



**ADVANCED
ENGINEERING
CONSULTANTS**

MECHANICAL

ELECTRICAL

PLUMBING

FIRE PROTECTION

ADDENDUM NO. TWO

August 26, 2021

Subject:

IN136 - IUPUI Athletic and Fitness Center - Replace Fire Alarm System
Indiana University Purdue University Indianapolis
IU 20200540

TO ALL DOCUMENT HOLDERS:

Enclosed herewith is a copy of Addendum No. 2 covering subject referenced above. Please retain this with your Documents. Please reference the enclosed Addendum and review it carefully with your bid package. This letter and enclosed addendum has been forwarded to all contractors holding the plans and specifications.

Any item or provision which is not mentioned in the Addenda remains as stated in the original contract documents. Please feel free to contact the undersigned at (317) 222-7871 with any questions concerning this project and addendum.

Sincerely,

Dan James
Project Manager

Enclosure/Enclosures 1. Addendum

[Cc.]
Fred Bowling – I.U.P.U.I. Project Manager



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NUMBER: TWO

PROJECT

NAME: IN136 - IUPUI Athletic and Fitness Center - Replace Fire Alarm System

PROJECT

NUMBER: IU 20200540

AEC PROJECT

NUMBER: 20-113-03

PROJECT

LOCATION: National Institute for Fitness and Sport

PREPARED

BY: Andrew Jehl

DATE: 8/26/2021

PART 1 – DRAWING REVISIONS:

- A. FA001 - General Information - Fire Alarm
 - 1. Revised General note AF and Project Specific note 9 to clarify standards. All conduit, existing and new, used in this project shall be painted red (concealed) or to match wall (exposed). All conduit and box covers shall be labeled per Owner standards (between each box and every 25' minimum).

- A. FA100 - Basement Plan - Fire Alarm
 - 1. General Note A now reads "CONDUIT: ALL CONDUIT IN THIS PROJECT MAY BE EMT. THERE IS NO REQUIREMENT FOR RGS CONDUIT IN MECHANICAL ROOMS."

ATTACHMENTS:

- 1) Addendum Cover
- 2) Addendum write up
- 3) Revised Drawings FA100 and FA100.

END OF ADDENDUM

ABBREVIATIONS	
NOTE: NOT ALL ABBREVIATIONS MAY BE USED.	
(A)	EXISTING TO BE ABANDONED
(D)	EXISTING TO BE DEMOLISHED
(E)	EXISTING TO REMAIN
(F)	FUTURE
(R)	EXISTING TO BE RELOCATED
A	AMPERE
AC	ALTERNATING CURRENT OR AIR CONDITIONER
AFB	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPS INTERRUPTING CAPACITY
ANNC	ANNUNCIATOR
AWG	AMERICAN WIRE GAUGE
BPS	BOLTED PRESSURE SWITCH
C	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CM	CONSTRUCTION MANAGER
DC	DIRECT CURRENT
DP	DISTRIBUTION PANELBOARD
DTT	DOUBLE TWIN TUBE
EB	ELECTRONIC BALLAST
EC	ELECTRICAL CONTRACTOR
EM	EMERGENCY
EMT	ELECTRICAL METAL TUBING
EWC	ELECTRIC WATER COOLER
FA	FIRE ALARM
FLA	FULL LOAD AMPS
G	GROUND
GC	GENERAL TRADES CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GEN	GENERATOR
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPC	HIGH PRESSURE CONTACT SWITCH
HZ	HERTZ
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
INCD	INCANDESCENT
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTG	LIGHTING OR LIGHT
LRA	LOCKED ROTOR AMPS
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MOCB	MAXIMUM OVERCURRENT PROTECTION
MSB	MAIN SWITCHBOARD
MH	METAL HALIDE
MTS	MANUAL TRANSFER SWITCH
NAC	NOTIFICATION APPLIANCE CIRCUIT
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NF	NON-FUSED
OCC	OCCUPANCY
PA	PUBLIC ADDRESS
PB	PULL BOX OR PUSH BUTTON
PVC	POLYVINYL CHLORIDE (PLASTIC PIPE)
PWR	POWER
RECPT	RECEPTACLE
STP	SHIELDED, TWISTED PAIR
TC	TIME CLOCK
TRT	TRIPLE TUBE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UTP	UNSHIELDED, TWISTED PAIR
V	VOLT
W	WATT
WAP	WIRELESS ACCESS POINT
WH	WATTHOUR
WP	WEATHERPROOF, NEMA 3R UNO
XFMR	TRANSFORMER
Z	IMPEDANCE
Ø	PHASE

FIRE ALARM SYMBOLS	
NOTE: NOT ALL SYMBOLS MAY BE USED.	
	MANUAL PULL STATION (48" TO HANDLE OF DEVICE)
	HEAT DETECTOR
	DUCT MOUNTED HEAT DETECTOR
	SMOKE DETECTOR
	DUCT MOUNTED SMOKE DETECTOR
	SPEAKER (CEILING MOUNTED DEVICE)
	SPEAKER (80" AFF TO BOTTOM OF DEVICE)
	SPEAKER WITH STROBE (CEILING MOUNTED DEVICE)
	SPEAKER WITH STROBE (80" AFF TO BOTTOM OF DEVICE)
	HORN (80" AFF TO BOTTOM OF DEVICE)
	HORN WITH STROBE (80" AFF TO BOTTOM OF DEVICE)
	STROBE (CEILING MOUNTED)
	WALL MOUNTED STROBE (80" AFF TO BOTTOM OF DEVICE)
	BELL, 120V
	WATER FLOW SWITCH: DIVISION 28 TO PROVIDE
	WATER TAMPER SWITCH: DIVISION 28 TO PROVIDE
	PIV VALVE
	ADDRESSIBLE INPUT-OUTPUT MODULE
	ISOLATION MODULE
	MAGNETIC DOOR HOLDER
	FIREMAN'S PHONE
	REMOTE INDICATOR STATION FOR DUCT SMOKE DETECTOR (60" AFF TO CENTERLINE)
	WALL MOUNTED REMOTE INDICATOR STATION FOR DUCT SMOKE DETECTOR (60" AFF TO CENTERLINE)
	REMOTE INDICATOR TEST SWITCH
	FAN SHUT-DOWN RELAY
	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM CONTROL PANEL
	NOTIFICATION APPLIANCE CIRCUIT PANEL

LINE TYPE LEGEND	
	EXISTING TO REMAIN
	EXISTING TO BE REMOVED
	NEW WORK

GENERAL NOTES: (CUTTING, PATCHING, PAINTING AND CLEAN UP:

- ALL CUTTING AND PATCHING SHALL BE DONE IN A NEAT AND MANNERLY FASHION AND AVOID EXCESSIVE CUTS. ALL CUTS, CORES AND DRILLED HOLES SHALL NOT BE ANY LARGER THAN REQUIRED.
 - NO CUTTING, CORING OR DRILLING WALLS BELOW 8' A.F.F.
 - ALL SURFACES CUT OR ALTERED SHALL BE PATCHED AND PAINTED BACK TO ORIGINAL SURFACE TYPE, TEXTURE.
 - ALL SURFACES PATCHED OR ALTERED SHALL BE PAINTED TO MATCH. IF NEW DEVICE OR COVER PLATE DOES NOT COMPLETELY COVER THE REMOVED DEVICE'S SURFACE, THIS CONTRACTOR SHALL PAINT AND FINISH WALL SURFACE SMOOTH TO MATCH ONLY THE AREA EXPOSED WHEN DEVICE WAS REMOVED.
 - ALL PAINTING SHALL BE DONE IN A NEAT MANNER. NO SLOP, SPILL, SPLATTER, OVERRUN OR DRIPS.
 - ALL FIRE RATED WALLS OR BARRIERS SHALL BE MAINTAINED. UTILIZE AND INSTALL ONLY UL LISTED TYPE FIRE RATED MATERIALS AND INSTALL PER UL LISTED INSTALLATION INSTRUCTIONS. ALL INSTALLATIONS SHALL BE DONE IN A NEAT MANNER.
 - ALL AREAS SHALL BE CLEANED UP ON A DAILY BASIS. UTILIZE ONLY 1 OR 2 AREAS AS PROVIDED BY OWNER AS LAY DOWN AND STORAGE. NO EQUIPMENT, TOOLS OR MATERIALS SHALL BE LEFT OUT IN COMMON AREAS NOT DESIGNATED FOR CONTRACTOR'S USE.
- GENERAL NOTES (FIRE ALARM SYSTEMS):
- VERIFY EXACT LOCATION OF ALL EQUIPMENT WITH OWNER BEFORE INSTALLATION.
 - ALL FIRE ALARM EQUIPMENT TO BE INSTALLED PER NFPA 72 AND NATIONAL ELECTRIC CODE STANDARDS, AND ALL LOCAL CODES AND REQUIREMENTS.
 - SEE LEGEND LIST FOR DEVICE MOUNTING REQUIREMENTS. ALL DEVICES SHALL BE MOUNTED TO MEET ADA.
 - ALL RACEWAYS, WIRING, TERMINATIONS, PROGRAMMING, CONTROL PANELS, AUXILIARY PANELS, MISC. SYSTEMS INTERFACE, TESTING AND DEVICES TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
 - FIRE ALARM CONTROL PANEL TO BE SERVED BY A DEDICATED 120 VAC 20 AMP CIRCUIT. PROVIDE NEW CIRCUIT UNLESS SPECIFICALLY DIRECTED OTHERWISE.
 - DEVICES REQUIRING 120 VAC POWER SHALL HAVE CIRCUIT IN A SEPARATE CONDUIT THAN THAT OF THE FIRE ALARM CIRCUIT.
 - INITIATING DEVICES: WIRING FOR ALL ADDRESSABLE DEVICES SHALL BE AS REQUIRED BY MANUFACTURER (16-2 TSP TWISTED SHIELDED PAIR MINIMUM), WHEN SIZING CIRCUITS CALCULATE VOLTAGE DROP. T-TAPPING (ONLY IF ALLOWED BY MANUFACTURER) SHALL BE HELD TO A MINIMUM. T-TAPS SHALL ONLY BE DONE AT A FIRE ALARM DEVICE AND SHALL HAVE LOCATION NOTED ON SYSTEM INSTALLATION PRINT.
 - NOTIFICATION DEVICES: WIRING FOR ALL NOTIFICATION DEVICES SHALL BE DONE AS PER REQUIRED MANUFACTURER'S STANDARD.
 - ALL WIRING TO BE TAGGED AS TO ZONE AND LOCATION/AREA SERVED.
 - ALL FIRE ALARM JUNCTION BOXES (NEW AND EXISTING) SHALL HAVE A RED COVER PLATE.
 - ALL NEW FIRE ALARM SYSTEM RELATED CONDUIT SHALL BE MIN. 3/4" AND BE RED IN COLOR, UNLESS COLOR IS SPECIFICALLY NOTED OTHERWISE.
 - INSTALL DUCT DETECTORS AS REQUIRED BY NFPA-90 & LOCAL CODES AND REQUIREMENTS.
 - DUCT DETECTORS TO BE MOUNTED A MINIMUM OF SIX (6) DUCT WIDTHS FROM BENDS OR INLETS TO AVOID AIR TURBULENCE AND FALSE REPORTS.
 - MOUNT ALL SMOKE DETECTORS A MINIMUM OF 3' FROM ANY AIR DIFFUSER. AREA SMOKE DETECTORS SHALL BE INSTALLED PER NFPA REQUIREMENTS.
 - SMOKE DAMPERS: ALL DAMPERS SHALL HAVE AN INDEPENDENT/DEDICATED SPOT SMOKE DETECTOR INSTALLED PER NFPA AND WITHIN 5' OF DAMPER. PROVIDE 120V CIRCUIT AND OCP AS REQUIRED.
 - MOUNT ALL NOTIFICATION DEVICES (SPEAKERS, SPEAKER/STROBES, AND STROBES ONLY) SO THAT THE CENTER OF THE DEVICE IS AT 80" ABOVE THE FINISHED FLOOR OR 6' BELOW CEILING WHICH EVER IS LOWER AND MOUNT MANUAL PULL STATIONS AT 48" TO CENTER OF DEVICE ABOVE FINISHED FLOOR TO MEET CODE.
 - MANUFACTURER SHALL PROVIDE ALL REQUIRED DRAWINGS INCLUDING CIRCUITING, LOADS, DEVICE TYPES, BATTERY CALCULATIONS, ADDRESSING, WIRE TYPE/SIZE, ZONES, ETC.
 - ALL SHORTS, OPENS, AND GROUNDS MUST BE REMOVED FROM SYSTEM BEFORE ANY INSPECTION. EC SHALL PROVIDE A 3RD PARTY REQUIRED TESTING BEFORE MANUFACTURER APPROVED COMPANY IS CALLED TO PERFORM THE FINAL SYSTEM CONNECTION AND CHECK-OUT.
 - SIGNAL BRANCH: SYSTEM CAPACITIES INCLUDING EACH BRANCH SHALL NOT EXCEED 80% OF MANUFACTURER'S STATED CAPACITIES.
 - ZONES: BRANCH/CIRCUITS/ZONES/HOME RUNS - NEW SYSTEMS SHALL BE

INSTALLED WITH MULTIPLE HOME RUNS, CONSISTENT BETWEEN SIGNAL REFER TO PROJECT NOTES FOR ZONE DESCRIPTIONS. AT A MINIMUM EVERY LEVEL AND FLOOR SHALL HAVE INDEPENDENT SIGNAL AND INITIATING DEVICE HOME RUNS FROM THE FACP.

- UNIQUE PROGRAMMING OF DEVICES MAY BE REQUIRED BY OWNER. PROVIDE WRITTEN REQUEST TO OWNER ALLOWING (2) WEEKS TO RESPOND TO ALLOW PROGRAMMING. LIST SHALL BE DELIVERED IN PDF AND EXCEL FORMATS.
- INITIATING AND SIGNAL CIRCUITS SHALL BE LAID OUT AND FOLLOW A LOGICAL SYSTEM OF MULTIPLE CIRCUITS. CIRCUITS SHALL BE DIVIDED INTO AREAS, ZONES, FLOORS, BUILDINGS, ETC. CONSULT WITH THIS ENGINEER FOR CLARIFICATION PRIOR TO REQUESTING CIRCUITING DRAWINGS FROM SUPPLIER.
- NAC PANELS SHALL BE PROVIDED AS INDICATED ON THESE PLANS AT A MINIMUM AND ADDITIONAL AS REQUIRED ON MANUFACTURER'S PLANS. CONFIRM LOCATION AND QUANTITY REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN. ROUTE AND CONNECT TO THE NEAREST AVAILABLE CIRCUIT/120V DEDICATED CIRCUIT, PROVIDE OCP AS REQUIRED AND SMOKE DETECTOR ABOVE.
- ALL WATER FLOW SIGNAL DEVICES SHALL BE CAPABLE OF BEING TESTED INDIVIDUALLY WITHOUT SOUNDING THE BUILDING'S INTERNAL SIGNAL DEVICES.
- ELEVATOR: FOR ALL ELEVATORS, PROVIDE ALL NEW MONITORING AND RELAY MODULES AT CONTROLLER, FIRE HAT CONNECTION, AND A SMOKE DETECTOR AT EVERY LANDING AND OPENING.
- WATER FLOW INDICATOR SHALL PROVIDE AUDIBLE HIGH/LOW SIGNAL. THIS DEVICE SHALL BE CAPABLE OF BEING TESTED WITHOUT TESTING ANY OTHER SIGNAL DEVICES. NOR TAKING THE SYSTEM OUT OF "NORMAL" OPERATION. DEVICE COLOR SHALL MATCH SURFACE INSTALLED ON. CIRCUIT SHALL BE CONCEALED, AND NOT SURFACE MOUNTED.
- ALL MULTIPLE PERSON OFFICE AREAS (MULTIPLE SEATS) SHALL GET A SPEAKER/ STROBE UNIT.
- ALL ROOMS AND AREAS IDENTIFIED AS ADA SHALL GET A STROBE/SPEAKER UNIT AND SMOKE DETECTORS. STROBE CANDELA SHALL BE HIGHER AS REQUIRED BY AREA AND CODE.
- PROVIDE FIRE STOP FOR ALL WALL PENETRATIONS TO MAINTAIN WALL RATINGS. ALL APPLICATIONS SHALL BE DONE IN A NEAT MANNER TO AVOID PAINT TOUCH-UP.
- PROVIDE PATCH AND PAINT TO MATCH FOR ANY ALTERATIONS IN FINISHED SPACES.
- PRIOR TO PROGRAMMING, COORDINATE WITH OWNER FOR CONFIRMATION OF ALL ROOM NAMES. (PROVIDE EDITABLE EXCEL FILE, ALLOW 2 WEEKS FOR COMMENTS)

ALL NEW AND EXISTING FIRE ALARM RACEWAYS USED IN THIS PROJECT SHALL BE LABELED AND QUANTITY REQUIREMENTS WITH MANUFACTURER STANDARD LABEL. PROVIDE LABEL EACH RACEWAY BETWEEN BOXES AND EVERY 25 FEET MINIMUM. REFER TO IUI STANDARDS.

- ALL MANUAL PULL STATIONS SHALL BE INSTALLED IN A NEW BACK BOX AND THE HEIGHT SHALL MEET ADA CODE. IF DEPTH OF WALL PREVENTS DEVICE WITH ADDRESSABLE MODULE TO BE INSTALLED, PROVIDE STANDARD DEVICE WITH ADDRESSABLE RELAY MOUNTED IN BOX ABOVE CEILING DIRECTLY ABOVE DEVICE.
- ALL DOOR HOLD LOCATIONS SHALL REMAIN AND BE CONNECTED TO THE NEW SYSTEM. ANY LOOSE DEVICES OR HARDWARE SHALL BE SECURED TIGHT. ALL DEVICES SHALL BE NEW.
- DO NOT PENETRATE BEAMS OR BEAM ENCLOSURES.
- THESE DOCUMENTS ARE THE BID DOCUMENTS. THE EC SHALL OBTAIN A COMPLETE SET OF SYSTEM/CIRCUITING DRAWINGS FROM THE SYSTEM SUPPLIER PRIOR TO BIDDING. THE EC'S BID SHALL INCLUDE ALL SCOPE AS INDICATED ON THIS SET OF DRAWINGS AND THE SYSTEM PROVIDER'S CIRCUITING DRAWINGS. ANY DISCREPANCIES BETWEEN THE TWO DRAWINGS SHALL BE RESOLVED PRIOR TO THE START OF CONSTRUCTION BY THE EC.
- ALL LABEL FONT SIZES TO BE SUBMITTED FOR APPROVAL. MULTIPLE FONT AND LABEL SIZES WILL BE REQUIRED FOR SIGNAGE NEEDS AND HEIGHTS. LABELS SHALL BE LEGIBLE FROM GROUND ELEVATION.

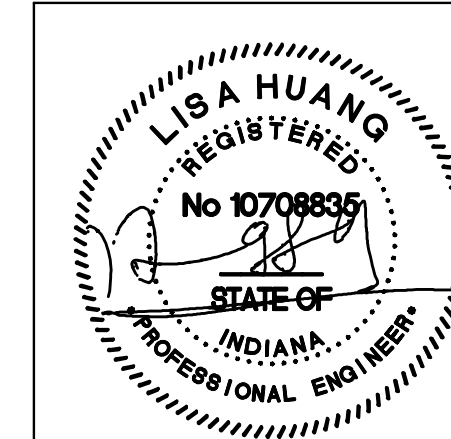
PROJECT NOTES (SPECIFIC FOR THIS PROJECT)

- MINIMUM DOWN TIME: VERIFY STUDENTS AND STAFF SCHEDULE. PROJECT WILL BE UNDER CONSTRUCTION WHILE STUDENTS AND STAFF ARE PRESENT. NO AREAS SHALL BE WITHOUT FIRE WATCH OR TEMPORARY SYSTEM IN PLACE, BY THIS CONTRACTOR.
- EXISTING BOXES: ALL EXISTING BOXES THAT ARE TO BE REUSED FOR THE NEW SYSTEM SHALL BE REPLACED WITH NEW APPROPRIATELY SIZED BOXES FOR THE NEW DEVICES.
- NEW SYSTEM SHALL BE STROBE AND SPEAKER STROBE NOTIFICATION SYSTEM BY SIEMENS. THE EXISTING SYSTEM IS A SIEMENS HORN/STROBE.
- NOTED FARA PANELS AND FACP SHALL HAVE MICROPHONES FOR ALL GENERAL PAGING ZONES AND SELECTABLE ZONES.
- FIRE ALARM PRINTER: PROVIDE EXTERNAL PRINTER DUPLEX AND PRINTER IN THE SAME ROOM / AREA AS THE FACP. PROVIDE DUPLEX RECEPACLE FOR PRINTER IF NOT AVAILABLE IN ROOM.

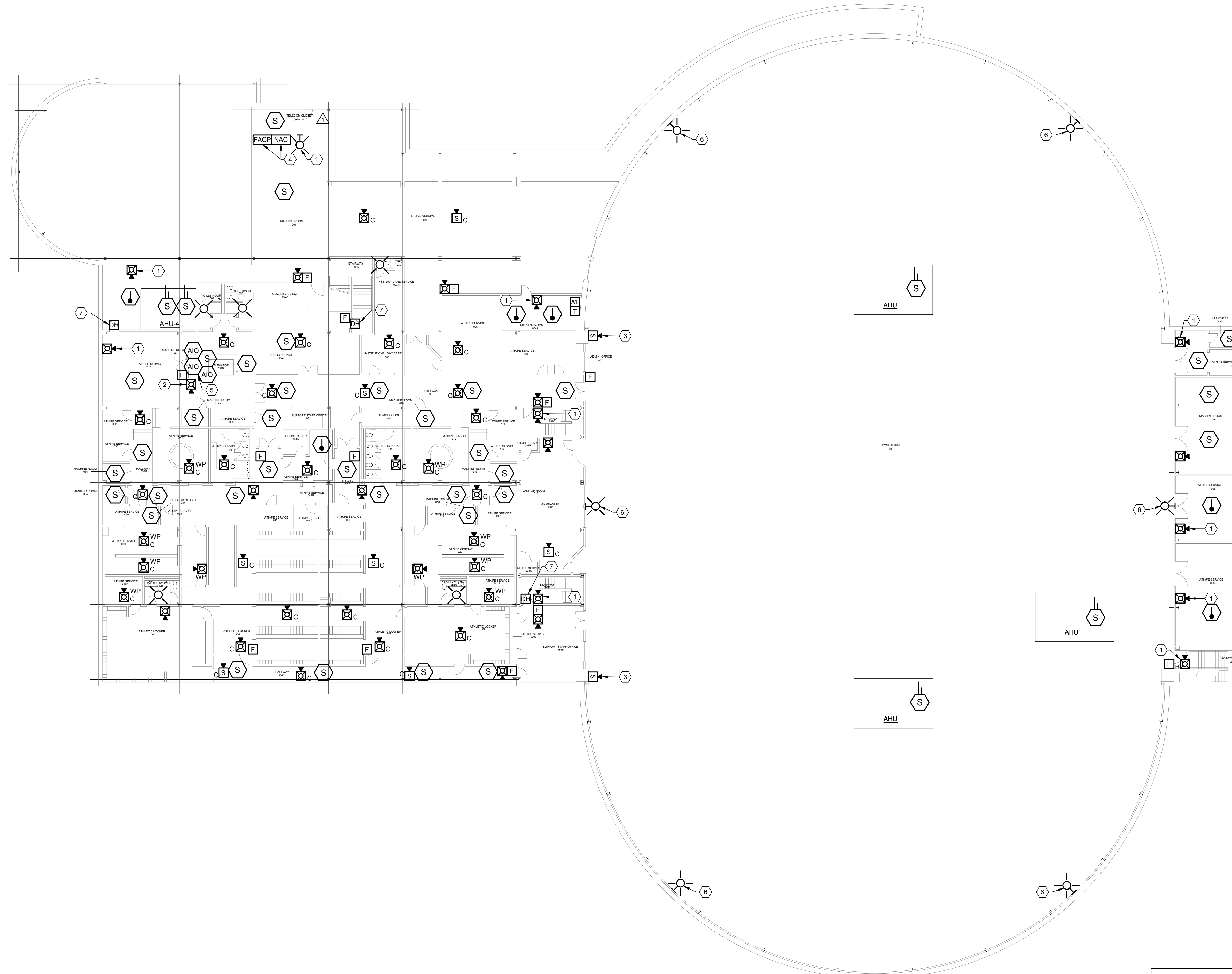
- NAC PANELS: NAC PANELS SHALL BE INSTALLED AS SHOWN AT A MINIMUM. PROVIDE ADDITIONAL PANELS AS REQUIRED BY DEVICE COUNT (VERIFY QUANTITY AND LOCATIONS BASED ON DISTANCES WITH FIRE ALARM SUPPLIER PRIOR TO BID). THE LOCATIONS INDICATED ON THESE DRAWINGS ARE ESTIMATED AND SHALL BE CONFIRMED WITH THE SYSTEM SUPPLIER AND SUPPLIER'S PROJECT ENGINEER. ALL PANELS SHALL BE INSTALLED WITH A DEDICATED 120V/20A CIRCUIT FROM THE NEAREST AVAILABLE PANEL. REFER TO ADDITIONAL 'GENERAL NOTES' REGARDING 'NAC' PANEL.
- EXISTING RACEWAYS AND BOXES MAY BE REUSED WHERE THEY MEET ALL REQUIREMENTS OF THE MANUFACTURER, ALL APPLICABLE CODES AND THE OWNER'S REQUIREMENTS.
- THE EC IS THE PRIME CONTRACTOR AND ALL REQUIRED SUBS SHALL BE HIRED AS A SUB TO THE EC AND BE INCLUDED IN THE EC'S CONTRACT.
- ALL NEW AND EXISTING CONDUITS AND BOX COVERS AS PART OF THE FIRE ALARM SYSTEM SHALL BE RED, EXCEPT FOR IN FINISHED AREAS. IN FINISHED AREAS, CONDUITS SHALL BE PAINTED TO MATCH WALL FINISH AS WELL AS LABELED PER OWNER STANDARDS. CONDUITS SHALL ALL BE CONCEALED UNLESS SPECIFICALLY NOTED OTHERWISE IN SPECIFIC AREAS.
- PROVIDE BLANK STAINLESS STEEL FINISHED PLATES FOR ALL RECESSED BOXES ABANDONED IN PLACE IN FINISHED AREAS. COVER SHALL COVER ENTIRE BOX AND SHALL COVER ANY WALL SPACE THAT HAS DIFFERENT FINISH SO TO AVOID HAVING TO RE-FINISH WALL SURFACE. THIS MAY REQUIRE CUSTOM PLATES TO BE PROVIDED.
- SYSTEM DELIVERY: THE CONTRACTOR WILL PURCHASE NEW SYSTEM FROM SIEMENS. SYSTEM WILL BE DELIVERED TO PROJECT SITE AS COORDINATED BY THIS CONTRACTOR. SECURE INDOOR STAGING AREA FOR SUPPLIES. THIS CONTRACTOR'S BID SHALL INCLUDE THE FULL FIRE ALARM SYSTEM IN ADDITION TO INSTALLING THE COMPLETE SYSTEM AND ALL REQUIRED DEVICES TO DO SO.
- SYSTEM MATERIAL COST: THIS PROJECT SHALL BE BID BY THE EC WHO IS TO PROVIDE A COMPLETE OPERATIONAL AND CERTIFIED SYSTEM. THIS CONTRACTOR SHALL BEAR ALL COST FOR FIRE ALARM EQUIPMENT AND DEVICES. THE EC SHALL INCLUDE IN HIS BID AND SHALL COORDINATE WITH THE SYSTEM SUPPLIER FOR ALL TESTING AND PROGRAMMING AS REQUIRED.
- ALL STAIRWELLS ON EACH FLOOR SHALL HAVE AT LEAST ONE STROBE / SPEAKER UNIT. CEILING MOUNTED DEVICES ARE ACCEPTABLE WHERE LAY-IN CEILING IS PRESENT.
- DOOR HOLDS: VERIFY EACH UNIT'S VOLTAGE IN FIELD AND RECONNECT TO NEW SYSTEM.
- PROVIDE TEMPORARY SYSTEM DURING CONSTRUCTION. REFER TO PHASING OR SEQUENCING NOTES, AND TO TEMPORARY SYSTEM NOTES ON DRAWING FD100.
- SECURITY INTERLOCK: FIRE ALARM CONTROL PANEL SHALL HAVE INTERLOCK CONNECTION WITH SECURITY HEAD-END EQUIPMENT. CONTRACTOR SHALL PROVIDE INTERLOCK CABLE IN CONDUIT FROM FIRE ALARM CONTROL PANEL TO SECURITY HEAD-END EQUIPMENT. COORDINATE WITH OWNER.

- CONDUIT / DEVICE INSTALLATION:
- INSTALL CONDUITS CONCEALED IN AREAS WHERE ANY EXISTING ARE INSTALLED CONCEALED OR WHERE DROP OR LAY-IN CEILINGS EXIST.
 - ROUTE ALL NEW CONDUITS ON CEILINGS ALONG EDGE NEAR WALLS EXCEPT VERTICAL DROPS.
 - DO NOT INSTALL COUPLINGS ON VERTICAL RUNS OF CONDUIT BELOW 8' A.F.F.
 - AVOID CUTTING BOXES IN HARD PLASTER, CONCRETE OR MASONRY WALLS IF POSSIBLE.
 - DO NOT INSTALL ANY HORIZONTAL RACEWAYS BELOW A DROP OR LAY-IN CEILING.
 - WHEN ROUTING RACEWAYS, GROUP NEATLY TOGETHER AND ROUTE ADJACENT OR GROUPED TOGETHER WITH ANY EXISTING RACEWAYS IN THE AREA.
 - EXISTING RACEWAYS MAY BE USED IF THEY ARE NOT DAMAGED, MEET ALL CODES AND PROVIDE A SENSIBLE AND PRACTICAL INSTALLATION.
 - ALL RACEWAYS PART OF THIS PROJECT AND ABANDONED SHALL BE REMOVED.
 - EXISTING ROUGH-INS MAY BE USED ONLY IF THEY MEET ALL CODES AND ANY REQUIREMENTS PER FIRE ALARM SYSTEM TO BE INSTALLED. OTHERWISE, PROVIDE NEW BOXES TO MEET ALL CODES AND MANUFACTURER'S REQUIREMENTS.
 - FINISH AND PAINT ANY FINISHED WALL WHERE DEVICES HAVE BEEN REMOVED. PAINT BOUNDARY CAN BE REMOVED DEVICE'S EDGE OR TRIM PIECE AS LONG AS PAINT MATCHES REASONABLY.

 Mechanical Electrical Plumbing Fire Protection 8606 Allisonville Road, Suite 270 Tol: (317) 413-6724 Indianapolis, Indiana 46256 Fax: (614) 486-4082	0	BID SET	08/04/2021
	1	ADDENDUM 1	08/25/2021
	2	ADDENDUM 2	08/26/2021
	REV NUMBER	REV DESCRIPTION	REV DATE
AEC PROJECT NO: 20-113-03 IUPUI - ATHLETIC AND FITNESS CENTER - FA SYSTEM IU #20200540			
GENERAL INFORMATION FIRE ALARM			SUBMITTAL: 20200540 FA001
SCALE: NONE		SHEET: 2 OF 11	
DSN: A. JEHL	DRN: N. AMIN	CHK: D. JAMES	DATE: AUGUST 04, 2021



Date: 8/26/2021 3:30 PM File Location: P:\2020 proj\20-113-03 IUPUI - Athletic and Fitness Cntr - FA System\CAD\CAD Sheets - FA System\CAD Sheets - Last Edit: Andrew.Jehl

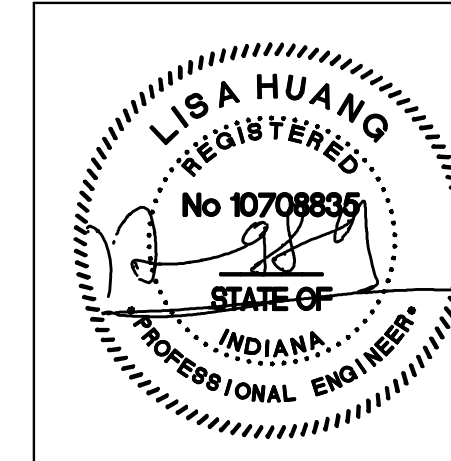
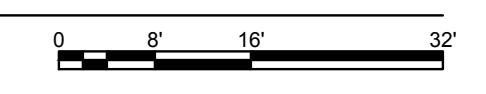


GENERAL SHEET NOTES:

- A. CONDUIT: ALL CONDUIT IN THIS PROJECT MAY BE EMT. THERE IS NO REQUIREMENT FOR RGS CONDUIT IN MECHANICAL ROOMS.
- B. NEW DEVICES WILL NEED TO BE ADDED TO SUPPLEMENT VOICE CLARITY WHERE INDICATED. ALL NEW DEVICES IN ANY AREA, WHERE NOT CEILING MOUNTED, SHALL MATCH ROUGH-IN TYPES (IE, IF EXISTING DEVICES IN AREA ARE FLUSH MOUNTED, ANY NEW DEVICES ADDED IN THE AREA SHALL BE FLUSH MOUNTED AS WELL.)
- C. ALL AHU'S: THE FIRE ALARM SYSTEM SHALL BE CONNECTED TO EACH STARTER / CONTROLLER FOR SHUTDOWN OF EVERY FAN. IN ADDITION, THE FIRE ALARM SYSTEM SHALL BE CONNECTED TO BUILDING MAINTENANCE SYSTEM (BMS) TO ALERT BMS OF FIRE ALARM SYSTEM ACTIVATION.
- D. SPRINKLER RISERS: EACH EXISTING MONITORING POINT (IE: FLOWS AND TAMPERS, ETC.) SHALL BE REPLACED WITH NEW DEVICES AND CABLES. CONFIRM EXACT NUMBER AND LOCATION OF MONITORING DEVICES.
- E. DUCT DETECTORS: PROVIDE NEW DUCT DETECTORS FOR AIR HANDLERS. DUCT DETECTORS ON AHU'S BELOW 2000CFM ARE NOT REQUIRED. AHU'S BETWEEN 2000CFM AND 15000CFM SHALL HAVE A SINGLE DUCT DETECTOR ON RETURN SIDE. AHU'S OVER 15000CFM SHALL HAVE DUCT DETECTOR ON RETURN SIDE AT EACH FLOOR SERVED. CONFIRM EXACT NUMBER AND LOCATION OF AIR HANDLERS.
- F. SURFACE MOUNT: DEVICES IN MECHANICAL SPACES MAY BE SURFACE MOUNTED, IF DRY WALL PRESENT DEVICES SHALL BE RECESS MOUNTED. ALL OTHER DEVICES SHALL BE RECESS MOUNTED EXCEPT WHERE NOTED OTHERWISE.
- G. PROVIDE BLANK STAINLESS STEEL FINISHED PLATES FOR ALL RECESSED BOXES ABANDONED IN PLACE IN FINISHED AREAS. COVER SHALL COVER ENTIRE BOX AND SHALL COVER ANY WALL SPACE THAT HAS DIFFERENT FINISH SO TO AVOID HAVING TO RE-FINISH WALL SURFACE. THIS MAY REQUIRE CUSTOM PLATES TO BE PROVIDED.
- H. SECURED DOORS: ACTIVATION OF FIRE ALARM SYSTEM SHALL RELEASE ALL SECURED DOOR LOCKS TO ALLOW FOR EGRESS. PROVIDE INTERLOCK FROM FIRE ALARM SYSTEM ACCESS CONTROL HEAD-END SYSTEM TO PROVIDE THIS FUNCTIONALITY.
- I. CONTRACTOR SHALL FIELD VERIFY ALL CEILING AND WALL TYPES AS NECESSARY FOR BIDDING.
- J. EXISTING DEVICE LOCATIONS: WHERE NEW DEVICE IS INSTALLED IN EXISTING LOCATION, EXISTING BACK BOX MAY BE REUSED. PROVIDE BOX EXTENDERS AS REQUIRED FOR NEW SPEAKER / STROBE DEVICES.
- K. EXTERIOR DEVICES: ALL DEVICES MOUNTED ON EXTERIOR OF BUILDING SHALL HAVE WEATHERPROOF CONSTRUCTION. ADDRESSABLE DEVICES SHALL HAVE THEIR MODULES LOCATED IMMEDIATELY INSIDE BUILDING, ABOVE ACCESSIBLE CEILING WHERE AVAILABLE.
- L. SPEAKER ZONES: EACH FLOOR AND EACH STAIRWELL SHALL BE A DEDICATED SPEAKER ZONE.

- SHEET KEYNOTES:**
- 1. SURFACE MOUNT: SURFACE MOUNTED NEW DEVICE AT NEW LOCATION.
 - 2. DEVICE: DEVICE TO BE MOUNTED AT 80" AFF AND SHALL BE CLEAR FROM STORAGE RACKS.
 - 3. HYPERSPIKE SPEAKER: PROVIDE HYPERSPIKE - 90243A-804 LINEWAVE 16 AT ABOUT 15' AFF FROM BOTTOM OF SPEAKER IN GYMNASIUM. COORDINATE WITH SHOP DRAWINGS FROM VENDOR FOR EXACT MOUNTING HEIGHT AND LOCATION.
 - 4. NEW FACP & NAC: INSTALL NEW FACP & NAC ON IN THIS ROOM. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
 - 5. ELEVATOR RELAY: PROVIDE ADDRESSABLE INPUT / OUTPUT MODULE FOR ELEVATOR RELAY. PROVIDE (2) ADDITIONAL MODULES AND CONDUITS WITH PULL STRING FOR FUTURE ELEVATOR RELAYS IN MECHANICAL / MACHINE ROOM FROM FIRE ALARM PANEL. LABEL MODULES 'FUTURE ELEVATOR MONITORING MODULE'.
 - 6. STROBE: INSTALL THIS STROBE IN EXISTING ROUGH-IN AT APPROXIMATELY 15' AFF.
 - 7. NEW DOOR HOLDS: PROVIDE NEW DOOR HOLD HARDWARE AND RELAY MODULE. INSTALL HARDWARE PER SIEMENS EQUIPMENT SHOP DRAWINGS.

1 BASEMENT PLAN - FIRE ALARM
1/16"=1'-0"



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REV NUMBER	REV DESCRIPTION	REV DATE	

AEC PROJECT NO: 20-113-03 IUPUI - ATHLETIC AND FITNESS CENTER - FA SYSTEM IU #20200540	
SUBMITTAL: 20200540 BASEMENT PLAN FIRE ALARM	FA100 SCALE: 1/16"=1'-0" SHEET: 6 OF 11
DSN: A. JEHL DRN: N. AMIN CHK: D. JAMES DATE: AUGUST 04, 2021	