



Addendum #2 – November 4, 2020

The following items are hereby amended and are to be incorporated into the Bid Documents. Bidders are required to acknowledge receipt of all addenda issued.

Fire Alarm Plans:**FA000**

1. Add "Locations shall be field coordinated and approved by PSD" to section 2 of the scope of work.
2. Add section 5, "Provide and install relays to shut down gym, cafeteria and auditorium sound systems and turn on auditorium lights" to the scope of work.
3. Add section 6, "Provide accurate record drawings which include existing notification devices present at each facility that may not be shown on the bid documents" to the scope of work.
4. Remove sub-section C "~~Provide and install FACP web card~~" from section 1 of the Alternates.
5. Remove sub-section K "~~Ethernet communications (NWS-3): provide ethernet topology data communications module (LAN) that shall transmit all control panel off normal condition, including alarm, water flow, supervisory, or trouble via email. The LAN module shall utilize a category 6 rj45 data ethernet connection port for interconnection to the district LAN/wan network. The LAN module shall support remote web browsing and email alert functions~~" from section 1 of the Alternates.
6. Add "If the contractor elects to utilize spare circuits for new speakers, megger testing is required to verify circuit integrity" to section 2 of the Alternates.
7. Add "Programming by PSD" to section 3 of the Alternates.
8. Add alternate 5 "Provide and install new wire for visual notification appliance circuits."
9. Add alternate 6 "Provide and install new wire for audible notification appliance circuits."
10. Revise text indicating fully sprinklered conditions at Lincoln MS from "Yes" to "No".

FC.FAO101

1. Relocate horn/strobe appliances in the main corridor from ceiling mount to wall mount.
2. Relocate ceiling mounted horn/strobe in Classroom Tech E28 to be wall mounted.
3. Add strobe to the pit with flag note 3 "Install notification appliance in pit."
4. Add 95cd wall mounted strobes to the first floor Theatre Lobby J07 with flag note 4 "Install notification appliance on first floor."
5. Add flag note to wall mounted horn/strobes on the second floor near Theatre Lobby J07 with flag notes 5 "Install notification appliance on second floor."

FC.FAO102

1. Relocate horn/strobe appliances in the main corridor from ceiling mount to wall mount.



FC.FA101C

1. Relocate ceiling mounted horn/strobe in Classroom Tech E28 to be wall mounted.

FC.FA101D

1. Relocate horn/strobe appliances in the main corridor from ceiling mount to wall mount.

FC.FA101F

1. Relocate horn/strobe appliances in the main corridor from ceiling mount to wall mount.

FC.FA101H

1. Relocate horn/strobe appliances in the main corridor from ceiling mount to wall mount.

FC.FA101I

1. Relocate horn/strobe appliances in the main corridor from ceiling mount to wall mount.
2. Add strobe to the pit with flag note 3 "Install notification appliance in pit."
3. Add 95cd wall mounted strobes to the first floor Theatre Lobby J07 with flag note 4 "Install notification appliance on first floor."
4. Add flag note to wall mounted horn/strobes on the second floor near Theatre Lobby J07 with flag notes 5 "Install notification appliance on second floor."

FC.FA101J

1. Add notification appliance to the second-floor bridge.

FC.FA101L

1. Add notification appliance to the second-floor bridge.

Attachments:

2020.11.04-PSD7Schools_FireAlarmReplacement_Add2_Plans (10 pages)



DESIGN CRITERIA

DESIGN STANDARDS HAVE BEEN TRUNCATED FOR THE NOTIFICATION UPGRADE PROJECTS AND EXISTING INITIATING DEVICES MAY NOT COMPLY WITH STATE CODE REQUIREMENTS (INTERNATIONAL BUILDING CODE 2018 AND NFPA 72 2016). THE FIRE ALARM SYSTEM DESIGN INCORPORATES THE FOLLOWING DESIGN CRITERIA. (EXCEPTIONS FOR SCHOOLS PROTECTED THROUGHOUT WITH AUTOMATIC SPRINKLERS ARE NOTED WHERE APPLICABLE.)

SMOKE DETECTION

1. SMOKE DETECTORS SHALL BE LOCATED THROUGHOUT ALL COMMON CORRIDORS. THESE SMOKE DETECTORS SHALL CONTROL MAGNETIC DOOR HOLD OPENS. DOOR HOLDERS SHALL RELEASE UPON GENERAL ALARM. (FULLY SPRINKLERED SCHOOLS SHALL ONLY HAVE SMOKE DETECTORS WITHIN 5 FEET OF MAGNETIC DOOR HOLDERS.)

2. A SMOKE DETECTOR SHALL BE LOCATED IN THE MAIN ELECTRICAL ROOM.

3. SMOKE DETECTORS SHALL BE LOCATED AT ALL FIRE ALARM REMOTE POWER SUPPLY PANELS AND FIRE ALARM CONTROL PANEL LOCATIONS UNLESS THE ENVIRONMENT IS UNSUITABLE FOR SMOKE DETECTORS IN WHICH CASE 135 DEGREE FIXED TEMPERATURE HEAT DETECTORS SHALL BE UTILIZED.

4. SMOKE DETECTORS SHALL BE LOCATED IN ALL COMPUTER CLASSROOMS. (NOT REQUIRED IF THE BUILDING IS PROTECTED THROUGHOUT WITH AUTOMATIC SPRINKLERS.)

5. SMOKE DETECTORS SHALL BE LOCATED IN THE LIBRARY/MEDIA CENTER. (NOT REQUIRED IF THE BUILDING IS PROTECTED THROUGHOUT WITH AUTOMATIC SPRINKLERS.)

6. A SMOKE DETECTOR SHALL BE LOCATED IN EACH MOD/PIDF ROOM.

7. A SMOKE DETECTOR SHALL BE LOCATED IN EACH MODULAR CLASSROOM AND SHALL BE NON-INTELLIGENT.

8. SMOKE DETECTORS SHALL BE LOCATED IN ELEVATOR LOBBIES, ELEVATOR MACHINE ROOM, AND THE TOP OF SHAFT FOR ELEVATOR CONTROL, PURPOSES AS REQUIRED BY ANSI A 17.1.

9. SMOKE DETECTORS SHALL BE PROVIDED AS REQUIRED BY THE INTERNATIONAL MECHANICAL CODE FOR FIRE/SMOKE DAMPERS IF APPLICABLE TO THE SCHOOL.

10.PROVIDE WIRE GUARDS FOR ALL GYM AND CAFETERIA SMOKE DETECTORS. CONTRACTOR SHALL NOTCH WIRE GUARDS TO ALLOW FOR MAGNETIC TESTING. NOTE: MAGNET TESTING IS NOT A SUBSTITUTE FOR SMOKE CHAMBER ENTRY TESTING.

HEAT DETECTION:

1. WHEN THE FACP IS LOCATED IN THE VESTIBULE, AN INTELLIGENT 135 DEGREE FIXED TEMP HEAT DETECTOR SHALL BE LOCATED IN THE VESTIBULE.

2. HEAT DETECTORS SHALL BE LOCATED IN ALL CODE REQUIRED AREAS, NOT SUITABLE FOR SMOKE DETECTION.

CARBON MONOXIDE (CO) SENSORS (ALTERNATE 4):

1. CARBON MONOXIDE (CO) SENSORS SHALL BE MONITORED BY ADDRESSABLE FIRE ALARM MONITOR MODULE, AND SHALL REPORT TO THE FIRE ALARM SYSTEM AS AN "ALARMSUPERVISORY" TYPE DEVICE.

2. CARBON MONOXIDE (CO) SENSORS SHALL HAVE THREE CO EXPOSURE LEVEL SETTINGS FOR SHORT, MEDIUM, AND LONG DURATION PERIODS OF EXPOSURE TO CO GAS.

3. CARBON MONOXIDE DETECTORS SHALL BE LOCATED IN KITCHEN, BOILER ROOM, ROOMS WITH GAS FIRED EQUIPMENT INCLUDING SCIENCE PREP ROOMS, SCIENCE CLASSROOMS, LABORATORIES, HOME ECONOMICS (WITH GAS), GAS WATER HEATERS, GAS FURNACES, AND GAS FIRED AHUS OR FIRST ROOM SERVED BY A GAS FIRED AHU.

4. CARBON MONOXIDE DETECTORS SHALL BE LOCATED IN EACH MODULAR CLASSROOM AND SHALL BE NON-INTELLIGENT.

AUDIBLE, VISUAL, AND AUDIBLE/VISUAL NOTIFICATION APPLIANCES (BASE BID):

1. HORNS AND HORN/STROBES SHALL BE GENERALLY LOCATED TO PROVIDE A MINIMUM OF 15DB ABOVE AMBIENT SOUND LEVELS THROUGHOUT ALL BUILDING AREAS.

2. HORN/STROBES SHALL BE LOCATED IN ALL MECHANICAL ROOMS, AND OTHER HIGH-NOISE AREAS.

3. HORN/STROBES SHALL BE LOCATED IN ALL CLASSROOM AREAS.

4. HORNS AND STROBES SHALL BE LOCATED IN GYMNASIUMS.

5. ALL HORNS SHALL BE SET TO THE LOW VOLUME SETTING AND SHALL BE PLACED TO MEET DB LEVEL REQUIREMENTS.

6. HORN/STROBES SHALL BE LOCATED IN ALL COMMON "PUBLIC AREA" SPACES, INCLUDING CORRIDORS, CLASSROOMS, RESTROOMS, OPEN OFFICE AREAS, AND OTHER AREAS WHERE MORE THAN ONE-PERSON OCCUPANCY WOULD BE EXPECTED.

7. STROBES SHALL BE LOCATED IN ALL RESTROOMS EXCEPT SINGLE WATER CLOSETS (TOILET ONLY) WITHOUT A SINK SPECIFICALLY IN KINDERGARTEN AND PRE-SCHOOL CLASSROOMS.

8. STROBES SHALL BE LOCATED IN COPY ROOMS, WORK ROOMS, STORAGE ROOMS GREATER THAN 400 SQUARE FEET, AND STORAGE ROOMS WHERE HIGH OCCUPANT USAGE LEVELS ARE ANTICIPATED UNDER NORMAL CONDITIONS.

9. STROBES SHALL BE LOCATED IN CLINICS AND CONFERENCE ROOMS.

10.STROBES SHALL NOT BE INSTALLED IN SINGLE OCCUPANT OFFICES.

11.CEILING MOUNTED HORN/STROBES ARE PREFERRED OVER WALL MOUNTED IN CLASSROOMS, RESTROOMS, AND OFFICES. CEILING MOUNTED HORNS, STROBES, AND HORN/STROBES SHALL BE CENTERED IN THE SPACE AS MUCH AS POSSIBLE, BUT SHALL NOT EXCEED 5 FEET IN ANY DIRECTION FROM THE CENTER, UNLESS APPROVED BY THE ENGINEER OR AHJ.

12.WHEN CEILING MOUNTING IS NOT PRACTICAL, HORNS, STROBES, AND HORN/STROBES SHALL BE WALL MOUNTED WITH THE BOTTOM OF THE VISUAL SIGNAL (STROBE) LENS AT 80" ABOVE FINISHED FLOOR, OR WITH THE TOP OF THE VISUAL SIGNAL (STROBE) LENS AT 6" BELOW THE CEILING (FOR LOW CEILING AREAS), WHICHEVER IS LOWER.

13.FOR SPECIFIC LIMITED APPLICATIONS, THE HORNS, STROBES, AND HORN/STROBES MAY BE INSTALLED WITH THE TOP OF THE VISUAL SIGNAL (STROBE) LENS AT UP TO 96" ABOVE FINISHED FLOOR. EACH LOCATION MUST BE APPROVED IN WRITING BY THE ENGINEER OR AHJ.

14.EXTERIOR WEATHERPROOF HORN/STROBES SHALL BE PROVIDED AT THE FIRE DEPARTMENT RESPONSE POINT. THE HORN SHALL BE SILENCEABLE AND THE NOTIFICATION APPLIANCE SHALL BE MOUNTED 10 FEET ABOVE GRADE.

15.PROVIDE WIRE GUARDS FOR ALL LOCKER ROOM, GYM AND CAFETERIA HORNS, STROBES AND HORN/STROBES.

16.HORNS, STROBES AND HORN/STROBES SHALL BE WHITE AND LABELED "FIRE".

AUDIBLE, VISUAL, AND AUDIBLE/VISUAL NOTIFICATION APPLIANCES (ALTERNATE 2):

1. SPEAKERS AND SPEAKER/STROBES SHALL BE GENERALLY LOCATED TO PROVIDE A MINIMUM OF 15DB ABOVE AMBIENT SOUND LEVELS THROUGHOUT ALL BUILDING AREAS.

2. SPEAKER/STROBES SHALL BE LOCATED IN ALL MECHANICAL ROOMS, AND OTHER HIGH-NOISE AREAS.

3. SPEAKER/STROBES SHALL BE LOCATED IN ALL CLASSROOM AREAS.

4. LOUDSPEAKERS AND STROBES SHALL BE LOCATED IN GYMNASIUMS.

5. ALL SPEAKERS SHALL BE SET TO THE VOLUME SETTING RECOMMENDED BY MANUFACTURER TO MEET INTELLIGIBILITY AND DB LEVEL REQUIREMENTS.

6. SPEAKER/STROBES SHALL BE LOCATED IN ALL COMMON "PUBLIC AREA" SPACES, INCLUDING CORRIDORS, CLASSROOMS, RESTROOMS, OPEN OFFICE AREAS, AND OTHER AREAS WHERE MORE THAN ONE-PERSON OCCUPANCY WOULD BE EXPECTED.

7. STROBES SHALL BE LOCATED IN ALL RESTROOMS EXCEPT SINGLE WATER CLOSETS (TOILET ONLY) WITHOUT A SINK SPECIFICALLY IN KINDERGARTEN AND PRE-SCHOOL CLASSROOMS.

8. STROBES SHALL BE LOCATED IN COPY ROOMS, WORK ROOMS, STORAGE ROOMS GREATER THAN 400 SQUARE FEET, AND STORAGE ROOMS WHERE HIGH OCCUPANT USAGE LEVELS ARE ANTICIPATED UNDER NORMAL CONDITIONS.

9. STROBES SHALL BE LOCATED IN CLINICS AND CONFERENCE ROOMS.

10.STROBES SHALL NOT BE INSTALLED IN SINGLE OCCUPANT OFFICES.

11.CEILING MOUNTED SPEAKER/STROBES ARE PREFERRED OVER WALL MOUNTED IN CLASSROOMS, RESTROOMS, AND OFFICES. CEILING MOUNTED SPEAKERS, STROBES, AND SPEAKER/STROBES SHALL BE CENTERED IN THE SPACE AS MUCH AS POSSIBLE, BUT SHALL NOT EXCEED 5 FEET IN ANY DIRECTION FROM THE CENTER, UNLESS APPROVED BY THE ENGINEER OR AHJ.

12.WHEN CEILING MOUNTING IS NOT PRACTICAL, SPEAKERS, STROBES, AND SPEAKER/STROBES SHALL BE WALL MOUNTED WITH THE BOTTOM OF THE VISUAL SIGNAL (STROBE) LENS AT 80" ABOVE FINISHED FLOOR, OR WITH THE TOP OF THE VISUAL SIGNAL (STROBE) LENS AT 6" BELOW THE CEILING (FOR LOW CEILING AREAS), WHICHEVER IS LOWER.

13.FOR SPECIFIC LIMITED APPLICATIONS, THE SPEAKERS, STROBES, AND SPEAKER/STROBES MAY BE INSTALLED WITH THE TOP OF THE VISUAL SIGNAL (STROBE) LENS AT UP TO 96" ABOVE FINISHED FLOOR. EACH LOCATION MUST BE APPROVED IN WRITING BY THE ENGINEER OR AHJ.

14.EXTERIOR WEATHERPROOF HORN/STROBES SHALL BE PROVIDED AT THE FIRE DEPARTMENT RESPONSE POINT. THE HORN SHALL BE SILENCEABLE AND THE NOTIFICATION APPLIANCE SHALL BE MOUNTED 10 FEET ABOVE GRADE.

15.PROVIDE WIRE GUARDS FOR ALL GYM AND CAFETERIA SPEAKERS, STROBES AND SPEAKER/STROBES.

16.SPEAKERS, STROBES AND SPEAKER/STROBES SHALL BE WHITE AND LABELED "FIRE".

17.SPEAKERS AND SPEAKER/STROBES SHALL BE INSTALLED IN DEDICATED ZONES AS REQUIRED BY DIVISION 284650.

REMOTE MONITORING, FIRE ALARM CONTROL PANEL AND REMOTE POWER SUPPLY (ALTERNATE 3):

1. A BOSCH 465 COMMUNICATOR SHALL BE PROVIDED FOR OFFSITE MONITORING. THE FIRE ALARM SYSTEM SHALL REPORT ALARM, TROUBLE, SUPERVISORY AND WATERFLOW TO THE MONITORING COMPANY.

2. PROVIDE A NETWORK DROP AT THE FACP FOR A WEB INTERFACE ALLOWING REMOTE VIEWING OF THE FACP.

3. AN ELECTRICAL OUTLET IS REQUIRED AND SHALL BE PROVIDED BY EACH FACP.

4. THE ELECTRICAL CONTRACTOR SHALL RUN EM POWER TO FACP AND RPS FROM THE FACILITY EM PANEL.

LABELS FOR DEVICES:

1. ALL EQUIPMENT SHALL BE CLEARLY LABELED WITH THE DEVICE ADDRESS ON THE BASE OF THE DETECTOR OR MANUAL OR MANUAL PULL STATION WITH TYPE BLACK LETTERED ON A CLEAR BACKGROUND LABELS WITH A TEXT SIZE OF AT LEAST 18 POINT.

i. SMOKE DETECTORS AND MANUAL PULL STATIONS SHALL BE LABELED WITH THE DEVICE ADDRESS ON THE BASE OF THE DETECTOR OR MANUAL PULL STATION.

ii. ALL NOTIFICATION APPLIANCES SHALL BE LABELED WITH THE NOTIFICATION CIRCUIT DESIGNATION. (THE "END OF LINE" SHALL BE CLEARLY LABELED.

iii. MONITOR AND RELAY MODULES SHALL BE LABELED WITH THE DEVICE ADDRESS AND FUNCTION. (FOR EXAMPLE: LIM-23 WATERFLOW; LIM-50 MAG DOOR RELEASE, ETC.)

iv. DUCT DETECTORS SHALL BE LABELED WITH THE DEVICE ADDRESS ON THE BASE OF THE DETECTOR AND THE CEILING GRID SHALL BE LABELED AS DUCT DETECTOR, HVAC UNIT AND DEVICE ADDRESS. REMOTE TEST SWITCH SHALL INDICATE HVAC UNIT AND DEVICE ADDRESS.

2. ALL MODULES SHALL HAVE THE STATUS LEDS VISIBLE WITHOUT REQUIRING THE REMOVAL OF A CEILING TILE OR COVER PLATE.

GRAPHIC MAP:

1. GRAPHIC MAPS SHALL BE SECURELY MOUNTED NEXT TO THE FIRE ALARM CONTROL PANEL. A GRAPHIC MAP IS ALSO REQUIRED NEXT TO THE REMOTE ANNUNCIATOR (IF PROVIDED). GRAPHIC MAP LOCATION AND COLORS SHALL BE APPROVED BY PSD AND TLH PRIOR TO MOUNTING AND INSTALLATION.

END OF FIRE ALARM DESIGN CRITERIA

SCOPE OF WORK - LIMITED NOTIFICATION UPGRADE

1. CACHE LA POUDRE MIDDLE SCHOOL

APP-200 (ALT1 - UPGRADE FACP)

2. LINCOLN MIDDLE SCHOOL

APP-200 (ALT1 - UPGRADE FACP)

3. TRAUT ELEMENTARY SCHOOL

APP-200 (ALT1 - UPGRADE FACP)

4. WEBER MIDDLE SCHOOL

APP-200 (ALT1 - UPGRADE FACP)

5. FORT COLLINS HIGH SCHOOL

NFS2-3030 (ALT1 - UPGRADE UDACT)

6. POUDRE HIGH SCHOOL

NFS2-3030 (ALT1 - UPGRADE UDACT)

7. ROCKY MOUNTAIN HIGH SCHOOL

NFS2-3030 (ALT1 - UPGRADE UDACT)

THE GOAL OF THIS LIMITED NOTIFICATION UPGRADE IS TO PROVIDE NFPA COMPLIANT VISUAL NOTIFICATION AND TO INCLUDE ADDITIONAL HORN/STROBES TO PROVIDE AUDIBILITY (60 DBA MINIMUM) THROUGHOUT THE SCHOOLS. UTILIZE NOTIFIER BY TECH ELECTRONICS.

1. EXISTING HORN/STROBES AND STROBES SHALL BE REPLACED WITH THE LATEST SYSTEM SENSOR MODEL, TO PRODUCE A SYNCHRONIZED FLASH AND TEMPORAL 3 TONE. THE CONTRACTOR IS RESPONSIBLE FOR CONVERTING FOUR WIRE NOTIFICATION APPLIANCES TO TWO WIRE, SYNCHRONIZED NOTIFICATION CIRCUITS. MAINTAIN CIRCUIT INTEGRITY OF THE UNUSED CIRCUIT UTILIZING WIRE NUTS OR WAGO CONNECTORS. SPARE WIRES SHALL BE IDENTIFIED WITH TYPE-WRITTEN, HEAT-SHRINK LABELS AS "SPARE". THE MEANS AND METHODS USED BY THE CONTRACTOR SHALL COMPLY WITH THE NEC (2017) AND NFPA 72 (2016). HORN/STROBES AND STROBES SHALL BE RED AND LABELED "FIRE".

2. ADD ADDITIONAL POWER SUPPLIES WHERE REQUIRED. ALL POWER SUPPLIES SHALL BE PROTECTED WITH A SMOKE DETECTOR. ALSO, THE SUPPLEMENTAL INTERCOM NON-COMPLIANT TONE SHALL BE REMOVED. ADDITIONAL POWER SUPPLIES, IF REQUIRED, SHALL BE COMPATIBLE WITH EXISTING POWER SUPPLIES TO ACHIEVE SYNCHRONIZED NOTIFICATION CIRCUITS. IF POWER SUPPLIES MUST BE REPLACED TO ACHIEVE SYNCHRONIZATION, UTILIZE INTELLIGENT POWER SUPPLIES OR ROTTER PSN-106 10A AS APPROVED BY PSD. LOCATIONS SHALL BE FIELD COORDINATED AND APPROVED BY PSD.

3. PROVIDE UPDATED GRAPHIC MAP AND INCLUDE ADDITIONAL SMOKE DETECTORS AND POWER SUPPLIES.

4. THE CONTRACTOR SHALL CARRY A BUDGET FOR 10% ADDITIONAL ADDED DEVICES TO BE INSTALLED AT THE OWNER'S REQUEST OR TO BE USED AS SPARE PARTS. THE ADDITIONAL DEVICES MAY BE USED TO REPLACE STROBES WITH HORN/STROBES IN ORDER TO ACHIEVE 60 DBA MINIMUM. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADDITIONAL COMPONENTS, IF NECESSARY, TO ACHIEVE THE GOALS STATED HEREIN.

5. PROVIDE AND INSTALL RELAYS TO SHUT DOWN GYM, CAFETERIA AND AUDITORIUM SOUND SYSTEMS AND TURN ON AUDITORIUM LIGHTS

6. PROVIDE ACCURATE RECORD DRAWINGS WHICH INCLUDE EXISTING NOTIFICATION DEVICES PRESENT AT EACH FACILITY THAT MAY NOT BE SHOWN ON THE BID DOCUMENTS

ALTERNATES

NOTE: THE SCOPE OF WORK FOR THIS PROJECT INCLUDES, BUT IS NOT LIMITED TO, WORK OUTLINED IN THIS NARRATIVE. ANY OMISSIONS DO NOT RELIEVE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE A COMPLETE AND PROPERLY FUNCTIONING SYSTEM AS REQUIRED BY POUDRE SCHOOL DISTRICT.

1. THE INTENT OF THIS ALTERNATE IS TO UPGRADE THE FIRE ALARM CONTROL PANEL.

A. PROGRAM FIRE SYSTEM WITH ZONE REPORTING TO DISTRICT MONITORING STATION.

B. PROVIDE AND INSTALL DIALER CAPTURE ETHERNET MODULE TO MDF ROOM.

C. PROVIDE AND INSTALL FACP WEB CARD.

D. MODIFY FACP PROGRAMMING TO MATCH FIELD SIGNAGE.

E. ADD NEW GRAPHIC MAPS AT FACP AND ANNUNCIATOR (COORDINATE WITH PSD).

F. PROVIDE FIRE WATCH FOR BUILDINGS OCCUPIED DURING THE FACP SWAP-OUT DURING OUT OF SERVICE TIME IN ACCORDANCE WITH THE FIRE WATCH PROCEDURE LOCATED IN THE FIRE ALARM LOG BOOK. CONTRACTOR SHALL PROVIDE A DEDICATED INDIVIDUAL FOR FIRE WATCH.

a. EXISTING WIRING SHALL BE REUSED EXCEPT WHERE ADDITIONAL WIRE IS REQUIRED FOR NEW DEVICES.

G. PROVIDE AND INSTALL NEW BATTERIES AND POWER SUPPLY IN FACP.

H. DIALER: PROVIDE DIGITAL ALARM COMMUNICATOR TRANSMITTER (UDACT-2) THAT SHALL TRANSMIT ALL CONTROL PANEL OFF-NORMAL CONDITION, INCLUDING ALARM, WATER FLOW, SUPERVISORY, OR TROUBLE. THE DACT SHALL UTILIZE ONE (1) CAT6E VOICE LINE TO COMPLY WITH NFPA 72 REQUIREMENTS, SHALL UTILIZE CONTACT ID TYPE POINT-BY-POINT COMMUNICATION FORMAT. THE DACT SHALL BE NOTIFIER MODEL UDACT-2 OR DISTRICT APPROVED EQUIVALENT TRANSMITTER (DACT). THE CONTRACTOR SHALL PROVIDE ALL POINT-BY-POINT PROGRAMMING TO SUPPORT TRANSITION OF ALL CONTROL PANEL OFF-NORMAL CONDITIONS, INCLUDING ALARM, SUPERVISORY, WATER FLOW AND TROUBLE.

I. FIRE ALARM CONTRACTOR SHALL UPGRADE ALL FIRMWARE IN FIRE ALARM SYSTEM TO MOST RECENT VERSIONS.

a. REPLACE EXISTING CPU WITH LATEST TECHNOLOGY (CPU-2)

b. REPLACE EXISTING SLC CARDS WITH FLASH SCAN TECHNOLOGY.

c. REPLACE EXISTING FACP POWER SUPPLIES WITH LATEST TECHNOLOGY.

d. REPLACE EXISTING PANEL COMPONENTS WITH LATEST TECHNOLOGY.

J. EXISTING DEVICES THAT ARE ABOVE AND BEYOND THE CURRENT STANDARDS SHALL REMAIN IN PLACE.

K. ETHERNET COMMUNICATIONS (NWS-3): PROVIDE ETHERNET TOPOLOGY DATA COMMUNICATIONS MODULE (LAN) THAT SHALL TRANSMIT ALL CONTROL PANEL OFF-NORMAL CONDITION, INCLUDING ALARM, WATER FLOW, SUPERVISORY, OR TROUBLE VIA EMAIL. THE LAN MODULE SHALL UTILIZE A CATEGORY 6 RJ45 DATA ETHERNET CONNECTION PORT FOR INTERCONNECTION TO THE DISTRICT LAN/WAN NETWORK. THE LAN MODULE SHALL SUPPORT REMOTE WEB BROWSING AND EMAIL ALERT FUNCTIONS.

2. CONTRACTOR SHALL PROVIDE AND INSTALL NEW VOICE EVACUATION NOTIFICATION APPLIANCES IN ACCORDANCE WITH PSD DESIGN CRITERIA AND PROJECT SPECIFICATIONS. ADDED AUDIBLE NOTIFICATION MAY BE ACCOMPLISHED BY ADDING SPEAKER ONLY DEVICES OR UTILIZATION OF SPARE CIRCUIT AND REPLACING HORN/STROBES WITH SPEAKER/STROBES OR A COMBINATION OF THE AFOREMENTIONED METHODS. IF THE CONTRACTOR ELECTS TO UTILIZE SPARE CIRCUITS FOR NEW SPEAKERS, MEGGER TESTING IS REQUIRED TO VERIFY CIRCUIT INTEGRITY.

A. ADD DIGITAL VOICE COMMAND AND DAA2-SERIES AMPLIFIERS.

B. CONTRACTOR SHALL INCLUDE DESIGN-BUILD NOTIFICATION APPLIANCE LAYOUT.

C. CONTRACTOR SHALL REPLACE EXISTING SOUND SYSTEM SHUTDOWNS WITH LOW LEVEL AUDIO AND DUCKING MODULES (AUX GYMNASIUM, GYMNASIUM, CAFETERIA/AUDITORIUM, ETC.).

3. BOSCH COMMUNICATOR (PROGRAMMING BY PSD):

A. PROVIDE TWO (2) PHONE LINE FROM THE NEAREST TELECOM 66 BLOCKS (PROVIDE ADDITIONAL BLOCK IF REQUIRED) AND TERMINATED IN THE FACP IN RJ31X BOXES AND ONE DATA LINE FROM CLOSEST NETWORK PATCH PANEL IN A IDF OR MDF ROOM. BOSCH 465 DIALER CAPTURE ETHERNET MODULE:

a. EXTEND DACT PHONE LINE FROM MDF 66 BLOCK TO BOSCH 465 MODULE. PHONE LINE SHALL RETURN TO 66 BLOCK FOR CONNECTION TO A LEASED VOICE LINE.

b. THE BOSCH 465 SHALL UTILIZE A CATEGORY 6 RJ45 DATA ETHERNET CONNECTION PORT FOR INTERCONNECTION TO THE DISTRICT LAN/WAN NETWORK.

c. PROVIDE THREE (3) FIRE ALARM MONITOR MODULES TO SUPERVISE BOSCH B465 SYSTEM TROUBLE, B465 LOSS OF 120VAC, B465 BATTERY FAIL.

d. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE INSTALL LOCATION OF THE BOSCH COMMUNICATOR, PHONE AND DATA DROPS WITH OWNER AND ENGINEER.

B. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL RACEWAY, BOXES, SLEEVES, ETC. AS REQUIRED. COORDINATE WITH LOW VOLTAGE CABLING CONTRACTOR FOR REQUIREMENTS.

C. ELECTRICAL CONTRACTOR SHALL EMPLOY DISTRICT APPROVED TELECOM DATA CABLING CONTRACTOR TO RUN ALL DATA AND TELEPHONE CABLING AND DROPS. DISTRICT IT DEPARTMENT SHALL MAKE ALL FINAL CROSS-CONNECTS TO ENSURE LINE SEIZURE AT THE FACP.

4. PROVIDE CARBON MONOXIDE DETECTION IN ACCORDANCE WITH THE IFC.

5. PROVIDE AND INSTALL NEW WIRE FOR VISUAL NOTIFICATION APPLIANCE CIRCUITS.

6. PROVIDE AND INSTALL NEW WIRE FOR AUDIBLE NOTIFICATION APPLIANCE CIRCUITS.

FIRE ALARM SYSTEM DEVICE LEGEND

DEVICE	DESCRIPTION
	FIRE ALARM CONTROL PANEL - NOTIFIER NFS2-3030
	GRAPHIC MAP, SNAP FRAME
	RECORD DOCUMENT BOX
	REMOTE POWER SUPPLY, INTELLIGENT
	100W AMPLIFIER
	DIGITAL ALARM COMMUNICATOR - POINT CONTACT ID
	BOSCH 465 COMMUNICATOR - POINT CONTACT ID
	MICROPHONE
	MANUAL PULL STATION, DOUBLE ACTION, INTELLIGENT W/ KEY
	MANUAL PULL STATION, DOUBLE ACTION, CONVENTIONAL
	KNOX BOX, EXISTING
	PHOTOELECTRIC SMOKE DETECTOR, INTELLIGENT
	SMOKE DETECTOR, CONVENTIONAL
	FIXED 190" HEAT DETECTOR, INTELLIGENT
	FIXED 135" HEAT DETECTOR, CONVENTIONAL
	REMOTE TEST STATION
	PHOTOELECTRIC DUCT SMOKE DETECTOR, INTELLIGENT, HI-FLO OR LOW-FLO
	CARBON MONOXIDE DETECTOR, NON-INTELLIGENT
	RELAY MODULE, INTELLIGENT, WITH HEAVY DUTY RELAY
	SINGLE INPUT MODULE, INTELLIGENT
	MAGNETIC DOOR HOLDER, EXISTING
	AUTOMATIC SPRINKLER WATER FLOW SWITCH
	AUTOMATIC SPRINKLER TAMPER SWITCH
	HORN/STROBE, CEILING MOUNT, CD INTENSITY
	HORN, CEILING MOUNT
	HORN/STROBE, WALL MOUNT, CANDELA INTENSITY
	INTERIOR LOUDSPEAKER, NEW
	STROBE, CEILING MOUNT, CANDELA INTENSITY
	STROBE, WALL MOUNT, CANDELA INTENSITY
	HORN/STROBE, CEILING MOUNT, CD INTENSITY - BASE BID ADD
	HORN, CEILING MOUNT - BASE BID ADD
	WEATHERPROOF DEVICE
	DEVICE SPECIFIC UL LISTED WIRE GUARD/PROTECTIVE COVER
	FIRE DEPARTMENT CONNECTION
	PHONE LINE
	DATA
	TRANSIENT SURGE PROTECTION

DEVICE CANDELA & LABELING

NOTIFICATION METHOD - PUBLIC MODE

CANDELA RATING: H15C = HORN, CEILING MOUNT 15 = 15 CANDELA
[LOW = LOW HORN SETTING]

NOTIFICATION APPLIANCES SHALL BE RED AND LABELED "FIRE"
*REFER TO RM.FA101A FOR ACOUSTICALLY DISTINGUISHABLE SPACES CHART

SURVIVABILITY LEVEL = 0

APPLICABLE CODES & STANDARDS

NFPA 72 (2016), IFC (2018), IMC (2018), IBC (2018), NEC (2017)

GOVERNING CODES

IBC 2018 303.1.3 ASSOCIATED WITH GROUP E OCCUPANCIES A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES THAT IS ASSOCIATED WITH A GROUP E OCCUPANCY IS NOT CONSIDERED A SEPARATE OCCUPANCY.

- 2018 INTERNATIONAL BUILDING CODE
- 2018 INTERNATIONAL FIRE ALARM CODE
- 2018 INTERNATIONAL MECHANICAL CODE
- 2018 INTERNATIONAL ENERGY CODE
- 2018 INTERNATIONAL PLUMBING CODE
- 2017 NATIONAL ELECTRICAL CODE
- CONSTRUCTION TYPE: II-B
- NUMBER OF STORIES: 1-2
- OCCUPANCY: E, A2.1
- FIRE ALARM: HORN/STROBES
- FIRE PROTECTION: FULLY SPRINKLERED

CLPM: NO PHS: PARTIAL RMHS: YES LMS: NO TES: YES WMS: YES

CLPM: 72.972 PHS: 285,288 RMHS: 288,768 TES: 50,868 WMS: 122,124

SHEET INDEX

SHEET NUMBER	SHEET DESCRIPTION
FA000	COVER PAGE - FIRE ALARM SYSTEM
FA001	CONCEPTUAL SEQUENCE, ADS & WIRE CHART
CL.FAO101	OVERALL - FIRE ALARM SYSTEM PLAN
CL.FA101A	AREA A - FIRE ALARM SYSTEM PLAN
CL.FA101B	AREA B - FIRE ALARM SYSTEM PLAN
CL.FA101C	AREA C - FIRE ALARM SYSTEM PLAN
FC.FAO101	LOWER LEVEL - OVERALL - FIRE ALARM SYSTEM PLAN
FC.FAO102	UPPER LEVEL - OVERALL - FIRE ALARM SYSTEM PLAN
FC.FA101A	LOWER LEVEL - AREA A - FIRE ALARM SYSTEM PLAN
FC.FA101B	LOWER LEVEL - AREA B - FIRE ALARM SYSTEM PLAN
FC.FA101C	LOWER LEVEL - AREA C - FIRE ALARM SYSTEM PLAN
FC.FA101D	LOWER LEVEL - AREA D - FIRE ALARM SYSTEM PLAN
FC.FA101E	LOWER LEVEL - AREA E - FIRE ALARM SYSTEM PLAN
FC.FA101F	LOWER LEVEL - AREA F - FIRE ALARM SYSTEM PLAN
FC.FA101G	LOWER LEVEL - AREA G - FIRE ALARM SYSTEM PLAN
FC.FA101H	LOWER LEVEL - AREA H - FIRE ALARM SYSTEM PLAN
FC.FA101I	LOWER LEVEL - AREA I - FIRE ALARM SYSTEM PLAN
FC.FA101J	UPPER LEVEL - AREA J - FIRE ALARM SYSTEM PLAN
FC.FA101K	UPPER LEVEL - AREA K - FIRE ALARM SYSTEM PLAN
FC.FA101L	UPPER LEVEL - AREA L - FIRE ALARM SYSTEM PLAN
FC.FA101M	UPPER LEVEL - AREA M - FIRE ALARM SYSTEM PLAN
LI.FAO101	OVERALL - FIRE ALARM SYSTEM PLAN
LI.FA101A	AREA A - FIRE ALARM SYSTEM PLAN
LI.FA101B	AREA B - FIRE ALARM SYSTEM PLAN
LI.FA101C	AREA C - FIRE ALARM SYSTEM PLAN

SHEET INDEX

SHEET NUMBER	SHEET DESCRIPTION
LI.FA101D	AREA D - FIRE ALARM SYSTEM PLAN
PH.FAO101	OVERALL - FIRE ALARM SYSTEM PLAN
PH.FA101A	AREA A - FIRE ALARM SYSTEM PLAN
PH.FA101B	AREA B - FIRE ALARM SYSTEM PLAN
PH.FA101C	AREA C - FIRE ALARM SYSTEM PLAN
PH.FA101D	AREA D - FIRE ALARM SYSTEM PLAN
PH.FA101E	AREA E - FIRE ALARM SYSTEM PLAN
PH.FA101F	AREA F - FIRE ALARM SYSTEM PLAN
PH.FA101G	AREA G - FIRE ALARM SYSTEM PLAN
PH.FA101HI	AREA H & I - FIRE ALARM SYSTEM PLAN
PH.FA101J	AREA J - FIRE ALARM SYSTEM PLAN
PH.FA101K	AREA K - FIRE ALARM SYSTEM PLAN
RM.FAO101	FULL VIEW - FIRE ALARM SYSTEM PLAN
RM.FA101A	AREA A - FIRE ALARM SYSTEM PLAN
RM.FA101B	AREA B - FIRE ALARM SYSTEM PLAN
RM.FA101C	AREA C - FIRE ALARM SYSTEM PLAN
RM.FA101D	AREA D - FIRE ALARM SYSTEM PLAN
RM.FA101E	AREA E - FIRE ALARM SYSTEM PLAN
RM.FA101F	AREA F - FIRE ALARM SYSTEM PLAN
RM.FA101G	AREA G - FIRE ALARM SYSTEM PLAN

SHEET INDEX

SHEET NUMBER	SHEET DESCRIPTION
RM.FA101H	AREA H - FIRE ALARM SYSTEM PLAN
RM.FA101I	AREA I - FIRE ALARM SYSTEM PLAN
TR.FAO101	OVERALL - FIRE ALARM SYSTEM PLAN
TR.FA101A	AREA A - FIRE ALARM SYSTEM PLAN
TR.FA101B	AREA B - FIRE ALARM SYSTEM PLAN
TR.FA101C	AREA C - FIRE ALARM SYSTEM PLAN
WB.FAO101	OVERALL - FIRE ALARM SYSTEM PLAN
WB.FA101A	AREA A - FIRE ALARM SYSTEM PLAN
WB.FA101B	AREA B - FIRE ALARM SYSTEM PLAN
WB.FA101C	AREA C - FIRE ALARM SYSTEM PLAN
WB.FA101D	AREA D - FIRE ALARM SYSTEM PLAN
FA200	EXAMPLE RISER DIAGRAM/DETAILS - FIRE ALARM SYSTEM
FA300	TECHNICAL GUIDELINES
FA301	TECHNICAL GUIDELINES
FA302	TECHNICAL GUIDELINES

PERMITS AND FEES

THE CONTRACTOR SHALL INCLUDE ALL FEES AND COSTS ASSOCIATED WITH OBTAINING PERMITS FOR EACH SCHOOL. THE CONTRACTOR IS ADVISED THAT THERE MAY BE COSTS INCURRED BY THE STATE OF COLORADO, DORA AS WELL AS THE LOCAL AUTHORITY HAVING JURISDICTION. SOME JURISDICTIONS REQUIRE BOTH A FIRE ALARM PERMIT AS WELL AS AN ELECTRICAL PERMIT.

CEILING INFORMATION

CEILINGS IN CORRIDORS, ADMINISTRATIVE AREA, AND NEW ADDITION CLASSROOMS ARE SUSPENDED ACOUSTICAL TILE (SAT) LESS THAN 10" ABOVE FINISHED FLOOR. CEILING IN CAFETERIA IS SAT 14" ABOVE FINISHED FLOOR. THE GYM, LIBRARY, AND ALL OTHER CLASSROOMS HAVE EXPOSED BEAM CONSTRUCTION.

DEMOLITION ON FLOOR PLANS

THE DEMOLITION INFORMATION ON EACH FLOOR PLAN SHOWS THE EXISTING FIRE ALARM INFORMATION AVAILABLE. THE CONTRACTOR IS RESPONSIBLE FOR COMPLETE DEMOLITION OF ALL EXISTING FIRE ALARM WHETHER OR NOT SPECIFICALLY SHOWN.

ENVIRONMENTAL CONCERNS

LEAD-BASED PAINT: PLEASE KNOW THAT IF YOU WILL BE DISTURBING AN INTERIOR PAINTED SURFACE OF OVER 6 SQ. FT, A LEAD BASED PAINT SAMPLE SHOULD BE GATHERED PRIOR.

ASBESTOS: WHILE THE REPORTS WILL GIVE SOME INSIGHT INTO CERTAIN BUILDING MATERIALS, THEY DO NOT PROVIDE ENOUGH INFORMATION TO BE CONSIDERED A COMPREHENSIVE EVALUATION OF THE PROJECT TO ENSURE NO ACM WILL BE IMPACTED. THIS IS A SUBSTANTIAL PROJECT AND ONE THAT SHOULD BE EVALUATED BY A THIRD PARTY CONSULTANT, RLH ENGINEERING, TO ENSURE NO ASBESTOS IS IMPACTED.

PINK DEVICES

DEVICES THAT ARE COLORED PINK ARE NEW DEVICE LOCATIONS. CONTRACTOR SHALL PROVIDE AND INSTALL HARDWARE ASSOCIATED WITH NEW DEVICE INSTALLATION.

PROTECTION DURING CONSTRUCTION

CONTRACTOR SHALL PROTECT EXISTING SMOKE DETECTOR SENSORS DURING CONSTRUCTION AND CLEAN UP IN ACCORDANCE WITH NFPA 72 §17.7.1.11. 3.

FA000

GENERAL NOTES

1. CONTRACTOR SHALL EXAMINE THE SITE AND CONSTRUCTION DOCUMENTS. CEILING CONFIGURATIONS MAY REVEAL SURFACE MOUNTED DEVICES WHICH SHALL BE PROTECTED IN A MANNER SUCH THAT KNOCKOUTS ARE NOT EXPOSED. BACKBOXES SHALL BE PROVIDED BY FIRE ALARM SYSTEM VENDOR AND APPROVED BY ENGINEER OF RECORD PRIOR TO INSTALLATION.

2. CONTRACTOR SHALL ALIGN DEVICE INSTALLATION WITH LIGHTING FIXTURES OR SHALL AS IN WORKMANSHIP-LIKE MANNER. COORDINATE WITH THE ARCHITECT OR ENGINEER OF RECORD.

3. SURFACE MOUNTED DEVICES REQUIRE A WIRE-MOULD BACKBOX OR A DEVICE SPECIFIC BACKBOX SKIRT.

4. APPLIANCES SHALL BE INSTALLED BELOW LIGHTING LEVEL.

5. EXPOSED OR NON-ACCESSIBLE WIRE SHALL BE INSTALLED IN CONDUIT.

6. CONDUIT SHALL BE PAINTED TO MATCH THE EXISTING SURFACE COLOR AS REQUESTED BY OWNER.

7. DEMOLITION FOR EXISTING NOTIFICATION APPLIANCES REQUIRE A COVER PLATE WITH FINISHED EDGES. IF THE NOTIFICATION APPLIANCE BACK BOX CONTAINS FIRE ALARM WIRE, THE COVER PLATE AND FINISHED EDGES SHALL BE RED, OTHERWISE PAINT TO MATCH EXISTING SURFACE.

FLAG NOTES

CONTRACTOR SHALL FIELD VERIFY POWER SUPPLY LOCATIONS.

HORN/STROBE SHALL BE INSTALLED WHETHER AN EXISTING APPLIANCE IS INSTALLED HERE OR NOT. INSTALL A NEW HORN/STROBE AND SET TO 75DB LOW.

INSTALL NOTIFICATION APPLIANCE IN PIT.

INSTALL NOTIFICATION APPLIANCE ON FIRST FLOOR.

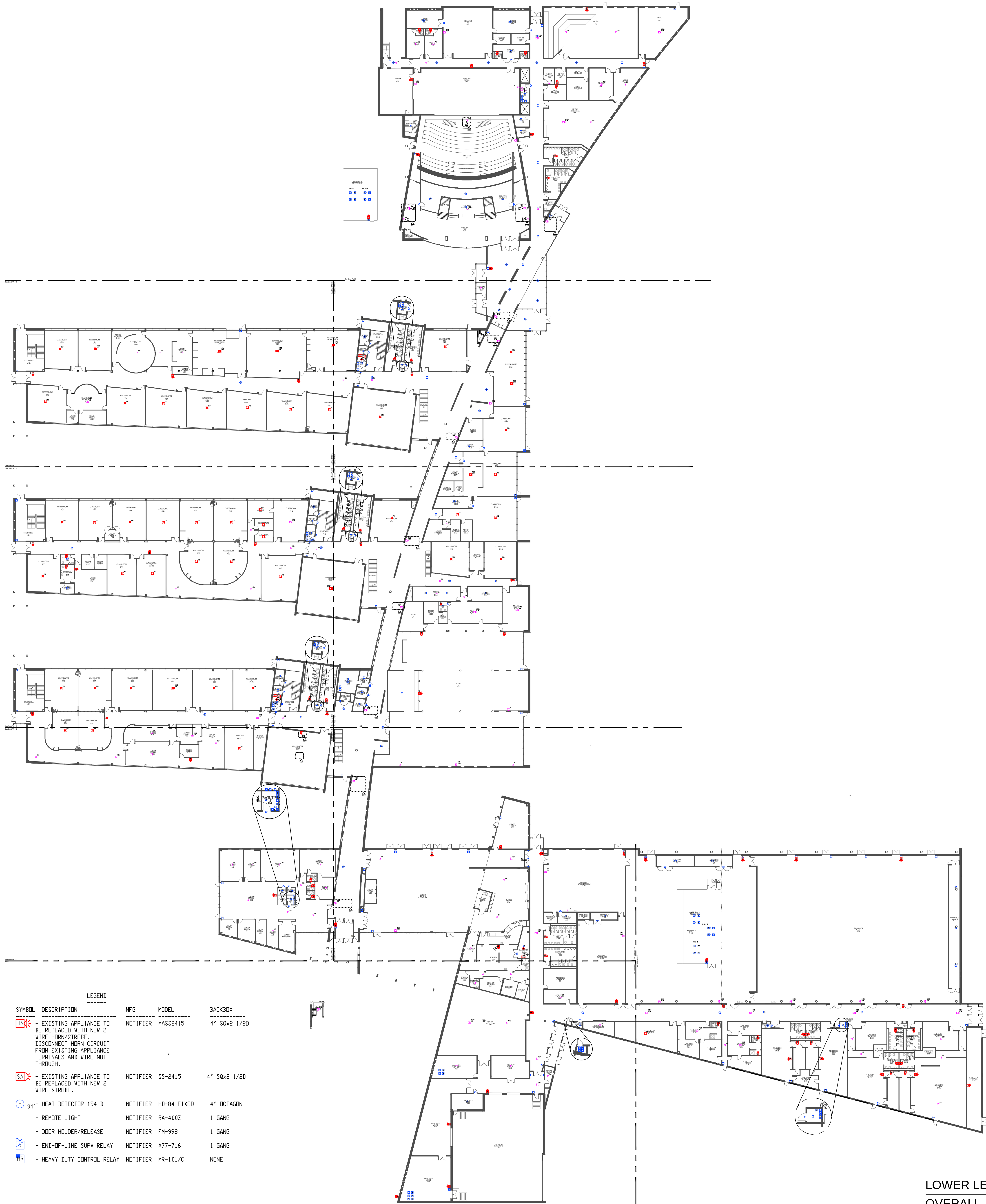
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NOT ALL NOTES ARE USED ON EACH PAGE

ADD 2

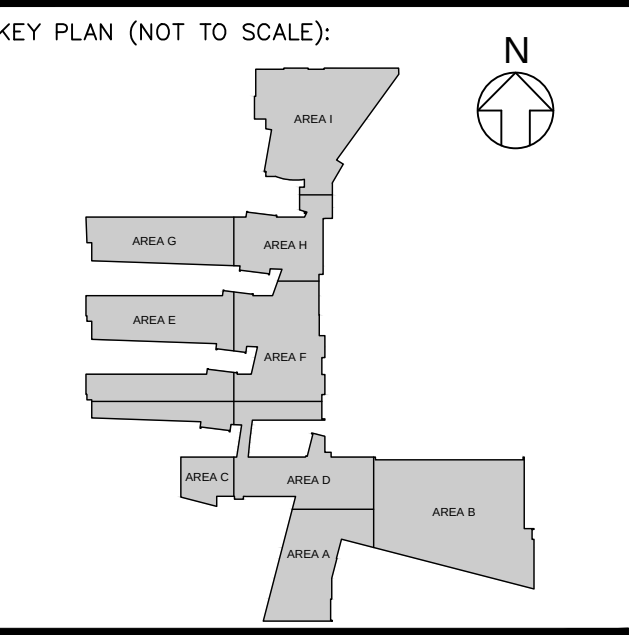
EXISTING APPLIANCE
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LEGEND				
SYMBOL	DESCRIPTION	MFG	MODEL	BACKBOX
	FIRE ALARM CONTROL PANEL	NOTIFIER	AFP2020	CAB-32
	ANNUNCIATOR, LCD DISPLAY	NOTIFIER	LCD-80	ABF-1
	GRAPHIC ZONE MAP	CUSTOM	CUSTOM	NONE
	IONIZATION DETECTOR	NOTIFIER	CPX-551/BX-501	4" SQx2 1/2D
	PHOTO DUXT DETECTOR	NOTIFIER	DHX-501	DWN
	REMOTE TEST	NOTIFIER	RTS-451	1 GANG
	MANUAL STA/MONITOR MOD	NOTIFIER	N-BG-10/MMX-101	1 GANG DEEP
	MONITOR MODULE	NOTIFIER	MMX-1	4" SQx2 1/2D
	MONITOR MINI-MODULE	NOTIFIER	MMX-101	1 GANG
	CONTROL MODULE A = AUDIBLE/VISUAL CTRL R = RELAY CONTROL	NOTIFIER	CMX-1	4" SQx2 1/2D
	WATERFLOW SWITCH	BY OTHERS		
	VALVE TAMPER SWITCH	BY OTHERS		

LEGEND				
SYMBOL	DESCRIPTION	MFG	MODEL	BACKBOX
	EXISTING APPLIANCE TO BE REPLACED WITH NEW 2 WIRE HORN/STROBE. DISCONNECT HORN CIRCUIT FROM EXISTING APPLIANCE TERMINALS AND WIRE NOT THROUGH.	NOTIFIER	MASS2415	4" SQx2 1/2D
	EXISTING APPLIANCE TO BE REPLACED WITH NEW 2 WIRE STROBE.	NOTIFIER	SS-2415	4" SQx2 1/2D
	HEAT DETECTOR 194 D	NOTIFIER	HD-84 FIXED	4" OCTAGON
	REMOTE LIGHT	NOTIFIER	RA-400Z	1 GANG
	DOOR HOLDER/RELEASE	NOTIFIER	FM-998	1 GANG
	END-OF-LINE SUPV RELAY	NOTIFIER	A77-716	1 GANG
	HEAVY DUTY CONTROL RELAY	NOTIFIER	MR-101/C	NONE



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POUDRE SCHOOL DISTRICT

NORTHERN COLORADO

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DESCRIPTION: ADDENDUM 2		
NO.:	DATE:	BY:
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DESCRIPTION:		

DESCRIPTION:		
BID DOCUMENTS		
DATE:	SCALE:	PAPER:
OCT 7, 2020	NTS	30 x 42
PROJECT MANAGER:		PROJECT NO.:
GREY GUSTAFSON		19500-4E
DRAWN BY:	DRAWING FILE:	
TGS	POUDRE HS FA TLH	

OWNER:
POUDRE SCHOOL DISTRICT
2407 LAPORTE AVENUE
FORT COLLINS, CO 80521

PROJECT:
FORT COLLINS HIGH SCHOOL
3400 LAMBKIN WAY,
FORT COLLINS, CO 80525

SHEET TITLE:
LOWER LEVEL - OVERALL
FIRE ALARM SYSTEM PLAN

SHEET NAME:
FC.FAO101

GENERAL NOTES

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INSTALL NOTIFICATION APPLIANCE ON FIRST FLOOR.

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NOT ALL NOTES ARE USED ON EACH PAGE

ADD 2

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UPPER LEVEL - FIRE ALARM SYSTEM PLAN
OVERALL

NOT TO SCALE

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POUDRE SCHOOL DISTRICT

NORTHERN COLORADO

ISSUES & REVISIONS:		
NO.: 1	DATE: 11/04/2020	BY: TGS
DESCRIPTION: ADDENDUM 2		
NO.:	DATE:	BY:
DESCRIPTION:		
NO.:	DATE:	BY:
DESCRIPTION:		

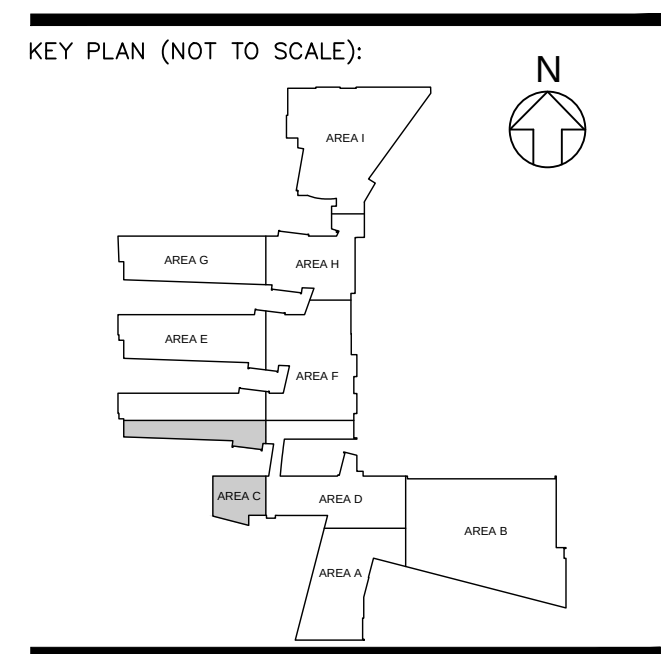
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DATE:	SCALE:	PAPER:
OCT 7, 2020	NTS	30 x 42
PROJECT MANAGER:		PROJECT NO.:
GREY GUSTAFSON		19500-4E
DRAWN BY:	DRAWING FILE:	
TGS	POUDRE HS FA TLH	

OWNER:
POUDRE SCHOOL DISTRICT
2407 LAPORTE AVENUE
FORT COLLINS, CO 80521

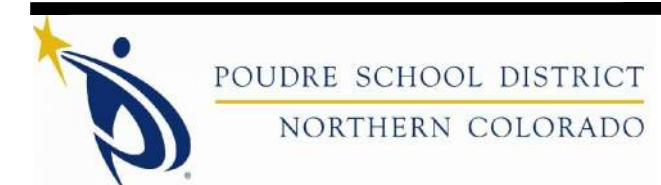
PROJECT:
FORT COLLINS HIGH SCHOOL
3400 LAMBKIN WAY,
FORT COLLINS, CO 80525

SHEET TITLE:
UPPER LEVEL - OVERALL -
FIRE ALARM SYSTEM PLAN

SHEET NAME:
FC.FAO102



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DESCRIPTION:

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DATE: **OCT 7, 2020**

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

PAPER: **30 x 42**

PROJECT MANAGER: **GREY GUSTAFSON**

PROJECT NO.: **19500-4E**

DRAWN BY: **TGS**

DRAWING FILE: **POUDRE HS FA TLH**

OWNER:

**POUDRE SCHOOL DISTRICT
2407 LAPORTE AVENUE
FORT COLLINS, CO 80521**

PROJECT:

**FORT COLLINS HIGH SCHOOL
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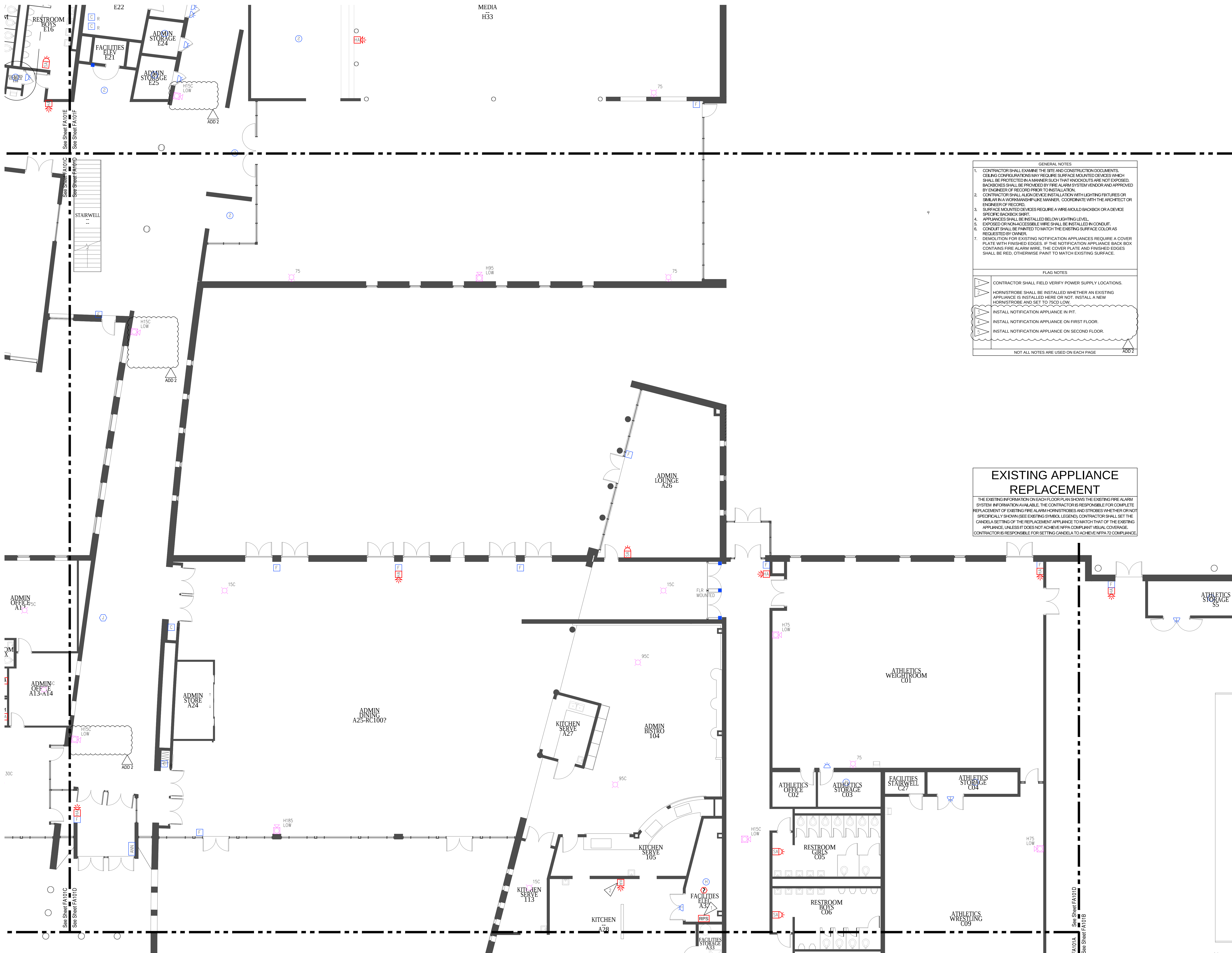
SHEET TITLE:
**LOWER LEVEL - AREA C -
FIRE ALARM SYSTEM PLAN**

SHEET NAME:

FC.FA101C

LOWER LEVEL - FIRE ALARM SYSTEM PLAN
AREA C





GENERAL NOTES

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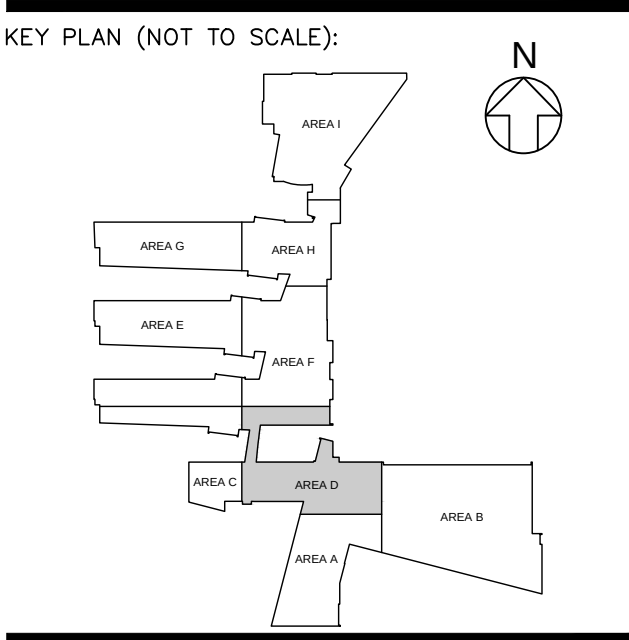
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NORTHERN COLORADO

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DRAWN BY: TGS		DRAWING FILE: POUDRE HS FA TLH

OWNER:
POUDRE SCHOOL DISTRICT
2407 LAPORTE AVENUE
FORT COLLINS, CO 80521

PROJECT:
FORT COLLINS HIGH SCHOOL
3400 LAMBKIN WAY,
FORT COLLINS, CO 80525

SHEET TITLE:
LOWER LEVEL - AREA D -
FIRE ALARM SYSTEM PLAN

SHEET NAME:

LOWER LEVEL - FIRE ALARM SYSTEM PLAN

AREA D



FC.FA101D



GENERAL NOTES

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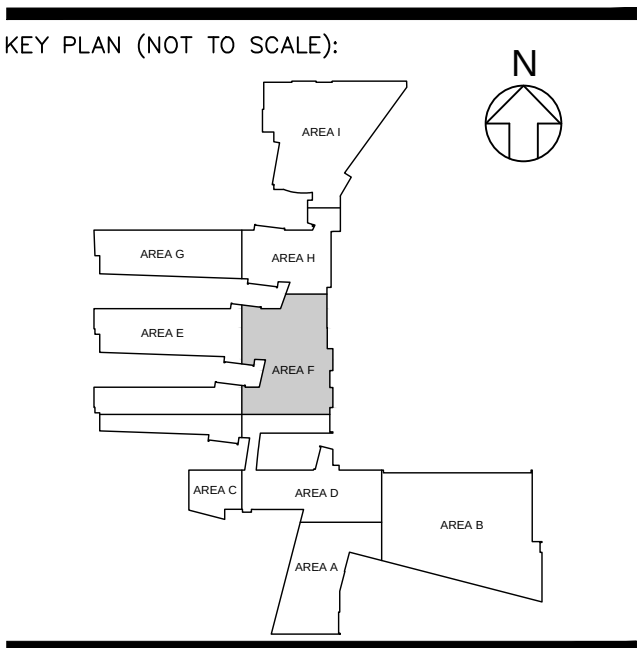
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PROJECT NO.:

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DRAWN BY:

DRAWING FILE:

TGS

POUDRE HS FA TLH

OWNER:

POUDRE SCHOOL DISTRICT

2407 LAPORTE AVENUE

FORT COLLINS, CO 80521

PROJECT:

FORT COLLINS HIGH SCHOOL

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FORT COLLINS, CO 80525

SHEET TITLE:

LOWER LEVEL - AREA F -

FIRE ALARM SYSTEM PLAN



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1. CONTRACTOR SHALL EXAMINE THE SITE AND CONSTRUCTION DOCUMENTS. CEILING CONFIGURATIONS MAY REQUIRE SURFACE MOUNTED DEVICES WHICH SHALL BE PROTECTED IN A MANNER SUCH THAT KNOCKOUTS ARE NOT EXPOSED. BACKBOXES SHALL BE PROVIDED BY FIRE ALARM SYSTEM VENDOR AND APPROVED BY ENGINEER OF RECORD PRIOR TO INSTALLATION.

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3. SURFACE MOUNTED DEVICES REQUIRE A WIRE-MOULD BACKBOX OR A DEVICE SPECIFIC BACKBOX SKIRT.

4. APPLIANCES SHALL BE INSTALLED BELOW LIGHTING LEVEL.

5. EXPOSED OR NONACCESSIBLE WIRE SHALL BE INSTALLED IN CONDUIT.

6. CONDUIT SHALL BE PAINTED TO MATCH THE EXISTING SURFACE COLOR AS REQUESTED BY OWNER.

7. DEMOLITION FOR EXISTING NOTIFICATION APPLIANCES REQUIRE A COVER PLATE WITH FINISHED EDGES. IF THE NOTIFICATION APPLIANCE BACK BOX CONTAINS FIRE ALARM WIRE. THE COVER PLATE AND FINISHED EDGES SHALL BE RED, OTHERWISE PAINT TO MATCH EXISTING SURFACE.

FLAG NOTES

CONTRACTOR SHALL FIELD VERIFY POWER SUPPLY LOCATIONS.

HORN/STROBE SHALL BE INSTALLED WHETHER AN EXISTING APPLIANCE IS INSTALLED HERE OR NOT. INSTALL A NEW HORN/STROBE AND SET TO 75C/LOW.

INSTALL NOTIFICATION APPLIANCE IN PIT.

INSTALL NOTIFICATION APPLIANCE ON FIRST FLOOR.

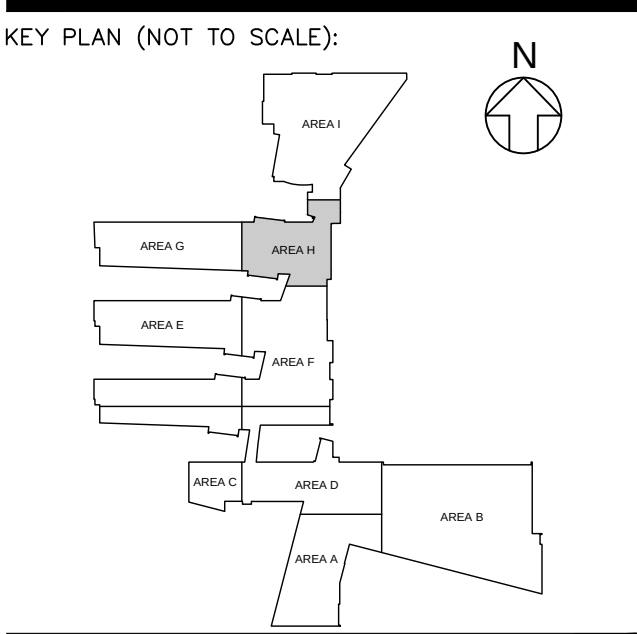
INSTALL NOTIFICATION APPLIANCE ON SECOND FLOOR.

NOT ALL NOTES ARE USED ON EACH PAGE

ADD 2

EXISTING APPLIANCE REPLACEMENT

THE EXISTING INFORMATION ON EACH FLOOR PLAN SHOWS THE EXISTING FIRE ALARM SYSTEM INFORMATION AVAILABLE. THE CONTRACTOR IS RESPONSIBLE FOR COMPLETE REPLACEMENT OF EXISTING FIRE ALARM HORN/STROBES AND STROBES WHETHER OR NOT SPECIFICALLY SHOWN (SEE EXISTING SYMBOL LEGEND). CONTRACTOR SHALL SET THE CANDELA SETTING OF THE REPLACEMENT APPLIANCE TO MATCH THAT OF THE EXISTING APPLIANCE, UNLESS IT DOES NOT ACHIEVE NFPA COMPLIANT VISUAL COVERAGE. CONTRACTOR IS RESPONSIBLE FOR SETTING CANDELA TO ACHIEVE NFPA 72 COMPLIANCE.





TLH FIRE
Specializing In Fire Alarm Engineering
303-517-1775



POUDRE SCHOOL DISTRICT
NORTHERN COLORADO

ISSUES & REVISIONS:		
NO.: 1	DATE: 11/04/2020	BY: TGS
DESCRIPTION: ADDENDUM 2		
NO.:	DATE:	BY:
DESCRIPTION:		
NO.:	DATE:	BY:
DESCRIPTION:		

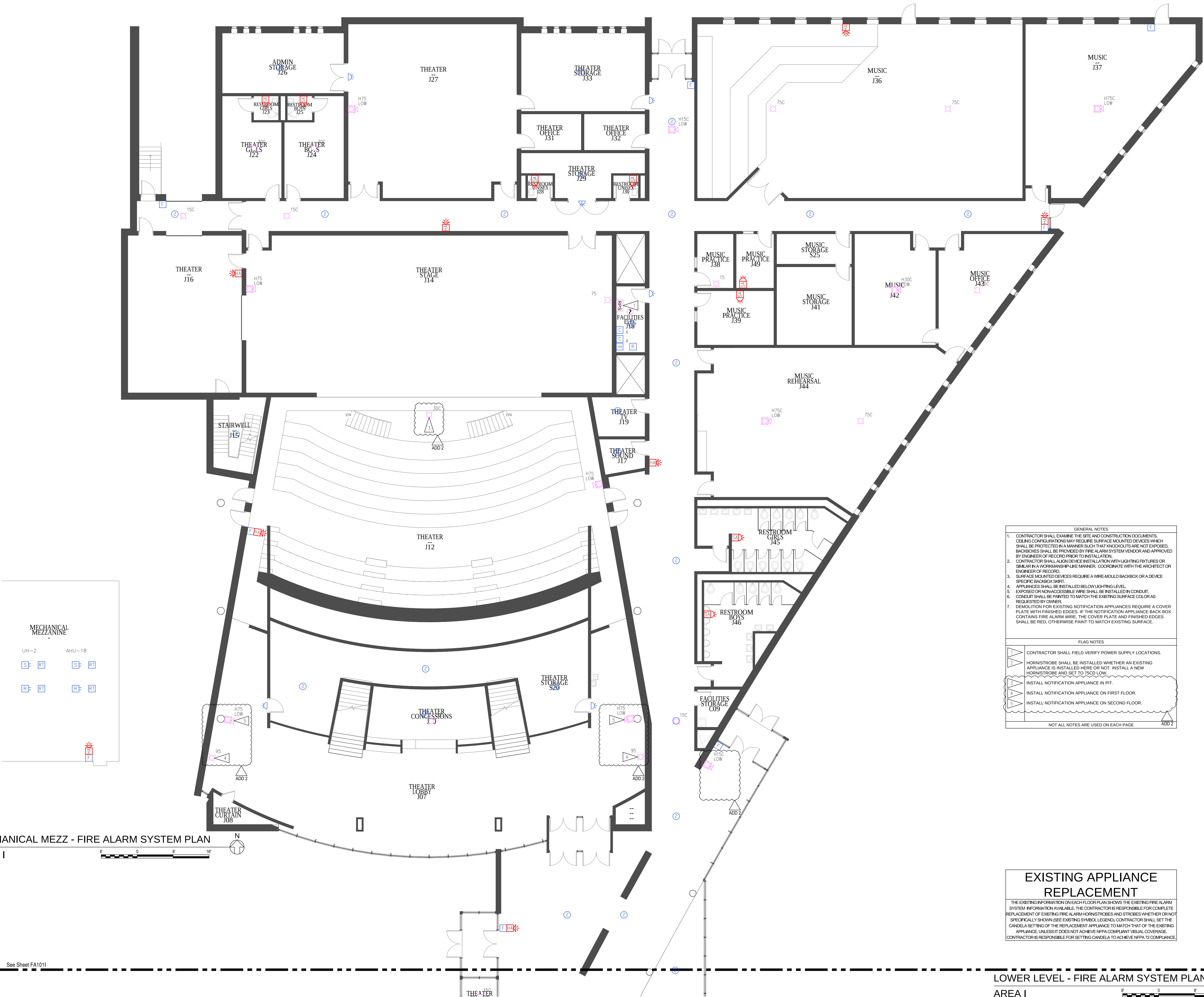
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DATE: OCT 7, 2020	SCALE: 1/8"=1'-0"	PAPER: 30 x 42
PROJECT MANAGER: GREY GUSTAFSON	PROJECT NO.: 19500-4E	
DRAWN BY: TGS	DRAWING FILE: POUDRE HS FA TLH	

OWNER:
POUDRE SCHOOL DISTRICT
2407 LAPORTE AVENUE
FORT COLLINS, CO 80521

PROJECT:
FORT COLLINS HIGH SCHOOL
3400 LAMBKIN WAY,
FORT COLLINS, CO 80525

SHEET TITLE:
LOWER LEVEL - AREA H -
FIRE ALARM SYSTEM PLAN

SHEET NAME:
FC.FA101H



MECHANICAL MEZZ - FIRE ALARM SYSTEM PLAN
AREA I

GENERAL NOTES

- CONTRACTOR SHALL EXAMINE THE SITE AND CONSTRUCTION DOCUMENTS. CEILING CONFIGURATIONS MAY REQUIRE SURFACE MOUNTED DEVICES WHICH SHALL BE PROTECTED IN A MANNER SUCH THAT KNOCKOUTS ARE NOT EXPOSED. BACKBOXES SHALL BE PROVIDED BY FIRE ALARM SYSTEM VENDOR AND APPROVED BY ENGINEER OF RECORD PRIOR TO INSTALLATION.
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FLAG NOTES

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INSTALL NOTIFICATION APPLIANCE IN PIT.

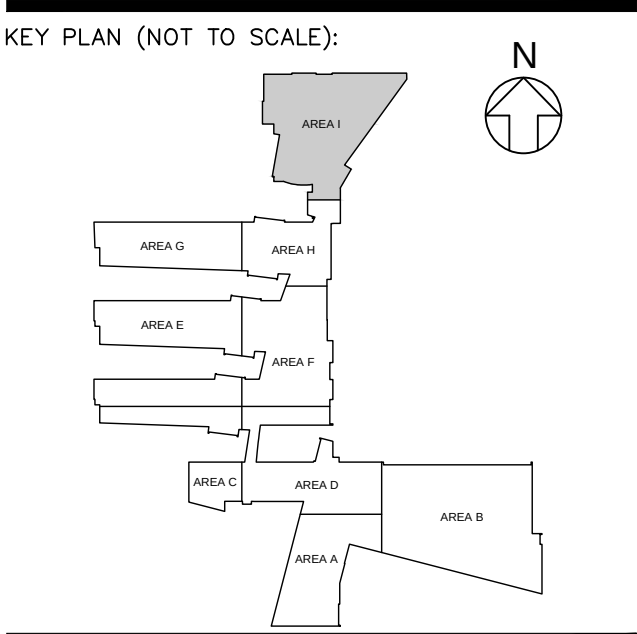
INSTALL NOTIFICATION APPLIANCE ON FIRST FLOOR.

INSTALL NOTIFICATION APPLIANCE ON SECOND FLOOR.

NOT ALL NOTES ARE USED ON EACH PAGE

EXISTING APPLIANCE REPLACEMENT

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POUDRE SCHOOL DISTRICT
NORTHERN COLORADO

ISSUES & REVISIONS:		
NO.: 1	DATE: 11/04/2020	BY: TGS
DESCRIPTION: ADDENDUM 2		
NO.:	DATE:	BY:
DESCRIPTION:		

DESCRIPTION:		
BID DOCUMENTS		
DATE: OCT 7, 2020	SCALE: 1/8"=1'-0"	PAPER: 30 x 42
PROJECT MANAGER: GREY GUSTAFSON	PROJECT NO.: 19500-4E	
DRAWN BY: TGS	DRAWING FILE: POUDRE HS FA TLH	

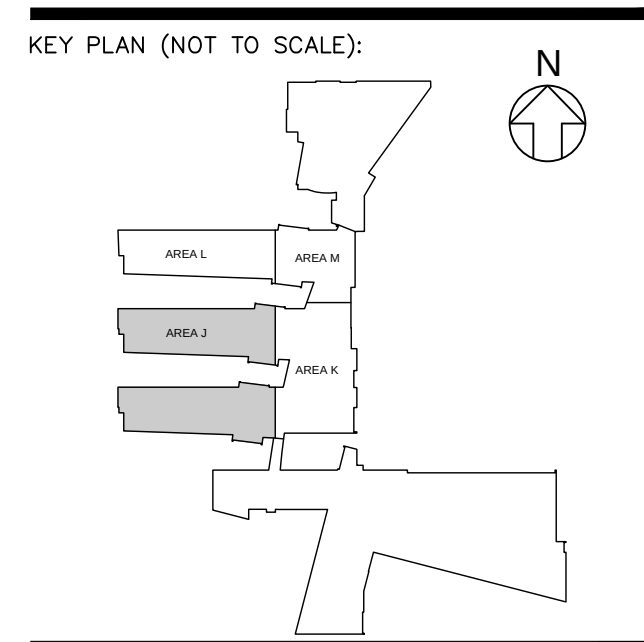
OWNER:
POUDRE SCHOOL DISTRICT
2407 LAPORTE AVENUE
FORT COLLINS, CO 80521

PROJECT:
FORT COLLINS HIGH SCHOOL
3400 LAMBKIN WAY,
FORT COLLINS, CO 80525

SHEET TITLE:
**LOWER LEVEL - AREA I -
FIRE ALARM SYSTEM PLAN**

SHEET NAME:
FC.FA101I

LOWER LEVEL - FIRE ALARM SYSTEM PLAN
AREA I



TLH FIRE
Specializing In Fire Alarm Engineering
303-517-1775



ISSUES & REVISIONS:		
NO.:1	DATE:11/04/2020	BY: TGS
DESCRIPTION: ADDENDUM 2		
NO.:	DATE:	BY:
DESCRIPTION:		
NO.:	DATE:	BY:
DESCRIPTION:		

DESCRIPTION:
BID DOCUMENTS

DATE: **OCT 7, 2020** SCALE: **1/8"=1'-0"** PAPER: **30 x 42**

PROJECT MANAGER: PROJECT NO.:
GREY GUSTAFSON 19500-4E

DRAWN BY: TGS
DRAWING FILE: POUDRE HS FA TLH

OWNER:
**POUDRE SCHOOL DISTRICT
2407 LAPORTE AVENUE
FORT COLLINS, CO 80521**

PROJECT:
FORT COLLINS HIGH SCHOOL
3400 LAMBKIN WAY,
FORT COLLINS, CO 80525

SHEET TITLE:
**UPPER LEVEL - AREA J -
FIRE ALARM SYSTEM PLAN**

SHEET NAME:

FC.FA101

