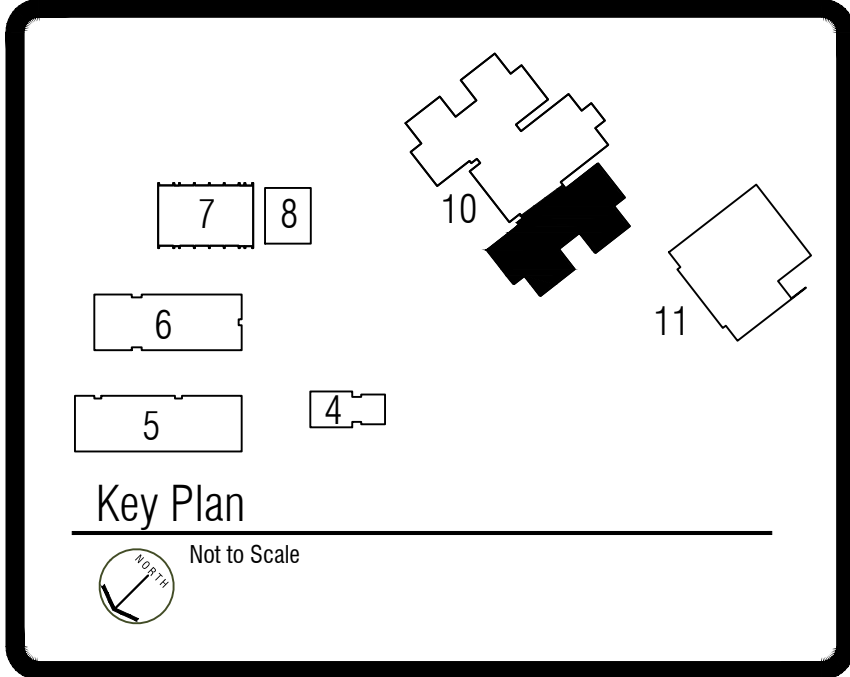
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Matchline C-C



FIRE ALARM AND INTERCOM DEMOLITION PLAN –
BUILDING 10 FIRST FLOOR AREA C
SCALE: 1/8"=1'-0"

DEMOLITION GENERAL NOTES

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REVISIONS	DATE

**Key Largo School
Fire Alarm and Intercom
Replacement**

Monroe County School District
241 Trumbo Road, Key West, Florida 33040



**BUILDING BRIDGES
TO SUCCESS**

**FIRE ALARM AND INTERCOM DEMOLITION PLAN
BUILDING 10 FIRST FLOOR AREA C**

AGI Anston-Greenlees, Inc.
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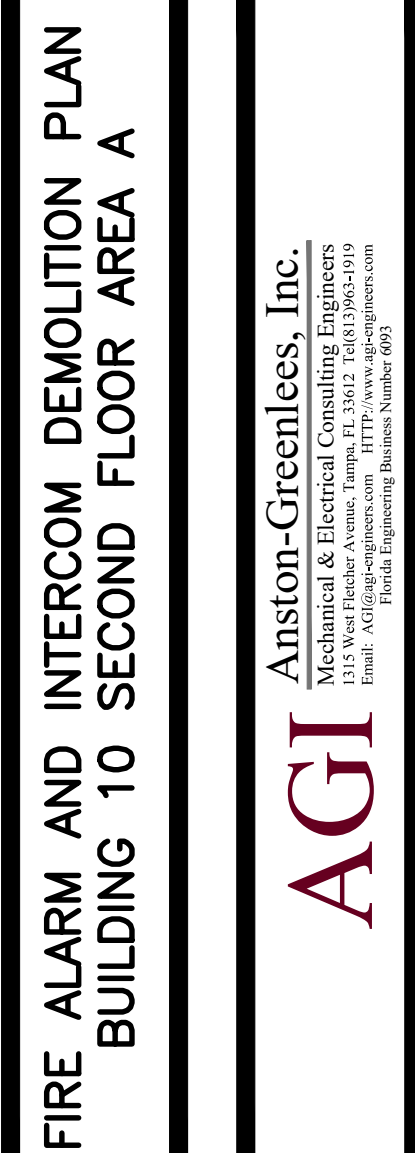
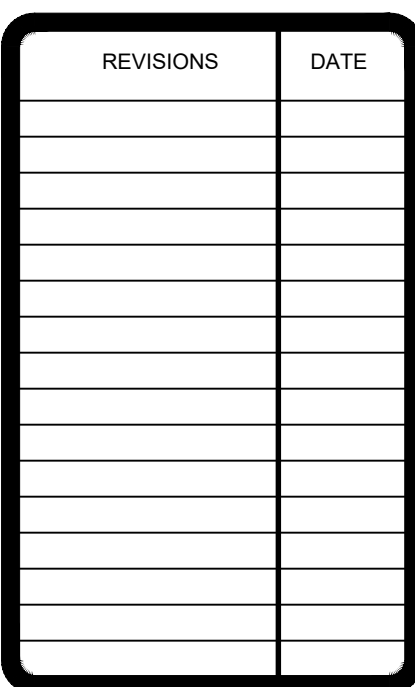
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10. EXISTING STROBE HORN WIRING MAY BE REUSED FOR NEW STROBES (STROBE ONLY), ANY REUSED WIRING SHALL BE TESTED AND FREE OF GROUND FAULTS OR SHORT CIRCUITS.
11. EXISTING INITIATION DEVICE LOOP WIRING MAY BE REUSED FOR NEW INITIATION DEVICES ONLY IF COMPATIBLE WITH NEW FIRE ALARM SYSTEM AND APPROVED FOR USE BY THE NEW SYSTEM MANUFACTURER. ANY REUSED WIRING SHALL BE TESTED AND FREE OF GROUND FAULTS OR SHORT CIRCUITS.
12. REMOVE ALL EXISTING INTERCOM WIRING THAT IS NOT BEING REUSED, INCLUDING ALL UNDERGROUND INTERCOM WIRING.
13. REMOVE ALL EXISTING INTERCOM RAILROAD BORG TELECENTER EQUIPMENT LOCATED IN RACKS, CABINETS, ETC., INCLUDING CONTROLLERS, GATEWAYS, AMPLIFIERS, PRE-AMPS, ETC.
14. REMOVE ALL EXISTING CALL-IN SWITCHES IN EVERY ROOM THAT HAS AN EXISTING CALL-IN SWITCH. PREPARE THE CALL SWITCH WIRING FOR REUSE.
15. REMOVE ALL EXISTING EXTERIOR INTERCOM PAGING SPEAKERS AND PREPARE THE EXISTING WIRING FOR REUSE.
16. REMOVE ALL EXISTING CLOCKS AND ASSOCIATED WIRING.
17. REMOVE ALL EXISTING MASTER CLOCK SYSTEM EQUIPMENT FROM RACKS AND CABINETS.



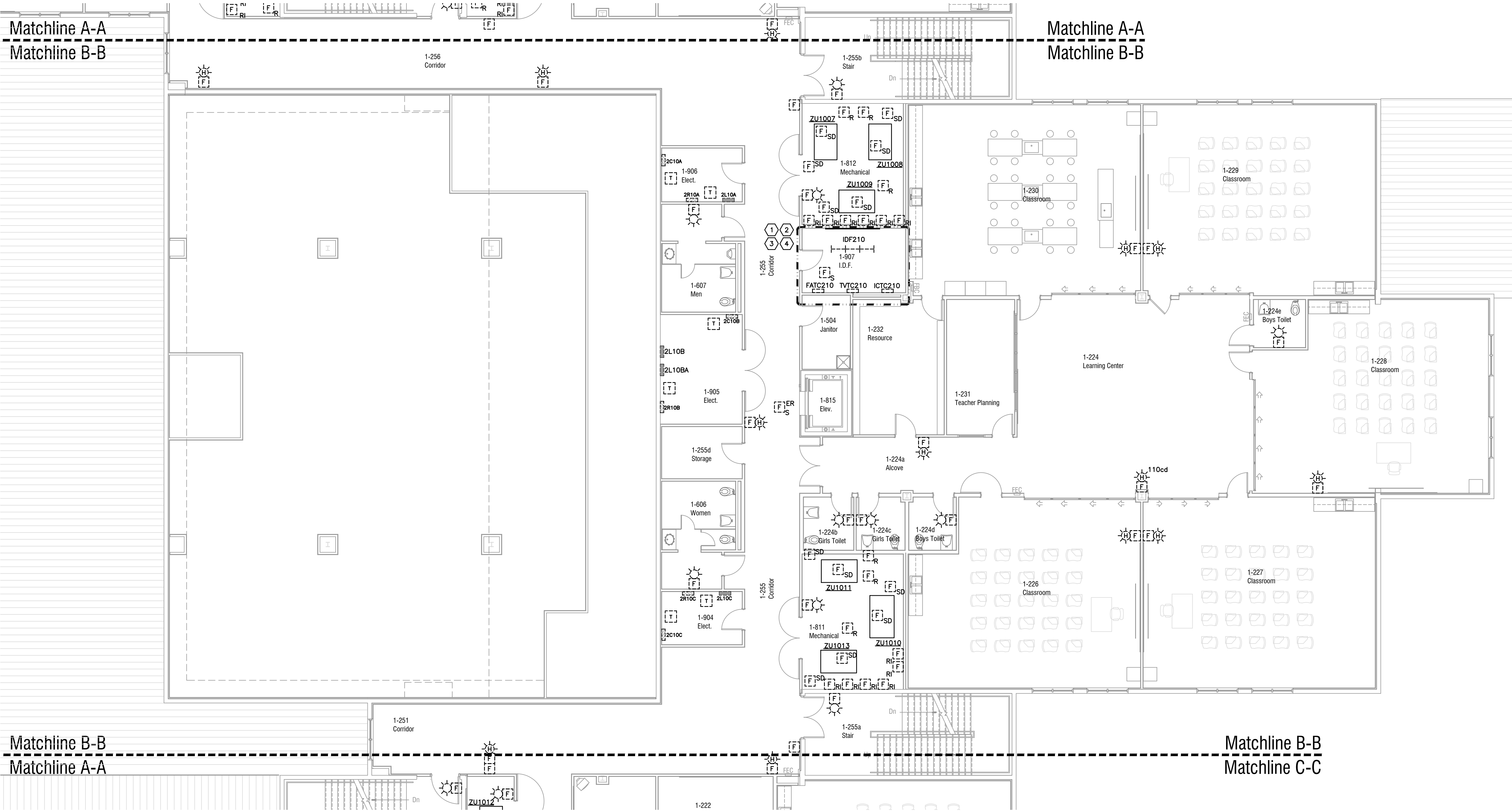
**FIRE ALARM AND INTERCOM DEMOLITION PLAN
BUILDING 10 SECOND FLOOR AREA A**

AGI
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1315 West Fletcher Avenue, Tampa, FL 33612 Tel: 813.966.5199
Email: AGI@agi-engineers.com HTTP://www.agi-engineers.com
Florida Engineering Business Number 6993

E1.10.2A

ROBERT C. ANSTON, P.E. 40858
TO THE BEST OF MY KNOWLEDGE, THESE
DRAWINGS AND THE PROJECT MANUAL ARE
COMPLETE AND COMPLY WITH THE 2020 FLORIDA
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Drawing File: I:\21xxx\21013\001\21013a1102.dwg E1102B
Plotted by: tm Feb 14, 2022 - 4:31pm

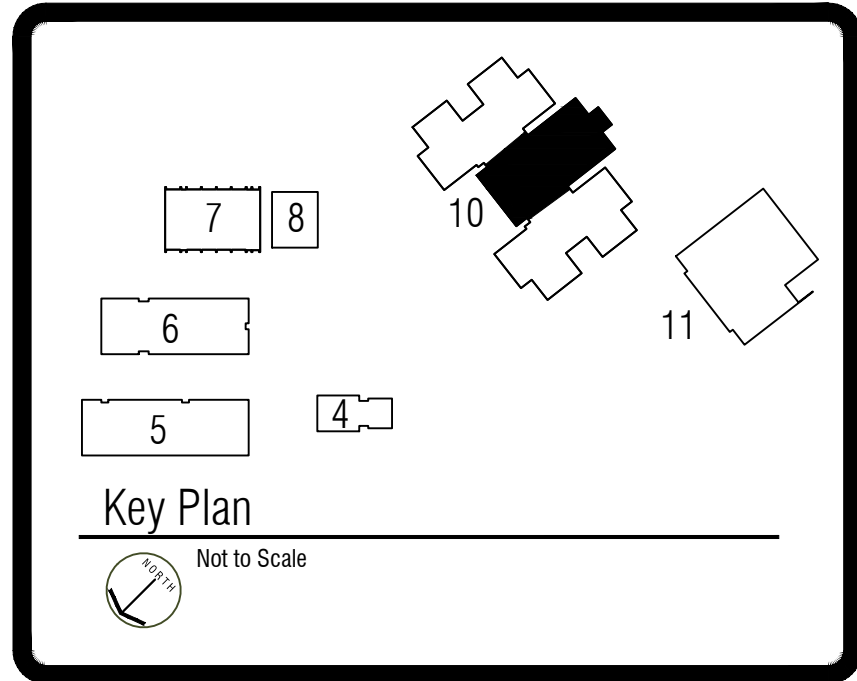


DEMOLITION DRAWING NOTES

1. REMOVE EXISTING INTERCOM TERMINAL BLOCKS.
2. REMOVE ANY AND ALL EXISTING INTERCOM CABLING TO AND FROM INTERCOM TERMINAL BLOCKS AND FIRST FLOOR RACK MOUNTED RAULAND TELECENTER EQUIPMENT.
3. REFER TO INTERCOM DEMOLITION RISER DIAGRAM FOR ADDITIONAL SCOPE.

DEMOLITION GENERAL NOTES

1. ALL EXISTING FIRE ALARM DEVICES, EQUIPMENT, AND WIRING SHALL BE COMPLETELY REMOVED.
2. EXISTING FIRE ALARM RACEWAY AND BOXES MAY BE REUSED WHERE POSSIBLE. PROVIDE NEW RACEWAY AND BOXES WHERE REQUIRED FOR NEW DEVICES AND WIRING.
3. REMOVE ALL UNUSED RACEWAYS AND BOXES AS MUCH AS POSSIBLE. CONCEALED RACEWAYS IN WALLS OR UNDERGROUND MAY BE ABANDONED IN PLACE. ALL WIRING SHALL BE REMOVED.
4. CUT, CAP AND PATCH OVER CONCEALED CONDUITS AT POINT OF EMERGENCE.
5. EXISTING FIRE ALARM TERMINAL CABINETS MAY BE REUSED IF THEY ARE OF SUFFICIENT SIZE AND ARE IN GOOD CONDITION, BUT PROVIDE NEW AS REQUIRED FOR THE NEW WIRING. REMOVE ANY TERMINAL CABINETS THAT ARE NOT REUSED.
6. ALL OTHER EQUIPMENT AND DEVICES SHALL BE EXISTING TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. THIS INCLUDES ALL CEILING MOUNTED DEVICES SUCH AS SPEAKERS, PROJECTORS, WIRELESS ACCESS POINTS, ETC..
7. WHERE DEVICES ARE REMOVED, CONTRACTOR SHALL ALSO REMOVE OUTLET BOX, CONDUITORS, CONDUIT AND MOUNTING HARDWARE. EXCEPTION TO THIS REQUIREMENT MAY BE WHERE CONTRACTOR PROPOSES TO RE-USE CONDUIT CONCEALED OR OUTLET BOX RECESSED IN EXISTING WALL OR FLOOR SLAB FOR NEW WORK IF APPROVED IN ADVANCE BY THE ENGINEER.
8. WHERE CEILING MOUNTED DEVICES ARE REMOVED PROVIDE A NEW CEILING TILE.
9. WHERE WALL MOUNTED DEVICES ARE REMOVED AND NOT REPLACED IN THE SAME LOCATION PROVIDE A STAINLESS STEEL COVER. PATCH AND REPAIR ANY VISIBLE OPENINGS IN WALL AROUND COVER AND PAINT COVER TO MATCH SURROUNDING AREAS.
10. EXISTING STROBE HORN WIRING MAY BE REUSED FOR NEW STROBES (STROBE ONLY). ANY REUSED WIRING SHALL BE TESTED AND FREE OF GROUND FAULTS OR SHORT CIRCUITS.
11. EXISTING INITIATION DEVICE LOOP WIRING MAY BE REUSED FOR NEW INITIATION DEVICES ONLY IF COMPATIBLE WITH NEW FIRE ALARM SYSTEM AND APPROVED FOR USE BY THE NEW SYSTEM MANUFACTURER. ANY REUSED WIRING SHALL BE TESTED AND FREE OF GROUND FAULTS OR SHORT CIRCUITS.
12. REMOVE ALL EXISTING INTERCOM WIRING THAT IS NOT BEING REUSED, INCLUDING ALL UNDERGROUND INTERCOM WIRING.
13. REMOVE ALL EXISTING INTERCOM RAULAND BORG TELECENTER EQUIPMENT LOCATED IN RACKS, CABINETS, ETC., INCLUDING CONTROLLERS, GATEWAYS, AMPLIFIERS, PRE-AMPS, ETC.
14. REMOVE ALL EXISTING CALL-IN SWITCHES IN EVERY ROOM THAT HAS AN EXISTING CALL-IN SWITCH. PREPARE THE CALL SWITCH WIRING TO REUSE.
15. REMOVE ALL EXISTING EXTERIOR INTERCOM PAGING SPEAKERS AND PREPARE THE EXISTING WIRING FOR REUSE.
16. REMOVE ALL EXISTING CLOCKS AND ASSOCIATED WIRING.
17. REMOVE ALL EXISTING MASTER CLOCK SYSTEM EQUIPMENT FROM RACKS AND CABINETS.



REVISIONS	DATE

Key Largo School
Fire Alarm and Intercom
Replacement
Monroe County School District
241 Trumbo Road, Key West, Florida 33040



BUILDING BRIDGES TO SUCCESS

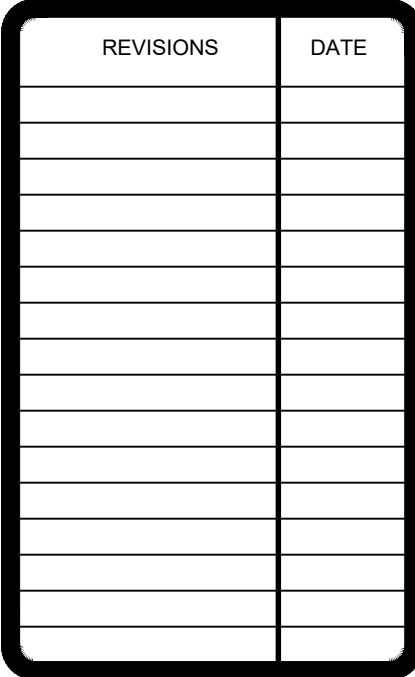
FIRE ALARM AND INTERCOM DEMOLITION PLAN
BUILDING 10 SECOND FLOOR AREA B

AGI Anston-Greenlee, Inc.
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Florida Engineering License Number 6007

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JOB NO.
21013
DRAWING NO.
E1.10.2B

ROBERT C. ANSTON, P.E. 40858
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12. REMOVE ALL EXISTING INTERCOM WIRING THAT IS NOT BEING REUSED. INCLUDE ALL PERSONAL INTERCOM WIRING.
13. REMOVE ALL EXISTING INTERCOM RAILROAD BELL TELECENTER EQUIPMENT LOCATED IN RACKS, CABINETS, INCLUDING CONTROLLERS, GATEWAYS, AMPLIFIERS, PRE-AMPS, ETC.
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**BUILDING BRIDGES
TO SUCCESS**

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Florida Engineering Business Number 603

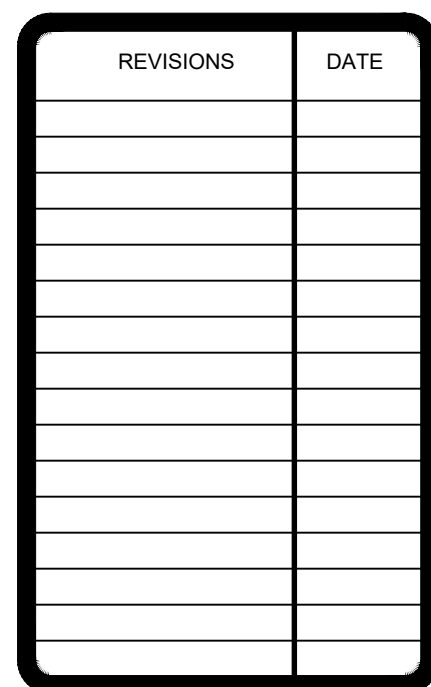
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11. EXISTING INITIATION DEVICE LOU WIRING MAY BE REUSED FOR NEW INITIATION DEVICES ONLY IF COMPATIBLE WITH NEW FIRE ALARM SYSTEM AND APPROVED BY THE NEW SYSTEM MANUFACTURER. ANY REUSED WIRING SHALL BE TESTED AND FREE OF GROUND FAULTS OR SHORT CIRCUITS.
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**BUILDING BRIDGES
TO SUCCESS**

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Florida Engineering Number: 6903

E1.10.3A

ROBERT C. ANSTON, P.E. 40858
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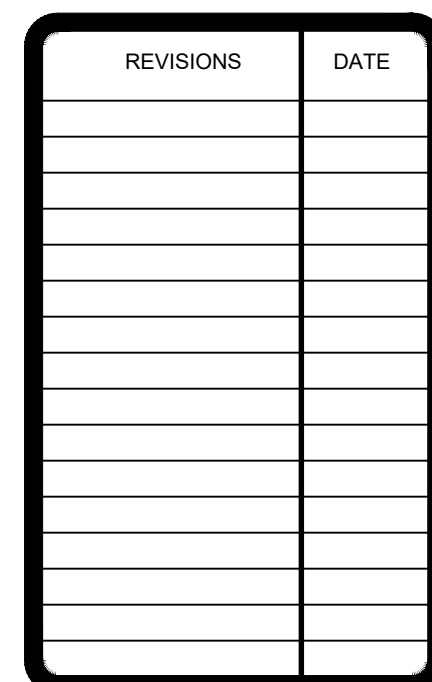
Matchline A-A

Matchline B-B

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Plotted by: tim Feb 14, 2022 - 4:32pm

- 1 REMOVE EXISTING INTERCOM TERMINAL BLOCKS.
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Matchline A-A

Matchline B-B

Matchline B-B

Matchline A-A

Matchline B-B

Matchline C-C

SCALE: 1/8"=1'-0"

ROBERT C. ANSTON, P.E. 40858
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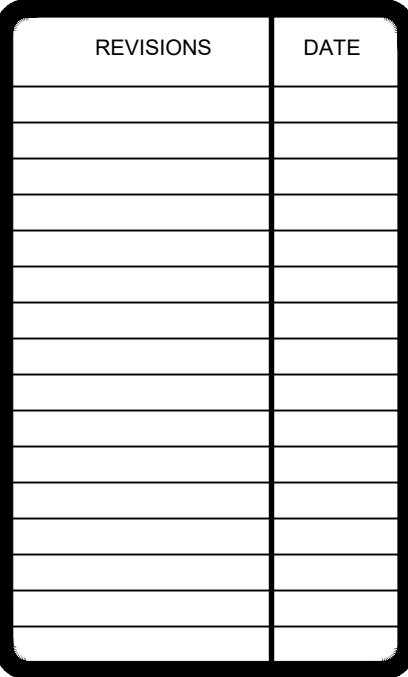
**Key Largo School
Fire Alarm and Intercom
Replacement**

Monroe County School District
241 Trumbo Road , Key West, Florida 33040


***BUILDING BRIDGES
TO SUCCESS***

DRAWN TRG
CHECKED RCA
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1. ALL EXISTING FIRE ALARM DEVICES, EQUIPMENT, AND WIRING SHALL BE COMPLETELY REMOVED.
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**BUILDING BRIDGES
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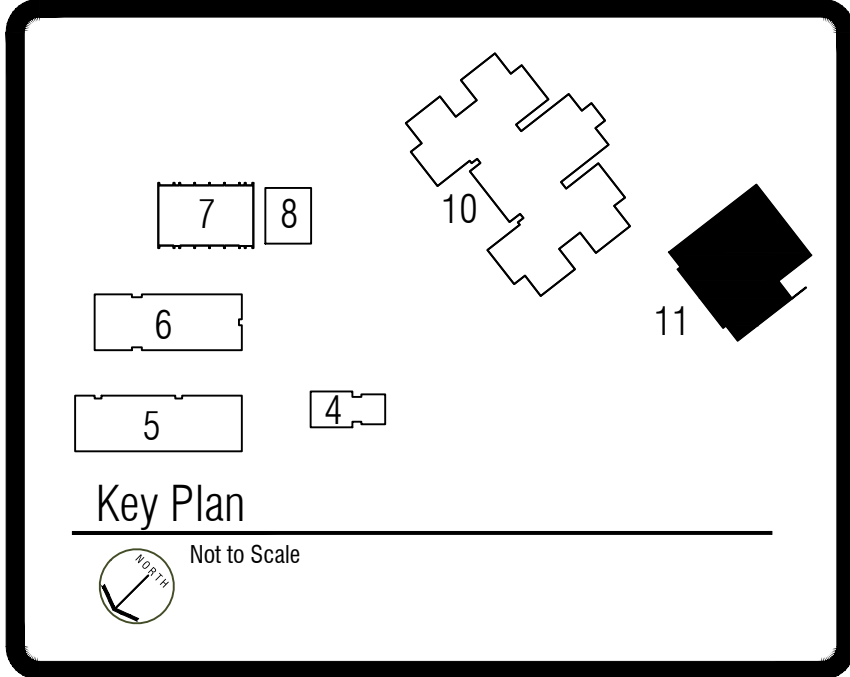
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Drawing File: I:\21xxx\21013.001\21013e1103.dwg E1103C
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ROBERT C. ANSTON, P.E. 40858
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[illegible]

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- 1) REMOVE EXISTING INTERCOM TERMINAL BLOCKS.
- 2) EXISTING RAULAND TELECENTER GATEWAY TO BE REMOVED.
- 3) REMOVE ANY AND ALL EXISTING INTERCOM CABLING TO AND FROM INTERCOM TERMINAL BLOCKS AND RACK MOUNTED RAULAND TELECENTER EQUIPMENT.
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**Key Largo School
Fire Alarm and Intercom
Replacement**

Monroe County School District
241 Trumbo Road, Key West, Florida 33040

***BUILDING BRIDGES
TO SUCCESS***

**FIRE ALARM AND INTERCOM
DEMOLITION PLAN – BUILDING 11**

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02.14.2022
SCALE
AS NOTED
JOB NO.
21013
DRAWING NO.
E1.11.1

Drawing File: I:\21xxx\21013.001\21013e1111.dwg E1111
Plotted by: tim Feb 14, 2022 - 4:32pm

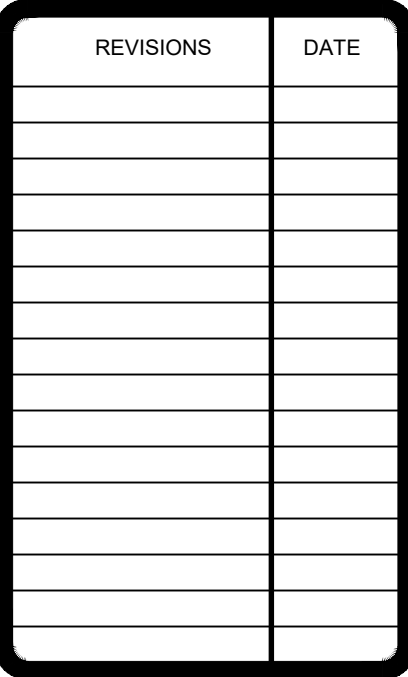
**FIRE ALARM AND INTERCOM
DEMOLITION PLAN – BUILDING 11**
SCALE: 1/8"=1'-0"

ROBERT C. ANSTON, P.E. 40858
TO THE BEST OF MY KNOWLEDGE, THESE
DRAWINGS AND THE PROJECT MANUAL ARE
COMPLETE AND COMPLY WITH THE 2020 FLORIDA
BUILDING CODE

1. PROVIDE (FURNISH AND INSTALL) ALL NEW INTERCOM CALL-IN SWITCHES. PROVIDE ONE FOR EACH EXISTING LOCATION, BUT NOT LESS THAN 90 NEW CALL IN SWITCHES. REUSE THE EXISTING CALL-IN SWITCH WIRING AND MAKE CONNECTIONS TO THE NEW SWITCH. ANY UNUSED SWITCHES SHALL BE TURNED OVER TO THE OWNER FOR SPARES. NEW SWITCHES SHALL BE BOGEN MODEL CA-15C.
2. PROVIDE ALL NEW EXTERIOR INTERCOM SPEAKERS. NEW SPEAKERS IN EXISTING LOCATIONS SHALL REUSE THE EXISTING WIRING AND MAKE CONNECTIONS TO THE NEW SPEAKER. NEW SPEAKERS IN NEW LOCATIONS SHALL BE PROVIDED WITH EXISTING WIRING TO THE NEW SWITCH. ALL NEW SPEAKERS SHALL BE WEATHERPROOF, WATERTIGHT, AND RATED FOR EXTERIOR USE. PROVIDE A NEW WEATHERPROOF SURFACE MOUNTED CAST ALUMINUM (FS TYPE) BOX IN ALL LOCATIONS AND MOUNT THE NEW SPEAKER ASSEMBLY SECURELY TO THE BOX.
3. PROVIDE ALL NEW BATTERY OPERATED, WIRELESS COMMUNICATION TIME CLOCKS IN ALL LOCATIONS THAT HAVE AN EXISTING CLOCK NOW. MOUNT THE CLOCK ADJACENT TO THE EXISTING SPEAKER WHERE THE SPEAKER (AND OLD CLOCK) ARE REMOVED. PROVIDE ALL NEW BATTERY OPERATED WIRELESS CLOCKS (NOT TEACHING WALL) WHERE THE SPEAKER IS CEILING MOUNTED. ALL MOUNTING LOCATIONS SHALL BE VERIFIED WITH THE OWNER PRIOR TO MOUNTING PROVIDE 160 NEW CLOCKS. ANY UNUSED CLOCKS SHALL BE TURNED OVER TO THE OWNER FOR SPARES. NEW CLOCKS SHALL BE BOGEN MODEL BCAL-48S-12R-0.

1. REFER TO THE DEMOLITION PLANS FOR EXISTING DEVICE LOCATIONS. NEW DEVICES THAT ARE SHOWN IN THE EXISTING DEVICE LOCATIONS ARE TO REMAIN. EXISTING BOXES AND RACEWAYS AS MUCH AS POSSIBLE IF THE RACEWAYS AND BOXES ARE OF SUFFICIENT SIZE. MODIFY THE RACEWAY AND EXTEND TO CONNECT INTO NEW SYSTEM RACEWAY AS SHOWN. REFER TO DEMOLITION NOTES REGARDING ANY REUSE OF EXISTING WIRING.
2. CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING DUCTWORK, INCLUDING INSULATION, WHERE SMOKE DETECTOR ARE REMOVED.
3. WHERE WALL MOUNTED DEVICES ARE REMOVED AND NOT REPLACED IN THE SAME LOCATION PROVIDE A STAINLESS STEEL COVER. PATCH, PATCH AND REPAIR ANY VISIBLE OPENINGS IN WALL AROUND COVER. PATCH AND REPAIR ANY VISIBLE OPENINGS IN WALL AROUND COVER. REFER TO DEMOLITION PLANS FOR EXISTING LOCATIONS.

- 1 PROVIDE A NEW FACP AND ASSOCIATED FATC ALONG WITH ANY ADDITIONAL CABINETS THAT ARE REQUIRED.
- 2 EXTEND THE EXISTING DEDICATED 120 VOLT CIRCUIT TO THE NEW FACP. PROVIDE NEW 20 AMP, 1 POLE BREAKER. BREAKER SHALL BE RED IN COLOR WITH "LOCK-ON" HANDLE. PROVIDE NEW TYPEWRITTEN, UPDATED PANEL DIRECTORY CARD TO INDICATE NEW CIRCUIT(S).
- 3 PROVIDE 120 VOLT CIRCUIT TO THE NEW FACP. PROVIDE NEW 20 AMP, 1 POLE BREAKER IN PANEL "LP4". BREAKER SHALL BE RED IN COLOR WITH "LOCK-ON" HANDLE. PROVIDE NEW TYPEWRITTEN, UPDATED PANEL DIRECTORY CARD TO INDICATE NEW CIRCUIT(S).
- 4 PROVIDE NEW 24 CHANNEL ANALOG-TO-DIGITAL STATION BRIDGE (ASB), NYQUIST NO-E7030.
- 5 PROVIDE ONE (1) CAT-6 CABLE FROM EXISTING CAT-6 PATCH PANEL TO EACH ASB.
- 6 REFER TO INTERCOM RISER DIAGRAM FOR ADDITIONAL SCOPE.
- 7 PROVIDE NEW INTERCOM ADMINISTRATIVE PHONE/HANDSET.



**BUILDING BRIDGES
TO SUCCESS**

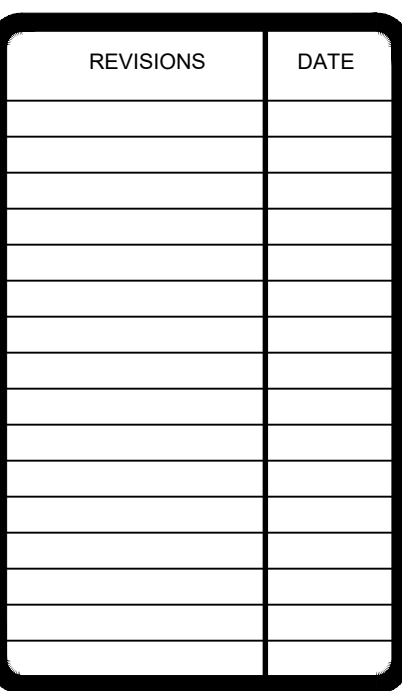
AGI
Anston-Greenlee, Inc.
Mechanical & Electrical Consulting Engineers
1315 West Fletcher Avenue, Tampa, FL 33612 Tel:813/683-1919
Email: AGI@ag-engineers.com HTTP://www.ag-engineers.com
Florida Engineering Business Number 6091

E2.04.1

1. PROVIDE (FURNISH AND INSTALL) ALL NEW INTERCOM CALL-IN SWITCHES. PROVIDE ONE FOR EACH EXISTING LOCATION, BUT NOT LESS THAN 90 NEW CALL IN SWITCHES. REUSE THE EXISTING CALL-IN SWITCH WIRING AND MAKE CONNECTIONS TO THE NEW SWITCH. ANY UNUSED SWITCHES SHALL BE TURNED OVER TO THE OWNER FOR SPARES. NEW SWITCHES SHALL BE BOGEN MODEL CA-15C.
2. PROVIDE ALL NEW EXTERIOR INTERCOM SPEAKERS. NEW SPEAKERS IN EXISTING LOCATIONS SHALL REUSE THE EXISTING WIRING AND MAKE CONNECTIONS TO THE NEW SPEAKER. NEW SPEAKERS IN NEW LOCATIONS SHALL BE PROVIDED WITH NEW WIRING. WIRING SHALL BE 16 AWG, 2 CONDUCTOR, WEATHERPROOF, WATER TIGHT, AND RATED FOR EXTERIOR USE. PROVIDE A NEW WEATHERPROOF SURFACE MOUNTED CAST ALUMINUM (FS TYPE) BOX IN ALL LOCATIONS AND MOUNT THE NEW SPEAKER ASSEMBLY SECURELY TO THE BOX.
3. PROVIDE ALL NEW BATTERY OPERATED, WIRELESS COMMUNICATION TYPE CLOCKS IN ALL LOCATIONS THAT HAVE AN EXISTING CLOCK NOW. MOUNT THE CLOCK ADJACENT TO THE EXISTING SPEAKER WHERE THE SPEAKER (AND OLD CLOCK) IS MOUNTED. MOUNTING IS NOT ALLOWED IN GLASS DOOR OR GLASS ROOM (NOT TEACHING WALL) WHERE THE SPEAKER IS CEILING MOUNTED. ALL MOUNTING LOCATIONS SHALL BE VERIFIED WITH THE OWNER PRIOR TO MOUNTING. PROVIDE 50 NEW CLOCKS. ANY UNUSED CLOCKS SHALL BE TURNED OVER TO THE OWNER FOR SPARES. NEW CLOCKS SHALL BE BOGEN MODEL BCAL-485-12R-0.

- 1 PROVIDE A NEW FACP AND ASSOCIATED FATC ALONG WITH ANY ADDITIONAL CABINETS THAT ARE REQUIRED.
- 2 EXTEND THE EXISTING DEPENDANT 120 VOLT CIRCUIT TO THE NEW FACP. PROVIDE NEW 20 AMP, 1 POLE BREAKER. BREAKER SHALL BE RED IN COLOR WITH "LOCK-ON" HANDLE. PROVIDE NEW TYPEWRITEN, UPDATED PANEL DIRECTORY CARD TO INDICATE NEW CIRCUIT(S).
- 3 PROVIDE NEW NYQUIST CONTROLLER IN MDF RACK.
- 4 PROVIDE NEW NYQUIST MIXER / PRE-AMP IN MDF RACK.
- 5 PROVIDE NEW AMPLIFIER AS NEEDED FOR EXTERIOR HORNS IN MDF RACK.
- 6 PROVIDE NEW BOGEN BCMA 3000 SERIES MASTER CLOCK IN MDF RACK.
- 7 PROVIDE NEW 24 CHANNEL ANALOG-TO-DIGITAL STATION BRIDGE (ASB), NYQUIST NO-E7030. REFER TO RISER DIAGRAM.
- 8 PROVIDE ONE (1) CAT-6 CABLE FROM EXISTING CAT-6 PATCH PANEL TO EACH ASB.
- 9 PROVIDE POWER (RECEPTACLE) FOR NEW ASB'S.

1. REFER TO THE DEMOLITION PLANS FOR EXISTING DEVICE LOCATIONS, NEW DEVICES THAT ARE SHOWN IN THE EXISTING DEVICE LOCATIONS, MAY REUSE THE EXISTING BOX AND RACEWAYS AS MUCH AS POSSIBLE. IF THE RACEWAYS AND BOXES ARE OF SUFFICIENT SIZE, MODIFY THE RACEWAY AND EXTEND TO CONNECT INTO NEW SYSTEM RACEWAY AS REQUIRED, REFER TO DEMOLITION NOTES REGARDING ANY REUSE OF EXISTING WIRING.
2. CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING DUCTWORK, INCLUDING INSULATION, WHERE SMOKE DUCT DETECTORS ARE REMOVED.
3. WHERE WALL MOUNTED DEVICES ARE REMOVED AND NOT REPLACED IN THE SAME LOCATION PROVIDE A STAINLESS STEEL COVER, PATCH, REPAIR AND REFINISH TO MATCH SURROUNDING WALL AROUND COVER AND PAINT COVER TO MATCH SURROUNDING AREAS. REFER TO DEMOLITION PLANS FOR EXISTING LOCATIONS.



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Florida Engineering Business Number 6993

SCALE: 1/8"=1'-0"

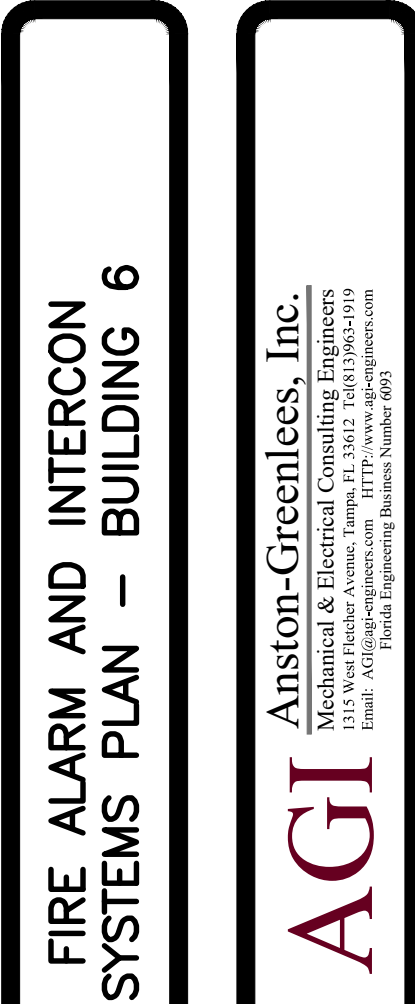
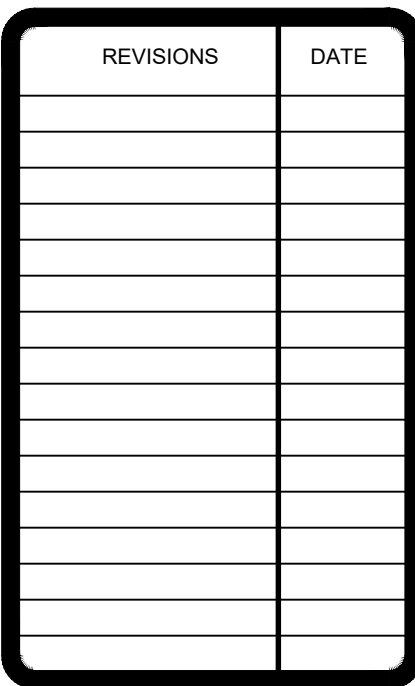
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1. PROVIDE (FURNISH AND INSTALL) ALL NEW INTERCOM CALL-IN SWITCHES. PROVIDE ONE FOR EACH EXISTING LOCATION, BUT NOT LESS THAN 90 NEW CALL IN SWITCHES. REUSE THE EXISTING CALL-IN SWITCH WIRING AND MAKE ALL CONNECTIONS TO THE NEW SWITCH. ANY UNUSED SWITCHES SHALL BE TURNED OVER TO THE OWNER FOR STORAGE. NEW SWITCHES SHALL BE BOGEN MODEL CA-15C.
2. PROVIDE ALL NEW EXTERIOR INTERCOM SPEAKERS. NEW SPEAKERS IN EXISTING LOCATIONS SHALL REUSE THE EXISTING WIRING AND MAKE CONNECTIONS TO THE NEW SPEAKER. NEW SPEAKERS IN NEW LOCATIONS SHALL BE PROVIDED WITH ALL MOUNTING HARDWARE INCLUDING MOUNTING BRACKET, WEATHERPROOF, WATERTIGHT, AND RATED FOR EXTERIOR USE. PROVIDE A NEW WEATHERPROOF SURFACE MOUNTED CAST ALUMINUM (FS TYPE) BOX IN ALL LOCATIONS AND MOUNT THE NEW SPEAKER ASSEMBLY SECURELY TO THE BOX.
3. PROVIDE ALL NEW BATTERY OPERATED, WIRELESS COMMUNICATION TYPE CLOCKS IN ALL LOCATIONS THAT HAVE AN EXISTING CLOCK NOW. MOUNT THE CLOCK ADJACENT TO THE EXISTING SPEAKER WHERE THE SPEAKER (AND OLD CLOCK) ARE. PROVIDE MOUNTING HARDWARE INCLUDING MOUNTING BRACKET, WEATHERPROOF (NOT TEACHING WALL) WHERE THE SPEAKER IS CEILING MOUNTED. ALL MOUNTING LOCATIONS SHALL BE VERIFIED WITH THE OWNER PRIOR TO MOUNTING. PROVIDE 460 NEW CLOCKS. ANY UNUSED CLOCKS SHALL BE TURNED OVER TO THE OWNER FOR SPEAKERS. NEW CLOCKS SHALL BE BOGEN MODEL BCAL-19S-12R-0.

1. REFER TO THE DEMOLITION PLANS FOR EXISTING DEVICE LOCATIONS. NEW DEVICES THAT ARE SHOWN IN THE EXISTING DEVICE LOCATIONS MAY BE THE EXISTING BOX AND RACEWAYS AS MUCH AS POSSIBLE. IF THE RACEWAYS AND BOXES ARE OF SUFFICIENT SIZE, MODIFY THE RACEWAY AND EXTEND TO CONNECT INTO NEW SYSTEM RACEWAY AS SHOWN. REFER TO DEMOLITION NOTES REGARDING ANY REUSE OF EXISTING WIRING.
2. CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING DUCTWORK, INCLUDING INSULATION, WHERE SMOKE DUCT DETECTORS ARE REMOVED.
3. WHERE WALL MOUNTED DEVICES ARE REMOVED AND NOT REPLACED IN THE SAME LOCATION PROVIDE A STAINLESS STEEL COVER. PATCH, PATCH AND REPAIR ANY VISIBLE OPENINGS IN WALL AROUND COVER. PROVIDE COVER TO MATCH EXISTING WALL FINISHES. REFER TO DEMOLITION PLANS FOR EXISTING LOCATIONS.

- 1 PROVIDE A NEW FACP AND ASSOCIATED FATS ALONG WITH ANY ADDITIONAL CABINETS THAT ARE REQUIRED.
- 2 EXTEND THE EXISTING DEDICATED 120 VOLT CIRCUIT TO THE NEW FACP. PROVIDE NEW 20 AMP, 1 POLE BREAKER. BREAKER SHALL BE RED IN COLOR WITH "LOCK-ON" HANDLE. PROVIDE NEW TYPEFIREN, UPDATED PANEL DIRECTORY CARD TO INDICATE NEW CIRCUIT(S).
- 3 PROVIDE NEW 24 CHANNEL ANALOG-TO-DIGITAL STATION BRIDGE (ASB), NBUYST QAT-E7030.
- 4 PROVIDE ONE (1) CAT-6 CABLE FROM EXISTING CAT-6 PATCH PANEL TO EACH ASB.
- 5 REFER TO INTERCOM RISER DIAGRAM FOR ADDITIONAL SCOPE.



SCALE: $1/8"=1'-0"$

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Plotted by: tim Feb 14, 2022 - 4:32pm

ROBERT C. ANSTON, P.E. 40858
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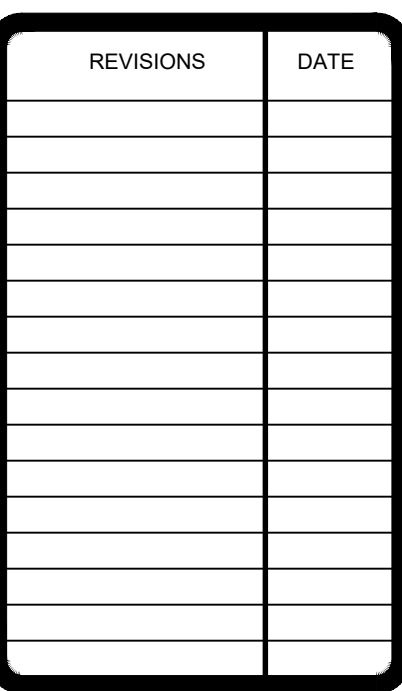
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2. PROVIDE ALL NEW EXTERIOR INTERCOM SPEAKERS. NEW SPEAKERS IN EXISTING LOCATIONS SHALL REUSE THE EXISTING WIRING AND MAKE CONNECTIONS TO THE NEW SPEAKER. NEW SPEAKERS IN NEW LOCATIONS SHALL BE PROVIDED WITH ALL WIRING, INCLUDING CONDUIT, TO THE SPEAKER. ALL WEATHERPROOF, WATERTIGHT, AND RATED FOR EXTERIOR USE. PROVIDE A NEW WEATHERPROOF SURFACE MOUNTED CAST ALUMINUM (FS TYPE) BOX IN ALL LOCATIONS AND MOUNT THE NEW SPEAKER ASSEMBLY SECURELY TO THE BOX.
3. PROVIDE ALL NEW BATTERY OPERATED, WIRELESS COMMUNICATION TYPE CLOCKS IN ALL LOCATIONS THAT HAVE AN EXISTING CLOCK NOW. MOUNT THE CLOCK ADJACENT TO THE EXISTING SPEAKER WHERE THE SPEAKER IS AN OLD CLOCK. ALL MOUNTING SHALL BE TO THE WALL OR BACK OF THE GLASS FRONT (NOT TEACHING WALL) WHERE THE SPEAKER IS CEILING MOUNTED. ALL MOUNTING LOCATIONS SHALL BE VERIFIED WITH THE OWNER PRIOR TO MOUNTING. PROVIDE 60 NEW BATTERIES. ANY UNUSED CLOCKS SHALL BE TURNED OVER TO THE OWNER FOR SPARES. NEW CLOCKS SHALL BE BOGEN MODEL BCAL-48S-12R-0.

- 1 PROVIDE A NEW FACP AND ASSOCIATED FATS ALONG WITH ANY ADDITIONAL CABINETS THAT ARE REQUIRED.
- 2 EXTEND THE EXISTING DEDICATED 120 VOLT CIRCUIT TO THE NEW FACP. PROVIDE NEW 20 AMP, 1 POLE BREAKER. BREAKER SHALL BE RED IN COLOR WITH "LOCK-ON" HANDLE. PROVIDE NEW TYPEWRITTEN, UPDATED PANEL DIRECTORY CARD TO INDICATE NEW CIRCUIT(S).
- 3 SURFACE MOUNT SPEAKER TO BOTTOM OF JOIST WITH SURFACE MOUNT TYPE ENCLOSURE.
- 4 PROVIDE A PROTECTIVE CASE OR LEXAN COVER FOR ALL DEVICES IN THE GYM (TYP).
- 5 EXTEND THE EXISTING DEDICATED 120 VOLT CIRCUIT TO THE NEW FACP. PROVIDE NEW 20 AMP, 1 POLE BREAKER. BREAKER SHALL BE RED IN COLOR WITH "LOCK-ON" HANDLE. PROVIDE NEW TYPEWRITTEN, UPDATED PANEL DIRECTORY CARD TO INDICATE NEW CIRCUIT(S).
- 6 PROVIDE NEW 24 CHANNEL ANALOG-TO-DIGITAL STATION BRIDGE (ASB), NQYU1 NQ-E7030.

1. REFER TO THE DEMOLITION PLANS FOR EXISTING DEVICE LOCATIONS. NEW DEVICES THAT ARE SHOWN IN THE EXISTING DEVICE LOCATIONS MAY REUSE THE EXISTING BOX AND RACEWAYS AS MUCH AS POSSIBLE. PATCH AND REPAIR ANY VISIBLE OPENINGS IN WALL SURFACES. PATCH THE RACEWAY AND EXTEND TO CONNECT INTO NEW SYSTEM RACEWAY AS REQUIRED. REFER TO DEMOLITION NOTES REGARDING ANY REUSE OF EXISTING WIRING.
2. CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING DUCTWORK, INCLUDING INSULATION, WHERE SMOKE DUCT DETECTORS ARE REMOVED.
3. WHERE WALL MOUNTED DEVICES ARE REMOVED AND NOT REPLACED IN THE SAME LOCATION PROVIDE A STAINLESS STEEL COVER. PATCH, PATCH AND REPAIR ANY VISIBLE OPENINGS IN WALL AROUND COVER. PROVIDE COVER TO MATCH SURROUNDING AREAS. REFER TO DEMOLITION PLANS FOR EXISTING LOCATIONS.



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E2.07.1

ROBERT C. ANSTON, P.E. 40858
TO THE BEST OF MY KNOWLEDGE, THESE
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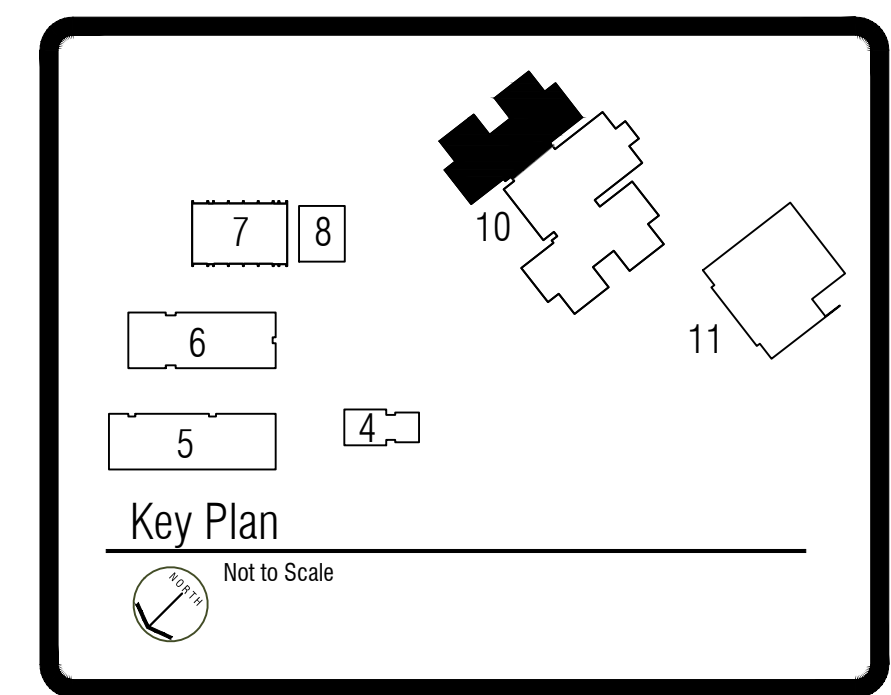
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1. PROVIDE (FURNISH AND INSTALL) ALL NEW INTERCOM CALL-IN SWITCHES. PROVIDE ONE FOR EACH EXISTING LOCATION, BUT NOT LESS THAN 90 NEW CALL IN SWITCHES. REUSE THE EXISTING CALL-IN SWITCH WIRING AND MAKE CONNECTIONS TO THE NEW SWITCH. ANY UNUSED SWITCHES SHALL BE TURNED OVER TO THE OWNER FOR SPARES. NEW SWITCHES SHALL BE BOGEN MODEL CA-15C.
2. PROVIDE ALL NEW EXTERIOR INTERCOM SPEAKERS. NEW SPEAKERS IN EXISTING LOCATIONS SHALL REUSE THE EXISTING WIRING AND MAKE CONNECTIONS TO THE NEW SPEAKER. NEW SPEAKERS IN NEW LOCATIONS SHALL BE PROVIDED WITH NEW WIRING. NEW WIRING SHALL BE 16 AWG, 2 CONDUCTOR, UNBraid, APPROX. WATERIGHT, AND RATED FOR EXTERIOR USE. PROVIDE A NEW WEATHERPROOF SURFACE MOUNTED CAST ALUMINUM (FS TYPE) BOX IN ALL LOCATIONS AND MOUNT THE NEW SPEAKER ASSEMBLY SECURELY TO THE BOX.
3. PROVIDE ALL NEW BATTERY OPERATED, WIRELESS COMMUNICATION TYPE CLOCKS IN ALL LOCATIONS THAT HAVE AN EXISTING CLOCK NOW. MOUNT THE CLOCK ON THE EXISTING WALL. NEW CLOCKS SHALL BE SPECIFIED AND OLD CLOCKS ARE WALL MOUNTED. MOUNT THE CLOCK IN THE BACK OF THE CLASSROOM (NOT TEACHING WALL) WHERE THE SPEAKER IS CEILING MOUNTED. ALL MOUNTING LOCATIONS SHALL BE VERIFIED WITH THE OWNER PRIOR TO MOUNTING. PROVIDE 160 NEW CLOCKS. ANY UNUSED CLOCKS SHALL BE TURNED OVER TO THE OWNER FOR SPARES. NEW CLOCKS SHALL BE BOGEN MODEL BCAL-48S-12R-0.

1 PROVIDE A HINGE TYPE DOOR HOLDER/CLOSER ON CORRIDOR SIDE OF DOOR. DOOR HOLDER SHALL BE ABLE TO ATTAIN A MAXIMUM OPENING OF 180° AND SHALL AUTOMATICALLY CLOSE THE DOOR UPON INITIATION OF FIRE ALARM SYSTEM.

1. REFER TO THE DEMOLITION PLANS FOR EXISTING DEVICE LOCATIONS. NEW DEVICES THAT ARE SHOWN IN THE EXISTING DEVICE LOCATIONS, MAY REUSE THE EXISTING BOX AND RACEWAYS AS MUCH AS POSSIBLE. REPAIR RACEWAYS AND BOXES ARE OF SUFFICIENT SIZE. MODIFY THE RACEWAY AND EXTEND TO CONNECT INTO NEW SYSTEM RACEWAY AS REQUIRED. REFER TO DEMOLITION NOTES REGARDING ANY REUSE OF WIRING.
2. CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING DUCTWORK, INCLUDING INSULATION, WHERE SMOKE DETECTOR ARE REMOVED.
3. WHERE WALL MOUNTED DEVICES ARE REMOVED AND NOT REPLACED IN THE SAME LOCATION PROVIDE A STAINLESS STEEL COVER. PATCH, REPAIR AND REFINISH THE WALL TO MATCH EXISTING WALL AROUND COVER AND PAINT COVER TO MATCH SURROUNDING AREAS. REFER TO DEMOLITION PLANS FOR EXISTING LOCATIONS.

BUILDING 10 IS FULLY SPRINKLED (SPRINKLERS).
APPLIES TO ALL BLDG. 10 SHEETS.

[illegible]

**Key Largo School
Fire Alarm and Intercom
Replacement
Monroe County School District
2411 Trumbo Road , Key West, Florida 33040**

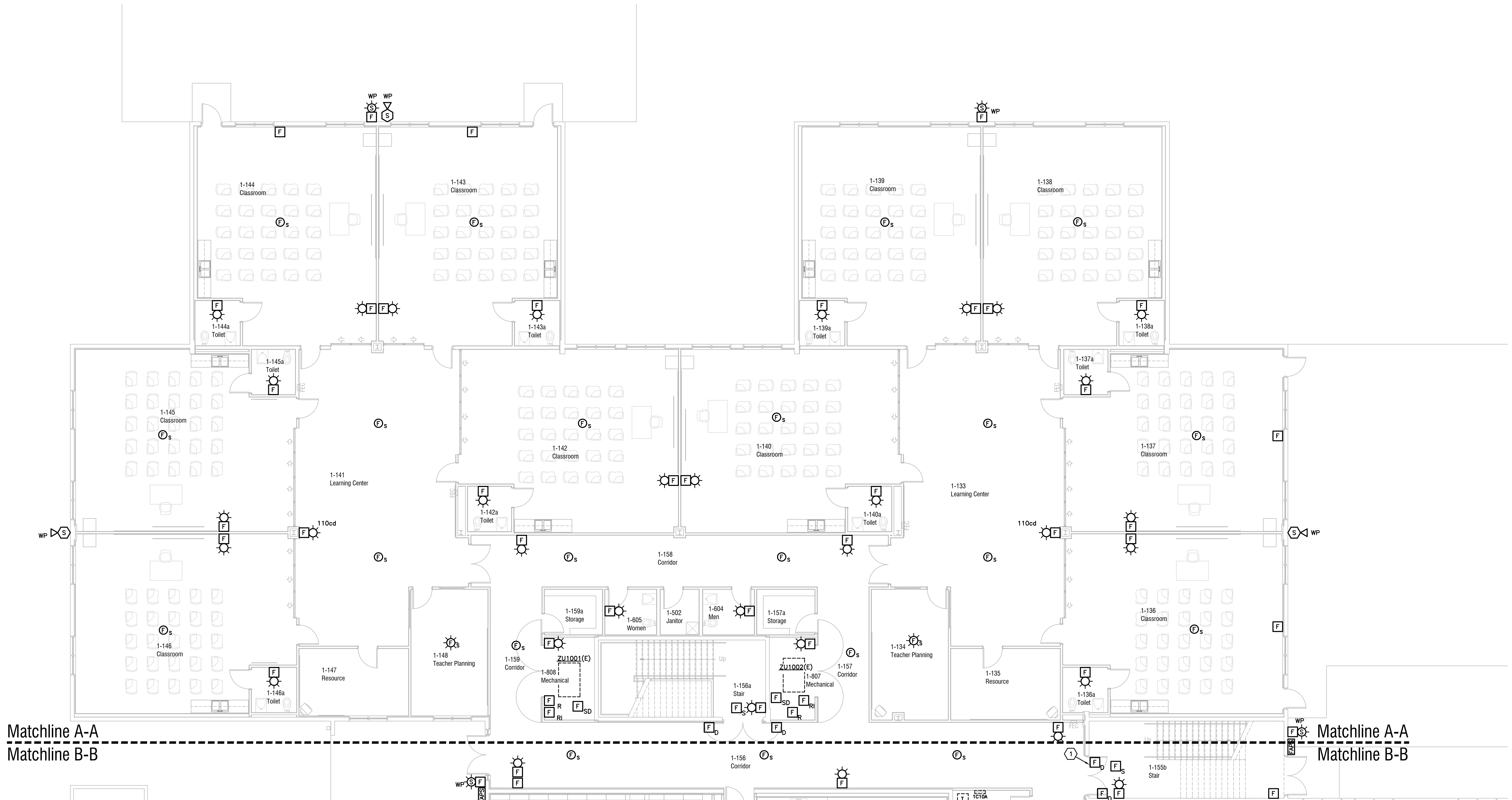


BUILDING 10 FIRST FLOOR AREA A

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FIRE ALARM AND INTERCOM SYSTEMS PLAN —
BUILDING 10 FIRST FLOOR AREA A
SCALE: 1/8"=1'-0"

ROBERT C. ANSTON, P.E. 40858
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INTERCOM SCOPE OF WORK NOTES:

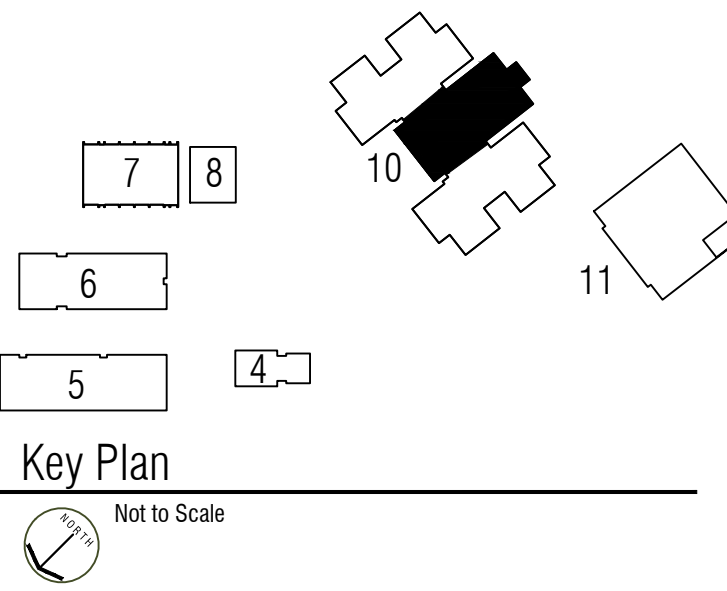
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2. PROVIDE ALL NEW EXTERIOR INTERCOM SPEAKERS. NEW SPEAKERS IN EXISTING LOCATIONS SHALL REUSE THE EXISTING WIRING AND MAKE CONNECTIONS TO THE NEW SPEAKER. NEW SPEAKERS IN NEW LOCATIONS SHALL BE PROVIDED WITH ALL NEW WIRING. ALL CONNECTIONS AND MOUNTING SHALL BE WEATHERPROOF, WATERTIGHT, AND RATED FOR EXTERIOR USE. PROVIDE A NEW WEATHERPROOF SURFACE MOUNTED CAST ALUMINUM (FS TYPE) BOX IN ALL LOCATIONS AND MOUNT THE NEW SPEAKER ASSEMBLY SECURELY TO THE BOX.
3. PROVIDE ALL NEW BATTERY OPERATED, WIRELESS COMMUNICATION TYPE CLOCKS IN ALL LOCATIONS THAT HAVE AN EXISTING CLOCK NOW. MOUNT THE CLOCK ADJACENT TO THE EXISTING SPEAKER WHERE THE SPEAKER (AND OLD CLOCK) ARE WALL MOUNTED. MOUNT THE CLOCK IN THE BACK OF THE CLASSROOM (NOT TEACHING WALL) WHERE THE SPEAKER IS CEILING MOUNTED. ALL MOUNTING LOCATIONS SHALL BE VERIFIED WITH THE OWNER PRIOR TO MOUNTING. PROVIDE 160 NEW CLOCKS. ANY UNUSED CLOCKS SHALL BE TURNED OVER TO THE OWNER FOR SPARES. NEW CLOCKS SHALL BE BOGEN MODEL BCAL-4BS-12R-0.

DRAWING NOTES

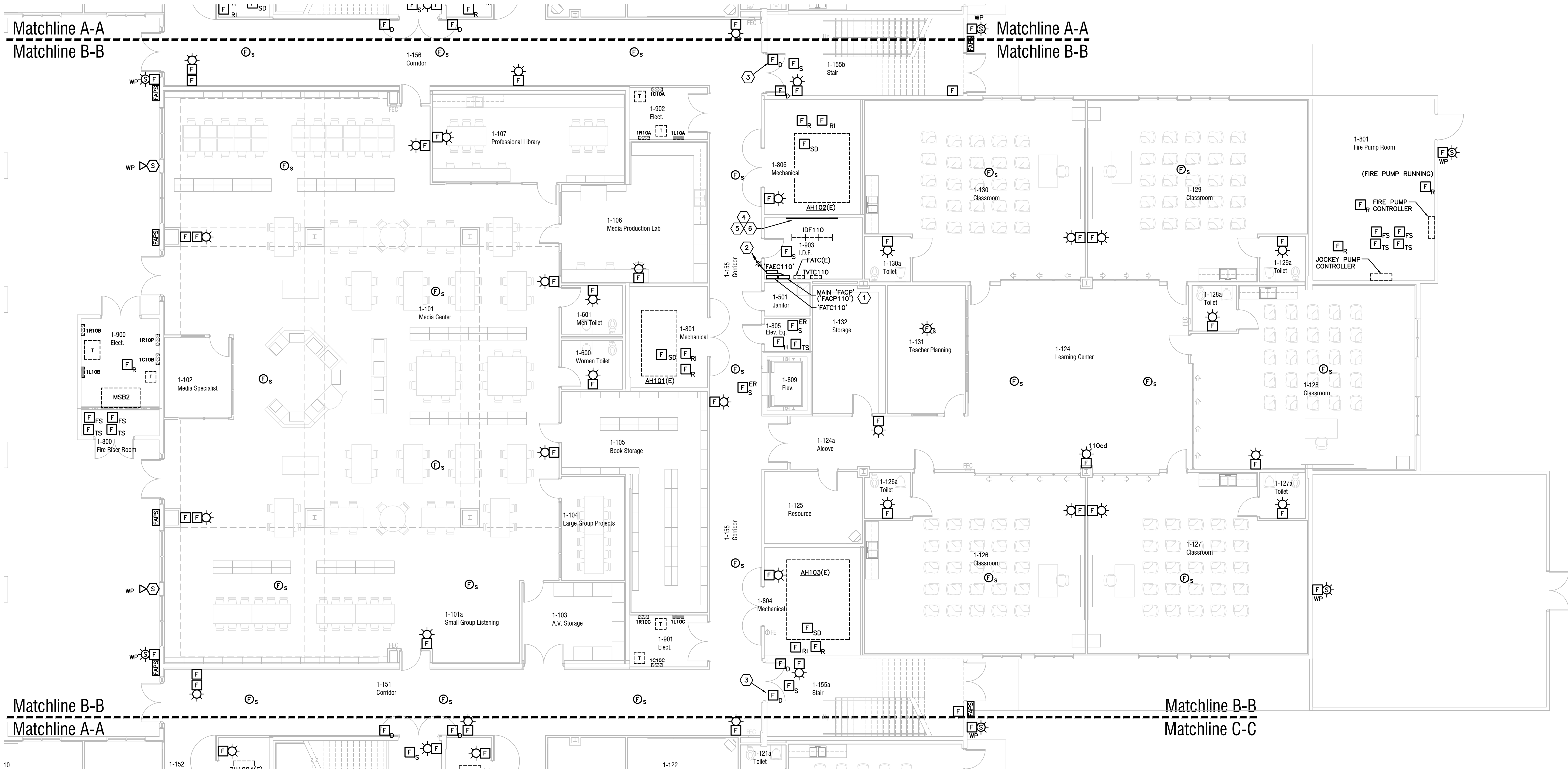
1. PROVIDE A NEW FACP AND ASSOCIATED FATC ALONG WITH ANY ADDITIONAL CABINETS THAT ARE REQUIRED.
2. EXTEND THE EXISTING DEDICATED 120 VOLT CIRCUIT TO THE NEW FACP. PROVIDE NEW 20 AMP, 1 POLE BREAKER. BREAKER SHALL BE RED IN COLOR WITH "LOCK-ON" HANDLE. PROVIDE NEW TYPEWRITTEN, UPDATED PANEL DIRECTORY CARD TO INDICATE NEW CIRCUIT(S).
3. PROVIDE A SINGLE DOOR HINGE TYPE DOOR HOLDER/CLOSER ON CORRIDOR SIDE OF DOOR. DOOR HOLDER SHALL BE ABLE TO ATTAIN A MAXIMUM OPENING OF 180" AND SHALL AUTOMATICALLY CLOSE THE DOOR UPON INITIATION OF FIRE ALARM SYSTEM.
4. PROVIDE REQUIRED AMPLIFIER/PRE-AMP FOR EXTERIOR.
5. PROVIDE NEW 24 CHANNEL ANALOG-TO-DIGITAL STATION BRIDGE (ASB), NYQUIST NQ-E7030.
6. PROVIDE ONE (1) CAT-6 CABLE FROM EXISTING CAT-6 PATCH PANEL TO EACH ASB.

GENERAL NOTES

1. REFER TO THE DEMOLITION PLANS FOR EXISTING DEVICE LOCATIONS. NEW DEVICES THAT ARE SHOWN IN THE EXISTING DEVICE LOCATIONS MAY REUSE THE EXISTING BOX AND RACEWAYS AS MUCH AS POSSIBLE IF THE RACEWAYS AND BOXES ARE OF SUFFICIENT SIZE. MODIFY THE RACEWAY AND EXTEND TO CONNECT INTO NEW SYSTEM RACEWAY AS REQUIRED. REFER TO DEMOLITION NOTES REGARDING ANY REUSE OF EXISTING WIRING.
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REVISIONS	DATE



**FIRE ALARM AND INTERCOM SYSTEMS PLAN –
BUILDING 10 FIRST FLOOR AREA B**
SCALE: 1/8"=1'-0"

**FIRE ALARM AND INTERCOM SYSTEMS PLAN
BUILDING 10 FIRST FLOOR AREA B**

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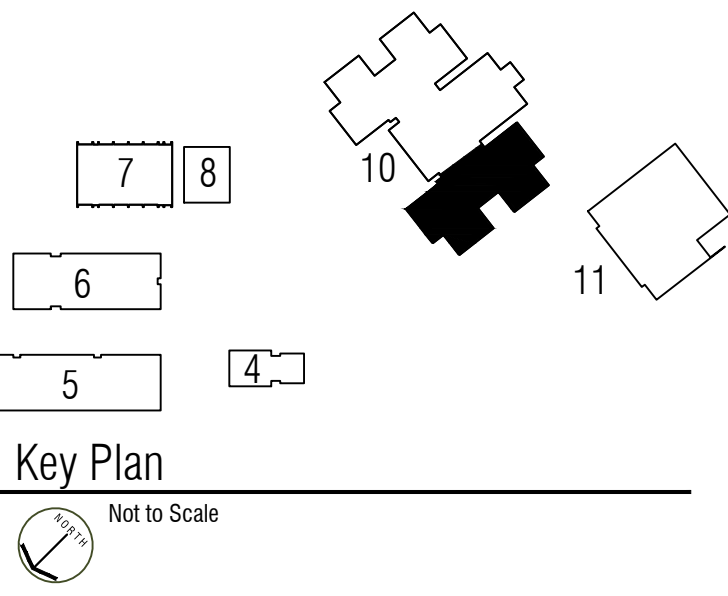
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Plotted by: tm Feb 14, 2022 - 4:32pm

INTERCOM SCOPE OF WORK NOTES:

1. PROVIDE (FURNISH AND INSTALL) ALL NEW INTERCOM CALL-IN SWITCHES. PROVIDE ONE FOR EACH EXISTING LOCATION, BUT NOT LESS THAN 90 NEW CALL IN SWITCHES. REUSE THE EXISTING CALL-IN SWITCH WIRING AND MAKE CONNECTIONS TO THE NEW SWITCH. ANY UNUSED SWITCHES SHALL BE TURNED OVER TO THE OWNER FOR SPARES. NEW SWITCHES SHALL BE BOGEN MODEL CA-15C.
2. PROVIDE ALL NEW EXTERIOR INTERCOM SPEAKERS. NEW SPEAKERS IN EXISTING LOCATIONS SHALL REUSE THE EXISTING WIRING AND MAKE CONNECTIONS TO THE NEW SPEAKER. NEW SPEAKERS IN NEW LOCATIONS SHALL BE PROVIDED WITH ALL NEW WIRING. ALL CONNECTIONS AND MOUNTING SHALL BE WEATHERPROOF, WATER TIGHT, AND RATED FOR EXTERIOR USE. PROVIDE A NEW WEATHERPROOF SURFACE MOUNTED CAST ALUMINUM (FS TYPE) BOX IN ALL LOCATIONS AND MOUNT THE NEW SPEAKER ASSEMBLY SECURELY TO THE BOX.
3. PROVIDE ALL NEW BATTERY OPERATED, WIRELESS COMMUNICATION TYPE CLOCKS IN ALL LOCATIONS THAT HAVE AN EXISTING CLOCK NOW. MOUNT THE CLOCK ADJACENT TO THE EXISTING SPEAKER WHERE THE SPEAKER (AND OLD CLOCK) ARE WALL MOUNTED. MOUNT THE CLOCK IN THE BACK OF THE CLASSROOM (NOT TEACHING WALL) WHERE THE SPEAKER IS CEILING MOUNTED. ALL MOUNTING LOCATIONS SHALL BE VERIFIED WITH THE OWNER PRIOR TO MOUNTING. PROVIDE 160 NEW CLOCKS. ANY UNUSED CLOCKS SHALL BE TURNED OVER TO THE OWNER FOR SPARES. NEW CLOCKS SHALL BE BOGEN MODEL BCAL-4BS-12R-0.

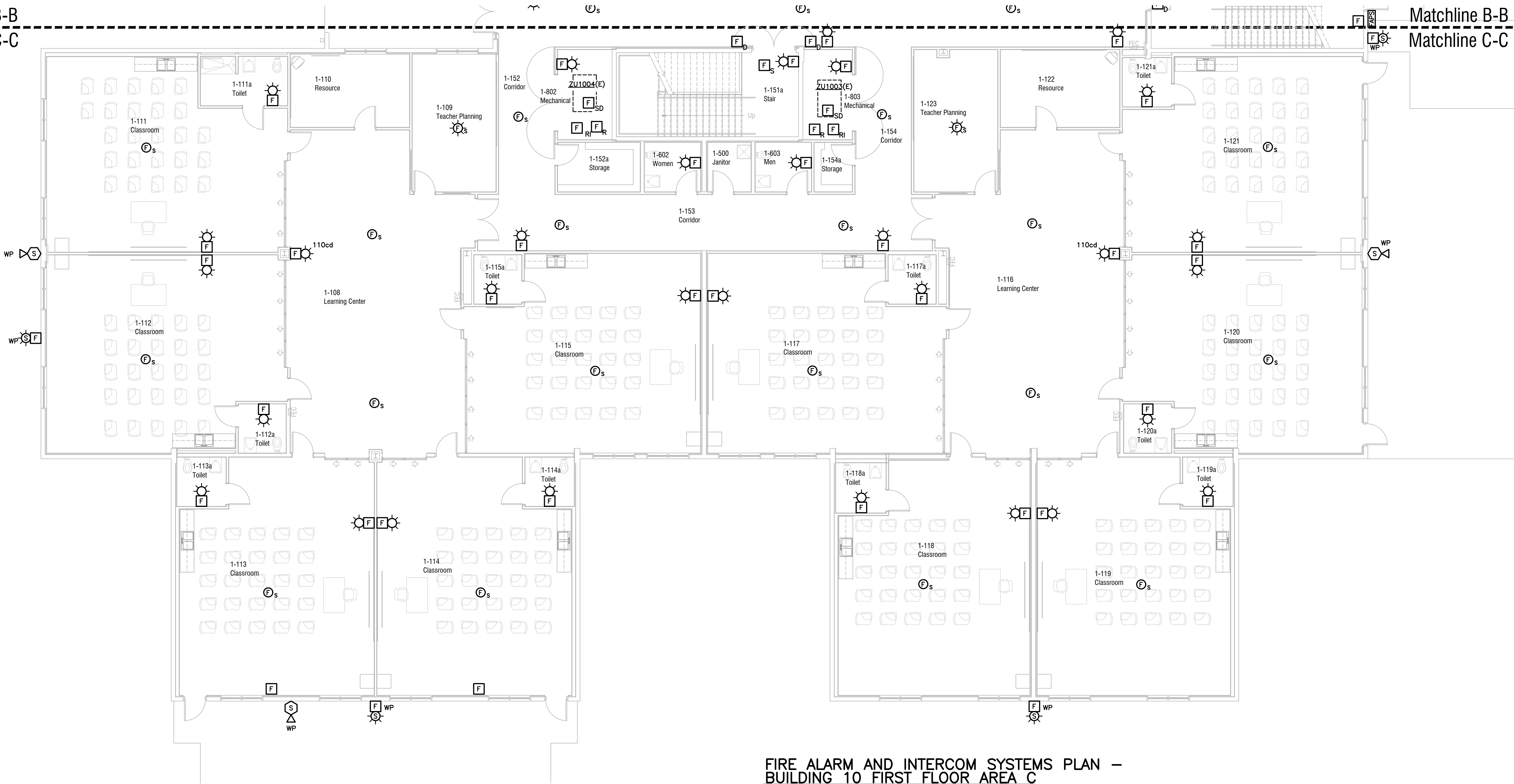
GENERAL NOTES

1. REFER TO THE DEMOLITION PLANS FOR EXISTING DEVICE LOCATIONS. NEW DEVICES THAT ARE SHOWN IN THE EXISTING DEVICE LOCATIONS MAY REUSE THE EXISTING BOX AND RACEWAYS AS MUCH AS POSSIBLE IF THE RACEWAYS AND BOXES ARE OF SUFFICIENT SIZE. MODIFY THE RACEWAY AND EXTEND TO CONNECT INTO NEW SYSTEM RACEWAY AS REQUIRED. REFER TO DEMOLITION NOTES REGARDING ANY REUSE OF EXISTING WIRING.
2. CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING DUCTWORK, INCLUDING INSULATION, WHERE SMOKE DUCT DETECTORS ARE REMOVED.
3. WHERE WALL MOUNTED DEVICES ARE REMOVED AND NOT REPLACED IN THE SAME LOCATION PROVIDE A STAINLESS STEEL COVER, PATCH, PATCH AND REPAIR ANY VISIBLE OPENINGS IN WALL AROUND COVER AND PAINT COVER TO MATCH SURROUNDING AREAS. REFER TO DEMOLITION PLANS FOR EXISTING LOCATIONS.



REVISIONS	DATE

Matchline B-B
Matchline C-C



Matchline B-B
Matchline C-C

FIRE ALARM AND INTERCOM SYSTEMS PLAN –
BUILDING 10 FIRST FLOOR AREA C
SCALE: 1/8"=1'-0"

Key Largo School
Fire Alarm and Intercom
Replacement
Monroe County School District
241 Trumbo Road, Key West, Florida 33040



FIRE ALARM AND INTERCOM SYSTEMS PLAN
BUILDING 10 FIRST FLOOR AREA C

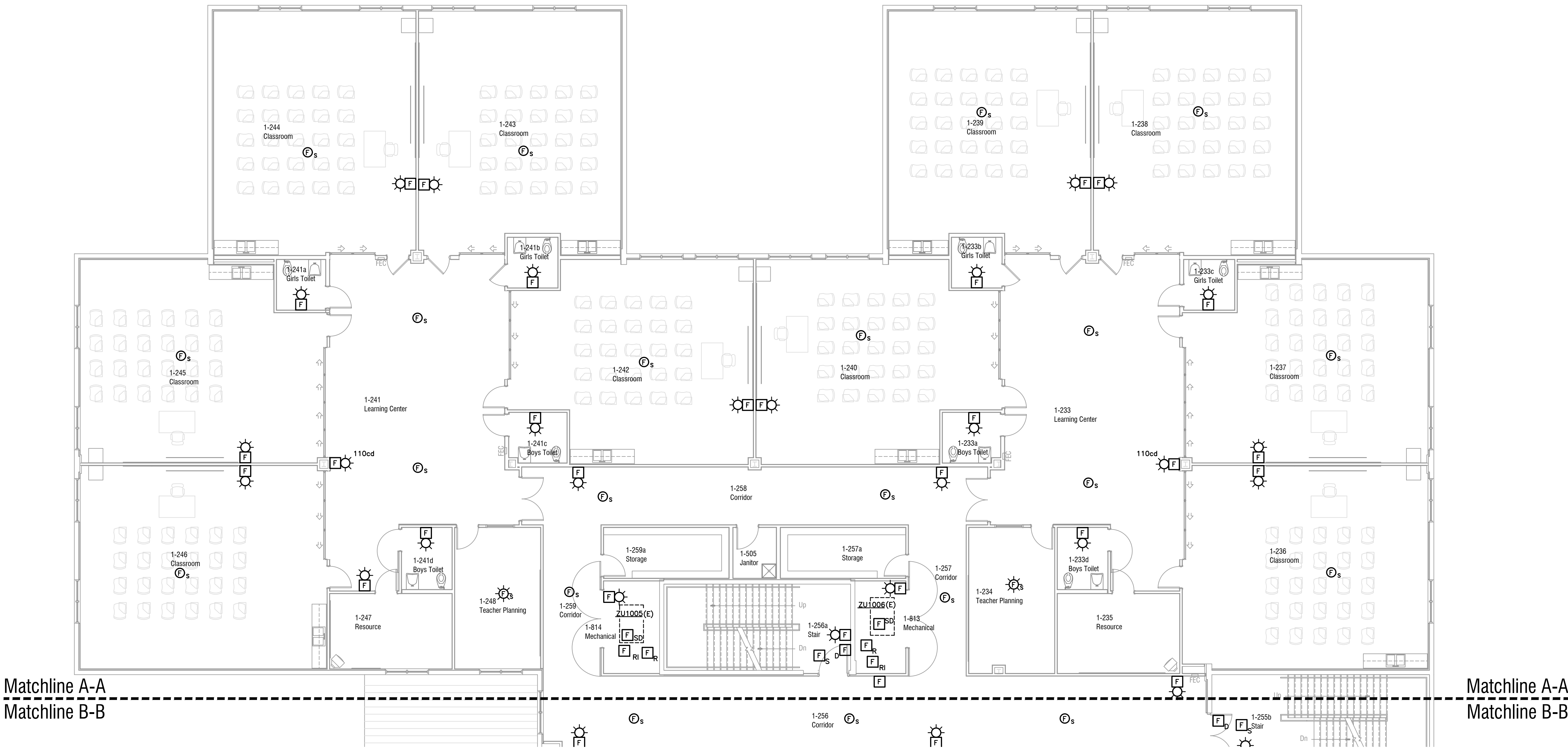
AGI
Anston-Greenlees, Inc.
Mechanical & Electrical Consulting Engineers
1115 West Harbor Avenue, Tampa, FL 33612, (813) 766-5599
www.agi-engineers.com
Florida Engineering License Number 4602

DRAWN TRG
CHECKED RCA
DATE 02.14.2022
SCALE AS NOTED
JOB NO. 21013
DRAWING NO.

E2.10.1C

ROBERT C. ANSTON, P.E. 40858
TO THE BEST OF MY KNOWLEDGE, THESE
DRAWINGS AND THE PROJECT MANUAL ARE
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BUILDING CODE

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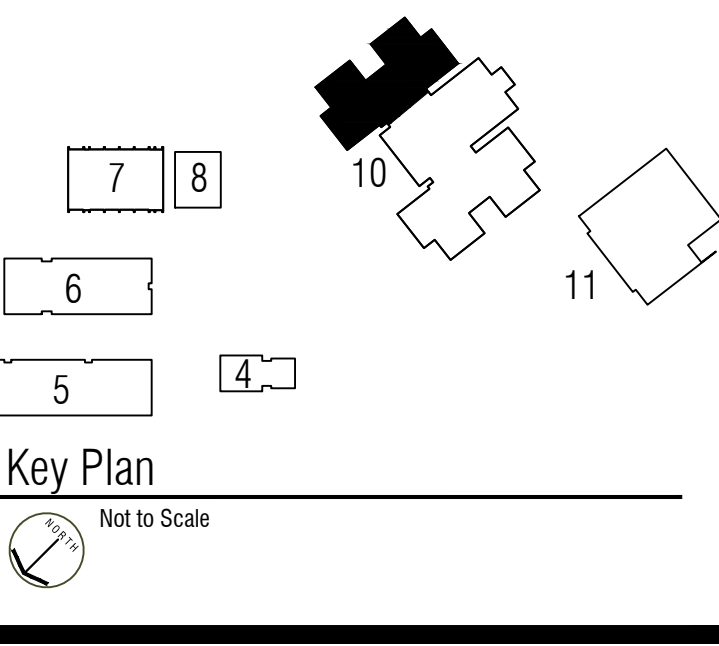


INTERCOM SCOPE OF WORK NOTES:

1. PROVIDE (FURNISH AND INSTALL) ALL NEW INTERCOM CALL-IN SWITCHES. PROVIDE ONE FOR EACH EXISTING LOCATION, BUT NOT LESS THAN 90 NEW CALL IN SWITCHES. REUSE THE EXISTING CALL-IN SWITCH WIRING AND MAKE CONNECTIONS TO THE NEW SWITCH. ANY UNUSED SWITCHES SHALL BE TURNED OVER TO THE OWNER FOR SPARES. NEW SWITCHES SHALL BE BOGEN MODEL CA-15C.
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3. PROVIDE ALL NEW BATTERY OPERATED, WIRELESS COMMUNICATION TYPE CLOCKS IN ALL LOCATIONS THAT HAVE AN EXISTING CLOCK NOW. MOUNT THE CLOCK ADJACENT TO THE EXISTING SPEAKER WHERE THE SPEAKER (AND OLD CLOCK) ARE WALL MOUNTED. MOUNT THE CLOCK IN THE BACK OF THE CLASSROOM (NOT TEACHING WALL) WHERE THE SPEAKER IS CEILING MOUNTED. ALL MOUNTING LOCATIONS SHALL BE VERIFIED WITH THE OWNER PRIOR TO MOUNTING. PROVIDE 160 NEW CLOCKS. ANY UNUSED CLOCKS SHALL BE TURNED OVER TO THE OWNER FOR SPARES. NEW CLOCKS SHALL BE BOGEN MODEL BCAL-4BS-12R-0.

GENERAL NOTES

1. REFER TO THE DEMOLITION PLANS FOR EXISTING DEVICE LOCATIONS. NEW DEVICES THAT ARE SHOWN IN THE EXISTING DEVICE LOCATIONS MAY REUSE THE EXISTING BOX AND RACEWAYS AS MUCH AS POSSIBLE IF THE RACEWAYS AND BOXES ARE OF SUFFICIENT SIZE. MODIFY THE RACEWAY AND EXTEND TO CONNECT INTO NEW SYSTEM RACEWAY AS REQUIRED. REFER TO DEMOLITION NOTES REGARDING ANY REUSE OF EXISTING WIRING.
2. CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING DUCTWORK, INCLUDING INSULATION, WHERE SMOKE DUCT DETECTORS ARE REMOVED.
3. WHERE WALL MOUNTED DEVICES ARE REMOVED AND NOT REPLACED IN THE SAME LOCATION PROVIDE A STAINLESS STEEL COVER. PATCH, PATCH AND REPAIR ANY VISIBLE OPENINGS IN WALL AROUND COVER AND PAINT COVER TO MATCH SURROUNDING AREAS. REFER TO DEMOLITION PLANS FOR EXISTING LOCATIONS.



REVISIONS	DATE

**Key Largo School
Fire Alarm and Intercom
Replacement**

Monroe County School District
241 Trumbo Road, Key West, Florida 33040



**BUILDING BRIDGES
TO SUCCESS**

**FIRE ALARM AND INTERCOM SYSTEMS PLAN
BUILDING 10 SECOND FLOOR AREA A**

AGI Anston-Greenlee, Inc.
Mechanical & Electrical Consulting Engineers
1115 West Harbor Avenue, Tampa, FL 33612, 813.817.0600
www.agi-engineers.com License # 00000000000000000000000000000000

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TRG

CHECKED
RCA

DATE
02.14.2022

SCALE
AS NOTED

JOB NO.
21013

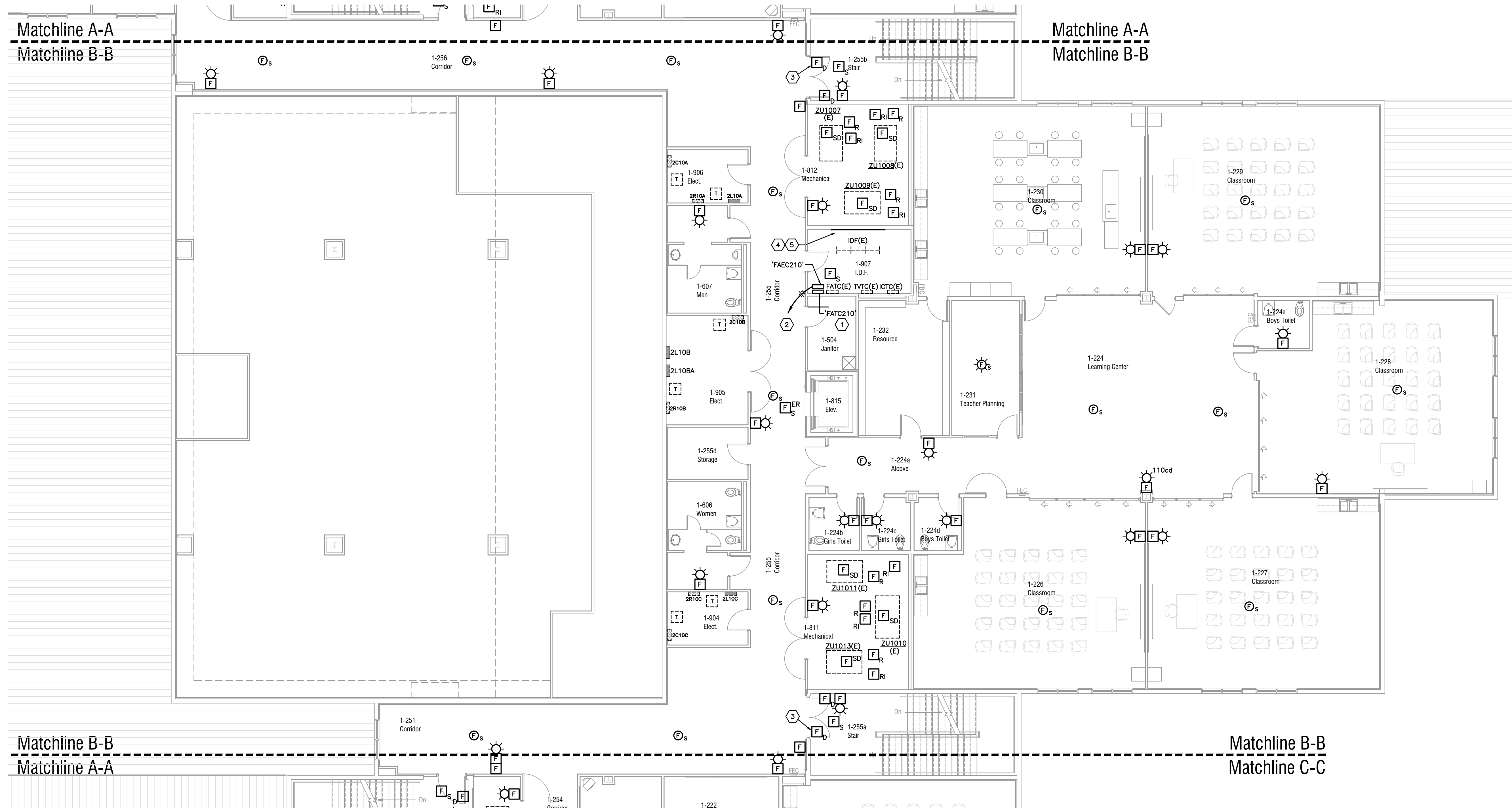
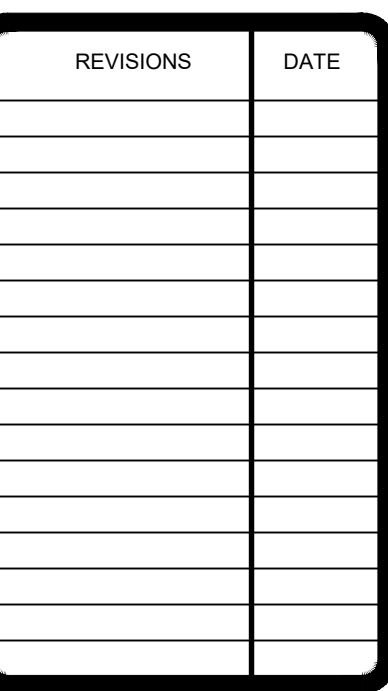
DRAWING NO.
E2.10.2A

ROBERT C. ANSTON, P.E. 40858
TO THE BEST OF MY KNOWLEDGE, THESE
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2. PROVIDE ALL NEW EXTERIOR INTERCOM SPEAKERS. NEW SPEAKERS IN EXISTING LOCATIONS SHALL REUSE THE EXISTING WIRING AND MAKE CONNECTIONS TO THE NEW SPEAKER. NEW SPEAKERS IN NEW LOCATIONS SHALL BE PROVIDED WITH ALL NEW WIRING. NEW SPEAKERS SHALL BE WEATHERPROOFED (WATERPROOF, WATERIGHT, AND RATED FOR EXTERIOR USE. PROVIDE A NEW WEATHERPROOF SURFACED MOUNTED CAST ALUMINUM (FS TYPE) BOX IN ALL LOCATIONS AND MOUNT THE NEW SPEAKER ASSEMBLY SECURELY TO THE BOX.
3. PROVIDE ALL NEW BATTERY OPERATED, WIRELESS COMMUNICATION TYPE CLOCKS IN ALL LOCATIONS THAT HAVE AN EXISTING CLOCK NOW. MOUNT THE CLOCK IN THE LOCATION OF THE EXISTING CLOCK. IF THERE IS NO EXISTING CLOCK (OR OLD CLOCKS) ARE WALL MOUNTED. MOUNT THE CLOCK IN THE BACK OF THE CLASSROOM (NOT TEACHING WALL) WHERE THE SPEAKER IS CEILING MOUNTED. ALL MOUNTING LOCATIONS SHALL BE VERIFIED WITH THE OWNER PRIOR TO MOUNTING. PROVIDE 60 NEW CLOCKS. ANY UNUSED CLOCKS SHALL BE TURNED OVER TO THE OWNER FOR SPARES. NEW CLOCKS SHALL BE BOGEN MODEL BCAL-48S-12R-0.

- 1 PROVIDE A NEW FATC ALONG WITH ANY ADDITIONAL CABINETS THAT ARE REQUIRED.
- 2 EXTEND THE EXISTING DESIGNATED 120 VOLT CIRCUIT TO THE NEW FATC. PROVIDE NEW 20 AMP, 1 POLE BREAKER. BREAKER SHALL BE RED IN COLOR WITH "LOCK-ON" HANDLE. PROVIDE NEW THERM-A-MIN, UPDATED PANEL DIRECTORY CARD TO INDICATE NEW CIRCUIT(S).
- 3 PROVIDE A SINGLE DOOR HINGE TYPE DOOR HOLDER/CLOSER ON CORRIDOR SIDE OF DOOR. DOOR HOLDER SHALL BE ABLE TO ATTAIN A MAXIMUM OPENING OF 180° AND SHALL AUTOMATICALLY CLOSE THE DOOR UPON INITIATION OF FIRE ALARM SYSTEM.
- 4 PROVIDE NEW 24 CHANNEL ANALOG-TO-DIGITAL STATION BRIDGE (ASB), NYQUIST NQ-E7030.
- 5 PROVIDE ONE (1) CAT-6 CABLE FROM EXISTING CAT-6 PATCH PANEL TO EACH ASB.

1. REFER TO THE DEMOLITION PLANS FOR EXISTING DEVICE LOCATIONS. NEW DEVICES THAT ARE SHOWN IN THE EXISTING DEVICE LOCATIONS MAY REUSE THE EXISTING BOX AND RACEWAYS AS MUCH AS POSSIBLE. IF THE RACEWAYS AND BOXES ARE OF SUFFICIENT SIZE, MODIFY THE RACEWAY AND EXTEND TO CONNECT INTO NEW SYSTEM RACEWAY AS REQUIRED. REFER TO DEMOLITION NOTES REGARDING ANY REUSE OF EXISTING WIRING.
2. CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING DUCTWORK, INCLUDING INSULATION, WHERE SMOKE DUCT DETECTORS ARE REMOVED.
3. WHERE WALL MOUNTED DEVICES ARE REMOVED AND NOT REPLACED IN THE SAME LOCATION PROVIDE A STAINLESS STEEL COVER, PATCH, PATCH AND REPAIR ANY VISIBLE OPENINGS IN WALL AROUND COVER. PROVIDE STAINLESS STEEL COVER AND PATCH ALL OTHER DEVICES. REFER TO DEMOLITION PLANS FOR EXISTING LOCATIONS.

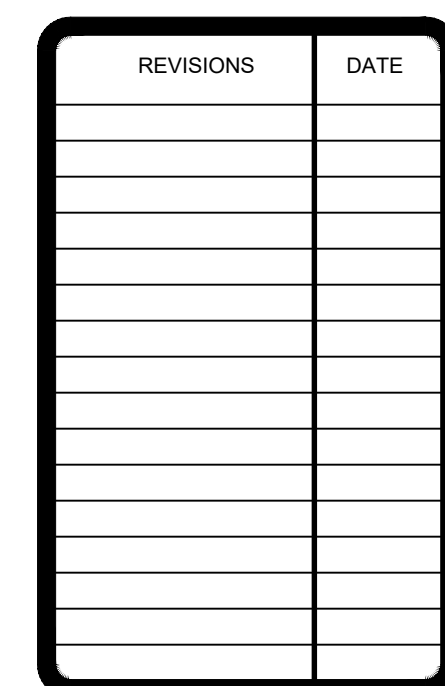


E2.10.2B

ROBERT C. ANSTON, P.E. 40858
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2. PROVIDE ALL NEW EXTERIOR INTERCOM SPEAKERS. NEW SPEAKERS IN EXISTING LOCATIONS SHALL REUSE THE EXISTING WIRING AND MAKE CONNECTIONS TO THE NEW SPEAKER. NEW SPEAKERS IN NEW LOCATIONS SHALL BE PROVIDED WITH ALL NEW WIRING, ALL CONNECTIONS AND MOUNTING SHALL BE WEATHERPROOF W/ALUMINUM MOUNTING PLATE AND WEATHERPROOF CLOCK FACE. WEATHERPROOF SURFACE MOUNTED CAST ALUMINUM (FS TYPE) BOX IN ALL LOCATIONS AND MOUNT THE NEW SPEAKER ASSEMBLY SECURELY TO THE BOX.
3. PROVIDE ALL NEW BATTERY OPERATED, WIRELESS COMMUNICATION TYPE CLOCKS IN ALL LOCATIONS THAT HAVE AN EXISTING CLOCK NOW. MOUNT THE CLOCK ADJACENT TO THE EXISTING SPEAKER WHERE THE SPEAKER (AND OLD CLOCK) IS MOUNTED. MOUNT NEW CLOCKS IN NEW LOCATIONS (NOT IN ROOM (NOT TEACHING WALL) WHERE THE SPEAKER IS CEILING MOUNTED. ALL MOUNTING LOCATIONS SHALL BE VERIFIED WITH THE OWNER PRIOR TO MOUNTING. PROVIDE 16R NEW CLOCKS. ANY UNUSED CLOCKS SHALL BE TURNED OVER TO THE OWNER FOR SPARES. NEW CLOCKS SHALL BE BOGEN MODEL BCAL-4BS-12R-0.

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Matchline B-B

Matchline C-C

ROBERT C. ANSTON, P.E. 40858
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DRAWN TRG
CHECKED RCA
DATE 02.14.2022
SCALE AS NOTED
JOB NO. 21013
DRAWING NO. E2.10.2C

MONROE COUNTY SCHOOL DISTRICT
www.KeyToSuccess.com

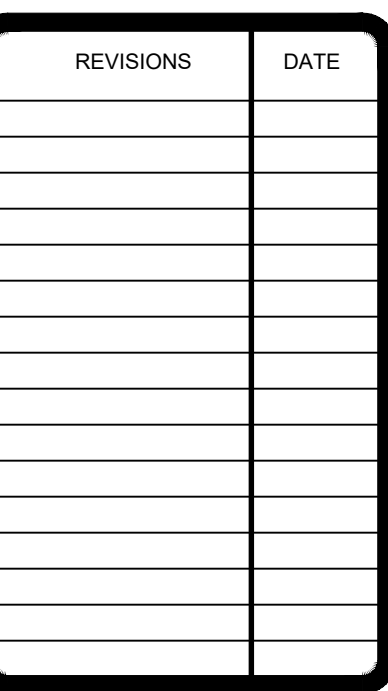
**BUILDING BRIDGES
TO SUCCESS**

AGI
Anston-Greenlees, Inc.
Mechanical & Electrical Consulting Engineers
1315 West Fletcher Avenue, Tampa, FL 33612 Tel: (813) 963-1919
Email: AGI@agi-engineers.com [HTTP://www.agi-engineers.com](http://www.agi-engineers.com)
Florida Engineering Business Number 6093

1. PROVIDE (FURNISH AND INSTALL) ALL NEW INTERCOM CALL-IN SWITCHES. PROVIDE ONE FOR EACH EXISTING LOCATION, BUT NOT LESS THAN 90 NEW CALL IN SWITCHES. REUSE THE EXISTING CALL-IN SWITCH WIRING AND MAKE CONNECTIONS TO THE NEW SWITCH. ANY UNUSED SWITCHES SHALL BE TURNED OVER TO THE OWNER FOR SPARES. NEW SWITCHES SHALL BE BOGEN MODEL CA-15C.
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1 PROVIDE A HINGE TYPE DOOR HOLDER/CLOSER ON CORRIDOR SIDE OF DOOR. DOOR HOLDER SHALL BE ABLE TO ATTAIN A MAXIMUM OPENING OF 180° AND SHALL AUTOMATICALLY CLOSE THE DOOR UPON INITIATION OF FIRE ALARM SYSTEM.

1. REFER TO THE DEMOLITION PLANS FOR EXISTING DEVICE LOCATIONS; NEW DEVICES THAT ARE SHOWN IN THE EXISTING DEVICE LOCATIONS, MATCH THE EXISTING BOX AND SUFFICIENCY AS MUCH AS POSSIBLE IF THE RACEWAYS AND BOXES ARE OF SUFFICIENT SIZE. MODIFY THE RACEWAY AND EXTEND TO CONNECT INTO NEW SYSTEM RACEWAY AS REQUIRED. REFER TO DEMOLITION NOTES REGARDING ANY REUSE OF EXISTING WIRING.
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SCALE: 1/8"=1'-0"



**BUILDING BRIDGES
TO SUCCESS**

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 Florida Engineering Business Number 6093

E2.10.3A

ROBERT C. ANSTON, P.E. 40858
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Drawing File: I:\21xxx\21013\001\21013a2103.dwg E2103B
Plotted by: tm Feb 14, 2022 - 4:33pm

INTERCOM SCOPE OF WORK NOTES:

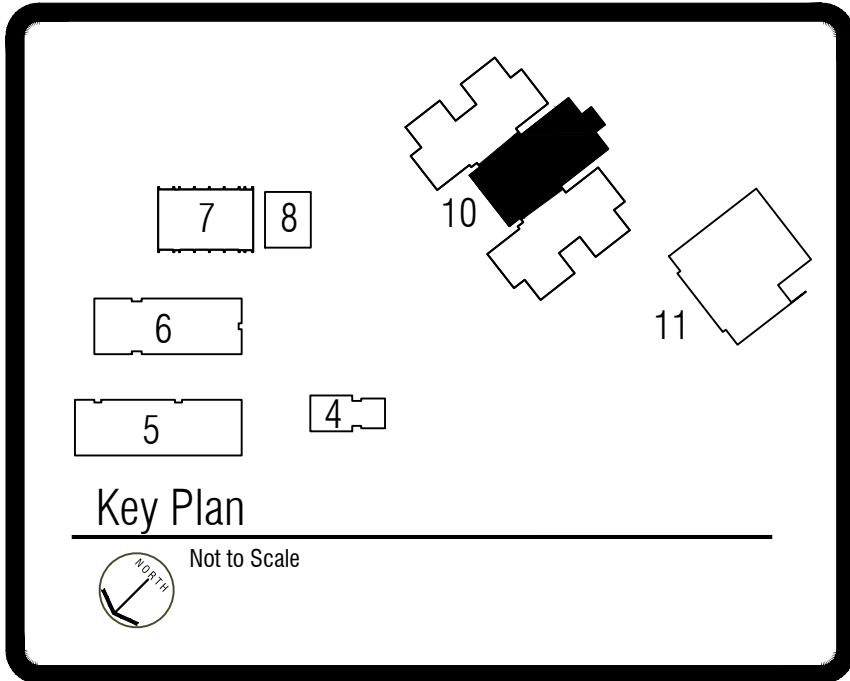
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DRAWING NOTES

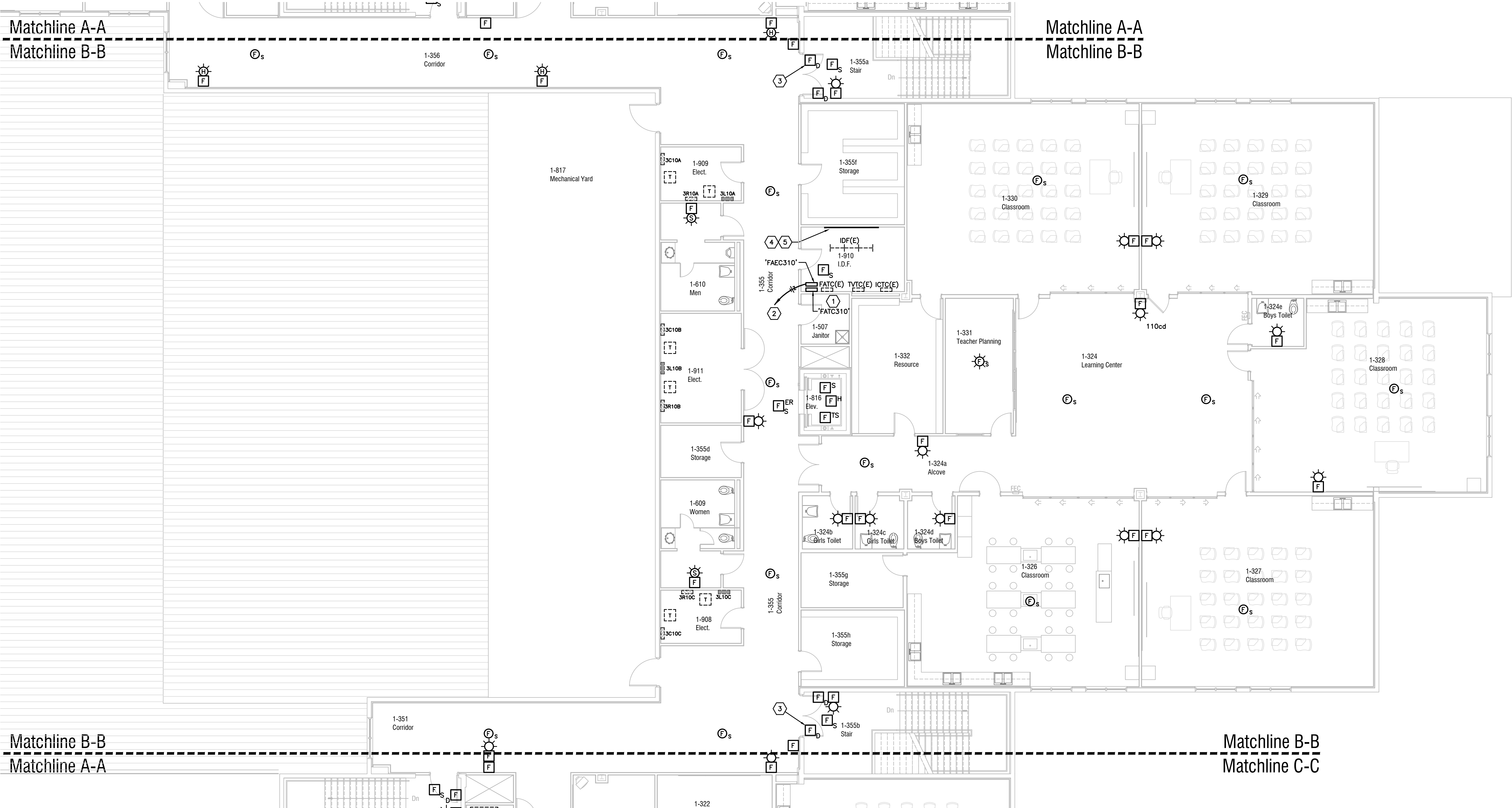
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REVISIONS	DATE



**FIRE ALARM AND INTERCOM SYSTEMS PLAN –
BUILDING 10 THIRD FLOOR AREA B**
SCALE: 1/8"=1'-0"

**Key Largo School
Fire Alarm and Intercom
Replacement**
Monroe County School District
241 Trumbo Road, Key West, Florida 33040



**FIRE ALARM AND INTERCOM SYSTEMS PLAN
BUILDING 10 – THIRD FLOOR AREA B**

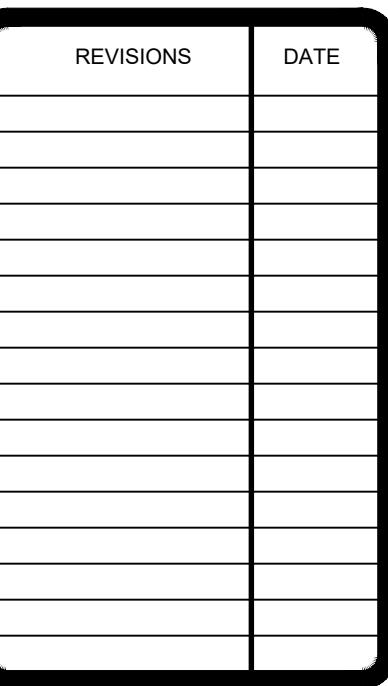
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Florida Engineering License Number 4602

DRAWN	TRG
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JOB NO.	21013
DRAWING NO.	E2.10.3B

ROBERT C. ANSTON, P.E. 40858
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**FIRE ALARM AND INTERCOM SYSTEMS PLAN
BUILDING 10 THIRD FLOOR AREA C**

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Email: AGI@ag-engineers.com AGIhttp://www.agi-engineers.com
Florida Engineering Business Number 601

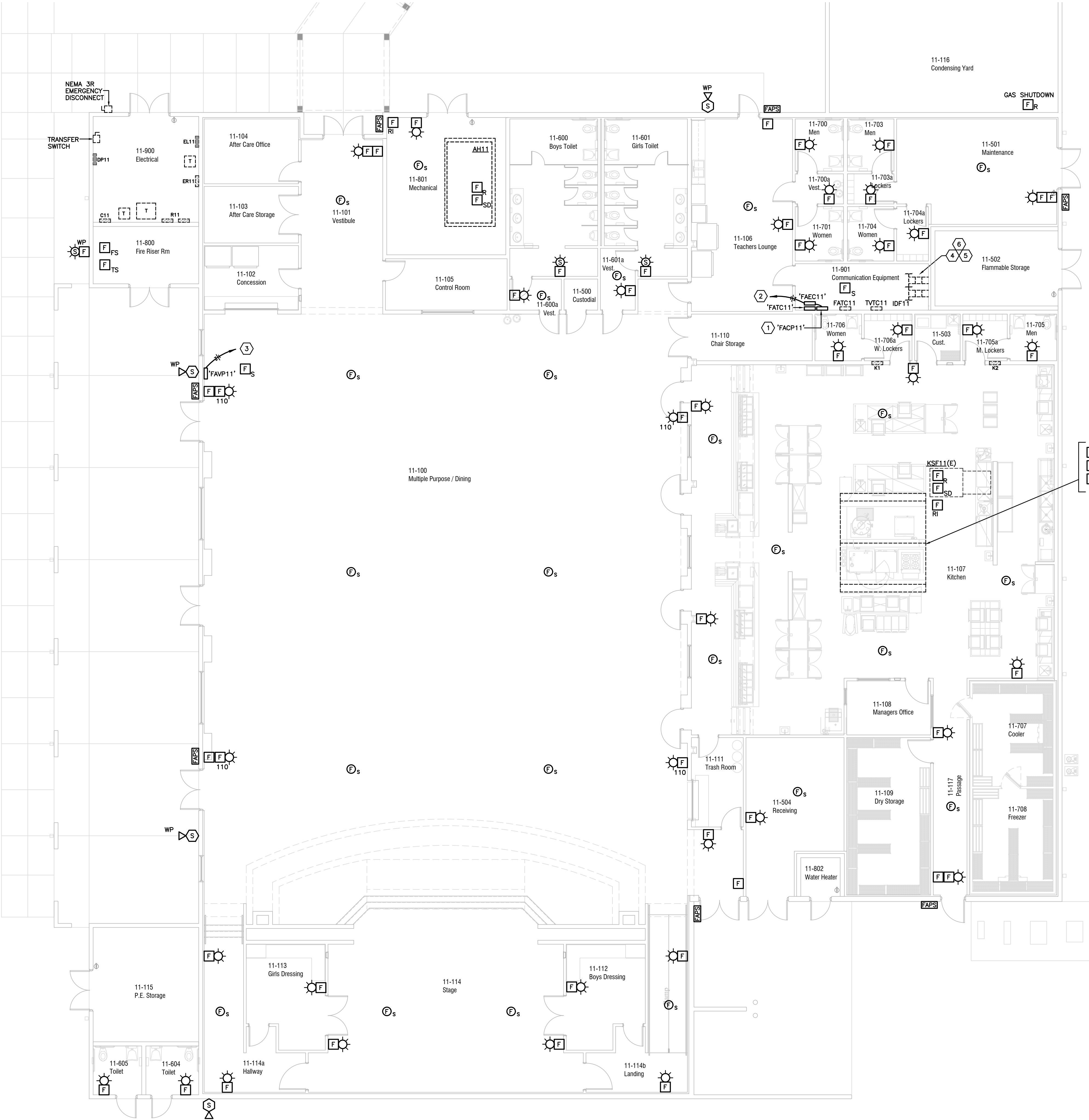
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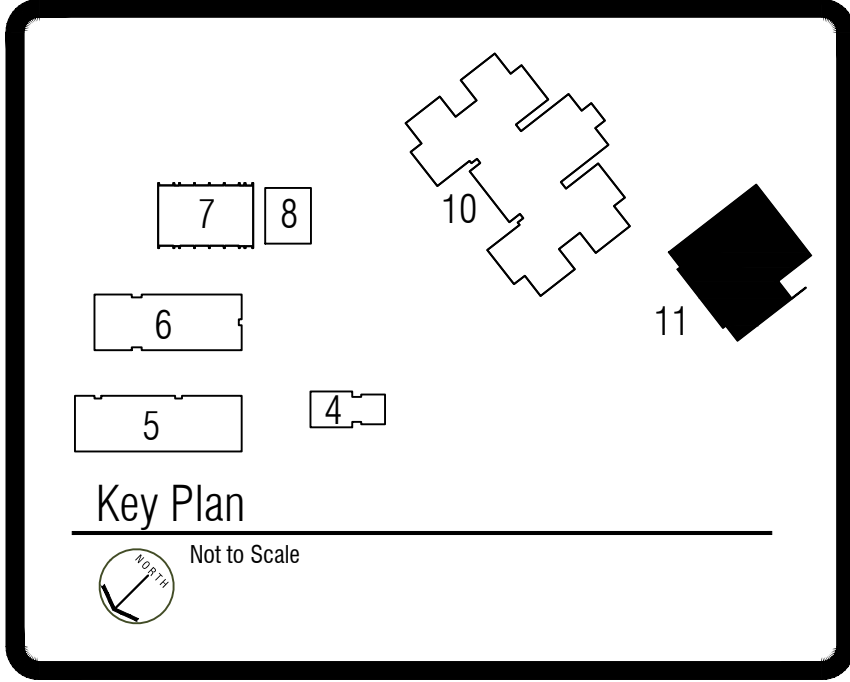
ROBERT C. ANSTON, P.E. 40858
TO THE BEST OF MY KNOWLEDGE, THESE
DRAWINGS AND THE PROJECT MANUAL ARE
COMPLETE AND COMPLY WITH THE 2020 FLORIDA
BUILDING CODE

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Plotted by: tim Feb 14, 2022 - 4:33pm

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Plotted by: tm Feb 14, 2022 - 4:33pm



FIRE ALARM AND INTERCOM SYSTEMS PLAN
BUILDING 11
SCALE: 1/8"=1'-0"



GENERAL NOTES

1. REFER TO THE DEMOLITION PLANS FOR EXISTING DEVICE LOCATIONS. NEW DEVICES THAT ARE SHOWN IN THE EXISTING DEVICE LOCATIONS MAY REUSE THE EXISTING BOX AND RACEWAYS AS MUCH AS POSSIBLE IF THE RACEWAYS AND BOXES ARE OF SUFFICIENT SIZE. MODIFY THE RACEWAY AND EXTEND TO CONNECT INTO NEW SYSTEM RACEWAY AS REQUIRED. REFER TO DEMOLITION NOTES REGARDING ANY REUSE OF EXISTING WIRING.
2. CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING DUCTWORK, INCLUDING INSULATION, WHERE SMOKE DUCT DETECTORS ARE REMOVED.
3. WHERE WALL MOUNTED DEVICES ARE REMOVED AND NOT REPLACED IN THE SAME LOCATION PROVIDE A STAINLESS STEEL COVER. PATCH AND REPAIR ANY VISIBLE OPENINGS IN WALL AROUND COVER AND PAINT COVER TO MATCH SURROUNDING AREAS. REFER TO DEMOLITION PLANS FOR EXISTING LOCATIONS.

DRAWING NOTES

1. PROVIDE A NEW FACP AND ASSOCIATED FATC ALONG WITH ANY ADDITIONAL CABINETS THAT ARE REQUIRED.
2. EXTEND THE EXISTING DEDICATED 120 VOLT CIRCUIT TO THE NEW FACP. PROVIDE NEW 20 AMP, 1 POLE BREAKER. BREAKER SHALL BE RED IN COLOR WITH "LOCK-ON" HANDLE. PROVIDE NEW TYPEWRITTEN, UPDATED PANEL DIRECTORY CARD TO INDICATE NEW CIRCUIT(S).
3. EXTEND THE EXISTING DEDICATED 120 VOLT CIRCUIT TO THE NEW FACP. PROVIDE NEW 20 AMP, 1 POLE BREAKER. BREAKER SHALL BE RED IN COLOR WITH "LOCK-ON" HANDLE. PROVIDE NEW TYPEWRITTEN, UPDATED PANEL DIRECTORY CARD TO INDICATE NEW CIRCUIT(S).
4. PROVIDE NEW 24 CHANNEL ANALOG-TO-DIGITAL STATION BRIDGE (ASB), NYQUIST NQ-E7030.
5. PROVIDE ONE (1) CAT-6 CABLE FROM EXISTING CAT-6 PATCH PANEL TO EACH ASB.
6. REFER TO INTERCOM RISER DIAGRAM FOR ADDITIONAL SCOPE.

INTERCOM SCOPE OF WORK NOTES:

1. PROVIDE (FURNISH AND INSTALL) ALL NEW INTERCOM CALL-IN SWITCHES. PROVIDE ONE FOR EACH EXISTING LOCATION, BUT NOT LESS THAN 90 NEW CALL IN SWITCHES. REUSE THE EXISTING CALL-IN SWITCH WIRING AND MAKE CONNECTIONS TO THE NEW SWITCH. ANY UNUSED SWITCHES SHALL BE TURNED OVER TO THE OWNER FOR SPARES. NEW SWITCHES SHALL BE BOGEN MODEL CA-15C.
2. PROVIDE ALL NEW EXTERIOR INTERCOM SPEAKERS. NEW SPEAKERS IN EXISTING LOCATIONS SHALL REUSE THE EXISTING WIRING AND MAKE CONNECTIONS TO THE NEW SPEAKER. NEW SPEAKERS IN NEW LOCATIONS SHALL BE PROVIDED WITH ALL NEW WIRING. ALL CONNECTIONS AND MOUNTING SHALL BE WEATHERPROOF, WATERTIGHT, AND RATED FOR EXTERIOR USE. PROVIDE A NEW WEATHERPROOF SURFACE MOUNTED CAST ALUMINUM (FS TYPE) BOX IN ALL LOCATIONS AND MOUNT THE NEW SPEAKER ASSEMBLY SECURELY TO THE BOX.
3. PROVIDE ALL NEW BATTERY OPERATED, WIRELESS COMMUNICATION TYPE CLOCKS IN ALL LOCATIONS THAT HAVE AN EXISTING CLOCK NOW. MOUNT THE CLOCK ADJACENT TO THE EXISTING SPEAKER WHERE THE SPEAKER (AND OLD CLOCK) ARE WALL MOUNTED. MOUNT THE CLOCK IN THE BACK OF THE CLASSROOM (NOT TEACHING WALL) WHERE THE SPEAKER IS CEILING MOUNTED. ALL MOUNTING LOCATIONS SHALL BE VERIFIED WITH THE OWNER PRIOR TO MOUNTING. PROVIDE 160 NEW CLOCKS. ANY UNUSED CLOCKS SHALL BE TURNED OVER TO THE OWNER FOR SPARES. NEW CLOCKS SHALL BE BOGEN MODEL BCAL-4BS-12R-0.

BUILDING 11 IS FULLY SPRINKLED (SPRINKLERS).

REVISIONS	DATE

Key Largo School
Fire Alarm and Intercom
Replacement
Monroe County School District
241 Trumbo Road, Key West, Florida 33040



BUILDING BRIDGES
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FIRE ALARM AND INTERCOM SYSTEMS PLAN -
BUILDING 11

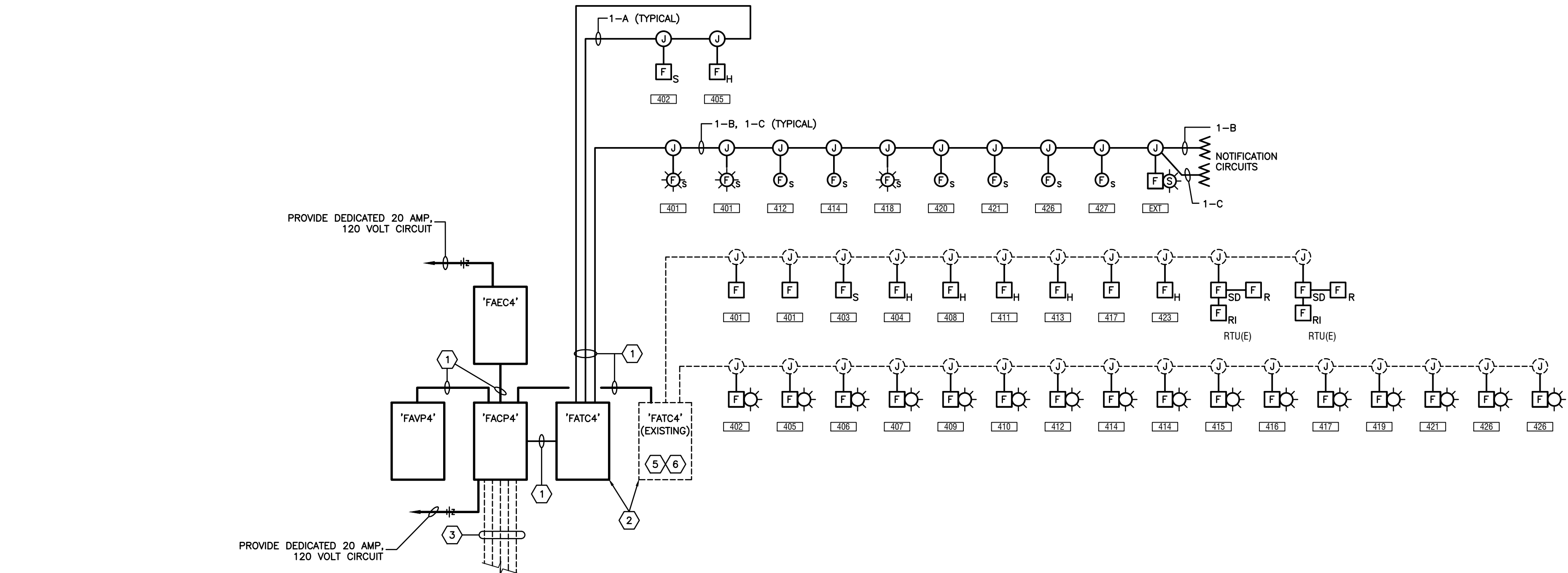
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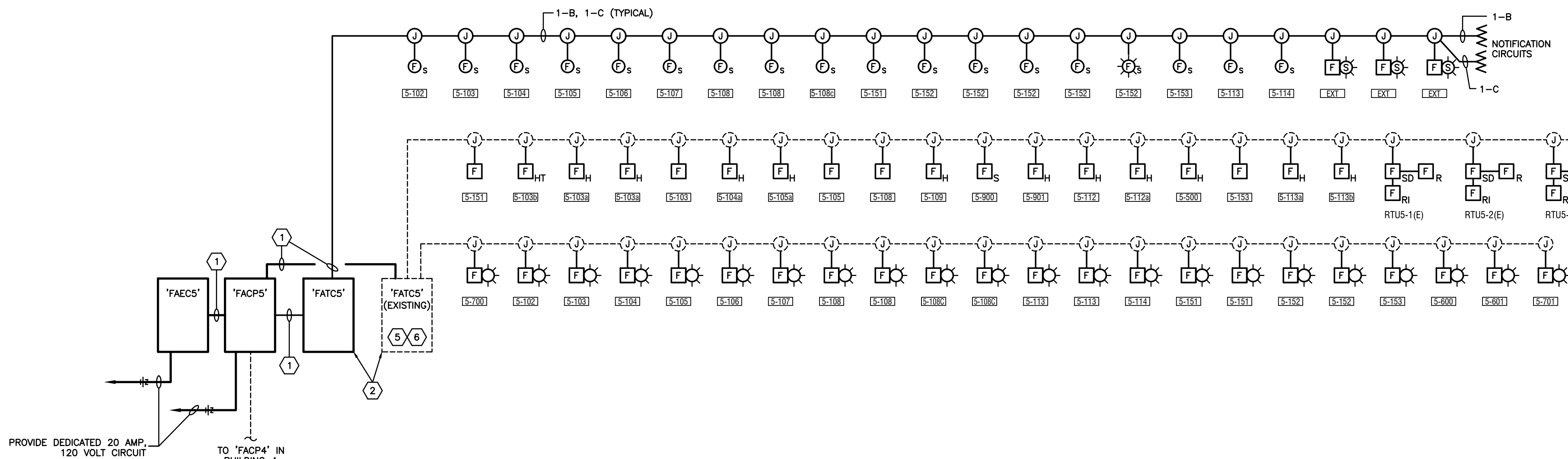
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ROBERT C. ANSTON, P.E. 40858
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Plotted by: tm Feb 14, 2022 - 4:33pm



ADMINISTRATION BUILDING 4



CLASSROOM BUILDING 5

FIRE ALARM SYSTEMS RISER DIAGRAM
NOT TO SCALE

FIRE ALARM GENERAL NOTES

1. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT SIZED IN ACCORDANCE WITH NEC. ALL CONDUIT SHALL BE CONCEALED WHERE EVER POSSIBLE. PROVIDE SURFACE MOUNTED WIREMOLD WHERE RACEWAY IS REQUIRED TO BE SURFACE MOUNTED. CONDUIT SIZES SHOWN ARE MINIMUM. PROVIDE REQUIRED CONDUIT FOR NUMBER OF CONDUCTORS REQUIRED.
2. INDICATING APPLIANCE SIGNAL CIRCUITS SHALL BE A MINIMUM #12 AWG STRANDED COPPER, NPLFP TYPE, PER NEC. ALARM INITIATING CIRCUITS SHALL BE A MINIMUM #18 AWG STRANDED COPPER, NPLFP TYPE, PER NEC.
3. QUANTITIES OF CONDUCTORS AND CIRCUITING INDICATED IS BASED ON A SPECIFIC SYSTEM AND MAY BE DIFFERENT DEPENDING ON THE MANUFACTURER UTILIZED. CONTRACTOR IS TO PROVIDE ALL NECESSARY CIRCUITS, WIRE AND CONDUIT TO ACCOMPLISH THE FUNCTIONS INDICATED HERE, ON THE FLOOR PLANS AND IN THE SPECIFICATIONS.
4. SEE FLOOR PLANS FOR ALL THE DEVICES REQUIRED, NOT INDICATED ON THE RISER DIAGRAM.
5. FIRE ALARM CIRCUITS SHALL NOT BE SPLICED INSIDE MANHOLES OR ANYWHERE BELOW GRADE.
6. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

FIRE ALARM RISER NOTES

1. PROVIDE REQUIRED FIRE ALARM CABLING
2. PROVIDE SURGE SUPPRESSION DEVICES IN TERMINAL CABINETS.
3. EXISTING FIRE ALARM BACKBONE RACEWAYS TO EACH BUILDING MAY BE REUSED. REMOVE ALL EXISTING BACKBONE CABLING AND PULL IN ALL NEW CABLE.
4. PROVIDE NEW FIBER OPTIC BACKBONE CABLING IN THE EXISTING CONDUIT. THE NEW FIBER BACKBONE SHALL BE LOOPED IN A RING CONFIGURATION BY LEAVING BUILDING 4 AND ROUTING TO BUILDING 5, THEN LOOPED THROUGH BUILDING 6 AND OUT TO BUILDING 7/8, AND SO FORTH (4 TO 5 TO 6 TO 7/8 TO 10 TO 11 AND BACK TO 4). PROVIDE ONE 6 STRAND, MULTI-MODE, OM4, FIBER TO EACH BUILDING FROM THE MAIN FIRE ALARM CONTROL PANEL FATC. PROVIDE AN ADDITIONAL SEPARATE 4 STRAND, MULTI-MODE, OM4, FIBER OPTIC CABLE FROM EACH BUILDING NEW FACP/FATC BACK TO BUILDING 4 AND LOOPED THRU TO THE NEXT BUILDING AND THEN BACK TO BUILDING 4.
5. REMOVE ALL EXISTING SPICES, TERMINALS, WIRE NUTS, GROUND CONNECTIONS, AND SURGE PROTECTION DEVICES FROM THE EXISTING TERMINAL CABINETS. IF WIRING IS REUSED, IT SHALL BE TESTED FOR GROUND FAULT AND SHORT CIRCUIT AND SHALL BE COMPLETELY RE-TERMINATED ON NEW WIRING TERMINAL STRIPS. TERMINAL STRIPS SHALL BE MOUNTED INSIDE THE CABINET. WIRE NUTS WILL NOT BE PERMITTED IN THE TERMINAL CABINETS. ALL WIRING (EXISTING AND NEW) SHALL BE LABELED.
6. PROVIDE A NEW 120 VOLT SURGE PROTECTION DEVICE ON ALL 120 VOLT CIRCUITS SERVING NEW FACP'S AND FAEC'S DITEK OR APPROVED EQUAL.

CONDUCTOR LEGEND

- A - INITIATION DEVICE LOOP - MINIMUM #18 TWISTED SHIELDED PAIR.
- B - STROBE CIRCUIT - MINIMUM #18 AWG. PROVIDE #12 OF HIGHER WHERE REQUIRED FOR VOLTAGE DROP.
- C - SPEAKER CIRCUIT - MINIMUM #18 AWG. PROVIDE #12 OF HIGHER WHERE REQUIRED FOR VOLTAGE DROP.
- D - AUXILIARY CONTROL CIRCUIT - MINIMUM #18 AWG. PROVIDE #12 OF HIGHER WHERE REQUIRED FOR VOLTAGE DROP. * QUANTITY OF AUXILIARY CONTROL CIRCUITS TO BE DETERMINED BASED UPON CONTROLS REQUIRED.

NOTES:

1. EXISTING STROBE HORN WIRING MAY BE REUSED FOR NEW STROBES. ANY REUSED WIRING SHALL BE TESTED AND FREE OF GROUND FAULTS OR SHORT CIRCUITS.
2. EXISTING INITIATION DEVICE LOOP WIRING MAY BE REUSED FOR NEW INITIATION DEVICES. ANY REUSED WIRING SHALL BE TESTED AND FREE OF GROUND FAULTS OR SHORT CIRCUITS.

REVISIONS	DATE

Key Largo School
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Monroe County School District
241 Trumbo Road , Key West, Florida 33040



FIRE ALARM SYSTEMS RISER DIAGRAM

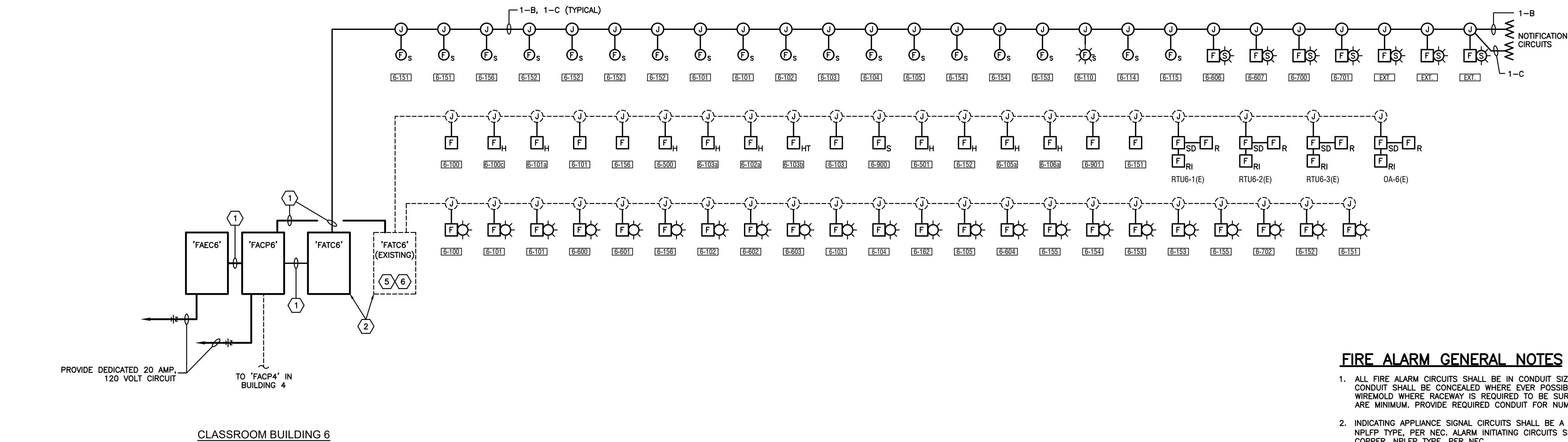
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Florida Engineering License Number 6902

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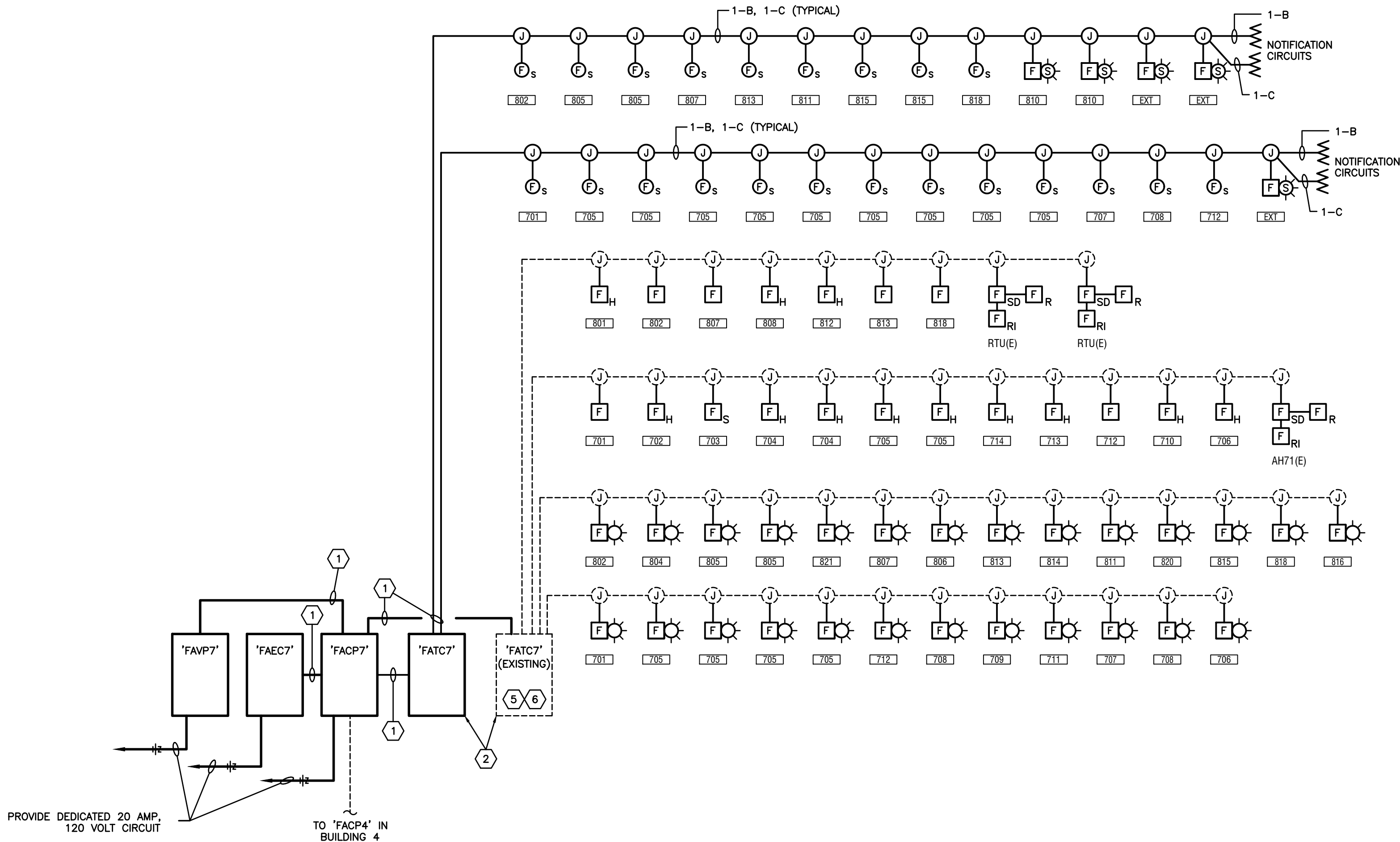
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ROBERT C. ANSTON, P.E. 40858
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CLASSROOM BUILDING 6



GYMNASIUM BUILDING 7 AND 8

FIRE ALARM SYSTEMS RISER DIAGRAM
NOT TO SCALE

FIRE ALARM GENERAL NOTES

1. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT SIZED IN ACCORDANCE WITH NEC. ALL CONDUIT SHALL BE CONCEALED WHERE EVER POSSIBLE. PROVIDE SURFACE MOUNTED WIREMOLD WHERE RACEWAY IS REQUIRED TO BE SURFACE MOUNTED. CONDUIT SIZES SHOWN ARE MINIMUM. PROVIDE REQUIRED CONDUIT FOR NUMBER OF CONDUCTORS REQUIRED.
2. INDICATING APPLIANCE SIGNAL CIRCUITS SHALL BE A MINIMUM #12 AWG STRANDED COPPER, NPLFP TYPE, PER NEC. ALARM INITIATING CIRCUITS SHALL BE A MINIMUM #18 AWG STRANDED COPPER, NPLFP TYPE, PER NEC.
3. QUANTITIES OF CONDUCTORS AND CIRCUITING INDICATED IS BASED ON A SPECIFIC SYSTEM AND MAY BE DIFFERENT DEPENDING ON THE MANUFACTURER UTILIZED. CONTRACTOR IS TO PROVIDE ALL NECESSARY CIRCUITS, WIRE AND CONDUIT TO ACCOMPLISH THE FUNCTIONS INDICATED HERE, ON THE FLOOR PLANS AND IN THE SPECIFICATIONS.
4. SEE FLOOR PLANS FOR ALL THE DEVICES REQUIRED, NOT INDICATED ON THE RISER DIAGRAM.
5. FIRE ALARM CIRCUITS SHALL NOT BE SPLICED INSIDE MANHOLES OR ANYWHERE BELOW GRADE.
6. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

FIRE ALARM RISER NOTES

1. PROVIDE REQUIRED FIRE ALARM CABLING
2. PROVIDE SURGE SUPPRESSION DEVICES IN TERMINAL CABINETS.
3. EXISTING FIRE ALARM BACKBONE RACEWAYS TO EACH BUILDING MAY BE REUSED. REMOVE ALL EXISTING BACKBONE CABLING AND PULL IN ALL NEW CABLE.
4. PROVIDE NEW FIBER OPTIC BACKBONE CABLING IN THE EXISTING CONDUIT. THE NEW FIBER BACKBONE SHALL BE LOOPED IN A RING CONFIGURATION BY LEAVING BUILDING 4 AND ROUTING TO BUILDING 5, THEN LOOPED THROUGH BUILDING 6 AND OUT TO BUILDING 7/8, AND SO FORTH (4 TO 5 TO 6 TO 7/8 TO 10 TO 11 AND BACK TO 4). PROVIDE ONE 6 STRAND, MULTI-MODE, OM4, FIBER TO EACH BUILDING FROM THE MAIN FIRE ALARM CONTROL PANEL FATC. PROVIDE AN ADDITIONAL SEPARATE 4 STRAND, MULTI-MODE, OM4, FIBER OPTIC CABLE FROM EACH BUILDING NEW FACP/FATC BACK TO BUILDING 4 AND LOOPED THRU TO THE NEXT BUILDING AND THEN BACK TO BUILDING 42.
5. REMOVE ALL EXISTING SPLICES, TERMINALS, WIRE NUTS, GROUND CONNECTIONS, AND SURGE PROTECTION DEVICES FROM THE EXISTING TERMINAL CABINETS. IF WIRING IS REUSED, IT SHALL BE TESTED FOR GROUND FAULT AND SHORT CIRCUIT AND SHALL BE COMPLETELY RE-TERMINATED ON NEW WIRING TERMINAL STRIPS. TERMINAL STRIPS SHALL BE MOUNTED INSIDE THE CABINET. WIRE NUTS WILL NOT BE PERMITTED IN THE TERMINAL CABINETS. ALL WIRING (EXISTING AND NEW) SHALL BE LABELED.
6. PROVIDE A NEW 120 VOLT SURGE PROTECTION DEVICE ON ALL 120 VOLT CIRCUITS SERVING NEW FACP'S AND FAEC'S DITEK OR APPROVED EQUAL.

CONDUCTOR LEGEND

- A - INITIATION DEVICE LOOP - MINIMUM #18 TWISTED SHIELDED PAIR.
- B - STROBE CIRCUIT - MINIMUM #18 AWG. PROVIDE #12 OF HIGHER WHERE REQUIRED FOR VOLTAGE DROP.
- C - SPEAKER CIRCUIT - MINIMUM #18 AWG. PROVIDE #12 OF HIGHER WHERE REQUIRED FOR VOLTAGE DROP.
- D - AUXILIARY CONTROL CIRCUIT - MINIMUM #18 AWG. PROVIDE #12 OF HIGHER WHERE REQUIRED FOR VOLTAGE DROP. * QUANTITY OF AUXILIARY CONTROL CIRCUITS TO BE DETERMINED BASED UPON CONTROLS REQUIRED.

NOTES:

1. EXISTING STROBE HORN WIRING MAY BE REUSED FOR NEW STROBES. ANY REUSED WIRING SHALL BE TESTED AND FREE OF GROUND FAULTS OR SHORT CIRCUITS.
2. EXISTING INITIATION DEVICE LOOP WIRING MAY BE REUSED FOR NEW INITIATION DEVICES. ANY REUSED WIRING SHALL BE TESTED AND FREE OF GROUND FAULTS OR SHORT CIRCUITS.

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Key Largo School
Fire Alarm and Intercom
Replacement
Monroe County School District
241 Trumbo Road , Key West, Florida 33040



FIRE ALARM SYSTEMS RISER DIAGRAM

Anston-Greenlees, Inc.
Mechanical & Electrical Consulting Engineers
1115 West Duval Avenue, Tampa, FL 33611, (813) 766-5199
Fax: (813) 766-5198
Florida Engineering License Number 40858

AGI

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JOB NO. 21013
DRAWING NO. E3.00.2

1. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT SIZED IN ACCORDANCE WITH NEC. ALL CONDUIT SHALL BE CONCEALED WHERE EVER POSSIBLE. PROVIDE SURFACE MOUNTED CONDUIT WHERE CONCEALMENT IS NOT POSSIBLE. CONDUIT SHALL BE MINIMUM SIZE SHOWN ARE MINIMUM. PROVIDE REQUIRED CONDUIT FOR NUMBER OF CONDUCTORS REQUIRED.
2. INDICATING APPLIANCE SIGNAL CIRCUITS SHALL BE A MINIMUM #12 AWG STPDED COPPER, NPLP TYPE PER NEC. ALARM INITIATING CIRCUITS SHALL BE A MINIMUM #18 AWG STPDED COPPER, NPLP TYPE, PER NEC.
3. QUANTITIES OF CONDUCTORS AND CIRCUITING INDICATED IS BASED ON A SPECIFIC SYSTEM AND MAY BE DIFFERENT DEPENDING ON THE MANUFACTURER UTILIZED. CONTRACTOR IS TO PROVIDE ALL NECESSARY CIRCUITS, WIRE AND CONDUIT TO ACCOMPLISH THE FUNCTIONS INDICATED HERE, ON THE FLOOR PLANS AND IN THE SPECIFICATIONS.
4. SEE FLOOR PLANS FOR ALL THE DEVICES REQUIRED, NOT INDICATED ON THE RISER DIAGRAM.
5. FIRE ALARM CIRCUITS SHALL NOT BE SPLUCED INSIDE MANHOLES OR ANYWHERE BELOW GRADE.
6. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

- 1 PROVIDE REQUIRED FIRE ALARM CABLING
- 2 PROVIDE SURGE SUPPRESSION DEVICES IN TERMINAL CABINETS.
- 3 EXISTING FIRE ALARM BACKBONE RACEWAYS TO EACH BUILDING MAY BE REUSED. REMOVE ALL EXISTING BACKBONE CABLING AND PULL IN ALL NEW CABLE.
- 4 PROVIDE NEW FIBER OPTIC BACKBONE CABLING IN THE EXISTING CONDUIT. THE NEW FIBER BACKBONE SHALL BE LOADED IN A RING CONFIGURATION BY LEAVING BUILDING 4 AND ROUTING TO BUILDING 5, THEN LOOPED THROU BUILDING 6 AND OUT TO BUILDING 7/8, AND SO FORTH (4, 5 TO 5 TO 6 TO 7/8 TO 10 TO 11 AND BACK TO 4). PROVIDE ONE 6 STRAND, MULTI-MODE, OM4, FIBER TO EACH BUILDING FROM THE MAIN FIRE ALARM CONTROL PANEL FATC. PROVIDE AN ADDITIONAL SEPARATE 4 STRAND, MULTI-MODE, OM4, FIBER OPTIC CABLE FROM EACH BUILDING NEW FACP/FATC BACK TO BUILDING 4 AND LOOPED THRU TO THE NEXT BUILDING AND THEN BACK TO BUILDING 42.
- 5 REMOVE ALL EXISTING SPLICES, TERMINALS, WIRE NUTS, GROUND CONNECTIONS, AND SURGE PROTECTION DEVICES FROM THE EXISTING TERMINAL CABINETS. IF WIRING IS REUSED, IT SHALL BE TESTED FOR GROUND LOOP AND SHORT CIRCUIT AND SHALL BE COMPLETELY RE-TERMINATED ON NEW WIRING TERMINAL STRIPS. TERMINAL STRIPS SHALL BE MOUNTED INSIDE THE CABINET. WIRE NUTS WILL NOT BE PERMITTED IN THE TERMINAL CABINETS. ALL WIRING (EXISTING AND NEW) SHALL BE LABELED.
- 6 PROVIDE A NEW 120 VOLT SURGE PROTECTION DEVICE ON ALL 120 VOLT CIRCUITS SERVING NEW FACP'S AND FAEC'S DITEK OR APPROVED EQUAL.

A	-	INITIATION DEVICE LOOP - MINIMUM #18 TWISTED SHIELDED PAIR.
B	-	STROBE CIRCUIT - MINIMUM #18 AWG. PROVIDE #12 OF HIGHER WHERE REQUIRED FOR VOLTAGE DROP.
C	-	SPEAKER CIRCUIT - MINIMUM #18 AWG. PROVIDE #12 OF HIGHER WHERE REQUIRED FOR VOLTAGE DROP.
D	-	AUXILIARY CONTROL CIRCUIT - MINIMUM #18 AWG. PROVIDE #12 OF HIGHER WHERE REQUIRED FOR VOLTAGE DROP. QUANTITY OF AUXILIARY CONTROL CIRCUITS TO BE DETERMINED BASED UPON CONTROLS REQUIRED.

1. EXISTING STROBE HORN WIRING MAY BE REUSED FOR NEW STROBES. ANY REUSED WIRING SHALL BE TESTED AND FREE OF GROUND FAULTS OR SHORT CIRCUITS.
2. EXISTING INITIATION DEVICE LOOP WIRING MAY BE REUSED FOR NEW INITIATION DEVICES. ANY REUSED WIRING SHALL BE TESTED AND FREE OF GROUND FAULTS OR SHORT CIRCUITS.



FIRE ALARM SYSTEMS RISER DIAGRAM

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FIRE ALARM SYSTEMS RISER DIAGRAM

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Florida Engineering Business Number 6093

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E3.00.3

1. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT SIZED IN ACCORDANCE WITH NEC. ALL CONDUIT SHALL BE CONCEALED WHERE EVER POSSIBLE. PROVIDE SURFACE MOUNTED CONDUIT WHERE RACEWAY IS REQUIRED TO BE SURFACE MOUNTED. CONDUIT SIZES SHOWN ARE MINIMUM. PROVIDE REQUIRED CONDUIT FOR NUMBER OF CONDUCTORS REQUIRED.
2. INDICATING APPLIANCE SIGNAL CIRCUITS SHALL BE A MINIMUM #12 AWG STRANDED COPPER, NPLFP TYPE, PER NEC. ALARM INITIATING CIRCUITS SHALL BE A MINIMUM #18 AWG STRANDED COPPER, NPLFP TYPE, PER NEC.
3. QUANTITIES OF CONDUCTORS AND CIRCUITING INDICATED IS BASED ON A SPECIFIC SYSTEM AND MAY BE DIFFERENT DEPENDING ON THE MANUFACTURER UTILIZED. CONTRACTOR IS TO PROVIDE ALL NECESSARY CIRCUITS, WIRE AND CONDUIT TO ACCOMPLISH THE FUNCTIONS INDICATED HERE, ON THE FLOOR PLANS AND IN THE SPECIFICATIONS.
4. SEE FLOOR PLANS FOR ALL THE DEVICES REQUIRED, NOT INDICATED ON THE RISER DIAGRAM.
5. FIRE ALARM CIRCUITS SHALL NOT BE SPLICED INDEED MANHOLES OR ANYWHERE BELOW GRADE.
6. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

- (1) PROVIDE REQUIRED FIRE ALARM CABLING
- (2) PROVIDE SURGE SUPPRESSION DEVICES IN TERMINAL CABINETS.
- (3) EXISTING FIRE ALARM BACKBONE RACEWAYS TO EACH BUILDING MAY BE REUSED. REMOVE ALL EXISTING BACKBONE CABLING AND PULL IN ALL NEW CABLE.
- (4) PROVIDE NEW FIBER OPTIC BACKBONE CABLING IN THE EXISTING CONDUIT. THE NEW FIBER BACKBONE SHALL BE LOOPED IN A RING CONFIGURATION BY LEAVING BUILDING 4 AND ROUTING TO BUILDING 5, THEN LOOPED THROUGH BUILDING 6 AND OUT TO BUILDING 7/8, AND SO FORTH (4 TO 5 TO 6 TO 7/8 TO 10 TO 11 AND BACK TO 4). PROVIDE ONE 6 STRAND, MULTI-MODE, OM4, FIBER TO EACH BUILDING FROM THE MAIN FIRE ALARM CONTROL PANEL FATC. PROVIDE AN ADDITIONAL SEPARATE 4 STRAND, MULTI-MODE, OM4, FIBER OPTIC CABLE FROM EACH BUILDING NEW FACP/FATC BACK TO BUILDING 4 AND LOOPED THRU TO THE NEXT BUILDING AND THEN BACK TO BUILDING 4,2.
- (5) REMOVE ALL EXISTING SPLICES, TERMINALS, WIRE NUTS, GROUND CONNECTIONS, AND SURGE PROTECTION DEVICES FROM THE EXISTING TERMINAL CABINETS. IF WIRING IS REUSED, IT SHALL BE TESTED FOR GROUND FAULT AND SHORT CIRCUIT AND SHALL BE COMPLETELY RE-TERMINATED ON NEW WIRING TERMINAL STRIPS. TERMINAL STRIPS SHALL BE MOUNTED INSIDE THE CABINET. WIRE NUTS WILL NOT BE PERMITTED IN THE TERMINAL CABINETS. ALL WIRING (EXISTING AND NEW) SHALL BE LABELED.
- (6) PROVIDE A NEW 120 VOLT SURGE PROTECTION DEVICE ON ALL 120 VOLT CIRCUITS SERVING NEW FACP'S AND FAEC'S DITEK OR APPROVED EQUAL.

A - INITIATION DEVICE LOOP - MINIMUM #18 TWISTED SHIELDED PAIR.

B - STROBE CIRCUIT - MINIMUM #18 AWG. PROVIDE #12 OF HIGHER WHERE REQUIRED FOR VOLTAGE DROP.

C - SPEAKER CIRCUIT - MINIMUM #18 AWG. PROVIDE #12 OF HIGHER WHERE REQUIRED FOR VOLTAGE DROP.

D - AUXILIARY CONTROL CIRCUIT - MINIMUM #18 AWG. PROVIDE #12 OF HIGHER WHERE REQUIRED FOR VOLTAGE DROP. QUANTITY OF AUXILIARY CONTROL CIRCUITS TO BE DETERMINED BASED UPON CONTROLS REQUIRED.

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2. EXISTING INTIATION DEVICE LOOP WIRING MAY BE REUSED FOR NEW INTIATION DEVICES. ANY REUSED WIRING SHALL BE TESTED AND FREE OF GROUND FAULTS OR SHORT CIRCUITS.



NOT TO SCALE

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FIRE ALARM SYSTEMS RISER DIAGRAM

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Florida Engineering Business Number 603

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1. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT SIZED IN ACCORDANCE WITH NEC. ALL CONDUIT SHALL BE CONCEALED WHERE EVER POSSIBLE. PROVIDE SURFACE MOUNTED CONDUIT WHERE NECESSARY. CONDUIT SHALL BE MINIMUM #12 AWG COPPER. CONDUIT SIZES SHOWN ARE MINIMUM. PROVIDE REQUIRED CONDUIT FOR NUMBER OF CONDUCTORS REQUIRED.
2. INDICATING APPLIANCE SIGNAL CIRCUITS SHALL BE A MINIMUM #12 AWG STRIPPED, NPLPFF TYPE. PER NEC, ALARM INITIATING CIRCUITS SHALL BE A MINIMUM #18 AWG COPPER CONDUIT, NPLPFF TYPE, PER NEC.
3. QUANTITIES OF CONDUCTORS AND CIRCUITING INDICATED IS BASED ON A SPECIFIC SYSTEM AND MAY BE DIFFERENT DEPENDING ON THE MANUFACTURER UTILIZED. CONTRACTOR IS TO PROVIDE ALL NECESSARY CIRCUITS, WIRE AND CONDUIT TO ACCOMPLISH THE FUNCTIONS INDICATED HERE, ON THE FLOOR PLANS AND IN THE SPECIFICATIONS.
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6. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

- 1 PROVIDE REQUIRED FIRE ALARM CABLING
- 2 PROVIDE SURGE SUPPRESSION DEVICES IN TERMINAL CABINETS.
- 3 EXISTING FIRE ALARM BACKBONE RACEWAYS TO EACH BUILDING MAY BE REUSED. REMOVE ALL EXISTING BACKBONE CABLING AND PULL IN ALL NEW CABLE.
- 4 PROVIDE NEW FIBER OPTIC BACKBONE CABLING IN THE EXISTING CONDUIT. THE NEW FIBER BACKBONE SHALL BE LOOPEO IN A RING CONFIGURATION BY LEAVING BUILDING 4 AND ROUTING TO BUILDING 5, THEN LOOPEO THROUGH BUILDING 6 AND OUT TO BUILDING 7/8, AND SO FORTH (4,4 TO 5 TO 6 TO 7/8 TO 10 TO 11 AND BACK TO 4). PROVIDE ONE 6 STRAND, MULTI-MODE, OM4 FIBER TO EACH BUILDING FROM THE MAIN FIRE ALARM CONTROL PANEL FATC. PROVIDE AN ADDITIONAL SEPARATE 4 STRAND, MULTI-MODE, OM4 FIBER OPTIC CABLE FROM EACH BUILDING NEW FAC'S/FATC BACK TO BUILDING 4 AND LOOPEO THRU TO THE NEXT BUILDING AND THEN BACK TO BUILDING 42.
- 5 REMOVE ALL EXISTING SPLICES, TERMINALS, WIRE NUTS, GROUND CONNECTIONS, AND SURGE PROTECTION DEVICES FROM THE EXISTING TERMINAL CABINETS. IF WIRING IS REUSED, IT SHALL BE TESTED FOR GROUND FAULT AND SHORT CIRCUIT AND SHALL BE COMPLETELY RE-TERMINATED ON NEW WIRING TERMINALS. TERMINAL STRIPS SHALL BE MOUNTED INSIDE THE CABINET. WIRE NUTS WILL NOT BE PERMITTED IN THE TERMINAL CABINETS. ALL WIRING (EXISTING AND NEW) SHALL BE LABELED.
- 6 PROVIDE A NEW 120 VOLT SURGE PROTECTION DEVICE ON ALL 120 VOLT CIRCUITS SERVING NEW FAC'S AND FAC'S DITEK OR APPROVED EQUAL.

A	-	INITIATION DEVICE LOOP - MINIMUM #18 TWISTED SHIELDED PAIR.
B	-	STROBE CIRCUIT - MINIMUM #18 AWG. PROVIDE #12 OF HIGHER WHERE REQUIRED FOR VOLTAGE DROP.
C	-	SPEAKER CIRCUIT - MINIMUM #18 AWG. PROVIDE #12 OF HIGHER WHERE REQUIRED FOR VOLTAGE DROP.
D	-	AUXILIARY CONTROL CIRCUIT - MINIMUM #18 AWG. PROVIDE #12 OF HIGHER WHERE REQUIRED FOR VOLTAGE DROP. QUANTITY OF AUXILIARY CONTROL CIRCUITS TO BE DETERMINED BASED UPON CONTROLS REQUIRED.

1. EXISTING STROBE HORN WIRING MAY BE REUSED FOR NEW STROBES. ANY REUSED WIRING SHALL BE TESTED AND FREE OF GROUND FAULTS OR SHORT CIRCUITS.
2. EXISTING INTIMATION DEVICE LOOP WIRING MAY BE REUSED FOR NEW INTIMATION DEVICES. ANY REUSED WIRING SHALL BE TESTED AND FREE OF GROUND FAULTS OR SHORT CIRCUITS.



NOT TO SCALE

[illegible]

**BUILDING BRIDGES
TO SUCCESS**

FIRE ALARM SYSTEMS RISER DIAGRAM

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ROBERT C. ANSTON, P.E. 40858
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1. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT SIZED IN ACCORDANCE WITH NEC. ALL CONDUIT SHALL BE CONCEALED WHERE EVER POSSIBLE. PROVIDE SURFACE MOUNTED CONDUIT WHERE NECESSARY. WHERE RACEWAY IS REQUIRED TO BE SURFACE MOUNTED, CONDUIT SIZES SHALL BE AS SPECIFIED. PROVIDE MINIMUM CONDUIT SIZES WHERE SPECIFIED. CONDUIT SIZES SHOWN ARE MINIMUM. PROVIDE REQUIRED CONDUIT FOR NUMBER OF CONDUCTORS REQUIRED.
2. INDICATING APPLIANCE SIGNAL CIRCUITS SHALL BE A MINIMUM #12 AWG STRANDED COPPER. NPLFP TYPE PER NEC. ALARM INITIATING CIRCUITS SHALL BE A MINIMUM #18 AWG STRANDED COPPER, NPLFP TYPE, PER NEC.
3. QUANTITIES OF CONDUCTORS AND CIRCUITING INDICATED IS BASED ON A SPECIFIC SYSTEM AND MAY BE DIFFERENT DEPENDING ON THE MANUFACTURER UTILIZED. CONTRACTOR IS TO PROVIDE ALL NECESSARY CIRCUITS, WIRE AND CONDUIT TO ACCOMPLISH THE FUNCTIONS INDICATED HERE, ON THE FLOOR PLANS AND IN THE SPECIFICATIONS.
4. SEE FLOOR PLANS FOR ALL THE DEVICES REQUIRED, NOT INDICATED ON THE RISER DIAGRAM.
5. FIRE ALARM CIRCUITS SHALL NOT BE SPLICED INSIDE MANHOLES OR ANYWHERE BELOW GRADE.
6. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

- 1 PROVIDE REQUIRED FIRE ALARM CABLING
- 2 PROVIDE SURGE SUPPRESSION DEVICES IN TERMINAL CABINETS.
- 3 EXISTING FIRE ALARM BACKBONE RACEWAYS TO EACH BUILDING MAY BE REUSED. REMOVE ALL EXISTING BACKBONE CABLING AND PULL IN ALL NEW CABLE.
- 4 PROVIDE NEW FIBER OPTIC BACKBONE CABLING IN THE EXISTING CONDUIT. THE NEW FIBER BACKBONE SHALL BE LOOPED IN A RING CONFIGURATION BY LEAVING BUILDING 4 AND ROUTING TO BUILDING 5, THEN LOOPED THROUGH BUILDING 6 AND OUT TO BUILDING 7/8, AND SO FORTH (4, 5 TO 5 TO 6 TO 7/8 TO 10 TO 11 AND BACK TO 4). PROVIDE ONE 6 STRAND, MULTI-MODE, OM4, FIBER TO EACH BUILDING FROM THE MAIN FIRE ALARM CONTROL PANEL FATC. PROVIDE AN ADDITIONAL SEPARATE 4 STRAND, MULTI-MODE, OM4, FIBER OPTIC CABLE FROM EACH BUILDING TO THE FIRE FATC/STC BUILDING 4 BUILDING 4 AND LOOPED THRU TO THE NEXT BUILDING AND THEN BACK TO BUILDING 42.
- 5 REMOVE ALL EXISTING SPLICES, TERMINALS, WIRE NUTS, GROUND CONNECTIONS, AND SURGE PROTECTION DEVICES FROM THE EXISTING TERMINAL CABINETS. IF WIRING IS REUSED, IT SHALL BE TESTED FOR GROUND FAULT AND SHORT CIRCUIT AND SHALL BE COMPLETELY RE-TERMINATED ON NEW WIRING TERMINAL STRIPS. TERMINAL STRIPS SHALL BE MOUNTED INSIDE THE CABINET. WIRE NUTS WILL NOT BE PERMITTED IN THE TERMINAL CABINETS. ALL WIRING (EXISTING AND NEW) SHALL BE LABELED.
- 6 PROVIDE A NEW 120 VOLT SURGE PROTECTION DEVICE ON ALL 120 VOLT CIRCUITS SERVING NEW FACPS' AND FAC2S DITEK OR APPROVED EQUAL.

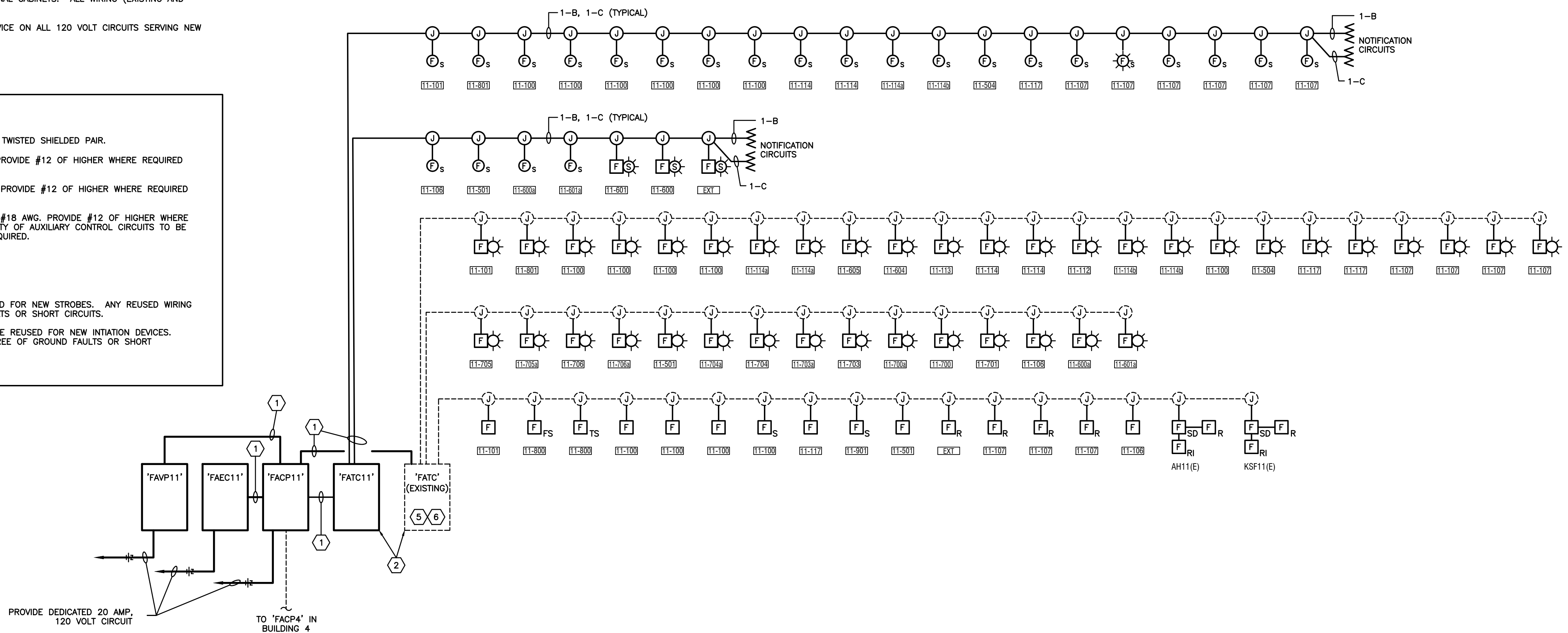
A - INITIATION DEVICE LOOP - MINIMUM #18 TWISTED SHIELDED PAIR.

B - STROBE CIRCUIT - MINIMUM #18 AWG. PROVIDE #12 OF HIGHER WHERE REQUIRED FOR VOLTAGE DROP.

C - SPEAKER CIRCUIT - MINIMUM #18 AWG. PROVIDE #12 OF HIGHER WHERE REQUIRED FOR VOLTAGE DROP.

D - AUXILIARY CONTROL CIRCUIT - MINIMUM #18 AWG. PROVIDE #12 OF HIGHER WHERE REQUIRED FOR VOLTAGE DROP. * QUANTITY OF AUXILIARY CONTROL CIRCUITS TO BE DETERMINED BASED UPON CONTROLS REQUIRED.

1. EXISTING STROBE HORN WIRING MAY BE REUSED FOR NEW STROBES. ANY REUSED WIRING SHALL BE TESTED AND FREE OF GROUND FAULTS OR SHORT CIRCUITS.
2. EXISTING INITIATION DEVICE LOOP WIRING MAY BE REUSED FOR NEW INITIATION DEVICES. ANY REUSED WIRING SHALL BE TESTED AND FREE OF GROUND FAULTS OR SHORT CIRCUITS.



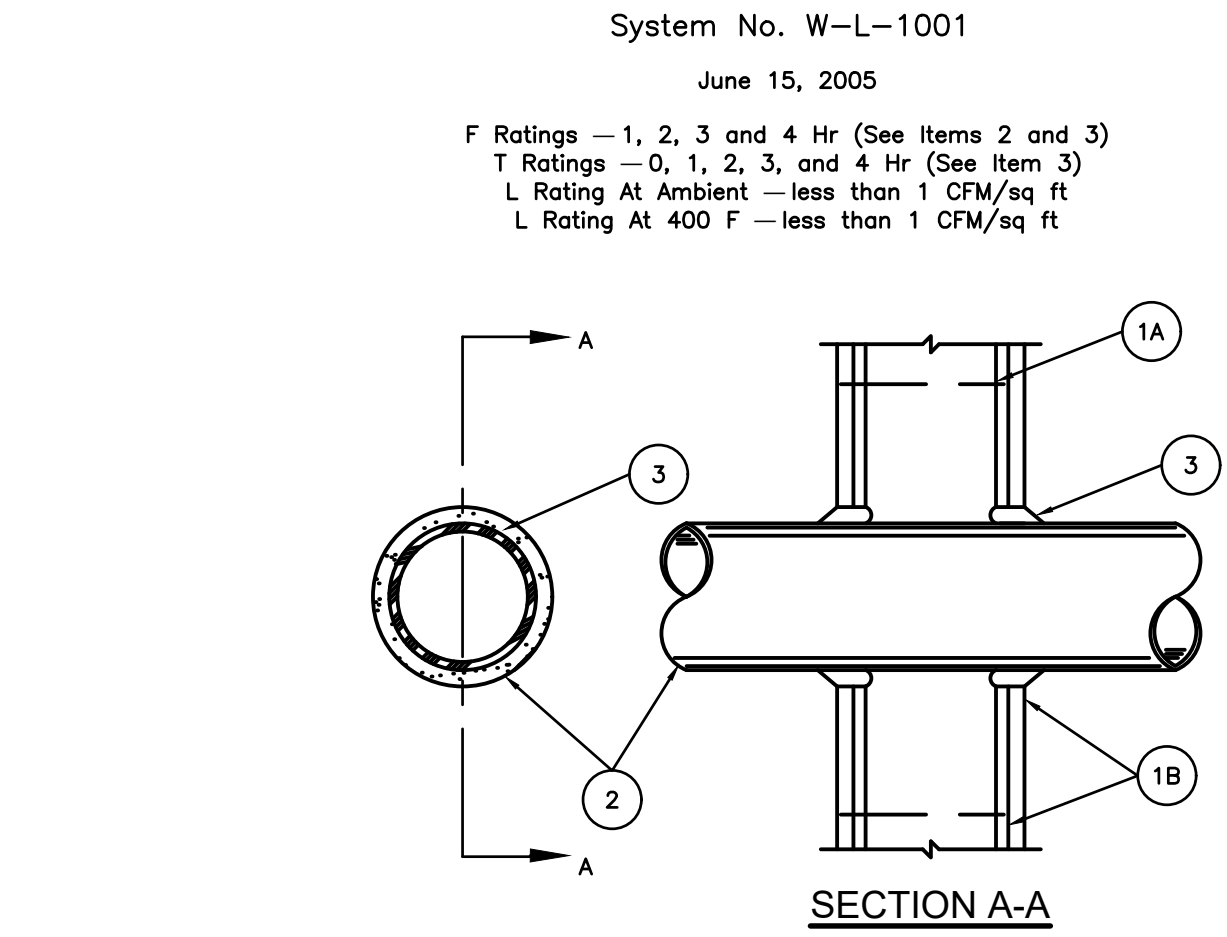
FIRE ALARM SYSTEMS RISER DIAGRAM
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[illegible]

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FIRE-RATED WALL PENETRATION DETAIL FOR PIPE OR CONDUIT
NOT TO SCALE

1. WALL ASSEMBLY — THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

- A. STUDS — WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 H FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC WITH NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. (92 MM) WIDE BY 1-3/8 IN. (35 MM) DEEP CHANNELS SPACED MAX 24 IN. (610 MM) OC.

- B. GYPSUM BOARD* — NOM 1/2 OR 5/8 IN.
(13 OR 16 MM) THICK, 4 FT. (122 CM) WIDE WITH
SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD
TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE
AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE
INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE
RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 26 IN.
(660 MM).

2. THROUGH-PENETRANT — ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN OF 0 IN / (0 MM). (POINT CONTACT) TO MAX 2 IN. (51 MM) PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

- A. STEEL PIPE — NOM 24 IN. (610 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.

- B. IRON PIPE — NOM 24 IN. (610 MM) DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN (305 MM) DIAM (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.

- C. CONDUIT — NOM 6 IN. (152 MM) DIAM (OR SMALLER) STEEL CONDUIT OR NOM 4 IN (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING

- D. COPPER TUBING — NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING

- E. COPPER PIPE — NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

- F. THROUGH PENETRATING PRODUCT* — FLEXIBLE METAL PIPING THE FOLLOWING TYPES OF STEEL FLEXIBLE METAL GAS PIPING MAY BE USED:

1. NOM 2 IN. (51 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

OMEGA FLEX INC

2. NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

GASTITE, DIV OF TITEFLEX

3. NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

WARD MFG L L C

3. FILL, VOID OR CAVITY MATERIAL* — CAULK OR SEALANT — MIN 5/8", 1-1/4", 1-7/8" AND 2-1/2" IN (16, 32, 48 AND 64 MM) THICKNESS OF CAULK FOR 1, 2, 3 AND 4 INCHES OF PENETRATION. CAULKING APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL, MIN 1/4" IN (6 MM) DIAM BEAD OF CAULK APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT CONTACT LOCATION ON BOTH SIDES OF WALL. THE HOURLY FIRE RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

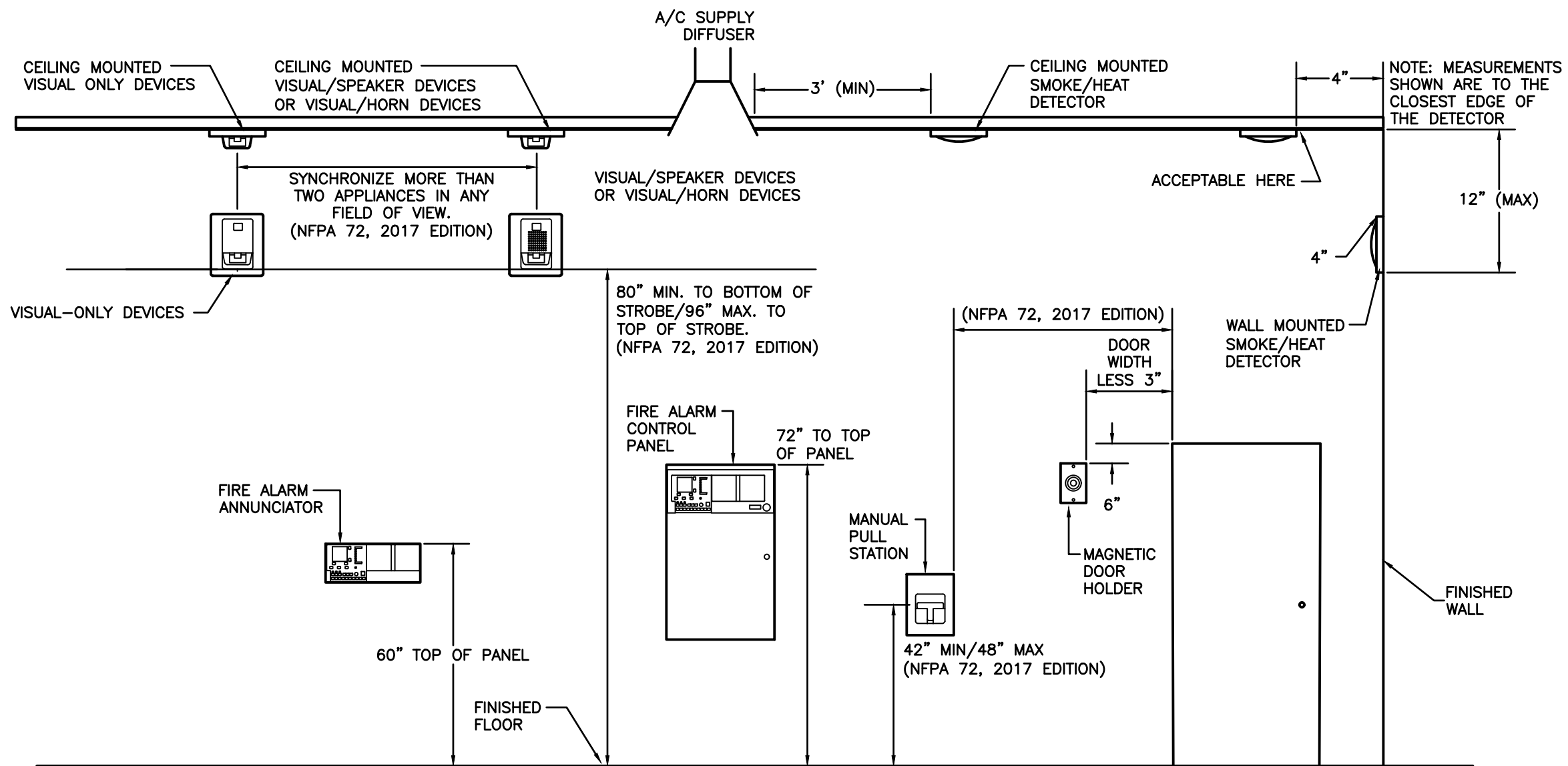
MAX PIPE OR CONDUIT DIAM. IN (MM)	F RATING HR	T RATING HR
1 (25)	1 or 2	0+, 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

+WHEN COPPER PIPE IS USED, T RATING IS 0 H.

3M COMPANY — CP 25WB+ OR FB-3000 WT.

* INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

LAST UPDATED ON 2005-06-15



DEVICE MOUNTING HEIGHTS DETAIL

NOT TO SCALE

[illegible]

**Key Largo School
Fire Alarm and Intercom
Replacement
Monroe County School District
241 Trumbo Road, Key West, Florida 33040**



FIRE ALARM DETAILS

AGI
Anston-Greenlees, Inc.
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INTERCOM SYSTEM SCOPE OF WORK

- REMOVE AND REPLACE EXISTING RAULAND CALL-IN SWITCH WITH NEW BOGEN MODEL CA15C CALL-IN SWITCH (QUANTITY 90). UTILIZE EXISTING WIRING. ANY UNUSED SWITCHES SHALL BE TURNED OVER TO THE OWNER FOR SPARES.
- REMOVE EXISTING INTERCOM TERMINAL BLOCKS. PROVIDE NEW 24 CHANNEL ANALOG--TO-DIGITAL STATION BRIDGE (ASB), NYQUIST NQ-ET7303 (QUANTITY 15). ANY UNUSED BRIDGES SHALL BE TURNED OVER TO THE OWNER FOR SPARES.
- REMOVE AND REPLACE EXISTING EXTERIOR SPEAKERS WITH NEW BOGEN MODEL B0730A 8"-DIRECTIONAL, REINFRANT HORN LOUSPEAKER. UTILIZE EXISTING WIRING TO CONNECT SPEAKERS TO NEW INTERCOM SYSTEM. PROVIDE ADDITIONAL NEW BOGEN LOUSPEAKER WHERE INDICATED ON PLAN. REFER TO PLANS FOR QUANTITY AND LOCATIONS.
- PROVIDE BOGEN MODEL BCMA--3R0-1100-1 RACK MOUNTED MASTER CLOCK IN BUILDING 5 MDF.
- PROVIDE ALL NEW BATTERY OPERATED, WIRELESS COMMUNICATION TYPE CLOCKS IN ALL LOCATIONS THAT HAVE AN EXISTING CLOCK NOW. MOUNT THE CLOCK ADJACENT TO THE EXISTING SPEAKER WHERE THE SPEAKER (AND OLD CLOCK) ARE WALL MOUNTED. MOUNT THE CLOCK IN THE BACK OF THE CLASSROOM (NOT TEACHING WALL) WHERE THE SPEAKER IS CEILING MOUNTED. ALL MOUNTING LOCATIONS SHALL BE VERIFIED WITH THE OWNER PRIOR TO MOUNTING. PROVIDE 160 NEW CLOCKS. ANY UNUSED CLOCKS SHALL BE TURNED OVER TO THE OWNER FOR SPARES. NEW CLOCKS SHALL BE BOGEN MODEL BCMA--4BS-12R-0.



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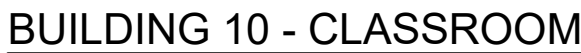
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INTERCOM SYSTEMS DEMOLITION RISER DIAGRAM

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**Key Largo School
Fire Alarm and Intercom
Replacement**

Monroe County School District
241 Trumbo Road, Key West, Florida 33040



INTERCOM SYSTEMS DEMOLITION RISER DIAGRAM

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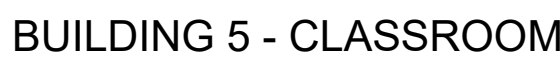
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1. ALL EXISTING INTERCOM CABLING THAT IS REUSED AND SHALL BE TESTED AND TONED OUT AND VERIFIED TO AS TO THE STATION LOCATION AND OPERATION.
2. ALL EXISTING INTERCOM CABLING SHALL BE LABELED WITH THE ROOM NUMBER, EXTERIOR SPEAKER ZONE, INTERIOR PAGING ZONE, ETC. PROVIDE LABELING OF ALL CABLES AT EACH ASB.
3. ALL INTERCOM CAT 6 WIRING SHALL BE LABELED AT THE PATCH PANEL AS TO THE ASB IT IS CONNECTED TO. ALSO, LABEL EACH INTERCOM PORT ON EACH PATCH PANEL FOR THE INTERCOM PATCH CORD TO THE SWITCH.



- 1 PROVIDE NEW BATTERY OPERATED WIRELESS CLOCK. MOUNT ADJACENT TO EXISTING SPEAKER WHEN EXISTING SPEAKER IS WALL MOUNTED. MOUNT ON BACK (NOT TEACHING WALL) WHEN SPEAKER IS CEILING MOUNTED. VERIFY LOCATION WITH OWNER PRIOR TO INSTALLATION.
- 2 PROVIDE NEW 24 CHANNEL ANALOG-TO-DIGITAL STATION BRIDGE (ASB), NYQUIST NQ-E7030. PLUG POWER FOR ASB'S INTO NEW OR EXISTING UPS.
- 3 PROVIDE ONE (1) CAT-6 CABLE FROM EXISTING CAT-6 PATCH PANEL TO EACH ASB.
- 4 PROVIDE NEW INTERCOM CABLING TO NEW EXTERIOR BUILDING MOUNTED SPEAKERS.
- 5 PROVIDE NEW BOGEN CA15C ANALOG CALL-IN SWITCH TO REPLACE THE EXISTING RAULAND CALL SWITCHES.
- 6 REMOVE AND REPLACE EXISTING EXTERIOR SPEAKER WITH NEW BOGEN BI-DIRECTIONAL HORN LOUDSPEAKER. UTILIZE EXISTING CABLE.
- 7 PROVIDE NEW BOGEN BI-DIRECTIONAL HORN LOUDSPEAKER WITH NEW INTERCOM CABLING.
- 8 PROVIDE NEW FLOOR MOUNTED UPS.
- 9 PROVIDE ONE (1) CAT-6 CABLE FROM EXISTING POE SWITCH TO ASB.
- 10 PROVIDE SURGE PROTECTION DEVICE ON EACH NEW AND EXISTING EXTERIOR SPEAKER CIRCUIT.
- 11 PROVIDE ALL CABLING, CONNECTIONS, AND PROGRAMMING TO CONNECT THE EXISTING INTERCOM AND IP (VOIP) PHONE SYSTEM INTO THE NEW INTERCOM SYSTEM. ALL OFFICE HANDSETS SHALL BE PROVIDED WITH THE ABILITY TO MAKE INTERCOM CALLS.



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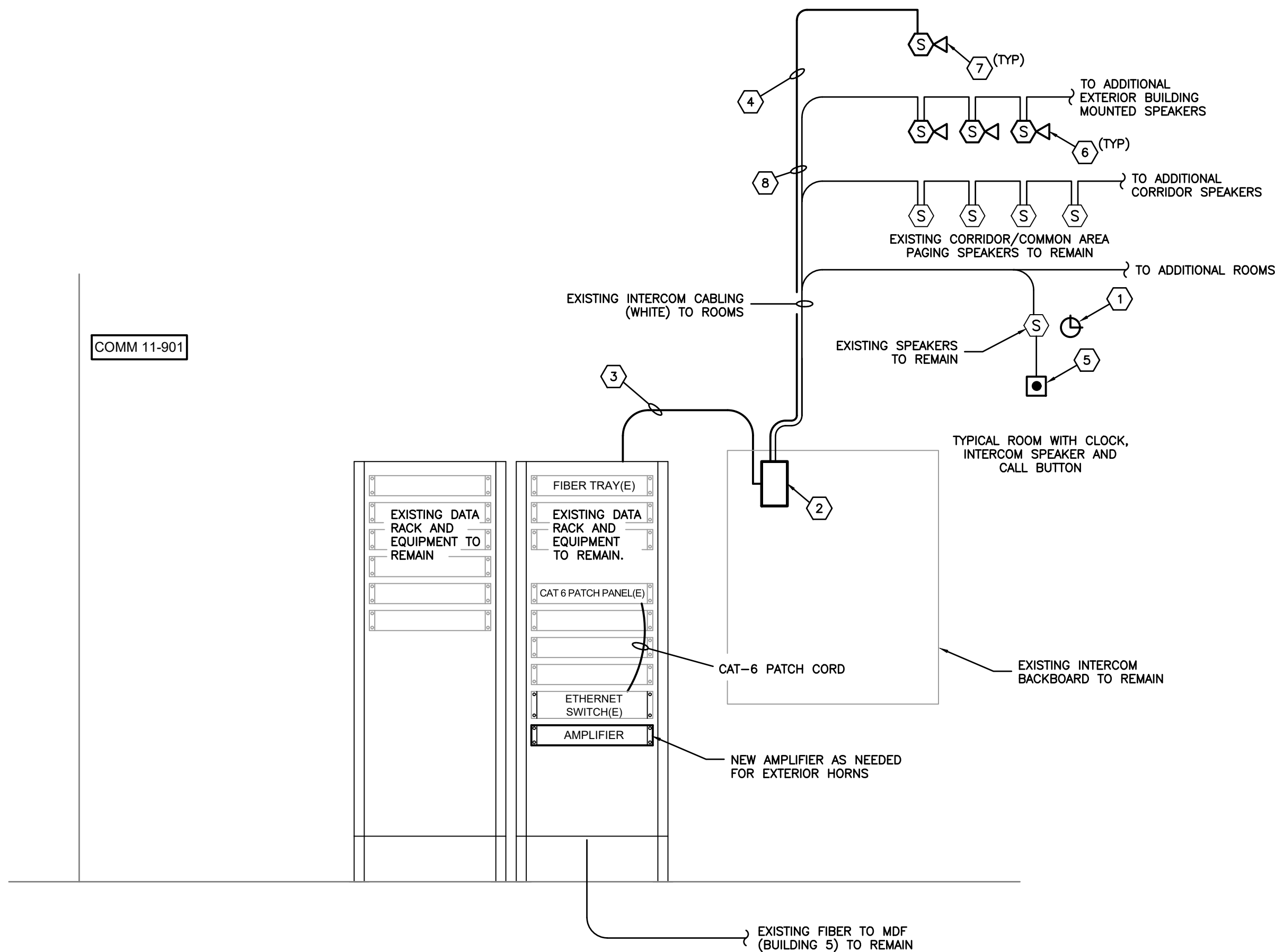
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INTERCOM RISER NOTES

- 1 PROVIDE NEW BATTERY OPERATED WIRELESS CLOCK. MOUNT ADJACENT TO EXISTING SPEAKER WHEN EXISTING SPEAKER IS WALL MOUNTED. MOUNT ON BACK (NOT TEACHING WALL) WHEN SPEAKER IS CEILING MOUNTED. VERIFY LOCATION WITH OWNER PRIOR TO INSTALLATION.
- 2 PROVIDE NEW 24 CHANNEL ANALOG-TO-DIGITAL STATION BRIDGE (ASB), NYQUIST NQ-E7030.
- 3 PROVIDE ONE (1) CAT-6 CABLE FROM EXISTING CAT-6 PATCH PANEL TO EACH ASB.
- 4 PROVIDE NEW INTERCOM CABLING TO NEW EXTERIOR BUILDING MOUNTED SPEAKERS.
- 5 PROVIDE NEW BOGEN CA15C ANALOG CALL-IN SWITCH TO REPLACE THE EXISTING RAULAND CALL SWITCHES.
- 6 REMOVE AND REPLACE EXISTING EXTERIOR SPEAKER WITH NEW BOGEN BI-DIRECTIONAL HORN LOUDSPEAKER. UTILIZE EXISTING CABLE.
- 7 PROVIDE NEW BOGEN BI-DIRECTIONAL HORN LOUDSPEAKER WITH NEW INTERCOM CABLING.
- 8 PROVIDE SURGE PROTECTION DEVICE ON EACH NEW AND EXISTING EXTERIOR SPEAKER CIRCUIT.

GENERAL NOTES

1. ALL EXISTING INTERCOM CABLING THAT IS REUSED AND SHALL BE TESTED AND TONED OUT AND VERIFIED TO AS TO THE STATION LOCATION AND OPERATION.
2. ALL EXISTING INTERCOM CABLING SHALL BE LABELED WITH THE ROOM NUMBER, EXTERIOR SPEAKER ZONE, INTERIOR PAGING ZONE, ETC. PROVIDE LABELING OF ALL CABLES AT EACH ASB.
3. ALL INTERCOM CAT 6 WIRING SHALL BE LABELED AT THE PATCH PANEL AS TO THE ASB IT IS CONNECTED TO. ALSO LABEL EACH INTERCOM PORT ON EACH PATCH PANEL FOR THE INTERCOM PATCH CORD TO THE SWITCH.



BUILDING 11 - MULTIPURPOSE / DINING

THIRD FLOOR

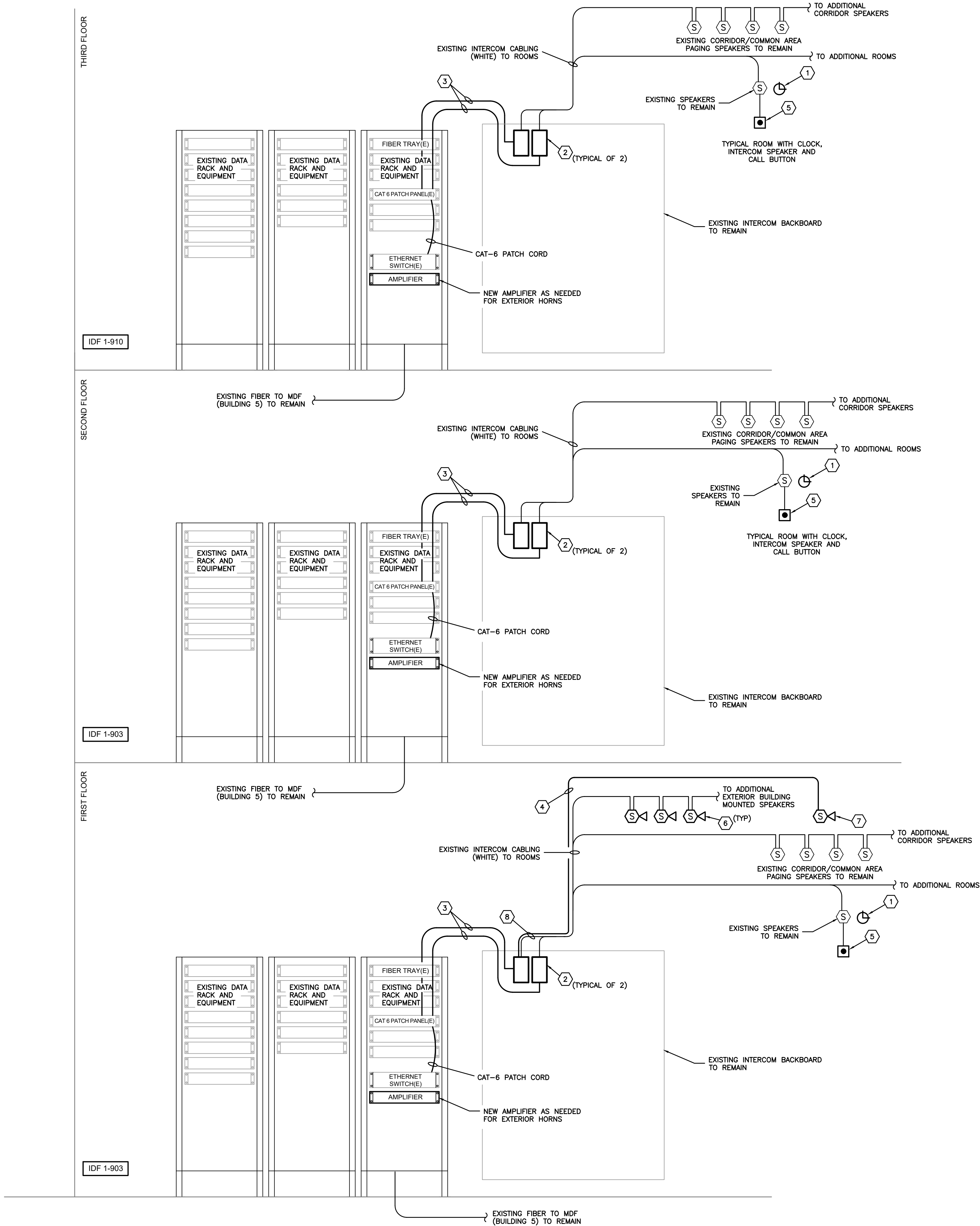
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SECOND FLOOR

IDF 1-903

FIRST FLOOR

IDF 1-903



BUILDING 10 - CLASSROOM

INTERCOM SYSTEMS RISER DIAGRAM

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INTERCOM SYSTEMS RISER DIAGRAM

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