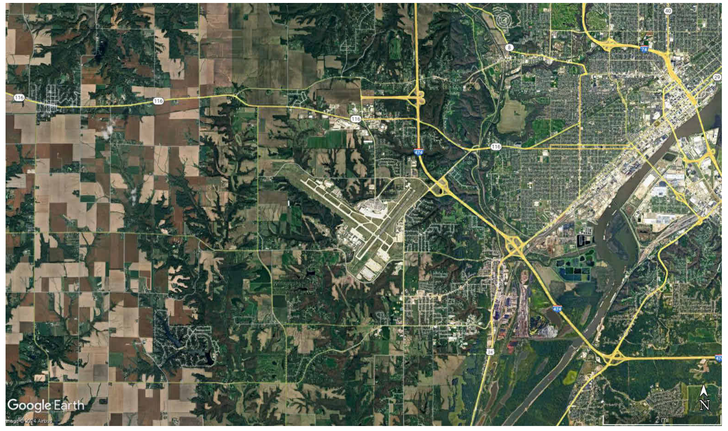
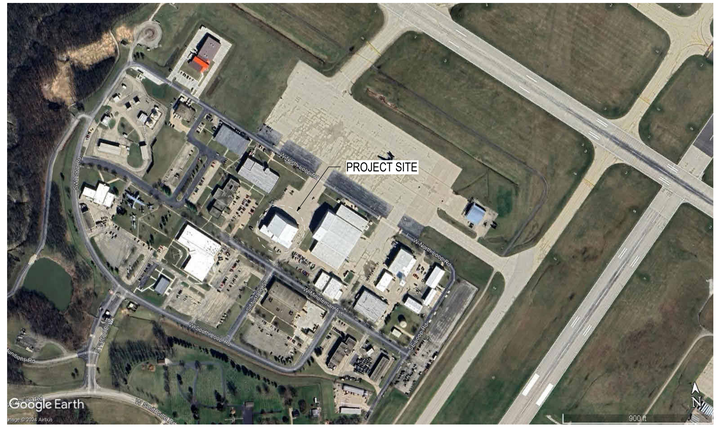
182ND AIRLIFT WING, PEORIA AIR NATIONAL GUARD
BUILDING 632 REPAIR OF FIRE SUPPRESSION AND HANGAR DOORS

TYPE B3 - 100% FINAL SUBMITTAL

MARCH 27, 2026
PROJECT NUMBER: JLQN202002



AREA MAP



LOCATION MAP

SHEET LIST

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DRAWING INDEX - 632

PROJECT No.	DRG NO. SHEET	DRAWING TITLE
JLQN202002	FX-401	BLDG 632 ENLARGED PLANS & SECTIONS
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4	TYPE B2 PRE-FINAL SUBMITTAL		IS	03-02-2026
3	TYPE B1 (65%) SUBMITTAL		IS	01-05-2026
2	REVISED 35% SUBMITTAL		IS	09-22-2025
1	35% SUBMITTAL		SJ	11-07-2024

Author	YZT	Drafting Check	ACJ	Project Manager	IS
Designer	YZT	Design Check	ACJ	Project Director	TG

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Client: 182ND AIRLIFT WING, PEORIA AIR NATIONAL GUARD
Project: BLDG 734 & BLDG 632 REPAIR OF FIRE SUPPRESSION AND HANGAR DOORS

Title: BLDG 632 - COVER SHEET

Size: Arch D

Project No. JLQN202002 | Date MARCH 27, 2026 | Scale

Status Code: Final 100% Sheet

Sheet No. G-001 of

Plot Date: 8/7/2026 10:59:02 AM

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GENERAL NOTES

1. THE SCOPE OF THIS PROJECT INCLUDES DESIGNING AND PROVIDING A SIMPLEX FIRE ALARM SYSTEM AS DESCRIBED HEREIN FOR HANGAR B632 LOCATED AT PEORIA AIR NATIONAL GUARD, ILLINOIS. THIS INCLUDES THE FOLLOWING:
   - A. REMOVE THE EXISTING AFFF RELEASING SYSTEM CONTROL PANEL AND APPLIANCES LOCATED THROUGHOUT THE BUILDING.
   - B. REMOVE FIRE ALARM DEVICES AND APPLIANCES LOCATED THROUGHOUT THE BUILDING INCLUDING HEAT DETECTORS, MANUAL PULL STATIONS, SMOKE DETECTORS, AFFF MANUAL RELEASE STATIONS, ASSOCIATED CONDUIT/CIRCUITS AND FIRE ALARM SIGNAGE.
   - C. PROVIDE FIRE ALARM SYSTEM AND APPLIANCES THAT ARE COMPATIBLE WITH EXISTING MASS NOTIFICATION SYSTEM.
   - D. PROVIDE TAMPER SWITCH AND WATERFLOW SWITCH TO SERVE THE OVERHEAD SPRINKLER SYSTEM IN THE HANGAR.
   - E. FIRE ALARM SYSTEM SHALL BE NETWORKED TO FIRE ALARM REPORTING SYSTEM VIA FIBER LOCATED IN BUILDINGS 541 (FIRE DEPARTMENT) AND 636 (SECURITY BDOC).
2. THE SYSTEM MUST INCLUDE WIRING, RACEWAYS, PULL BOXES, TERMINAL CABINETS, OUTLET AND MOUNTING BOXES, CONTROL EQUIPMENT, INITIATING DEVICES, INTERFACE EQUIPMENT, AND OTHER ACCESSORIES AND MISCELLANEOUS ITEMS INCLUDING SOFTWARE, SYSTEM PROGRAMMING, TESTING AND CONSTRUCTION PERMITS REQUIRED FOR A COMPLETE OPERATING SYSTEM EVEN THOUGH EACH ITEM IS NOT SPECIFICALLY MENTIONED OR DESCRIBED. PROVIDE SYSTEM COMPLETE AND READY FOR OPERATION. EXCEPT WHERE OTHERWISE NOTED ON THE CONTRACT DOCUMENTS. THE SYSTEM MUST COMPLY WITH UFC 3-600-01 WITH CHANGE 6, 05-09-2021, UFC 4-211-01 WITH CHANGE 3, 04-20-2021, NFPA STANDARDS 70 (2023), 72 (2025) AND 409 (2022). IN ADDITION, PROVIDE THE EQUIPMENT FROM A SINGLE MANUFACTURER AND LISTED FOR THE INTENDED PURPOSE BY A NATIONAL RECOGNIZED TESTING LABORATORY. CONTRACTOR IS RESPONSIBLE FOR THE SOFTWARE, SYSTEM PROGRAMMING, TESTING AND CONSTRUCTION PERMITS REQUIRED FOR A COMPLETE OPERATING SYSTEM AND SHALL SECURE ALL NECESSARY CONSTRUCTION PERMITS, INSPECTIONS AND FINAL SYSTEM ACCEPTANCE FROM BUILDING OFFICIALS (AHJ).
3. PROVIDE WIRING FROM APPLIANCE TERMINAL TO APPLIANCE TERMINAL. PROVIDE CONDUCTORS THAT ARE TERMINATED, SPLICED, OR OTHERWISE INTERRUPTED IN ENCLOSURE, CABINET, MOUNTING, OR JUNCTION BOX CONNECTED TO SCREW-TYPE TERMINAL BLOCKS. WIRE NUTS AND SIMILAR DEVICES ARE PROHIBITED.
4. PROVIDE FIRE ALARM CIRCUITS SUPERVISED AS FOLLOWS IN ACCORDANCE WITH NFPA 72:
   - A. INITIATING DEVICE CIRCUITS (IDC) - CLASS B
   - B. SIGNALING LINE CIRCUITS (SLC) - CLASS B
   - C. NOTIFICATION APPLIANCE CIRCUITS (NAC) - CLASS B
   - D. PATHWAY SURVIVABILITY - LEVEL 1
5. LABEL ADDRESSABLE INPUT/OUTPUT FIRE ALARM COVER PLATES AND APPLIANCES (INCLUDING ADDRESSABLE MODULES) WITH THEIR ADDRESS UTILIZING A LABELING MACHINE. HAND WRITTEN LABELS MUST NOT BE USED. ADDRESS MUST INCLUDE SLC NUMBER FOLLOWED BY APPLIANCE NUMBER. EACH SLC FIELD APPLIANCE ADDRESS MUST MATCH THE FIRE ALARM DISPLAY ADDRESS.
6. LABEL CONDUCTORS INDIVIDUALLY WITH PERMANENT MARKINGS. LABEL MUST BE PRINTED AND PERMANENTLY AFFIXED TO CONDUCTOR WITH SHRINK WRAP.
7. UNLESS NOTED OTHERWISE THE PROJECT ELECTRICAL CONDUIT STANDARD IS RIGID METALLIC CONDUIT (RMC) WITH THREADED FITTINGS AND PROVIDE THROUGHOUT THE PROJECT. REFERENCE TO CONDUIT IS EQUIVALENT TO STATING RMC. PROVIDE ALL WIRING IN CONDUIT. FLEXIBLE METAL CONDUIT IS LIMITED TO 6 FEET AND SECURED PER THE NATIONAL ELECTRIC CODE.
8. PROVIDE CONDUIT AS UNOBTRUSIVELY AS POSSIBLE, AS CLOSE AS POSSIBLE TO FLOOR/ CEILING SLAB AND PARALLEL AND AT RIGHT ANGLES TO STRUCTURAL STEEL OR CONCRETE ELEMENTS. THESE DRAWINGS ARE DIAGRAMMATIC TO SHOW DESIGN INTENT ONLY.
9. PROVIDE ELECTRICAL BOXES AS FOLLOWS: UNLESS NOTED OTHERWISE PROVIDE CAST METAL BELL TYPE BOXES WITH THREADED HUBS ON EXPOSED WORK, EXCEPT WHERE FACTORY BOXES ARE PROVIDED. CONCEALED BOXES MAY BE STAMPED STEEL BOXES. PROVIDE TERMINAL CABINETS OF SOLID WALL CONSTRUCTION WITH NO FACTORY CONDUIT KNOCK OUTS.
10. CORE DRILL PENETRATIONS IN MASONRY WALLS AND FLOOR/CEILING SLABS.
11. AFTER CONDUIT INSTALLATION, ALL PENETRATIONS IN FIRE AND SMOKE RATED WALLS, CEILINGS AND FLOORS SHALL BE PROTECTED WITH UL LISTED THROUGH-PENETRATION FIRE-STOP SYSTEMS OF EQUAL OR GREATER FIRE RESISTANCERATING TO THE PENETRATING MEMBER. REFER TO ARCHITECTURAL AND/OR LIFE SAFETY DRAWINGS FOR FIRE (AND/OR SMOKE) RESISTIVE ASSEMBLY LOCATIONS AND RATINGS. PENETRATIONS INTO NON-FIRE-RESISTANCE RATED ASSEMBLIES SHALL BE SEALED TO BE SMOKE-TIGHT AT A MINIMUM.
12. BOTH EXPOSED AND CONCEALED CONDUIT MUST UTILIZE COMPRESSION TYPE STEEL FITTINGS AND CONNECTORS. UNLESS NOTED OTHERWISE, PROVIDE CONDUIT 3/4 INCH MINIMUM TRADE SIZE. PROVIDE PLENUM RATED WIRING CONDUCTORS (TYPE FPLP) WHEN FLEX CONDUIT IS UTILIZED. PROVIDE WIRING UL LISTED FOR ITS INTENDED USE. PROVIDE SOLID COPPER WIRING CONDUCTORS IN CONDUIT FOR THE FOLLOWING CIRCUITS (AT MINIMUM):
   - A. NOTIFICATION APPLILANCE CIRCUIT: 14 AWG, TYPE FPLR/FPLP, SOLID COPPER, TWISTED PAIR
   - B. INITIATION - 14/2 AWG
   - C. SIGNALING LINE CIRCUIT - 16/2 AWG TWISTED SHIELDED PAIR
   - D. 120 VAC - PRIMARY POWER - NO. 12 AWG, THHN/THWN 600VAC INSULATED
13. SECURE NECESSARY CONSTRUCTION PERMITS, INSPECTIONS AND FINAL SYSTEM ACCEPTANCE.
14. ALL CONTRACT DRAWINGS (INCLUDING ALL DISCIPLINES) AND ALL CONTRACT SPECIFICATIONS MUST BE USED IN CONJUNCTION TO OBTAIN COMPLETE CONSTRUCTION INFORMATION. REPORT ANY INFORMATION CONFLICTS BETWEEN THE SPECIFICATIONS AND DRAWINGS TO THE CONTRACTING OFFICER'S ATTENTION. THE CONTRACTOR MUST NOT PROCEED WITH ANY WORK, EXCEPT AT THEIR OWN RISK UNTIL CLARIFICATIONS OF THE CONFLICTS ARE ISSUED TO THE CONTRACTOR BY THE CONTRACTING OFFICER.
15. INFORMATION CONTAINED IN THESE DRAWINGS IS BASED ON EXISTING DOCUMENTS, LIMITED FIELD SURVEYS, ARCHITECTURAL AND STRUCTURAL INFORMATION. THE INFORMATION CONTAINED HEREIN MAY REQUIRE ADJUSTMENTS AND/OR MODIFICATIONS TO CONFORM TO EXISTING BUILDING CONDITIONS. VERIFY DIMENSIONS AND CONDITIONS AT JOB SITE CONCERNING THE WORK BEFORE PROCEEDING WITH EITHER FABRICATION OR INSTALLATION OF WORK. LOCATION OF EQUIPMENT IS APPROXIMATE. VERIFY THE LOCATION OF SYSTEM COMPONENTS. REPORT ANY DISCREPANCIES WITH THESE DRAWINGS TO THE CONTRACTING OFFICER IMMEDIATELY.
16. AVOID CONFLICTS WITH LIGHT FIXTURES, HVAC DIFFUSERS, GRILLS, DUCTS, CONDUIT AND OTHER PIPING OR OTHER OBSTRUCTIONS ENCOUNTERED. COORDINATE WORK WITH FIELD CONDITIONS. PROMPTLY NOTIFY CONTRACTING OFFICER PRIOR TO INITIATING WORK IF ANY MOUNTING LOCATIONS ARE OBSTRUCTED AND/OR IF ANY MOUNTING CONFLICTS OR PROBLEMS ARE DISCOVERED.
17. DO NOT CUT, DRILL OR BURN ANY STRUCTURAL MEMBERS UNLESS PREVIOUSLY APPROVED BY THE CONTRACTING OFFICER. DO NOT CUT OR PATCH STRUCTURAL WORK IN A MANNER THAT WOULD RESULT IN A REDUCTION OF LOAD-CARRYING OR LOAD-DEFLECTION RATIO.
18. COORDINATE WORK WITH THE CONTRACTING OFFICER, INCLUDING ACCESS TO THE BUILDING. SCHEDULE WORK TO MINIMIZE DISRUPTION TO OCCUPANTS OF THE BUILDING. BEFORE THE EXISTING FIRE ALARM AND RELEASING SYSTEM IS SHUTDOWN, NOTIFY THE CONTRACTING OFFICER 14 DAYS IN ADVANCE.
19. MAINTAIN CLEAR EGRESS PATHS IN BUILDING DURING CONSTRUCTION IF AREA IS TO REMAIN OCCUPIED. ROPE OFF OCCUPIED WORK AREAS. CONSTRUCTION WORK WHICH BLOCKS OR OTHERWISE IMPEDES AN EGRESS PATH MUST ONLY BE PERFORMED DURING HOURS WHEN THE BUILDING IS UNOCCUPIED.
20. PREPARE A DETAILED WRITTEN PHASING PLAN AND SUBMIT FOR APPROVAL TO THE CONTRACTING OFFICER. WORK MUST NOT START UNTIL THIS PLAN IS APPROVED. REPORT CHANGES TO THE CONTRACTING OFFICER ON A WEEKLY BASIS.
21. "PROVIDE" MEANS CONTRACTOR MUST FURNISH NEW AND INSTALL COMPLETE AND READY FOR INTENDED USE.
22. "REMOVE" MEANS CONTRACTOR MUST DISCONNECT, REMOVE FROM SITE (ONLY IF APPROVED BY CONTRACTING OFFICER) AND LEGALLY DISPOSE.
23. STROBE NOTIFICATION APPLIANCE CIRCUIT POWER REQUIREMENTS AND CONDUCTOR SIZES SHALL NOT EXCEED A 10% VOLTAGE DROP. EACH VISUAL NOTIFICATION APPLIANCE CIRCUIT SHALL NOT EXCEED 80% OF ITS RATED OUTPUT.
24. ALL INSTALLED SIGNALING LINE CIRCUITS AND NOTIFICATION APPLIANCE CIRCUITS SHALL HAVE 20 PERCENT SPARE CAPACITY. ALL AMPLIFIERS SHALL HAVE 20 PERCENT SPARE CAPACITY. BATTERY SIZE SHALL BE A MINIMUM OF 125% OF THE CALCULATED REQUIREMENT.
25. CONTRACTOR SHALL COORDINATE LOCATION OF AUTOMATIC SPRINKLER FLOW SWITCHES AND TAMPER SWITCHES WITH FIRE PROTECTION DRAWINGS.

SYMBOL LIST

SYMBOL	DESCRIPTION
	EXISTING TO REMAIN LINE TYPE
	EXISTING TO BE REMOVED LINE TYPE
	NEW WORK LINE TYPE
XX	FIRE ALARM STROBE SIGNALING DEVICE, CEILING MOUNTED, XX=CANDELA RATING
XX	FIRE ALARM STROBE SIGNALING DEVICE, WALL MOUNTED, XX=CANDELA RATING
F	ADDRESSABLE MANUAL PULL STATION
A	AFFF SYSTEM ABORT SWITCH
R	AFFF SYSTEM MANUAL RELEASE STATION
UV/IR	ULTRAVIOLET/INFARED FLAME DETECTOR (UV/IR)
X	ADDRESSABLE HEAT DETECTOR X=MOUNT; W=WALL, C=CEILING
X	ADDRESSABLE SMOKE DETECTOR X=MOUNT; W=WALL, C=CEILING
	ADDRESSABLE DUCT SMOKE DETECTOR
RTS	REMOTE TEST STATION
R	MULTI-VOLTAGE RELAY
AIM	ADDRESSABLE INPUT MODULE
AOM	ADDRESSABLE OUTPUT MODULE
VS	VALVE SUPERVISORY SWITCH, CONNECTION ONLY
WF	WATERFLOW SWITCH, CONNECTION ONLY
LT	LOW TEMPERATURE SENSOR
FACU	FIRE ALARM CONTROL UNIT
MNSCU	MASS NOTIFICATION SYSTEM CONTROL UNIT
BATT	BATTERY CABINET
RFCU	RELEASING FIRE ALARM CONTROL UNIT
NAP	NOTIFICATION APPLIANCE PANEL
SPD	SURGE PROTECTION DEVICE
FAA	FIRE ALARM ANNUNCIATOR
LOC	LOCAL OPERATING CONSOLE
AMP	AMPLIFIER CABINET
FADC	FIRE ALARM DOCUMENTATION CABINET
DET	DET-TRONICS PANEL
PSP	POWER SUPPLY PANEL
FONC	FIBER OPTIC NETWORK CONNECTION
	120 VAC, 20 AMP FIRE ALARM POWER SUPPLY
#	KEYNOTE INDICATOR

DETAIL NUMBER
DETAIL IDENTIFICATION BUBBLE
SHEET DETAIL IS SHOWN ON

SECTION NUMBER
SECTION IDENTIFICATION BUBBLE
SHEET SECTION IS SHOWN ON

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AFFF	AQUEOUS FILM-FORMING FOAM
AMP	AMPERE
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
EMT	ELECTRICAL METALLIC TUBING
FACU	FIRE ALARM CONTROL UNIT
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
IDC	INITIATING DEVICE CIRCUIT
MNSCU	MASS NOTIFICATION SYSTEM CONTROL UNIT
NAC	NOTIFICATION APPLIANCE CIRCUIT
NAP	NOTIFICATION APPLIANCE PANEL
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
RFACU	RELEASING FIRE ALARM CONTROL UNIT
SLC	SIGNALING LINE CIRCUIT
TYP	TYPICAL
UFC	UNIFIED FACILITIES CRITERIA
VAC	VOLTS ALTERNATING CURRENT
W	WATT
XP	EXPLOSION PROOF

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Client: 182ND AIRLIFT WING, PEORIA AIR NATIONAL GUARD
Project: BLDG 734 & BLDG 632 REPAIR OF FIRE SUPPRESSION AND HANGAR DOORS

Title: BLDG 632 FIRE ALARM SYMBOLS, LEGEND, ABBREVIATIONS AND NOTES

Size: Arch D

Project No. JLQN202002 | Date MARCH 27, 2026 | Scale

Status Code: Final 100% Sheet

Sheet No. FA-001 of

Plot Date: 8/7/2026 10:57:32 AM

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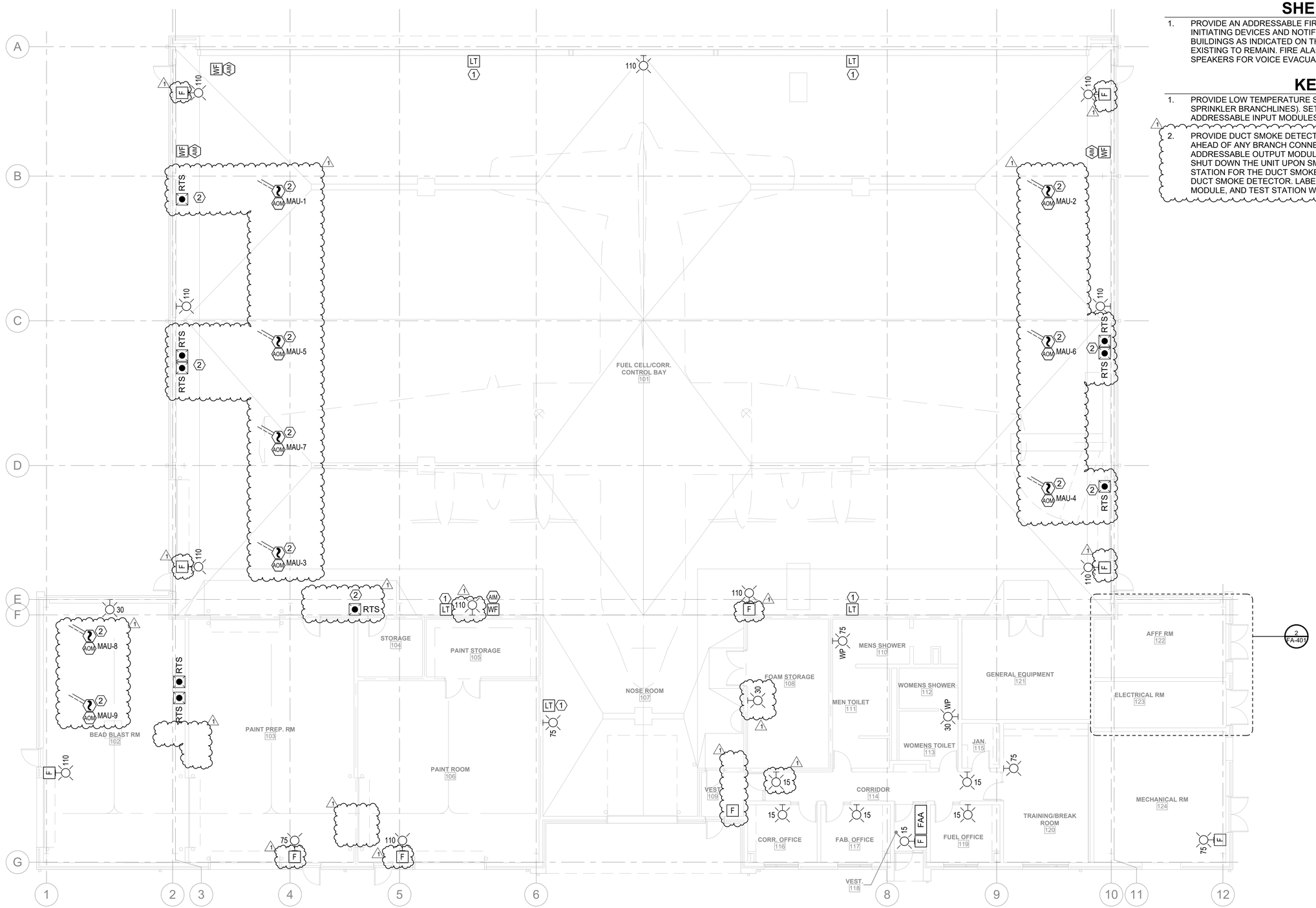

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1 BLDG 632 FLOOR PLAN - FIRE ALARM

1/8" = 1'-0"

SHEET NOTES

1. PROVIDE AN ADDRESSABLE FIRE ALARM SYSTEM FOR B632. PROVIDE INITIATING DEVICES AND NOTIFICATION APPLIANCES THROUGHOUT THE BUILDINGS AS INDICATED ON THE DRAWINGS. MASS NOTIFICATION SYSTEM IS EXISTING TO REMAIN. FIRE ALARM SYSTEM TO UTILIZE EXISTING MNS SPEAKERS FOR VOICE EVACUATION.

KEYNOTES ⟨#⟩

1. PROVIDE LOW TEMPERATURE SENSOR AT CEILING LEVEL (SAME LEVEL AS SPRINKLER BRANCHLINES). SET TEMPERATURE SENSOR TO 32°F. ADDRESSABLE INPUT MODULES ARE LOCATED WITHIN AFFF ROOM 122.
2. PROVIDE DUCT SMOKE DETECTOR DOWNSTREAM OF THE AIR FILTERS AND AHEAD OF ANY BRANCH CONNECTIONS IN THE AIR SUPPLY SYSTEM. PROVIDE ADDRESSABLE OUTPUT MODULE WITHIN 3-FEET OF MAU DISCONNECT TO SHUT DOWN THE UNIT UPON SMOKE DETECTION. PROVIDE REMOTE TEST STATION FOR THE DUCT SMOKE DETECTOR ON THE WALL ADJACENT TO THE DUCT SMOKE DETECTOR. LABEL DUCT SMOKE DETECTOR HOUSING, OUTPUT MODULE, AND TEST STATION WITH MAU DESIGNATION.

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16' 8' 4' 0
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Title: BLDG 632 FLOOR PLAN

Size: Arch D

Project No. JLQN202002 | Date MARCH 27, 2026 | Scale 1/8" = 1'-0"

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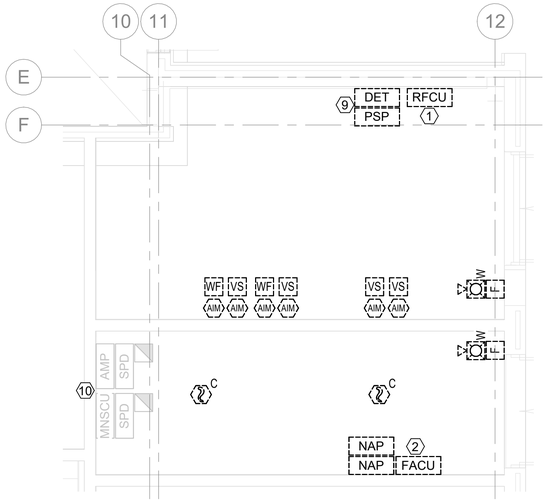
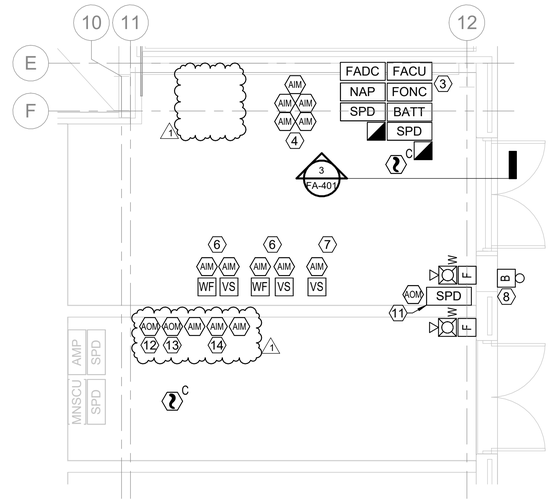
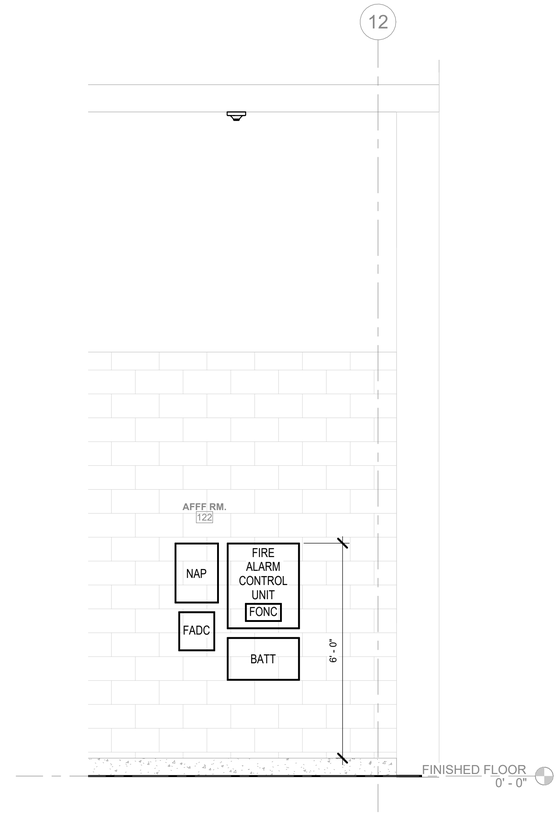


1 ENLARGED PLAN - AFFF AND ELECTRICAL ROOM - DEMOLITION
1/4" = 1'-0"



2 ENLARGED PLAN - AFFF AND ELECTRICAL ROOM - NEW WORK
1/4" = 1'-0"



3 SECTION - FIRE ALARM CONTROL UNIT - AFFF RM. 122 - FIRE ALARM
1/2" = 1'-0"

SHEET NOTES

1. DEVICE LAYOUT HAS BEEN TRANSCRIBED FROM EXISTING AS-BUILT DRAWINGS AND FIELD VERIFICATION. VERIFY DIMENSIONS, EXISTING CONDITIONS, AND ASSOCIATED EQUIPMENT PRIOR TO COMMENCING WORK.
2. MASS NOTIFICATION SYSTEM IS EXISTING TO REMAIN. FIRE ALARM SYSTEM TO UTILIZE EXISTING MNS SPEAKERS FOR VOICE EVACUATION.

KEYNOTES

1. REMOVE AFFF CONTROL PANEL. SALVAGE THE PANEL INCLUDING ALL INTERNAL COMPONENTS. DELIVER EQUIPMENT TO CE IN BUILDING 528.
2. REMOVE EXISTING FIRE ALARM CONTROL UNIT. SALVAGE THE PANEL INCLUDING ALL INTERNAL COMPONENTS. DELIVER EQUIPMENT TO CE IN BUILDING 528.
3. PROVIDE SIMPLEX FIRE ALARM CONTROL UNIT THAT IS COMPATIBLE WITH THE EXISTING SAFEPATH SP40S MASS NOTIFICATION PANEL. SURGE PROTECTIVE DEVICE SHALL BE UL1283 AND UL1449 RATED. PANEL TO INCLUDE BATTERY BACKUP AND BE SIZED TO ACCOMMODATE ALL SLC AND NAC CIRCUITS PLUS 20 PERCENT SPACE CAPACITY. PROVIDE 120VAC FIRE ALARM SYSTEM DEDICATED EMERGENCY BACKED PRIMARY POWER CIRCUIT FOR THE FIRE ALARM EQUIPMENT FROM PANEL LI BREAKER 36. FIRE ALARM CONTROL UNIT SHALL BE CONNECTED TO EXISTING MASS NOTIFICATION PANEL, REFER TO DETAIL 3 ON SHEET FA-501.
4. PROVIDE ADDRESSABLE INPUT MODULES FOR SUPERVISION OF LOW TEMPERATURE IN HANGAR BAY.
5. NOT USED.
6. PROVIDE ADDRESSABLE INPUT MODULE FOR FIRE ALARM MONITORING OF SPRINKLER SYSTEM WATERFLOW AND TAMPER SWITCHES.
7. PROVIDE ADDRESSABLE INPUT MODULE FOR FIRE ALARM MONITORING OF MAIN SHUTOFF VALVE TAMPER SWITCH.
8. PROVIDE WEATHERPROOF EXTERIOR ELECTRIC FIRE ALARM BELL ABOVE FIRE DEPARTMENT CONNECTION. PROVIDE ADDRESABLE OUTPUT MODULE FOR ACTIVATION OF ELECTRIC BELL UPON WATERFLOW DETECTION IN THE SPRINKLER SYSTEM. PROVIDE ADDRESSABLE OUTPUT MODULE WITH NEMA 4 ENCLOSURE.
9. REMOVE DET-TRONICS PANEL AND ASSOCIATED RELAYS, WIRE AND CONDUIT.
10. MASS NOTIFICATION CONTROL UNIT, AMP AND POWER SUPPLIES TO REMAIN.
11. SURGE PROTECTIVE DEVICE (SPD) FOR ALARM BELL. SPD SHALL BE UL1283 AND UL1449 RATED.
12. PROVIDE ADDRESSABLE OUTPUT MODULE TO DEACTIVATE FIRE ALARM STROBES UPON MASS NOTIFICATION SYSTEM ACTIVATION.
13. PROVIDE ADDRESSABLE OUTPUT MODULE TO ACTIVATE "FIRE ALARM" MESSAGE ON EXISTING WHEELOCK SAFEPATH SP40S ACU.
14. PROVIDE ADDRESSABLE INPUT MODULE TO MONITOR ALARM, TROUBLE AND SUPERVISORY SIGNALS ON ON EXISTING WHEELOCK SAFEPATH SP40S ACU.

TYPE B3 - 100% FINAL SUBMITTAL

No.	Issue	Checked	Approved	Date
1	PRE-BID INQUIRIES			08-07-2026
5	TYPE B3 (100%)SUBMITTAL	IS		03-27-2026
4	TYPE B2 PRE-FINAL SUBMITTAL	IS		03-02-2026
3	TYPE B1 (65%) SUBMITTAL	IS		01-05-2026
2	REVISED 35% SUBMITTAL	IS		09-22-2025
1	35% SUBMITTAL	SJ		11-07-2024

Author	NIS	Drafting Check	ACJ	Project Manager	IS
Designer	NIS	Design Check	ACJ	Project Director	TG

Bar is One inch on original size sheet
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8' 4' 2' 0
SCALE: 1/4" = 1'-0"

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Client 182ND AIRLIFT WING, PEORIA AIR NATIONAL GUARD
Project BLDG 734 & BLDG 632 REPAIR OF FIRE SUPPRESSION AND HANGAR DOORS

Title BLDG 632 ENLARGED PLANS & SECTIONS

Size Arch D

Project No. JLQN202002
Date MARCH 27, 2026
Scale As indicated

Status Code Final 100% Sheet

Sheet No. FA-401

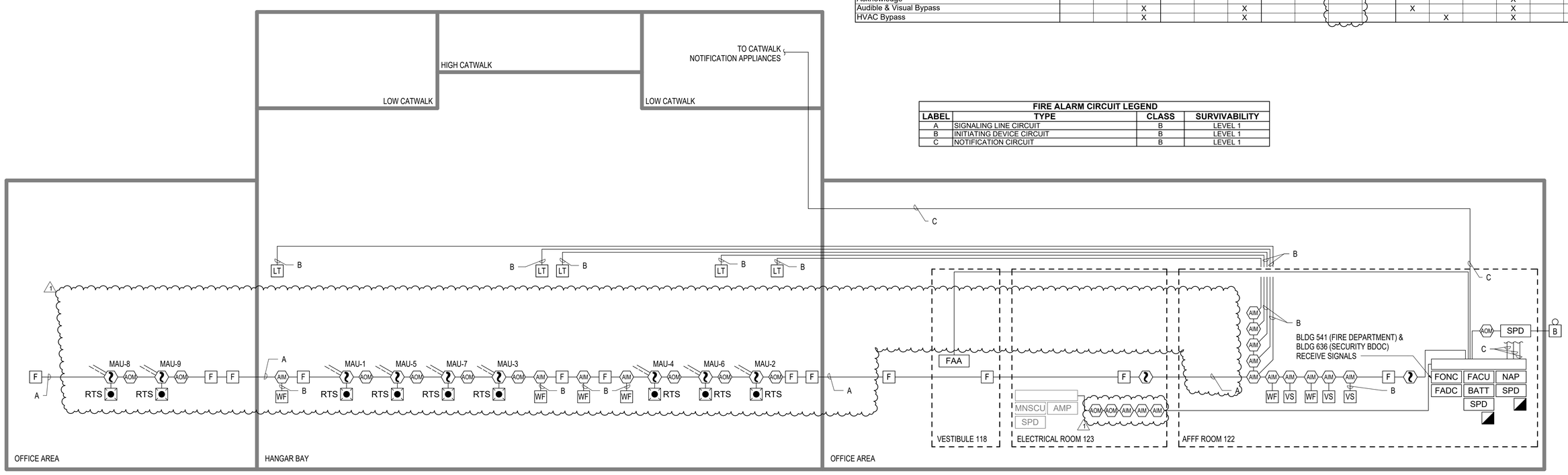
of

Plot Date: 8/7/2026 10:57:36 AM
Path and File Name: C:\Users\YTAN6\Documents\Revit 2024 Local Files\12607256-GHD-632-IMP-MDL-FA-R24_YinZhet.Tan_GVUXBKFGRZCS.rvt

INPUT DEVICE / OUTPUT	ANNUNCIATION			REPORTING			NOTIFICATION				CONTROLS					
	ALARM SIGNAL AT FACU, RFACUs & FAAs	SUPERVISORY SIGNAL AT FACU, RFACUs & FAAs	TROUBLE SIGNAL AT FACU, RFACUs & FAAs	SEND ALARM SIGNAL TO BASE FIRE DEPARTMENT DISPATCH	SEND SUPERVISORY SIGNAL TO BASE FIRE DEPARTMENT DISPATCH	SEND TROUBLE SIGNAL TO BASE FIRE DEPARTMENT DISPATCH	ACTIVATE CLEAR STROBES THROUGHOUT BUILDING	ACTIVATE MASS NOTIFICATION SPEAKERS	ACTIVATE MNS "FIRE ALARM" MESSAGE	ACTIVATE EXTERIOR ELECTRIC BELL	DISABLE AUDIO/VISUAL CIRCUITS	DISABLE AIR HANDLING UNIT SHUTDOWN	SHUT DOWN RESPECTIVE AHU	RECORD CHANGE OF STATUS	DE-ACTIVATE CLEAR STROBES	RESTORE SYSTEM TO NORMAL, IF NO ALARM, SUPERVISORY, OR TROUBLE SIGNALS ARE ACTIVE ON THE SYSTEM
INITITATING DEVICES																
Duct Smoke Detector (AHU)		X			X								X	X		
Area Smoke Detector	X			X			X	X						X		
Manual Pull Station	X			X			X	X						X		
Eyewash Station Waterflow		X			X									X		
Sprinkler System Water Flow Switch	X			X			X	X		X				X		
Sprinkler System Control Valve Tamper Switch		X			X									X		
Low Temperature Sensor		X			X									X		
SYSTEM FAULTS																
Ground Circuit, Open Circuit, Missing Device, Device Fault			X			X								X		
Primary Power Failure			X			X								X		
Low Battery			X			X								X		
Battery Supervision Fault (low voltage, open circuit, battery charge failure, etc.)			X			X								X		
Activation of Mass Notification System Alarm Signal	X			X				X	X					X	X	
Activation of Mass Notification System Supervisory Signal		X			X									X		
Activation of Mass Notification System Trouble Signal			X			X								X		
SYSTEM FUNCTIONS																
System Reset														X		X
Alarm Silence														X	X	
Acknowledge														X		
Audible & Visual Bypass			X			X					X			X		
HVAC Bypass			X			X						X		X		

FIRE ALARM CIRCUIT LEGEND

LABEL	TYPE	CLASS	SURVIVABILITY
A	SIGNALING LINE CIRCUIT	B	LEVEL 1
B	INITIATING DEVICE CIRCUIT	B	LEVEL 1
C	NOTIFICATION CIRCUIT	B	LEVEL 1



1 FIRE ALARM RISER DIAGRAM

N.T.S.

TYPE B3 - 100% FINAL SUBMITTAL

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3	TYPE B1 (65%) SUBMITTAL		IS	01-05-2026

Author	NIS	Drafting Check	ACJ	Project Manager	IS
Designer	NIS	Design Check	ACJ	Project Director	IYS

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Client: 182ND AIRLIFT WING, PEORIA AIR NATIONAL GUARD

Project: BLDG 734 & BLDG 632 REPAIR OF FIRE SUPPRESSION AND HANGAR DOORS

Title: BLDG 632 FIRE ALARM MATRIX & RISER DIAGRAM

Size: Arch D

Status Code: Final 100% Sheet

Project No.	Date	Scale
JLQN202002	MARCH 27, 2026	12" = 1'-0"

Sheet No. FA-601

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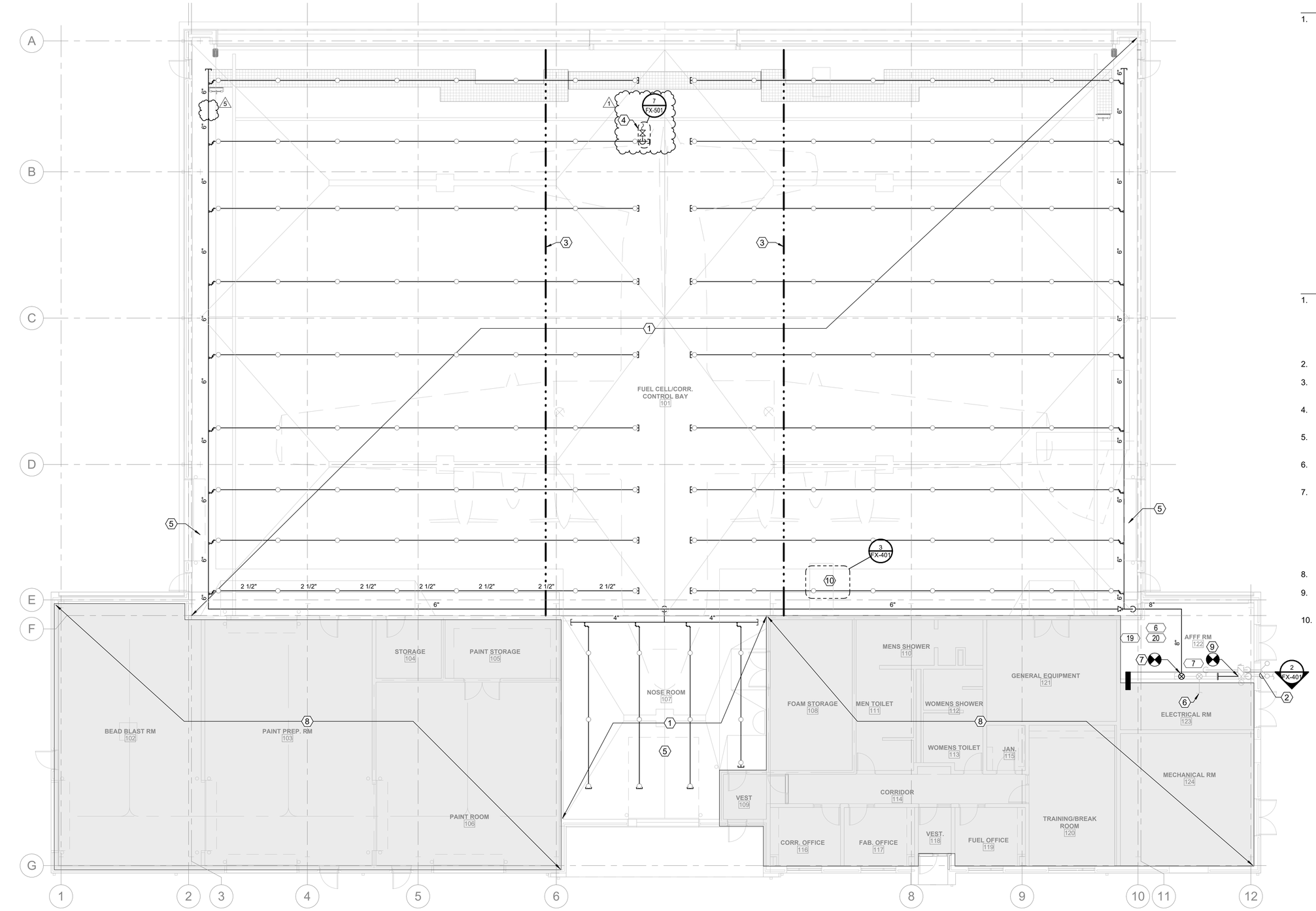

N

1 BLDG 632 FLOOR PLAN - SPRINKLER

1/8" = 1'-0"

SHEET NOTES

1. PROVIDE SPRINKLER PROTECTION UNDERNEATH MECHANICAL EQUIPMENT AND OBSTRUCTIONS EXCEEDING 48" IN WIDTH.

KEYNOTES ⟨#⟩

1. PROVIDE SPRINKLER SYSTEM IN HANGAR IN ACCORDANCE WITH SUNDOWN POLICY FOR FOAM FIRE SUPPRESSION SYSTEMS CHANGE 2, 29 DECEMBER 2022 AND UFC 4-211-01. SYSTEM MUST BE HYDRAULICALLY CALCULATED TO DELIVER 0.20 GPM/SQ.FT. OVER 5,000 SQ.FT.
2. TO EXISTING 8" UNDERGROUND PIPE.
3. PROVIDE DRAFT CURTAIN. REFER TO STRUCTURAL DRAWINGS FOR DETAIL.
4. PROVIDE AUTOMATIC AIR VENT AT THE HIGHEST ACCESSIBLE POINT OF THE SPRINKLER SYSTEM.
5. PROVIDE SIDEWALL SPRINKLER UNDER ROLLUP DOOR.
6. TO EXISTING SPRINKLER SYSTEM SERVING THE ADMINISTRATIVE SPACE.
7. PROVIDE 8" VERTICAL SPRINKLER ZONE CONTROL ASSEMBLY FOR SPRINKLERS IN HANGAR B632. CONTROL ASSEMBLY MUST INCLUDE INDICATING TYPE CONTROL VALVE WITH SYPERVISORY SWITCH (SUPERVISED OPEN), CHECK VALVE, WATERFLOW SWITCH, PRESSURE GAUGE AND TEST-DRAIN VALVE WITH PRESSURE RELIEF VALVE.
8. SHADED AREA NOT IN CONTRACT.
9. PROVIDE 8" PIPE AND CONNECT TO EXISTING OS&Y VALVE.
10. PROVIDE 8" PIPE AND TEE WITH CLEANOUT IN AFFF VALVE PIT.

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Client: 182ND AIRLIFT WING, PEORIA AIR NATIONAL GUARD

Project: BLDG 734 & BLDG 632 REPAIR OF FIRE SUPPRESSION AND HANGAR DOORS

Title: BLDG 632 FLOOR PLAN

Size: Arch D

Project No.: JLQN202002 | Date: MARCH 27, 2026 | Scale: 1/8" = 1'-0"

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ABBREVIATIONS

A	AMPERES
AC	ALTERNATING CURRENT
AF	AMPERES FRAME SIZE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
APPROX	APPROXIMATELY
AT	AMPERE TRIP RATING
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CCT	CORRELATED COLOR TEMPERATURE
CEP	CONCRETE EQUIPMENT PAD
CKTS	CIRCUITS
CRI	COLOR RENDERING INDEX
CU	COPPER
DB	DUCT BANK
DLC	DESIGN LIGHTS CONSORTIUM
DM	DOOR MANUFACTURER
DSC SW	DISCONNECT SWITCH
EC	ELECTRICAL CONTRACTOR
EG	EMERGENCY GENERATOR
FA	FIRE ALARM
FACU	FIRE ALARM CONTROL UNIT
G, GR	GROUND
GE	GENERAL ELECTRIC
GEC	GROUNDING ELECTRODE CONDUCTOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
IES	ILLUMINATING ENGINEERING SOCIETY
I/O	INPUT/OUTPUT
JB	JUNCTION BOX
K	KELVIN
kAIC	KILO-AMPS INTERRUPTING CAPACITY
kV	KILOVOLT
kVA	KILOVOLT-AMPERE
kW	KILOWATT
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MAIN CONTROL PANEL
MLO	MAIN LUGS ONLY
MTS	MANUAL TRANSFER SWITCH
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OH	OVERHEAD
Ø OR ϕ	PHASE
PF	POWER FACTOR
PNL	PANEL
PVC	POLYVINYL CHLORIDE
RCP	REMOTE CONTROL PANEL
REC	RECEPTACLE, OUTLET
RM	ROOM
ROHS	RESTRICTION OF HAZARDOUS SUBSTANCES
SqD	SQUARE D
THD	TOTAL HARMONIC DISTORTION
TYP	TYPICAL
TSTAT OR T	THERMOSTAT
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
V	VOLT, VOLTAGE
VA	VOLT-AMPERE
W	WIRE
W/	WITH
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL SYMBOLS AND ABBREVIATIONS.

POWER

+48" — DUPLEX RECEPTACLE, 20A 125V 2P 3W, GROUNDING TYPE, MOUNTING HEIGHT: +18" AFF UNO
DENOTES HEIGHT IN INCHES AFF (INTERIOR) AFG (EXTERIOR)

SINGLE RECEPTACLE, 20A 125V 2P 3W, GROUNDING TYPE,MOUNTING HEIGHT: +18" AFF UNO

QUAD RECEPTACLE, 20A 125V 2P 3W, GROUNDING TYPE

PB OR JB — PULL BOX OR JUNCTION BOX, CODE SIZED, UNO

DS OR — DISCONNECT SWITCH. SIZE/POLE/FUSE SIZE/NEMA TYPE ENCLOSURE. NF - NON-FUSED.
60/3/50/4X

OR — GROUND ROD, GROUNDING RECEPTACLE

EQUIPMENT

208Y/120V PANEL

FACU — FIRE ALARM CONTROL UNIT

M — ELECTRICAL MOTOR LOAD

WIRING AND CONDUIT

INDICATES CIRCUIT NUMBER

L1-4 — CONDUIT HOME RUN TO DESIGNATED PANEL, EXAMPLES: L1-6,8

INDICATES BRANCH PANEL

COMMA INDICATES MULTI-POLE CIRCUIT

THE TIC MARKS INDICATE THE QUANTITY OF #12 AWG WIRES OR, IF INDICATED, QUANTITY OF OTHER SIZE WIRE OR CABLES. LONG MARK INDICATES NEUTRAL. EXAMPLES:

3#12,1#12G, 3/4"C.

#8 — 6#8,1#10G,1 1/4"C.

EQUIPMENT GROUNDING CONDUCTOR IS NOT SHOWN BUT MUST BE IN EVERY CONDUIT.

OBJECT LINES

NEW OBJECTS (HEAVY CONTINUOUS LINES, UNDERGROUND CONDUIT HEAVY DASHED LINES)

EXISTING OBJECTS TO REMAIN. MAY INCLUDE NEW CIRCUITING ETC. (FINE CONTINUOUS LINES, UNDERGROUND CONDUIT FINE DASHED LINES)

EXISTING OBJECTS TO BE REMOVED (EXTRA FINE DASHED LINES, SCREENED)

EXISTING OBJECTS TO BE DEMOLISHED

ONE-LINE DIAGRAM

ALARM, INDICATING LIGHT, SIGNAL LIGHT OR STROBE

INDICATING LIGHT/ SIGNAL LIGHT AND HORN

400/3 — CIRCUIT BREAKER - SIZE AND TYPE AS INDICATED

DISCONNECT SWITCH WITH FUSE

FUSE - SIZE AS INDICATED

UTILITY TRANSFORMER, POLE MOUNTED

GROUNDING ELECTRODE OR CONNECTION

LIGHTING

$3x — LIGHT SWITCH NOTATION
3 = THREE WAY SWITCH
X = SWITCHING CIRCUIT ID

Y x — LIGHT FIXTURE NOTATION
X = SWITCHING CIRCUIT ID
Y = FIXTURE TYPE

NEW/EXISTING TEXT IDENTIFIER:

EXISTING EQUIPMENT, CONDITIONS, AND STRUCTURES ARE SHOWN IN THIS TEXT FORMAT

NEW WORK, EQUIPMENT, AND STRUCTURES ARE SHOWN IN THIS TEXT FORMAT.

(E) - EXISTING ITEM TO REMAIN

LIST OF DRAWINGS

SHEET NUMBER	SHEET NAME
E-001	REFERENCE SHEET - ELECTRICAL
E-101	BLDG 632 DEMOLITION PLAN
E-111	BLDG 632 POWER PLAN
E-112	BLDG 632 LIGHTING PLAN
E-113	BLDG 632 PARTIAL SITE PLAN
E-201	BLDG 632 CATWALK SECTION VIEW
E-501	BLDG 632 PARTIAL SINGLE-LINE DIAGRAMS
E-502	BLDG 632 HANGAR NEW DOOR INTERCONNECTION DIAGRAM
E-503	BLDG 632 LIGHTING AND PANEL SCHEDULES
E-601	BLDG 632 ELECTRICAL DETAILS

SCOPE OF WORK

THE SCOPE FOR THE ELECTRICAL PART OF THIS PROJECT IS AS FOLLOWS:

1. REMOVE ALL ELECTRICAL EQUIPMENT AND WIRING ASSOCIATED WITH HANGAR DOOR SCHEDULED FOR REPLACEMENT.
2. PROVIDE SAFETY DISCONNECTS FOR EQUIPMENT ASSOCIATED WITH NEW HANGAR DOOR.
3. PROVIDE POWER TO NEW EQUIPMENT TO MAKE HANGAR DOOR OPERATIONAL AND FUNCTIONAL.
4. PROVIDE TASK LIGHTING ON THE CATWALK.
5. PROVIDE EMERGENCY GENERATOR.
6. PROVIDE AUTOMATIC TRANSFER SWITCH (ATS).
7. PROVIDE GENERATOR GROUNDING.
8. PROVIDE SERVICE CONDUCTORS TO ATS.

GENERAL NOTES

1. "PROVIDE" MEANS CONTRACTOR MUST FURNISH NEW INSTALL COMPLETE TESTED AND READY FOR INTENDED USE.
2. "REMOVE" MEANS CONTRACTOR MUST DISCONNECT, REMOVE FROM SITE AND LEGALLY DISPOSE OF.
3. "WIRING" MEANS WIRES AND RACEWAYS.
4. DRAWINGS INDICATE THE REQUIRED EQUIPMENT, DEVICES, FIXTURES, ETC. AND THEIR RELATED CIRCUITING REQUIREMENTS. COORDINATE DEVICE LOCATIONS WITH ALL DISCIPLINES.
5. REFER TO SPECIFICATION FOR ALLOWABLE WIRING METHODS AND MATERIALS. TYPE. NM, NMC, AND NMS CABLES MUST NOT BE USED FOR THIS PROJECT.
6. VERIFY FIELD CONDITIONS AND DIMENSIONS BEFORE CONSTRUCTION BEGINS. NOTIFY THE CONTRACTING OFFICER SHOULD DISCREPANCIES OCCUR.
7. PROTECT EXISTING EQUIPMENT, CONDUIT AND WIRE THAT IS EXISTING TO REMAIN.
8. COORDINATE SHUTDOWN OF EXISTING BUILDING SYSTEMS TO MINIMIZE OUTAGE TIME.
9. PROVIDE SUPPORTS FOR CONDUIT AND ELECTRICAL EQUIPMENT THAT IS SHOWN ON THE DRAWINGS. PROVIDE SUPPLEMENTAL ATTACHMENT AND ANCHORAGE AS NEEDED. PROVIDE ANCHOR BOLTS OF THE SIZE, TYPE, AND LENGTH REQUIRED TO SATISFY THE NEC CURRENT EDITION AND THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
10. PROVIDE MINIMUM BRANCH CIRCUIT WIRING 2#12 AWG,1#12 GR, IN 3/4"C., UNLESS NOTED OTHERWISE.
11. ELECTRICAL EQUIPMENT INSTALLED IN THIS PACKAGE WITHIN ROOMS 101 & 107 FOR BUILDING 632, MUST BE MOUNTED AT OR ABOVE 18" FROM THE FLOOR TO AVOID HAZARDOUS AREA ENVELOPE. 1
12. NO METAL CLAD TYPE CABLE ALLOWED FOR THIS PROJECT.

GROUNDING NOTES

1. GROUNDING: ELECTRICAL SYSTEMS SHALL BE GROUNDED AS SPECIFIED AND SHOWN ON THE CONTRACT DRAWINGS. WORK SHALL ALSO BE PERFORMED IN ACCORDANCE WITH ARTICLE 250 OF THE MOST RECENT REVISION OF THE NATIONAL ELECTRIC CODE. REFER TO DETAILS FOR GROUNDING SCHEMATICS AND FOR GENERAL GROUNDING REQUIREMENTS OF ELECTRICAL EQUIPMENT. GROUND GRID CONNECTIONS SHOWN ON THE INDIVIDUAL PLANS ARE MINIMUM REQUIREMENTS. ALL REQUIRED CONNECTIONS ARE NOT SHOWN ON PLANS FOR BREVITY. CONTRACTOR SHALL COORDINATE NEW CONNECTIONS TO THE EXISTING GROUND GRIDS AS NECESSARY. REFER TO GROUNDING NOTES BELOW AND ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION.
2. THE GROUNDING SYSTEM IS SHOWN DIAGRAMMATICALLY. EXACT LOCATION OF CABLE, GROUND RODS AND CONNECTIONS SHALL BE DETERMINED IN THE FIELD.
3. ALL BURIED GROUNDING CABLES SHALL BE TINNED COATED AND ALL CONNECTIONS SHALL BE CADWELD OR THERMOWELD. THE WELDED CONNECTIONS SHALL BE LEFT EXPOSED FOR INSPECTION BY ENGINEER PRIOR TO BACKFILLING.
4. WHERE EXPOSED TO MECHANICAL INJURY, THE GROUNDING CONDUCTOR SHALL BE SUITABLY PROTECTED BY PIPE OR OTHER MECHANICAL PROTECTION. EACH END OF PROTECTING CONDUIT (IF METALLIC) SHALL BE GROUNDED TO THE BARE CABLE.
5. ALL EXPOSED CABLE LUGS AND CONNECTORS SHALL BE OF THE COMPRESSION TYPE, UNLESS OTHERWISE NOTED.
6. STEEL MUST BE CLEANED THOROUGHLY AND CABLE MUST BE COMPLETELY DRY BEFORE MAKING WELD CONNECTIONS.

TYPE B3 - 100% DESIGN SUBMITTAL

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Designer	ZM	Design Check	ST	Project Director	TG

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Client: 182ND AIRLIFT WING, PEORIA AIR NATIONAL GUARD
Project: BLDG 734 & BLDG 632 REPAIR OF FIRE SUPPRESSION AND HANGAR DOORS

Title: REFERENCE SHEET - ELECTRICAL

Size: Arch D

Project No. JLQN202002 | Date MARCH 27, 2026 | Scale As indicated

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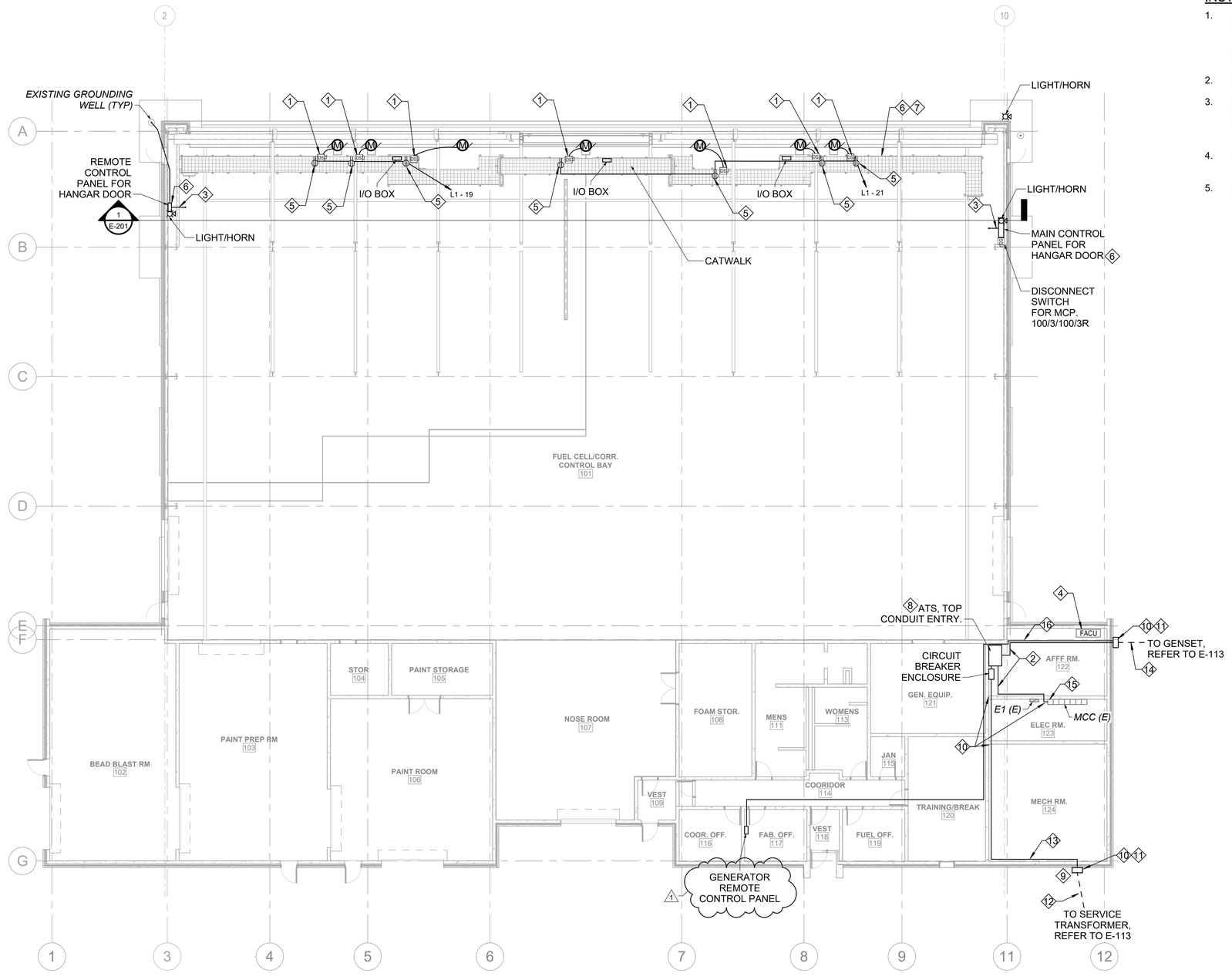
Status Code: Final 100% Sheet of



1 BLDG 632 ELECTRICAL FLOOR PLAN - NEW WORK

SCALE: 3/32" = 1'-0"

INSTALLATION SEQUENCE:

1. DISCONNECT EXISTING SERVICE CONDUCTORS FROM SERVICE TRANSFORMER SECONDARY COMPARTMENT AND MCC MAIN CIRCUIT BREAKER.
2. REMOVE SERVICE CONDUCTORS.
3. INTERCEPT EXISTING DUCT BANK AS CLOSE TO THE BUILDING BY INSTALLING EXPOSED IMC CONDUITS ALONG THE WALL TO THE PULL BOX.
4. RUN CONDUITS FROM THE PULL BOX TO THE ATS.
5. PULL NEW SERVICE CONDUCTORS AND MAKE FINAL CONNECTIONS.

GENERAL NOTES

1. SEE E-501 AND E-502 FOR SINGLE-LINE DIAGRAMS, WIRE AND CONDUIT SIZES AND MOTOR NAME TAGS.
2. ELECTRICAL PANELS L1, L2, & H2 ARE IN THE MCC IN ELEC. ROOM 123.
3. ALL METAL RACEWAYS, METAL-JACKETED CABLES, ENTIRE CATWALK STRUCTURE AND ALL NON-CURRENT CARRYING METAL PARTS OF FIXED OR PORTABLE ELECTRICAL EQUIPMENT, REGARDLESS OF VOLTAGE & FREQUENCY, SHALL BE GROUNDED AS PROVIDED IN ARTICLE 250 OF NEC, LATEST EDITION. GROUNDING IN CLASSIFIED HAZARDOUS LOCATIONS SHALL COMPLY WITH SECTION 501-16 OF NEC, LATEST EDITION.

KEYNOTES

1. PROVIDE DISCONNECT SWITCH AND ASSOCIATED WIRES AND CONDUITS BACK TO HANGAR DOOR CONTROL PANEL.
2. 3 - 4"C RUN EXPOSED, PROVIDE REQUIRED SUPPORT FROM CEILING UNDERSLAB.
3. PROVIDE CONTROL WIRES AS INDICATED ON E-502.
4. PROVIDE POWER TO FACU FROM PANEL E1 IN ROOM 123. CONNECT TO SPARE 20A/1P CIRCUIT BREAKER. PROVIDE LABEL AND UPDATE PANEL SCHEDULE.
5. PROVIDE GFI DUPLEX RECEPTACLE AND ASSOCIATED WIRES AND CONDUITS BACK TO PANELBOARD. PROVIDE WP COVER. INSTALL RECEPTACLE APPROX. 48" ABOVE CATWALK FLOOR.
6. PROVIDE CONNECTION TO NEAREST GROUND BUS. USE #2 GROUND WIRE. TYPICAL FOR THE ENTIRE PROJECT.
7. PROVIDE GROUND JUMPERS BETWEEN PARTS OF CATWALK.
8. PROVIDE 4" CONCRETE PAD.
9. REFER TO INSTALLATION SEQUENCE.
10. WATERPROOF SEAL WALL PENETRATIONS. RESTORE ALL DISTURBED SURFACES.
11. 24"X16"X12" PULL BOX ON THE WALL. MOUNT MIN. 8' AFG.
12. EXISTING 3-4"C. UNDERGROUND DUCT BANK WITH NEW SERVICE CONDUCTORS.
13. 3-4"C. WITH NEW SERVICE CONDUCTORS RUN EXPOSED. PROVIDE REQUIRED SUPPORT FROM CEILING UNDERSLAB
14. 3-4"C. UNDERGROUND DUCT BANK WITH GENERATOR SERVICE CONDUCTORS, CONCRETE ENCASED UNDER ROAD CROSSING.
15. PROVIDE PULL BOX ON THE TOP OF THE MCC, APPROXIMATE DIMENSIONS 20"X20", HEIGHT AS REQUIRED FOR CABLE PULLING.
16. 2"C. FOR COMMUNICATION WIRING.

TYPE B3 - 100% DESIGN SUBMITTAL

No.	Issue	Checked	Approved	Date
1	PRE-BID INQUIRIES			08-07-2026
5	TYPE B3 (100%) SUBMITTAL		IS	03-27-2026
4	TYPE B2 PRE-FINAL SUBMITTAL		IS	03-02-2026
3	TYPE B1 (65%) SUBMITTAL		IS	01-05-2026
2	REVISED 35% SUBMITTAL		IS	09-22-2025
1	35% SUBMITTAL		SJ	11-07-2024

Author	DR	Drafting Check	ZM	Project Manager	IS
Designer	ZM	Design Check	ST	Project Director	TG

Bar is One inch on original size sheet
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GFT

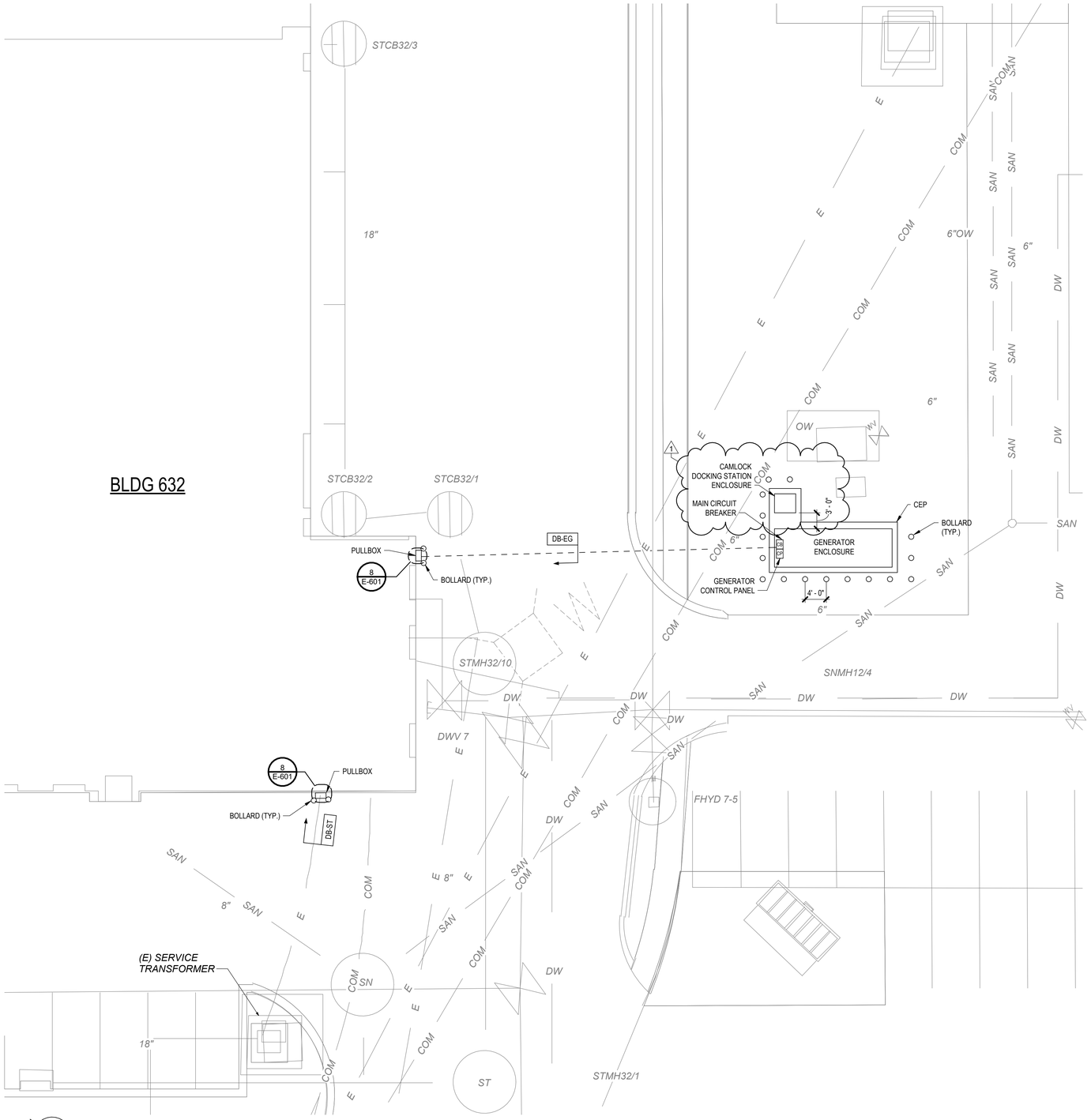
Client: 182ND AIRLIFT WING, PEORIA AIR NATIONAL GUARD
Project: BLDG 734 & BLDG 632 REPAIR OF FIRE SUPPRESSION AND HANGAR DOORS

Title: BLDG 632 POWER PLAN

Size: Arch D

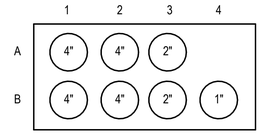
Project No.: JLQN202002
Date: MARCH 27, 2026
Scale: 3/32" = 1'-0"

Status Code: Final 100%
Sheet No.: E-111
Sheet of



1 PARTIAL SITE PLAN

SCALE: 3/32" = 1'-0"

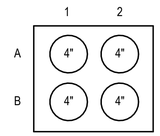


DB-EG
A1 - 4"C - GEN. POWER FEEDER
A2 - 4"C - SPARE
A3 - 2"C - W/ 3CKTS FOR BATTERY CHARGER, BATTERY HEATER, & OIL HEATER

B1 - 4"C - GEN. POWER FEEDER
B2 - 4"C - GEN. POWER FEEDER
B3 - 2"C W/ CONTROL WIRES
B4 - 1"C W/ CKT FOR GEN. SPACE HEATER

2 DUCT BANK SCHEDULE - DB-EG

NOT TO SCALE



DB-ST
A1 - EXISTING 4"C. W/ NEW CONDUCTORS
A2 - EXISTING SPARE

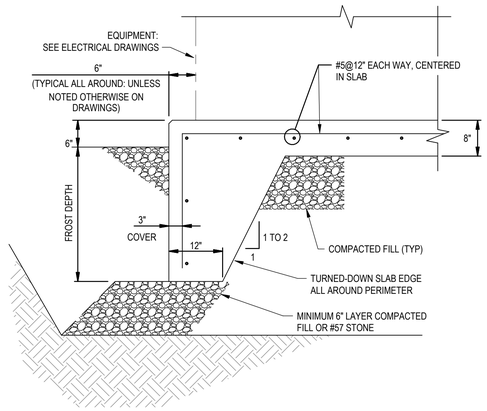
B1 - EXISTING 4"C. W/ NEW CONDUCTORS
B2 - EXISTING 4"C. W/ NEW CONDUCTORS

3 DUCT BANK SCHEDULE - DB-ST

NOT TO SCALE

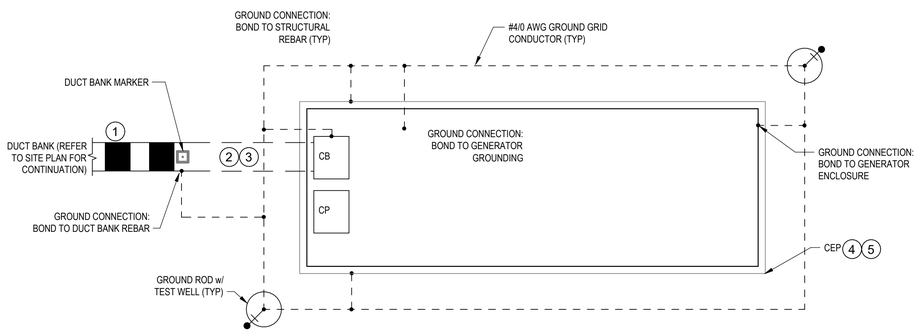
GENERAL NOTES

1. SEE E-501 AND E-502 FOR SINGLE-LINE DIAGRAMS, WIRE AND CONDUIT SIZES AND MOTOR NAME TAGS.
2. BOLLARDS PROTECTING THE GENERATOR SHALL BE 4' APART OC. AND APPROX. 12" CLEARANCE FROM GENERATOR PAD. REFER TO BOLLARD DETAIL ON E-601.



4 GENERATOR CONCRETE PAD DETAIL

NOT TO SCALE



 # DRAWING KEY NOTES:

1. INSTALL DUCT BANK PER SITE PLAN DRAWINGS.
2. GROUND CONNECTION: BOND TO GENERATOR NEUTRAL
3. DUCT BANK STUB-UPS: COORDINATE WITH GENERATOR INSTALLATION. PROVIDE WORKING SPACE REQUIREMENTS FOR EQUIPMENT AS REQUIRED PER NEC.
4. COORDINATE FINAL EQUIPMENT PAD DIMENSIONS AND MOUNTING BOLT LOCATIONS WITH THE GENERATOR MANUFACTURER AFTER SUBMITTAL APPROVAL.
5. REFER TO GENERATOR CONCRETE PAD DETAIL.

5 GENERATOR GROUNDING PLAN

NOT TO SCALE

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Client: 182ND AIRLIFT WING, PEORIA AIR NATIONAL GUARD
Project: BLDG 734 & BLDG 632 REPAIR OF FIRE SUPPRESSION AND HANGAR DOORS

Title: BLDG 632 PARTIAL SITE PLAN

Size: Arch D

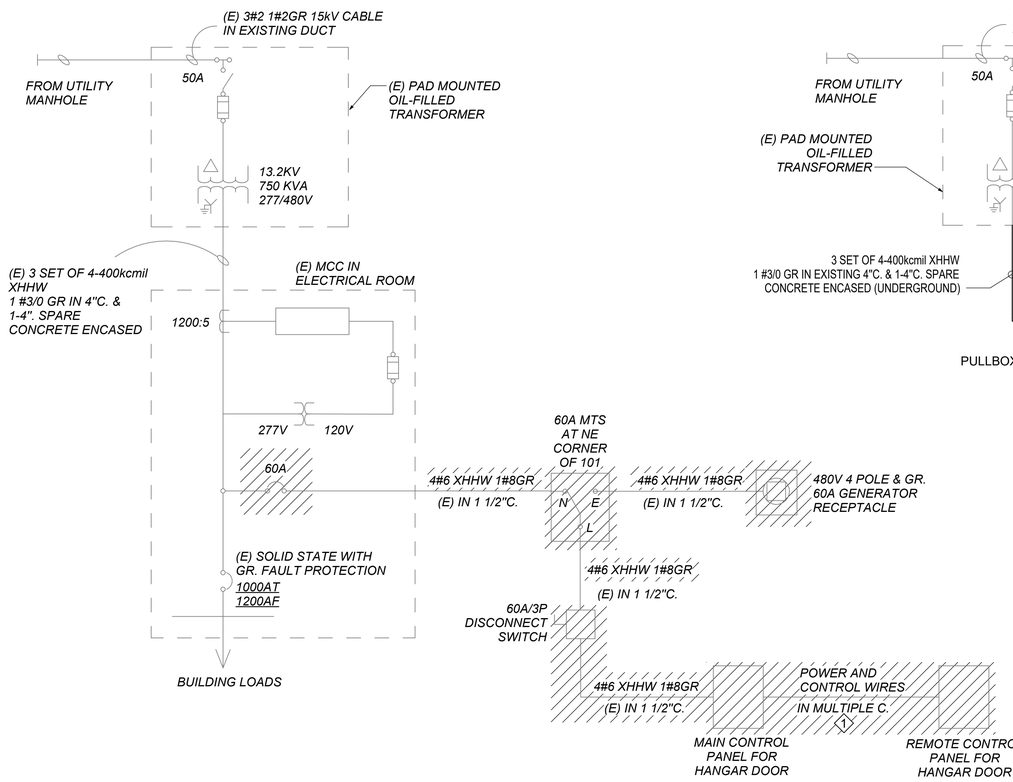
Project No. JLQN202002 | Date MARCH 27, 2026 | Scale As indicated

Sheet No. E-113

Status Code: Final 100% Sheet of

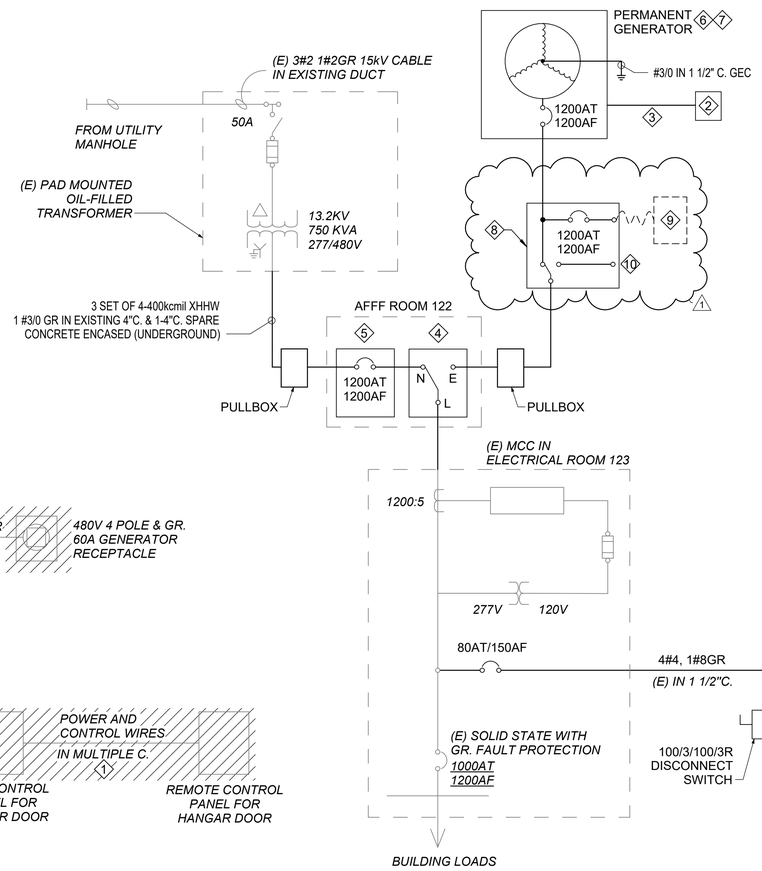
KEYNOTES

1. DEMOLISH EXISTING WIRING AND CONDUIT ASSOCIATED WITH DOOR MOTORS.
2. GENERATOR REMOTE CONTROL PANEL.
3. PROVIDE 24 CONTROL WIRES IN 2"C.
4. BYPASS ISOLATION ATS, WITH TRANSFER TIME DELAY, RATED 1000A, 480V 4-POLE, 4-WIRES, 65kAIC, NEMA 3R ENCLOSURE.
5. SOLID STATE ENCLOSED CIRCUIT BREAKER, WITH GROUND FAULT PROTECTION , WALL MOUNTED IN NEMA 3R ENCLOSURE, GROUND FAULT MAX SETTING 240A.
6. EMERGENCY GENERATOR CONTROL TYPE - UTILITY - GENERATOR WITH PREFERRED UTILITY SOURCE.
7. EMERGENCY GENERATOR, 750kW / 900kVA, STANDBY RATED, 277/40V, 4-POLE, WITH INTEGRAL FUEL TANK AND MAIN CIRCUIT BREAKER, PAD MOUNTED. SEE PARTIAL SITE PLAN.
8. PROVIDE CAMLOCK MANUAL TRANSFER STATION IN NEMA 4X STAINLESS STEEL PAD MOUNTED ENCLOSURE. PROVIDE CAMLOCK ASSEMBLY SUITABLE TO ACCEPT PORTABLE LOAD BANK WIRING. COORDINATE WITH FINAL USER.
9. PORTABLE LOAD BANK AND CONNECTING WIRING IS NOT PART OF THE PROJECT.
10. TEMPORARY/ALTERNATE SOURCE CONNECTING POINT, NOT PART OF THIS PROJECT.



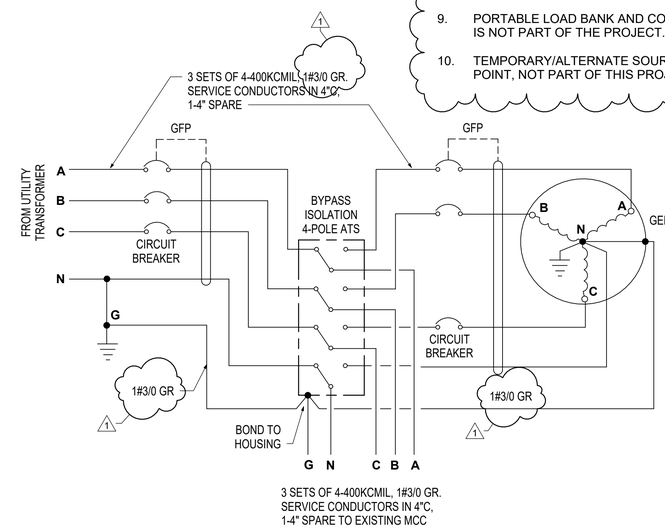
1 BLDG 632 - PARTIAL ELECTRICAL SINGLE-LINE DIAGRAM - DEMOLITION

NOT TO SCALE



2 BLDG 632 - PARTIAL ELECTRICAL SINGLE-LINE DIAGRAM - NEW WORK

NOT TO SCALE



3 4-POLE ATS CONFIGURATION DETAIL

NOT TO SCALE

SYSTEM VOLTAGE		480V, 3PH, 4W
PROPOSED LOADS	MOTOR SIZE, kW	NOMINAL CURRENT, AMPS
DOOR 1	9.2	16.6
DOOR 2	4.6	8.3
DOOR 3	9.2	16.6
MULLION 1	2.8	5.7
MULLION 2	2.8	5.7
TOTAL	28.6	52.9
DEMAND FACTOR		1.25
DEMAND LOAD, AMP		66.13
PROVIDE 4#4, 1#8GR, 1 1/2"C. FEEDER		
PROVIDE 80AT/150AF/3P CIRCUIT BREAKER IN MCC.		
CALCULATED V- DROP		2%

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Title: BLDG 632 PARTIAL SINGLE-LINE DIAGRAMS

Size: Arch D

Status Code: Final 100%

Project No. JLQN202002 | Date MARCH 27, 2026 | Scale As indicated

Sheet No. E-501 | Sheet of