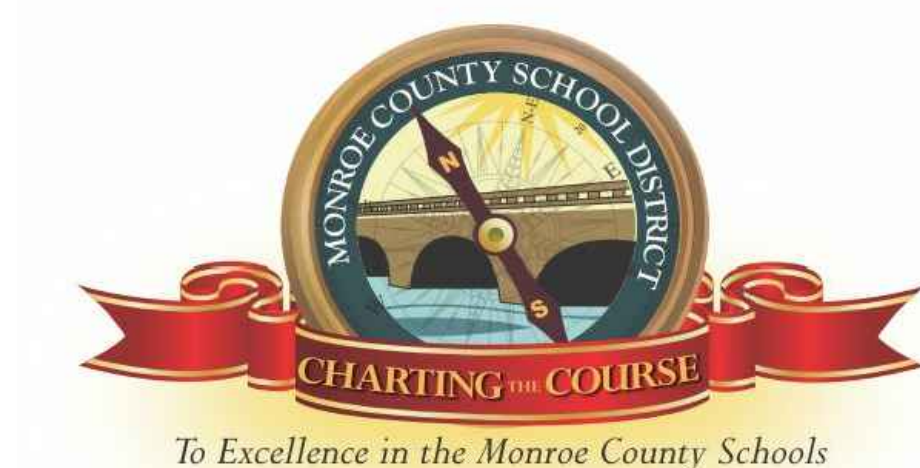


Poinciana Elementary School Replace Intercom System

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



SCHOOL BOARD MEMBERS
District 1 - Bobby Highsmith
District 2 - Andy Griffiths, Vice Chair
District 3 - Mindy Conn
District 4 - John Dick, Chair
District 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

November 30, 2022
CONSTRUCTION DOCUMENTS

DRAWING INDEX

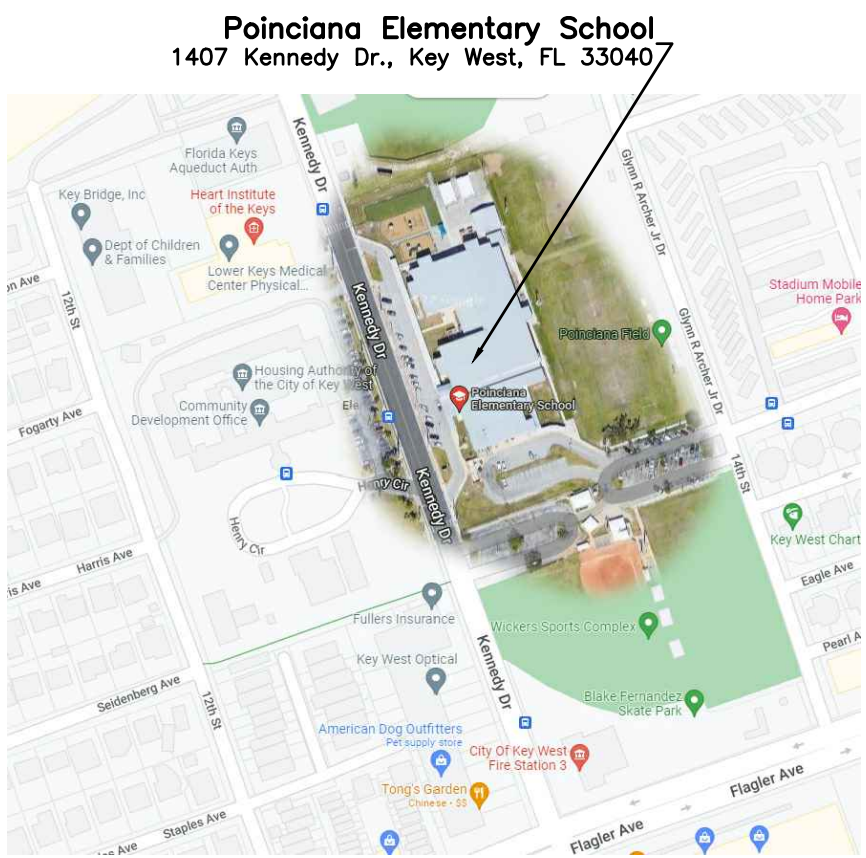
NUMBER	TITLE
—	COVER SHEET
E0.1	ELECTRICAL LEGEND AND GENERAL NOTES
E1.1A	INTERCOM PLAN — AREA A 1ST FLOOR
E1.1B	INTERCOM PLAN — AREA B 1ST FLOOR
E1.1C	INTERCOM PLAN — AREA C 1ST FLOOR
E1.1D	INTERCOM PLAN — AREA D 1ST FLOOR
E1.2A	INTERCOM PLAN — AREA A 2ND FLOOR
E1.2B	INTERCOM PLAN — AREA B 2ND FLOOR
E1.2C	INTERCOM PLANS — AREA C 2ND FLOOR
E2.1	INTERCOM SYSTEMS RISER DIAGRAMS AND DETAILS

Poinciana Elementary School
Replace Intercom System
Monroe County School District
241 Trumbo Road , Key West, Florida 33040



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

AGI





LOCATION OF SITE

DATE
11.30.2022





JOB NO.
22022

Drawing File: i:\22xxx\220222\001\220222e01.dwg 22022e01
Plotted by: tim Nov 30, 2022 - 11:15am

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 (EXISTING DEVICES)		
SYMBOL	DESCRIPTION	MOUNTING
	EXISTING COMMUNICATIONS SPEAKER	CEILING MOUNTED
	EXISTING COMMUNICATIONS SPEAKER	WALL MOUNTED

THIS IS A STANDARD LEGEND. NOT ALL DEVICES SHOWN ARE USED IN THESE DOCUMENTS. ALL DEVICES SHOWN AS EXISTING, ARE TO REMAIN UNLESS OTHERWISE NOTED

ELECTRICAL LEGEND		
SYMBOL	DESCRIPTION	MOUNTING
	IP BASED, WIRELESS, BATTERY OPERATED CLOCK	WALL MOUNTED AT HEIGHT TO MATCH EXISTING
	EXTERIOR TYPE COMMUNICATIONS SYSTEM HORN SPEAKER WP = WITH WEATHERPROOF BOX.	WALL MOUNTED AT HEIGHT TO MATCH EXISTING
	INTERCOM/COMMUNICATIONS SYSTEM CALL STATION -- PROVIDE 4" SQUARE x 2.5" DEEP BOX AND 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE OR REUSE EXISTING BOX	FLUSH MOUNTED IN WALL, OR SURFACE MOUNT WITH WIREMOLD AS NOTED AT EXISTING LOCATION
	INTERCOM ADMINISTRATION PHONE	DESK 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, FIRE ALARM 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
 - FIRE ALARM SYSTEMS
- 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 INTERCOM 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 INTERCOM SYSTEM SHALL REMAIN OPERATIONAL WHEN THE CAMPUS IS OCCUPIED UNTIL THE NEW SYSTEMS ARE OPERATIONAL. THIS MAY REQUIRE OPERATING TWO SYSTEMS SIMULTANEOUSLY (TEMPORARILY) AT THE CONTRACTOR'S DISCRETION.
- SPARE PARTS: PROVIDE FIVE (5) ADDITIONAL CLOCKS, INCLUDING MOUNTING AS DIRECTED BY THE OWNER. UNUSED CLOCKS SHALL BE TURNED OVER TO THE OWNER FOR SPARE PARTS. PROVIDE ONE (1) SPARE ASB IN ADDITION TO THE QUANTITY REQUIRED FOR THE PROJECT AND TURN IT OVER TO THE OWNER FOR SPARE PARTS. PROVIDE THREE (3) NEW CALL BUTTONS IN ADDITION TO THE QUANTITY REQUIRED FOR THE PROJECT AND TURN IT OVER TO THE OWNER FOR SPARE PARTS.
- SEE SPECIFICATIONS FOR MORE REQUIREMENTS.

ELECTRICAL LEGEND AND GENERAL NOTES

Poinciana Elementary School
Replace Intercom System
Monroe County School District
241 Trumbo Road - Key West, Florida 33040

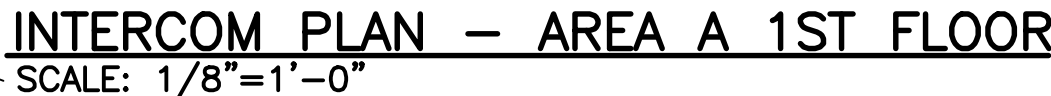


AGI
Anston-Greenlees, Inc.
Mechanical & Electrical Consulting Engineers
1015 West Oakdale Avenue, Tampa, FL 33612, 813.817.1965 x100
www.anston-greenlees.com
Florida Engineering License Number 6002

DRAWN
BMC
CHECKED
RCA
DATE
11.30.2022
SCALE
AS NOTED
JOB NO.
22022
DRAWING NO.
E0.1

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

dwg 22022e11A



1. EXISTING INTERIOR SPEAKERS TO REMAIN.
2. EXISTING EXTERIOR SPEAKERS TO BE REMOVED AND REPLACED IN SAME LOCATION.
3. EXISTING CALL BUTTONS TO BE REMOVED AND REPLACED IN SAME LOCATION.
4. EXISTING CLOCKS TO BE REMOVED AND REPLACED IN SAME LOCATION.

① PROVIDE A NEW EXTERIOR SPEAKER IN THIS NEW LOCATION. PROVIDE A WEATHER PROOF, FS TYPE, ALUMINUM BOX, WITH ALUMINUM RACEWAY TO PENETRATE THE EXTERIOR WALL. MAKE THE PENETRATION WATERTIGHT. WIRING SHALL BE FREE-WIRED ABOVE ANY EXPOSED STRUCTURE AND ABOVE THE ACOUSTICAL CEILINGS. SUPPORT THE WIRING IN ACCORDANCE WITH THE SPECIFICATIONS. ROUTE THE WIRING BACK TO THE INTERCOM CABINET IN ROOM 1-113b.



REVISIONS

DATE _____

Poinciana Elementary School

Replace Intercom System

Monroe County School District

241 Trumbo Road , Key West, Florida 33040



**BUILDING BRIDGES
TO SUCCESS**

INTERCOM PLAN - AREA A 1ST FLOOR

AGI

Anston-Greenlees, Inc.
Mechanical & Electrical Consulting Engineers
1315 West Fletcher Avenue, Tampa, FL 33612 Tel(813)965-1919
FAX (813)965-1919

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

DRAWN

CHECKED

DATE _____

SCALE

JOB NO.

DRAWING NO.

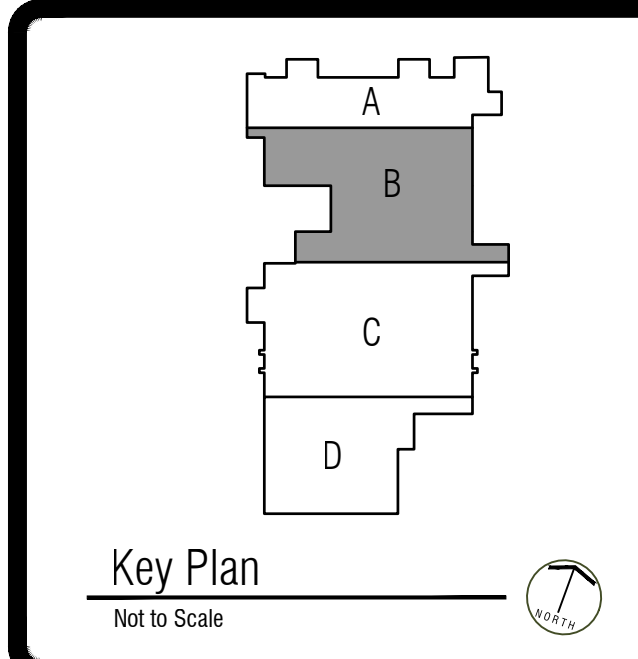
E1.1A

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

Drawing File: I:\22xxx\22022.001\22022e11x.dwg 22022e11B
Plotted by: Tim Nov 30, 2022 - 11:15am

GENERAL NOTES

1. EXISTING INTERIOR SPEAKERS TO REMAIN.
2. EXISTING EXTERIOR SPEAKERS TO BE REMOVED AND REPLACED IN SAME LOCATION.
3. EXISTING CALL BUTTONS TO BE REMOVED AND REPLACED IN SAME LOCATION.
4. EXISTING CLOCKS TO BE REMOVED AND REPLACED IN SAME LOCATION.

[illegible]

Poinciana Elementary School
Replace Intercom System

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



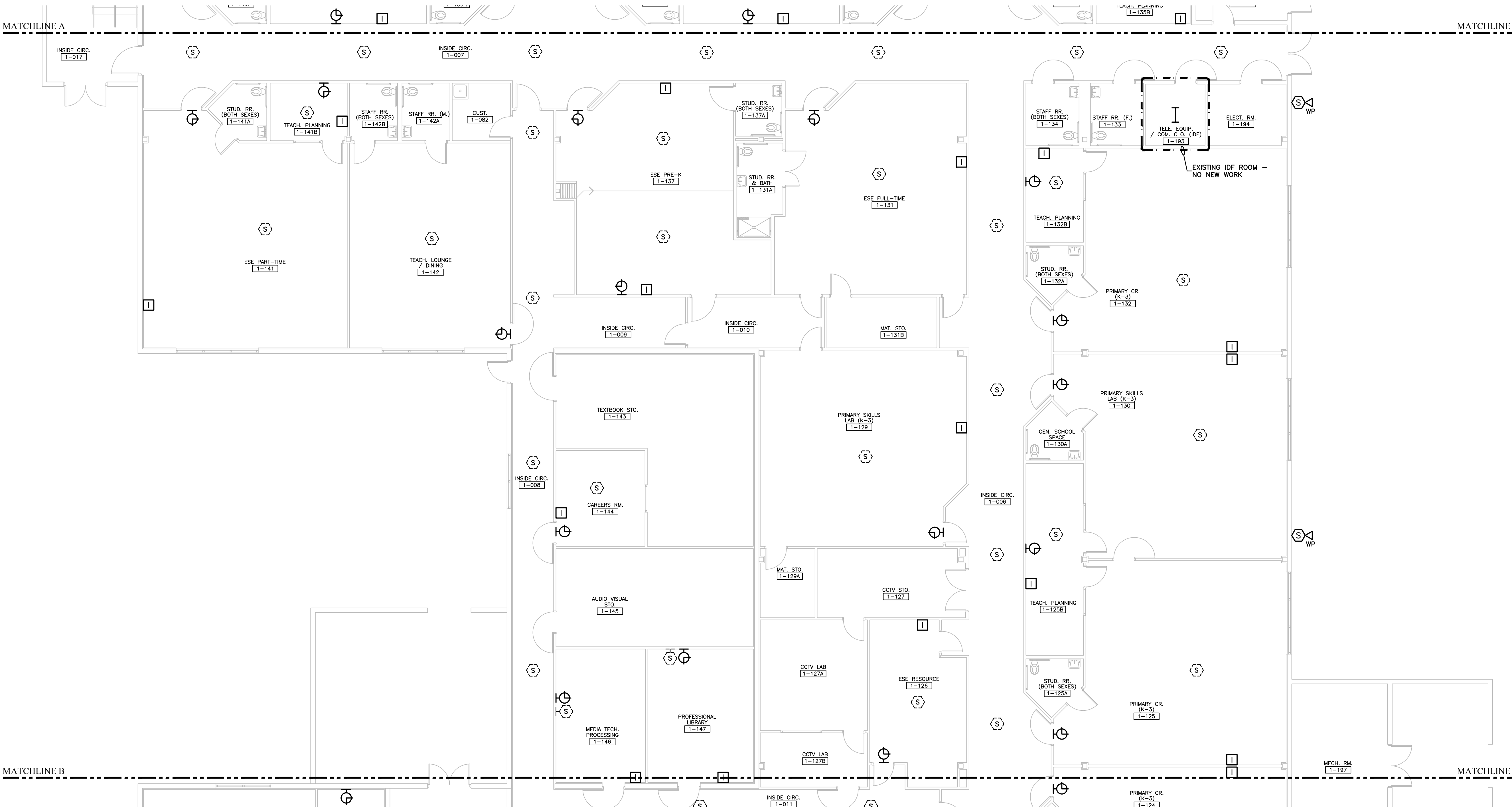
INTERCOM PLAN - AREA B 1ST FLOOR


AGI
Anston-Greenlees, Inc.
Mechanical & Electrical Consulting Engineers
1315 West Fletcher Avenue, Tampa, FL 33612 Tel: (813) 665-1919
Email: AGI@agi-engineers.com [HTTP://www.agi-engineers.com](http://www.agi-engineers.com)
Florida Engineering Business Number 001

DRAWN
BMC
CHECKED
RCA
DATE
11.30.2022
SCALE
AS NOTED
JOB NO.
22022
DRAWING NO.

E1.1B

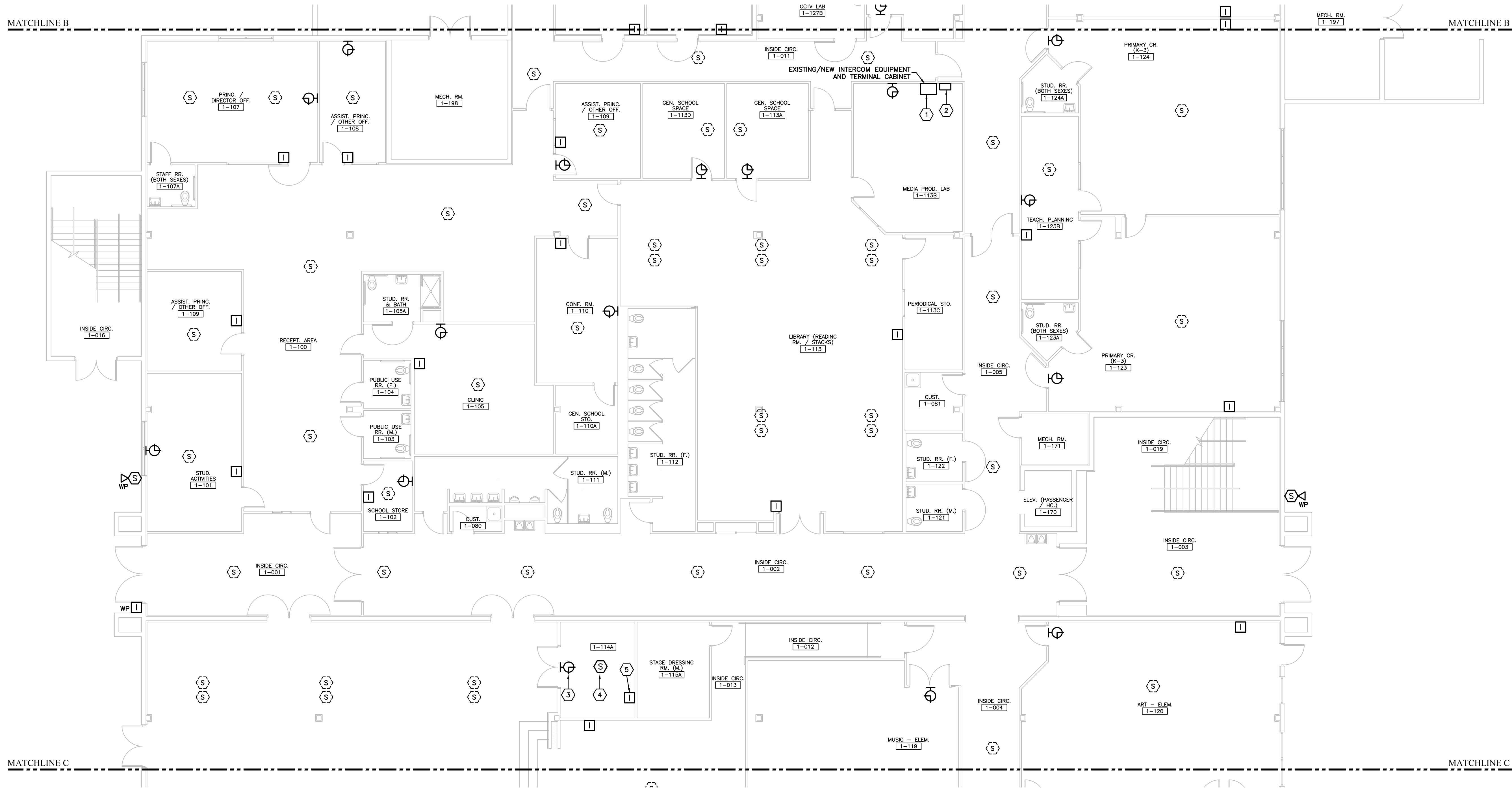
ROBERT C. ANSTON, P.E. 40858
TO THE BEST OF MY KNOWLEDGE, THESE
DRAWINGS AND THE PROJECT MANUAL ARE
COMPLETE AND COMPLY WITH THE 2020 FLORIDA
BUILDING CODE



 **INTERCOM PLAN – AREA B 1ST FLOOR**
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

Drawing File: I:\22xxx\22022\001\22022a11x.dwg 22022a11C
Plotted by: ltm Nov 30, 2022 11:15am



INTERCOM PLAN - AREA C 1ST FLOOR
SCALE: 1/8"=1'-0"

DRAWING NOTES

- 1 REMOVE THE EXISTING INTERCOM HEAD END AND EQUIPMENT AND PREPARE THE EXISTING INTERCOM CABLING FOR REUSE. ALL CABLING SHALL BE LABELED.
- 2 EXISTING VIDEO SURVEILLANCE CAMERA RACK AND CABLING SHALL REMAIN AND BE PROTECTED.
- 3 NEW BATTERY OPERATED WIRELESS CLOCK IN NEW LOCATION.
- 4 NEW SPEAKER IN NEW LOCATION. WIRING SHALL BE FREE-WIRED ABOVE THE ACOUSTICAL CEILINGS. SUPPORT THE WIRING IN ACCORDANCE WITH THE SPECIFICATIONS. ROUTE THE WIRING BACK TO THE INTERCOM CABINET IN ROOM 1-113b.
- 5 NEW CALL BUTTON IN NEW LOCATION. WIRING SHALL BE FREE-WIRED ABOVE THE ACOUSTICAL CEILINGS. SUPPORT THE WIRING IN ACCORDANCE WITH THE SPECIFICATIONS. ROUTE THE WIRING BACK TO THE INTERCOM CABINET IN ROOM 1-113b. PROVIDE WIREMOLD AND A WIREMOLD BOX FOR THE WIRING AND BUTTON.

GENERAL NOTES

1. EXISTING INTERIOR SPEAKERS TO REMAIN.
2. EXISTING EXTERIOR SPEAKERS TO BE REMOVED AND REPLACED IN SAME LOCATION.
3. EXISTING CALL BUTTONS TO BE REMOVED AND REPLACED IN SAME LOCATION.
4. EXISTING CLOCKS TO BE REMOVED AND REPLACED IN SAME LOCATION.

Key Plan

Not to Scale



Poinciana Elementary School
Replace Intercom System
Monroe County School District
241 Trumbo Road - Key West, Florida 33040



INTERCOM PLAN - AREA C 1ST FLOOR

AGI Anston-Greenlee, Inc.
Mechanical & Electrical Consulting Engineers
1015 West Baker Avenue, Tampa, FL 33613, (813) 966-5199
www.agi-engineers.com Florida Engineering License Number 4002

DRAWN
BMC
CHECKED
RCA
DATE
11.30.2022
SCALE
AS NOTED
JOB NO.
22022
DRAWING NO.

E1.1C

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

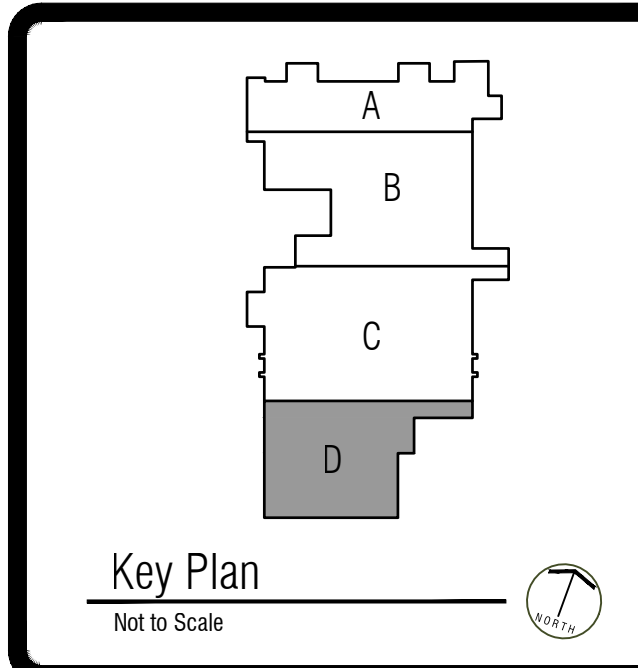
Drawing File: I:\22xxx\22022.001\22022e11x.dwg 22022e11D
Plotted by: Tim Nov 30, 2022 - 11:15am

DRAWING NOTES

- ① NEW BATTERY OPERATED WIRELESS CLOCK IN NEW LOCATION.
- ② NEW SPEAKER IN NEW LOCATION. WIRING SHALL BE FREE-WIRED ABOVE THE ACOUSTICAL CEILINGS. SUPPORT THE WIRING IN ACCORDANCE WITH THE SPECIFICATIONS. ROUTE THE WIRING BACK TO THE INTERCOM CABINET IN ROOM 1-113b.
- ③ NEW CALL BUTTON IN NEW LOCATION. WIRING SHALL BE FREE-WIRED ABOVE THE ACOUSTICAL CEILINGS. SUPPORT THE WIRING IN ACCORDANCE WITH THE SPECIFICATIONS. ROUTE THE WIRING BACK TO THE INTERCOM CABINET IN ROOM 1-113b. PROVIDE WIREMOLD AND A WIREMOLD BOX FOR THE WIRING AND BUTTON.

GENERAL NOTES

1. EXISTING INTERIOR SPEAKERS TO REMAIN.
2. EXISTING EXTERIOR SPEAKERS TO BE REMOVED AND REPLACED IN SAME LOCATION.
3. EXISTING CALL BUTTONS TO BE REMOVED AND REPLACED IN SAME LOCATION.
4. EXISTING CLOCKS TO BE REMOVED AND REPLACED IN SAME LOCATION.

[illegible]

Poinciana Elementary School
Replace Intercom System
Monroe County School District
241 Trumbo Road , Key West, Florida 33040



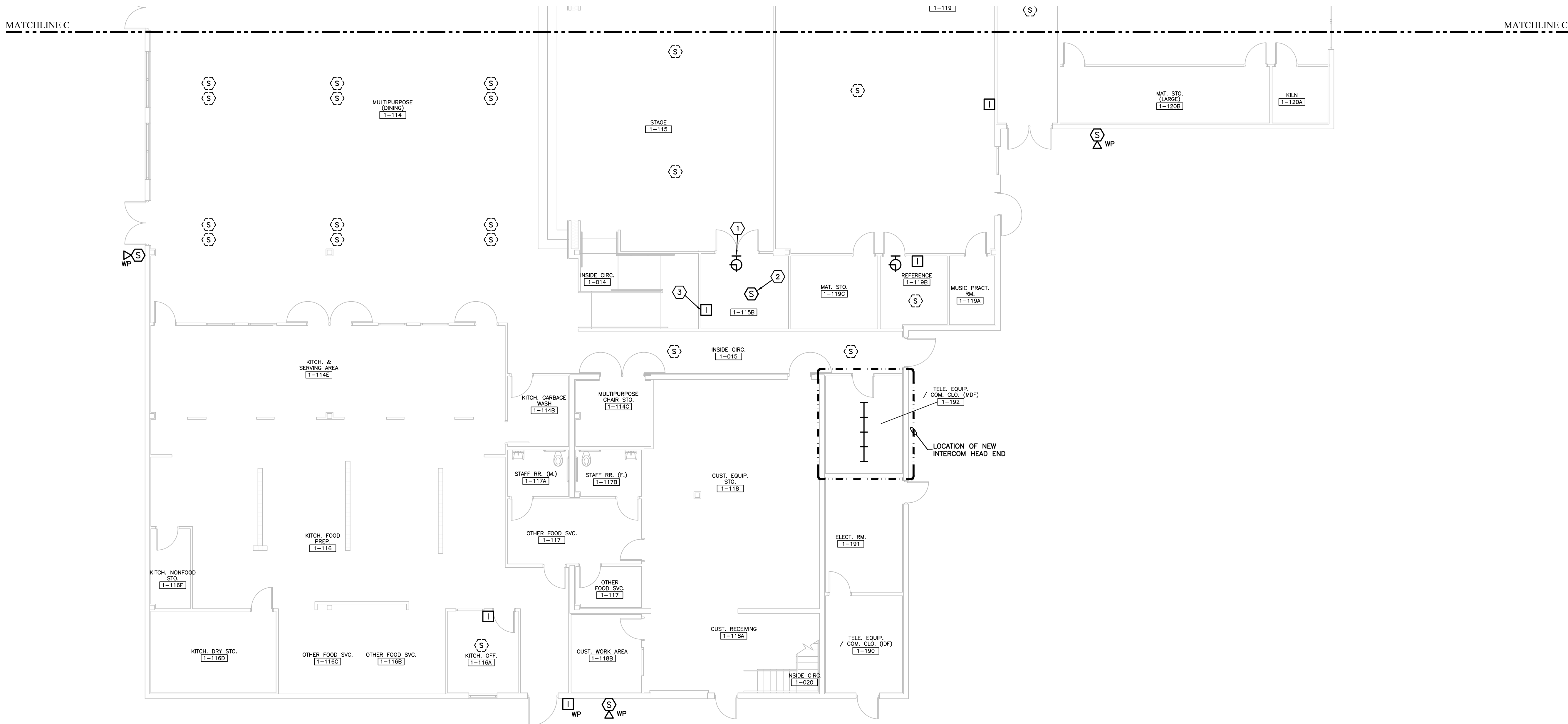
INTERCOM PLAN - AREA D 1ST FLOOR

AGI
Anston-Greenlees, Inc.
Mechanical & Electrical Consulting Engineers
1315 West Fletcher Avenue, Tampa, FL 33612 Tel:813/663-1919
Email: AGI@ag-engineers.com HTTP://www.agi-engineers.com
Florida Engineering Business Number 001

DRAWN	BMC
CHECKED	RCA
DATE	1.30.2022
SCALE	AS NOTED
JOB NO.	22022
DRAWING NO	

E1.1D

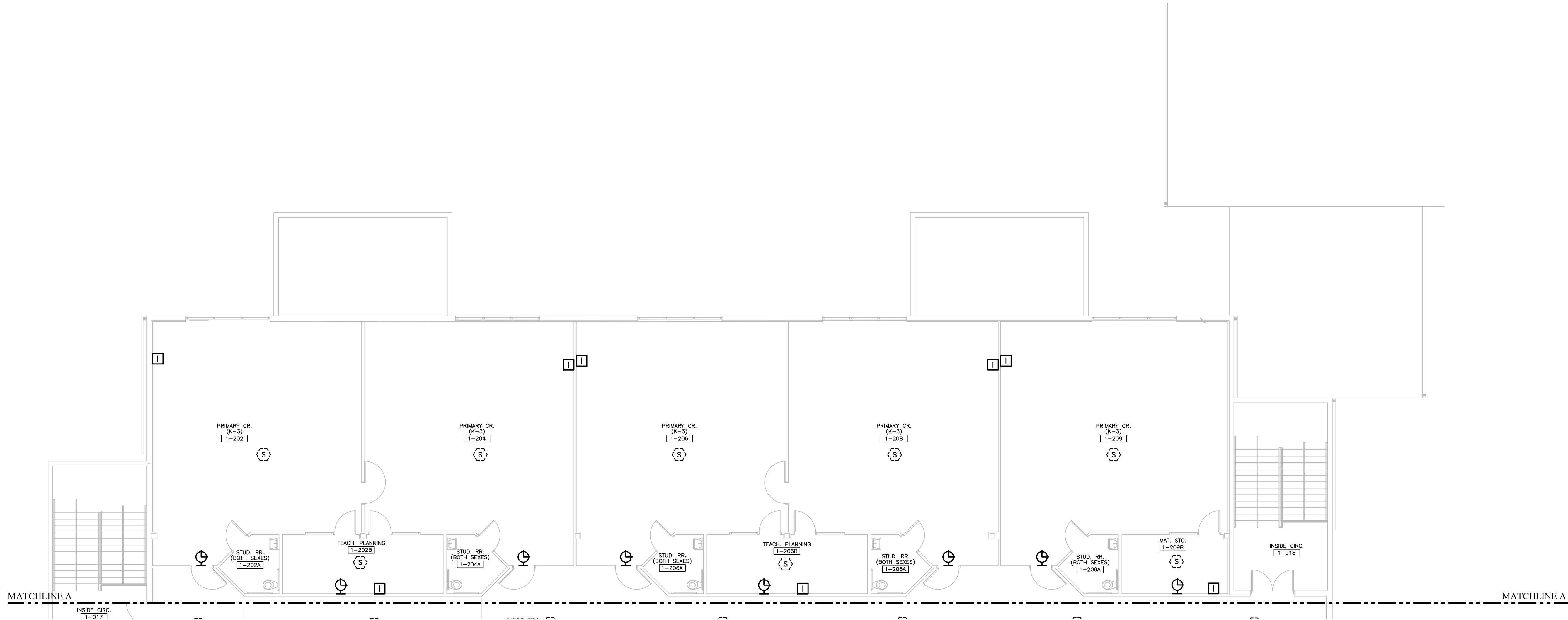
ROBERT C. ANSTON, P.E. 40858
TO THE BEST OF MY KNOWLEDGE, THESE
DRAWINGS AND THE PROJECT MANUAL ARE
COMPLETE AND COMPLY WITH THE 2020 FLORIDA
BUILDING CODE



INTERCOM PLAN - AREA D 1ST FLOOR

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

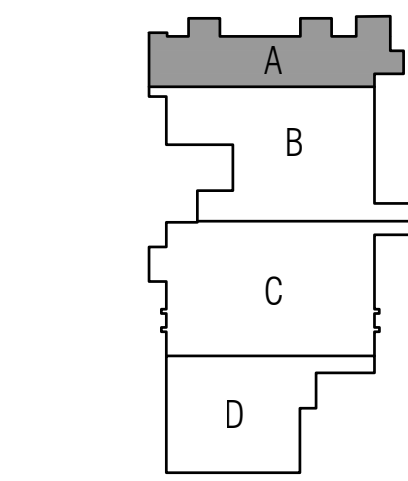
Drawing File: I:\22xxx\22022\001\22022a12a.dwg 22022a12a
Plotted by: tim Nov 30, 2022 11:15am



INTERCOM PLAN – AREA A 2ND FLOOR
SCALE: 1/8"=1'-0"

GENERAL NOTES

1. EXISTING INTERIOR SPEAKERS TO REMAIN.
2. EXISTING EXTERIOR SPEAKERS TO BE REMOVED AND REPLACED IN SAME LOCATION.
3. EXISTING CALL BUTTONS TO BE REMOVED AND REPLACED IN SAME LOCATION.
4. EXISTING CLOCKS TO BE REMOVED AND REPLACED IN SAME LOCATION.



Key Plan
Not to Scale



REVISIONS	DATE

Poinciana Elementary School
Replace Intercom System
Monroe County School District
241 Trumbo Road - Key West, Florida 33040



INTERCOM PLAN – AREA A 2ND FLOOR

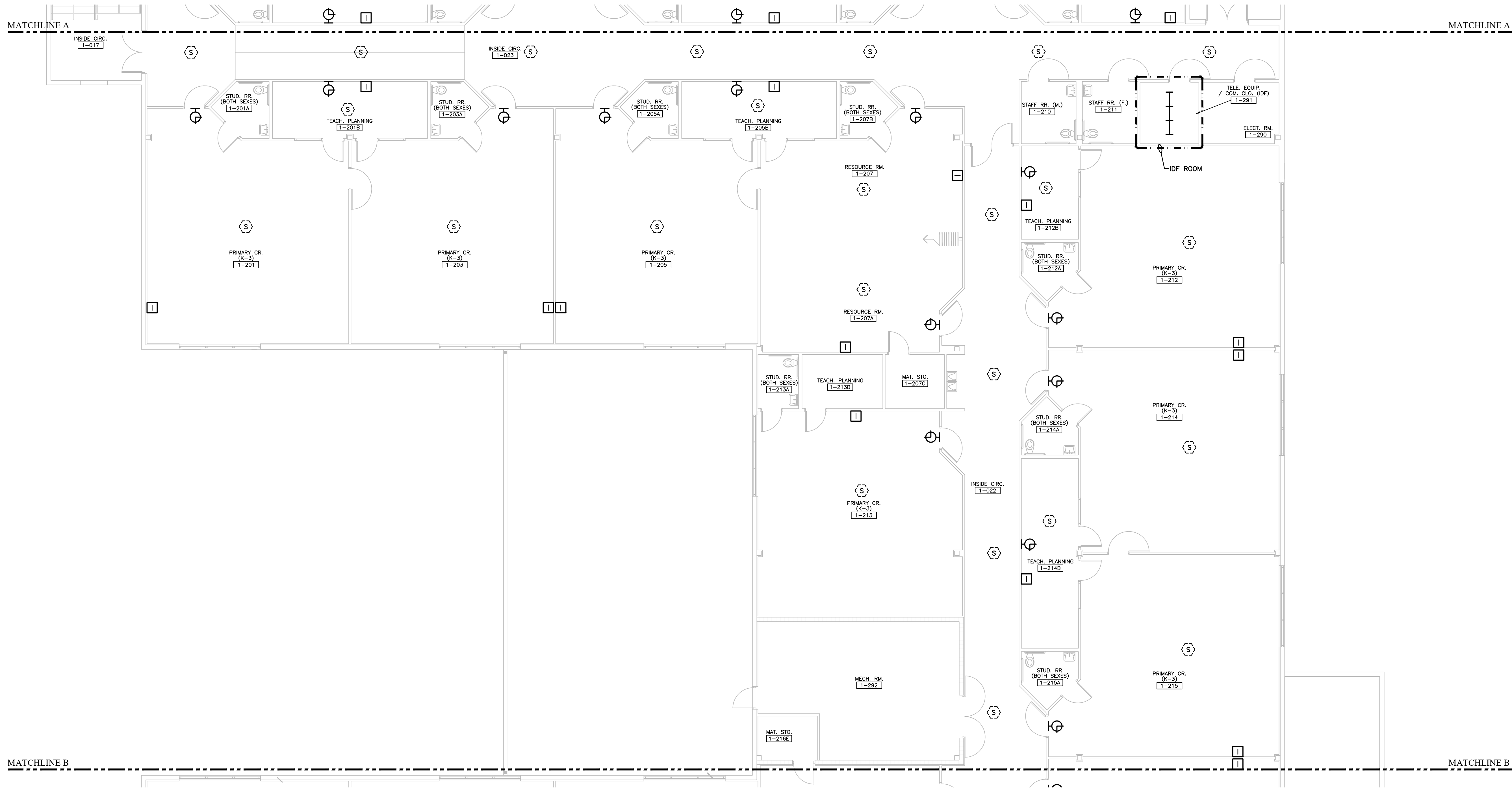
AGI Anston-Greenlees, Inc.
Mechanical & Electrical Consulting Engineers
1115 West Hudson Avenue, Tampa, FL 33611, (813) 766-5199
www.anston-greenlees.com
Florida Professional Engineer License Number 6092

DRAWN BMC
CHECKED RCA
DATE 11.30.2022
SCALE AS NOTED
JOB NO. 22022
DRAWING NO.

E1.2A

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
BUILDING CODE

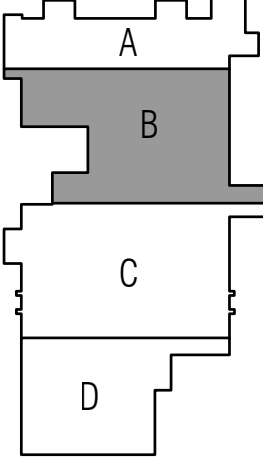
Drawing File: I:\22xxx\22022\001\22022a12x.dwg 22022a12B
Plotted by: tim Nov 30, 2022 - 11:15am



INTERCOM PLAN – AREA B 2ND FLOOR
SCALE: 1/8"=1'-0"

GENERAL NOTES

1. EXISTING INTERIOR SPEAKERS TO REMAIN.
2. EXISTING EXTERIOR SPEAKERS TO BE REMOVED AND REPLACED IN SAME LOCATION.
3. EXISTING CALL BUTTONS TO BE REMOVED AND REPLACED IN SAME LOCATION.
4. EXISTING CLOCKS TO BE REMOVED AND REPLACED IN SAME LOCATION.



Key Plan
Not to Scale



REVISIONS	DATE

Poinciana Elementary School
Replace Intercom System
Monroe County School District
241 Trumbo Road - Key West, Florida 33040



INTERCOM PLAN – AREA B 2ND FLOOR

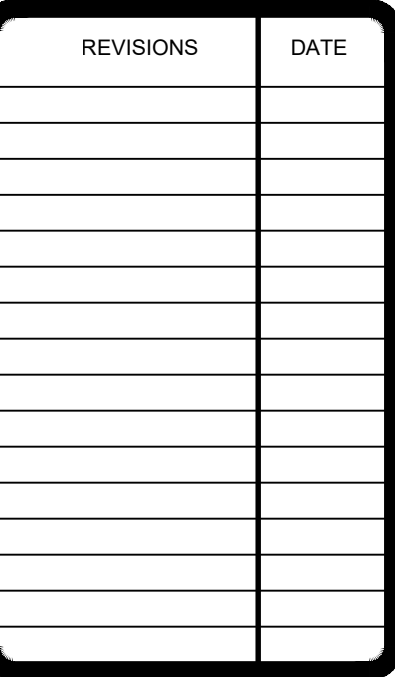
AGI Anston-Greenlees, Inc.
Mechanical & Electrical Consulting Engineers
1115 West Baker Avenue, Tampa, FL 33613, 813.817.0600
www.anston-greenlees.com
Florida Engineering License Number 4007

DRAWN BMC
CHECKED RCA
DATE 11.30.2022
SCALE AS NOTED
JOB NO. 22022
DRAWING NO.

E1.2B

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. EXISTING INTERIOR SPEAKERS TO REMAIN.
2. EXISTING EXTERIOR SPEAKERS TO BE REMOVED AND REPLACED IN SAME LOCATION.
3. EXISTING CALL BUTTONS TO BE REMOVED AND REPLACED IN SAME LOCATION.
4. EXISTING CLOCKS TO BE REMOVED AND REPLACED IN SAME LOCATION.

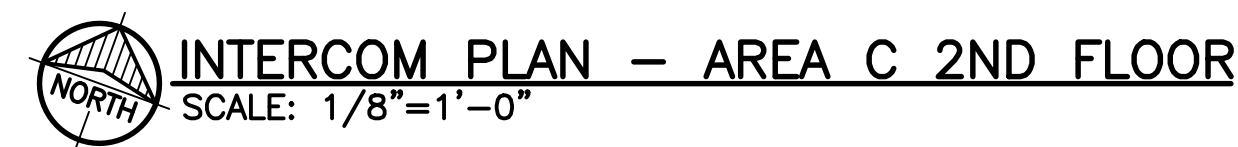


**BUILDING BRIDGES
TO SUCCESS**

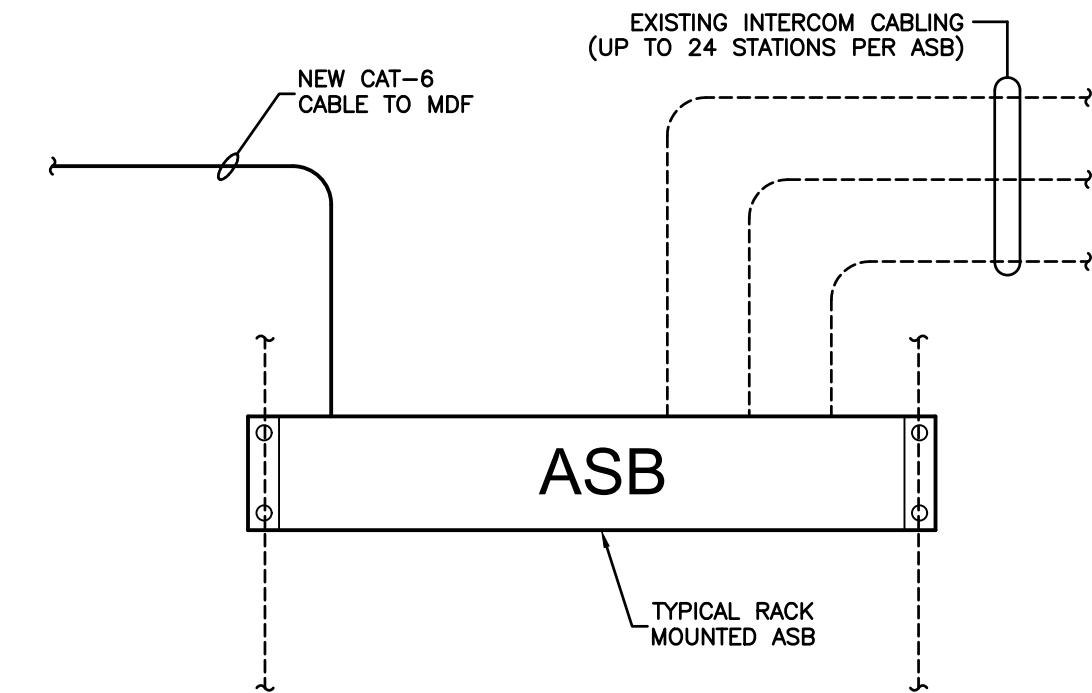
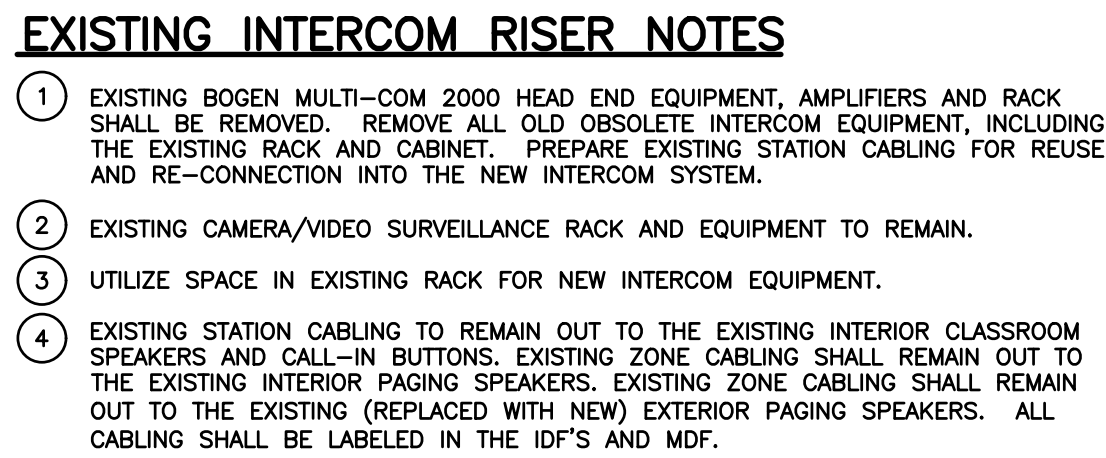
AGI
Anston-Greenlees, Inc.
Mechanical & Electrical Consulting Engineers
1315 E. Highway 101, Suite 100
Ft. Lauderdale, FL 33315
Email: AGI@ag-engineers.com [HTTP://www.agi-engineers.com](http://www.agi-engineers.com)
Florida Engineering Business Number 6093

E1.2C

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



Drawing File: I:\22xxx\22022.001\22022e12x.dwg 22022e12CD
Plotted by: Tim Nov 30, 2022 - 11:15am



ANALOG-TO-DIGITAL BRIDGE (ASB) DETAIL
NOT TO SCALE



- 1 PROVIDE A NEW FLOOR MOUNTED INTERCOM CABINET, SWING-OUT STYLE WITH LOCKABLE DOOR. CABINET SHALL BE COMPLETE WITH THE REQUIRED ANALOG TO DIGITAL SWITCHES (ASB), ZONE AMPLIFIERS, UPS, POWER STRIP, AND GROUNDING. TERMINATE THE EXISTING STATION CABLE INTO THE NEW ASB'S AND AMPLIFIERS. ALL CABLEING SHALL BE LABELED.
- 2 PROVIDE NEW BATTERY OPERATED WIRELESS CLOCK. LOCATE AT EXISTING CLOCK LOCATION OR AS NOTED, WHEN LOCATION IS NEW. VERIFY LOCATION WITH OWNER PRIOR TO INSTALLATION.
- 3 PROVIDE NEW INTERCOM CABLEING TO NEW EXTERIOR BUILDING MOUNTED SPEAKERS.
- 4 PROVIDE NEW BOGEN BCMA 3000 SERIES MASTER CLOCK.
- 5 PROVIDE NEW CAT 6 CABLEING FROM THE NEW ASB'S IN THE IDF ROOM TO THE NEW INTERCOM HEAD END LOCATED IN THE EXISTING IDF ROOM. NEW CABLEING SHALL BE INSTALLED IN CONDUIT WHERE EXPOSED OR WHERE IT IS NOT ACCESSIBLE ABOVE A DROPPED (ACT) CEILING.
- 6 PROVIDE A NEW INTERCOM SYSTEM HEAD END IN THE EXISTING MDF. INSTALL INTO AN EXISTING RACK AND TERMINATE ALL NEW CAT 6 CABLEING.
- 7 REMOVE AND REPLACE EXISTING EXTERIOR SPEAKER WITH NEW BOGEN BI-DIRECTIONAL HORN LOUDSPEAKER. UTILIZE EXISTING CABLE.
- 8 EXISTING STATION CABLEING TO REMAIN OUT TO THE EXISTING INTERIOR CLASSROOM SPEAKERS AND CALL-IN BUTTONS. EXISTING ZONE CABLEING SHALL REMAIN OUT TO THE EXISTING INTERIOR PAGING SPEAKERS. EXISTING ZONE CABLEING SHALL REMAIN OUT TO THE EXISTING (REPLACED WITH NEW) EXTERIOR PAGING SPEAKERS. ALL CABLEING SHALL BE LABELED IN THE IDF'S AND MDF.
- 9 PROVIDE NEW 24 CHANNEL ANALOG-TO-DIGITAL STATION BRIDGE (ASB), NYQUIST NO-E7030, PLUG POWER FOR ASB'S INTO NEW POWER STRIP (VIA UPS).
- 10 PROVIDE NEW BOGEN CAT15C ANALOG CALL-IN SWITCH TO REPLACE THE EXISTING CALL SWITCHES.
- 11 PROVIDE ALL CABLEING, CONNECTIONS, AND PROGRAMMING TO CONNECT THE EXISTING CAMPUS-WIDE IP (VoIP) PHONE SYSTEM INTO THE NEW INTERCOM SYSTEM. ALL OFFICE HANDSETS SHALL BE PROVIDED WITH THE ABILITY TO MAKE INTERCOM CALLS.
- 12 PROVIDE SURGE PROTECTION DEVICE ON EACH NEW AND EXISTING EXTERIOR SPEAKER CIRCUIT.
- 13 PROVIDE NEW INTERCOM CABLEING TO NEW INTERIOR CEILING MOUNTED SPEAKERS.

[illegible]

Poinciana Elementary School
Replace Intercom System
Monroe County School District
241 Trumbo Road , Key West, Florida 33040



INTERCOM SYSTEMS RISER DIAGRAMS AND DETAILS

AGI
Anston-Greenlees, Inc.
Mechanical & Electrical Consulting Engineers
1315 West Fletcher Avenue, Tampa, FL 33612 Tel:813/968-2109
Email: AGI@AnstonGreenlees.com <http://www.AGIEngineers.com>
Florida Engineering Business Number 6931

DRAWN
BMC
CHECKED
RCA
DATE
11.30.2022
SCALE
AS NOTED
JOB NO.
22022
DRAWING NO.

E2.1

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