ADDENDUM #1



Date: 3-7-2024 **Project:** WEC Fire Alarm Replacement

To: Jerod Beach, DCS Project Manager Project No.: DCS #2105D

Addendum No.: #1

cc: JR, BB file

CHANGES TO PROJECT MANUAL

All work shall be in accordance with the terms, stipulations, and conditions of the original contract.

27 13 23, under PART 2 paragraphs A.2.a.1), B.2.a.1) and C.2.a.1) shall read 48 in lieu of 24 fibers in each paragraph.

28 46 21. 11 paragraph 11.05 C. 15 Delete the requirements for Fire Command Center PC and Monitors for graphic display and in paragraph 16. delete the associated printers.

28 46 21.11 paragraph 2.02 A. revised the sentence to read "Notifier ONYX is the preferred brand, Siemens, Edwards, are also acceptable. Silent Knight, Mircom, FireLite are not acceptable. All systems shall meet the specifications and drawings requirements, other OR equal systems will be considered.

28 46 21.11 paragraph 2.08 FIRE ALARM GRAPHIC ANNUNCIATORS shall be deleted.

CHANGES TO PROJECT DRAWINGS

T1.00 see revised time line that shows work starting the ADMIN building, A, then the Housing Unit building C followed by the Support building B, with work to be completed in September 2024. E1.00 Has adjusted to show the Underground conduits to the other buildings along the north wall of the IT room.

ED1.00 Existing conduits in the COM ROOM A112A locations were revised to be along the east wall.

E1.00 Existing conduits in the COM ROOM A112A locations were revised to be along the east wall, and KN 1 shows approximate rack location for fiber splice cassettes to be installed in.

E1.00 In Room A192 RECEP DESK, added Key note 5 and revised KN 3 at the FACP.

E1.01 Revised the fiber splice box to be 48 strands in KN 1 and the location to the west wall of the COMM CLOSET B101A and noted the fire alarm panel to be recessed, patch and painting wall. E1.02 Added KN 2 for indicating the new FACP shall be recessed, patch and painting the wall.

E2.00 Revised Detail 2 to reflect the intent on fiber splice cassettes in building A and C while building B has the fiber splice panels and add details D3 and D4 for comm room typical elevations.

KN 6 was revised to reflect 48 strands of Single mode fiber requirements.

By: AES Date: 03-07-2024

NEBRASKA DEPARTMENT OF CORRECTIONS WORK ETHIC CAMP, MCCOOK FIRE ALARM UPGRADE

SHEET SCHEDULES

T0.00 COVER SHEET - LOCATION & SEALS
T1.00 COVER SHEET - PHASING SCHEDULE

ELECTRICAL

E0.00	ELECTRICAL SYMBOLS AND GENERAL NOTES
ED1.00	BUILDING A DEMOLITION FLOOR PLAN - FIRE ALARM
ED1.01	BUILDING B DEMOLITION FLOOR PLAN - FIRE ALARM
ED1.02	BUILDING C DEMOLITION FLOOR PLAN - FIRE ALARM
E0.01	SITE PLAN - FIRE ALARM
E1.00	BUILDING A FLOOR PLAN - FIRE ALARM
E1.01	BUILDING B FLOOR PLAN - FIRE ALARM
E1.02	BUILDING C FLOOR PLAN - FIRE ALARM
E2.00	FIRE ALARM RISER DIAGRAMS & DETAILS

2309 NORTH HWY. 83 MCCOOK, NE 69001

Construction Documents February 7, 2023

DCS PROJECT # 2105D

PROFESSIONAL SEALS

COORDINATING PROFESSIONAL





I, RONNIE L. OSTENDORF, AM THE COORDINATING PROFESSIONAL ON THE NSP FIRE ALARM UPGRADE PROJECT

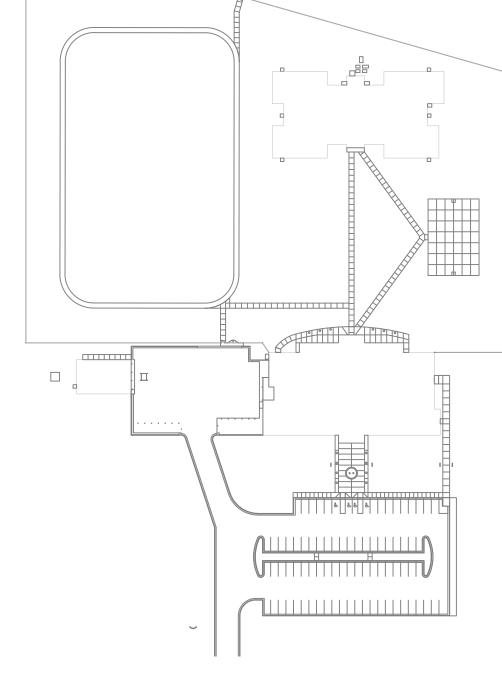
ELECTRICAL



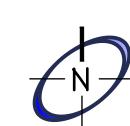


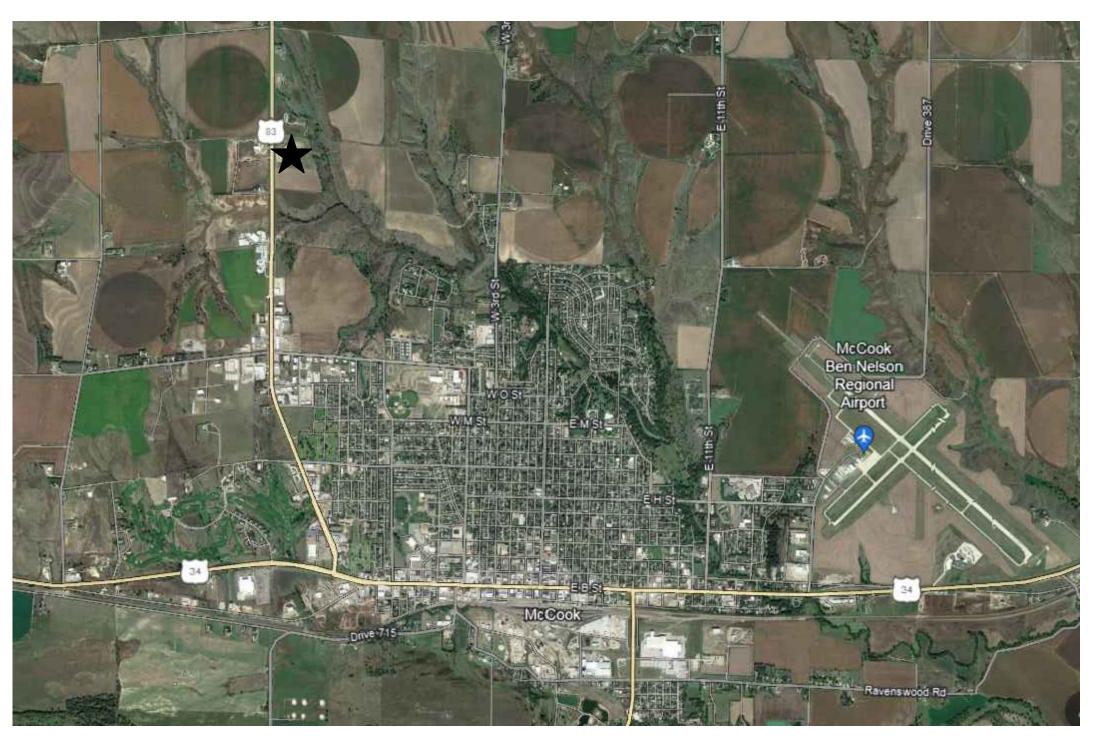
PROJECT LOCATION





VICINITY LOCATION





NEBRASKA DEPARTMENT OF CORRECTIONS WORK ETHIC CAMP, MCCOOK FIRE ALARM UPGRADE 2309 NORTH HWY. 83 MCCOOK, NE 69001

Construction Documents February 7, 2024

DCS PROJECT # 2105D

	PHASI	NG 50	HEDUL	E											
	MAR 2024	APR 2024	MAY 2024	JUN 2024	JUL 2024	AUG 2024	SEP 2024	OCT 2024	NOV 2024	DEC 2024	JAN 2025	FEB 2025	MAR 2025	APR 2025	MAY 2025
>		PRE-BID ME	EETING 3/5 1	0:00 AM, B	ID 3/14 2:00F	PM									
X			SITE ADMIN	HOU	JSING UNIT	SUPP	ORT BLDGS								
							_	——— CONTR	ACT WORK	KEEP DOWN	IME TO A	MINIMUM			
$\{ $															
$\langle $								P	PUNCH LIST	/ CLOSE OU	T				
Y															

INTF.

NORMAL OPERATING TIMES AT THIS FACILITY ARE FROM 7:00 AM TO 4:00 PM MONDAY THROUGH FRIDAY. GENERAL CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL WORK WITH OWNER AT WEEKLY MEETINGS DURING THE ENTIRE CONSTRUCTION PERIOD. ALL WORK SHALL BE COORDINATED WITH THE FACILITY DIRECTOR AT LEAST 1 WEEK PRIOR TO COMMENCING ACTIVITY IN ANY PARTICULAR AREA.

- GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING INFORMATION ON ALL CONTRACTORS AND SUB-CONTRACTOR (INFORMATION TO INCLUDE BUT NOT LIMITED TO: NAME, ADDRESS, AND DATE OF BIRTH) TO THE NEBRASKA STATE PATROL FOR BACKGROUND CHECK. GENERAL CONTRACTOR IS RESPONSIBLE FOR ANY APPLICABLE FEE FOR BACKGROUND CHECK. GENERAL CONTRACTOR IS TO PROVIDE OWNER WITH STATE PATROL'S REPORT LISTING CONTRACTORS WHO HAVE PASSED THE BACKGROUND CHECK.
- THIS IS A TOBACCO FREE FACILITY. CONSTRUCTION PROJECT EMPLOYEES MAY USE TOBACCO PRODUCTS ONLY IN THE DESIGNATED AREAS.
- CONTRACTOR IS RESPONSIBLE FOR PROPER NOTIFICATION OF WORK THAT MAY AFFECT THE BUILDING OCCUPANTS; WORK INCLUDES, BUT NOT LIMITED TO, TEMPORARY BLOCKAGE OF EGRESS AND EXITS, DEACTIVATION OF FIRE ALARM AND/OR FIRE SUPPRESSION SYSTEM, OR ANY UTILITY INTERRUPTION.
- ALL VEHICLES, TOOLS, AND EQUIPMENT ARE TO REMAIN SECURE AT ALL TIMES AND IS THE RESPONSIBILITY OF THE CONTRACTOR. PLAN INDICATES AREA THAT CAN BE USED AS STAGING AREA FOR CONTRACTORS.
- CONTRACTOR IS RESPONSIBLE FOR INFORMING OWNER VIA HOT WORK (WELDING, BRAZING, SOLDERING) PERMIT OF ALL HOT WORK BEING PERFORMED.
- CONTRACTOR IS RESPONSIBLE FOR FILLING OUT AND FILING ALL REQUIRED PERMITS AND PAPERWORK.
- SYSTEM SHUT DOWNS SHALL BE COORDINATED WITH THE OWNER A MINIMUM 1 WEEK PRIOR TO ACTUAL SHUT DOWN. SHUTDOWNS WILL BE WEATHER DEPENDANT. SHUT DOWN AT THE END OF EACH PHASE SHALL BE AS SHORT AS POSSIBLE TO A MAXIMUM OF 2 DAYS. ALL EFFORTS SHALL BE MADE TO REDUCE THE LENGTH OF THE SHUTDOWN.
- CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY CONDITIONS FOR EXACT SIZES AND LOCATIONS, ALL EXISTING CONDITIONS ARE SHOWN BASED ON VISIBLE EXISTING CONDITIONS AND ORIGINAL DESIGN DRAWINGS.
- CONTRACTORS WILL BE GIVEN ONE WEEK TO REPLACE THE FIRE ALARM SYSTEM IN EACH HOUSING UNIT, THIS IS TO BE COORDINATED WITH DCS FOR THEY WILL COVER THE FIRE WATCH REQUIREMENTS DURING THAT WEEK. THIS INCLUDES TESTING WITH THE FIRE MARSHAL AFTER THE SYSTEM IS TESTED AND OPERATIONALLY READY AND COMPLETED.

NOTE

ALL CONTRACTORS AND SUB-CONTRACTORS BEFORE BIDDING SHALL READ AND REVIEW ALL SHEETS FOR THE EXTENTS OF THEIR RESPECTIVE WORK. EACH CONTRACTORS WORK MAY SHOW UP ON SHEETS OTHER THAN THEIR NAMED SHEETS. THIS PROJECT CONTAINS A SPECIFICATION BOOK. ALL CONTRACTORS ARE RESPONSIBLE FOR MEETING ALL REQUIREMENT OUTLINED.

TELEPHONE PEDESTAL

TELEVISION PEDESTAL

WIRELESS ACCESS POINT

ELECTRICAL GENERAL NOTES

<u>DEMOLITION GENERAL NOTES</u>

THESE PLANS REPRESENT THE BEST INFORMATION AVAILABLE DURING ON-SITE INVESTIGATION AND/OR EXISTING DRAWINGS. THERE MAY BE MORE DEVICES TO BE REMOVED THAN SHOWN. THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOBSITE PRIOR TO SUBMITTING A BIC THE BUILDING NEEDS TO REMAIN FUNCTIONAL DURING ALL PHASES OF CONSTRUCTION. COORDINATE ALL REQUIREMENTS WITH THE OWNER AND ARCHITECT. MAINTAIN THE INTEGRITY OF ALL DEVICES NOT REQUIRED TO BE REMOVED.

ALL DASHED ITEMS AND ITEMS NOTED WITH 'D' SHALL BE REMOVED IN THEIR ENTIRETY. THIS INCLUDES WIRING DEVICES, CONDUIT/RACEWAY, J-BOXES, AND ALL ASSOCIATED WIRING/CABLING TO EXTENT POSSIBLE. NOT ALL OR EVERY ITEM IS SHOWN FOR

AND RELOCATED. RETEST ALL AFFECTED DEVICES TO MAINTAIN CIRCUIT INTEGRITY OF ALL EXISTING CIRCUITS AND CONNECTIONS. EXISTING ELECTRICAL CONDUIT WHICH IS NOT CONCEALED IN WALLS OR FLOOR SLAB AND WHICH IS NOT BEING REUSED SHALL BE REMOVED. WIRING SHALL BE REMOVED AND ABANDONED CONDUIT SHALL BE CUT OFF FLUSH WHERE IT ENTERS THE FLOOR OR WALL AND SEALED. EXISTING CONDUIT TO REMAIN SHALL BE SUPPORTED.

WHERE DEVICES ARE TO BE REMOVED FROM EXISTING SURFACES OR ABANDONED, THE CONTRACTOR SHALL INSTALL BLANK STAINLESS STEEL WALL PLATES. EXTRA CARE SHOULD BE TAKEN NOT TO DAMAGE EXISTING SURFACES OR FINISHES. ALL REPAIR COSTS SHALL BE AT THE EXPENSES OF THE CONTRACTOR. REPAIR ALL HOLES FROM THE REMOVAL OF ELECTRICAL ITEMS AND PATCH/PAINT TO

ALL NEW WIRING/CONDUITS SHALL BE CONCEALED IN NEW WALLS AND ALSO IN EXISTING WALLS WHERE POSSIBLE. EVERY EFFORT SHALL BE MADE TO CONCEAL WIRING IN EXISTING WALLS. 3/4" EXISTING WALLS. BOXES SHALL BE CUT IN AND RECESSED WHERE POSSIBLE. SURFACE MOUNT CONDUIT INSTALLATIONS ARE ACCEPTABLE ONLY IN UNFINISHED AREAS (I.E. MECHANICAL AND ELECTRICAL

SURFACE INSTALLATIONS IN FINISHED AREAS SHALL BE PERMITTED ONLY IF ABSOLUTELY NECESSARY. IF IT IS NOT PHYSICALLY POSSIBLE OR PRACTICAL TO CONCEAL RACEWAYS, THE CONTRACTORS SHALL BE PREPARED TO FURNISH AND INSTALL CONDUIT WITH 2 HOLE STRAPS FOR ADDED SECURITY. FOR NEW DEVICES SHOWN ON EXISTING GYP-BOARD WALLS, CONTRACTOR SHALL BE CUT NEW RECESSED REMODEL J-BOX INTO WALL AND ROUTE 3/4" FLEXIBLE METALLIC CONDUIT INSIDE WALL FROM J-BOX TO ABOVE CEILING TO ACCESSIBLE AREA. CONDUIT ENDS SHALL BE REAMED AND FREE OF BURRS. SURFACE MOUNT EMT IS ACCEPTABLE IN UNFINISHED AREAS.

NEW BOXES SHALL BE CUT IN & RECESSED WHERE POSSIBLE. ELECTRICAL CONTRACTOR SHALL MAKE EVERY EFFORT TO CONCEAL NEW RACEWAYS IN EXISTING WALLS [3/4" FMC WILL BE PERMITTED]. EXPOSED RACEWAYS WILL BE PERMITTED IN UNFINISHED AREAS

IF IT IS NOT PHYSICALLY POSSIBLE OR PRACTICAL TO CONCEAL RACEWAYS. ELECTRICAL CONTRACTOR SHALL BE PREPARED TO FURNISH/INSTALL ONE-PIECE STEEL SURFACE RACEWAY, WIREMOLD 700 SERIES OR EQUAL. COLOR TO BE APPROVED BY OWNER. SECURE ALL PATHWAYS WITH TWO HOLE STRAPS AND TAMPER PROOF SCREW/BOLTS HEADS.

PROVIDE IVORY COVERPLATES OVER UNUSED OR ABANDONED CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CUTTING. PATCHING AND REPAIRING OF EXISTING WALLS WHERE NEW DEVICES/CONDUIT ARE TO BE INSTALLED RECESSED.

ALL ABANDONED AND UNUSED CABLING SHALL BE REMOVED UNLESS LABELED FOR FUTURE USE AND SUPPORTED BACK TO SOURCES. CONTRACTOR TO VISIT SITE PRIOR TO BIDDING FOR FIELD

PATCH. REPAIR, PAINT WALLS WHERE DEVICES HAVE BEEN REMOVED.

PROJECT GENERAL NOTES

THE FIRE ALARM WILL BE DESIGNED AND INSTALLED AS REQUIRED BY SECTION 408.10 OF THE IBC 2012 FOR I-3 OCCUPANCIES TO NOTIFY STAFF. THE FIRE ALARM WILL BE IN COMPLIANCE WITH IBC

A MANUAL FIRE ALARM SYSTEM WILL BE INSTALLED AS REQUIRED BY IBC 2012 907.2.6 AND NFPA 101, 2000 EDITION. MANUAL FIRE ALARM STATIONS WILL BE INSTALLED AT EACH MEANS OF EGRESS. MANUAL STATIONS WILL BE MOVED FROM EGRESS DOORS IN I-3 INMATE AREAS TO STAFF ATTENDED LOCATIONS THAT HAVE DIRECT SUPERVISION OVER AREAS WHERE MANUAL PULL STATIONS HAVE BEEN DELETED AS ALLOWED BY 2012 IBC 907.2.6.3.2. MANUAL PULL STATIONS SHALL BE LOCKED IN AREAS WHERE INMATES HAVE ACCESS TO THE STATION PER IBC 2012 907.2.6.3.2.1. LOCAL STAFF WILL HAVE KEYS TO UNLOCK AND ACTIVATE MANUAL STATIONS. SMOKE DETECTOR SYSTEM WILL BE INSTALLED THROUGHOUT INMATE

AREAS AS REQUIRED BY IBC 2012 907.2.6.3.3. SINCE THE FACILITY IS SPRINKLERED THROUGHOUT, SMOKE DETECTORS WILL BE DELETED IN CELLS WITH FOUR OR FEWER OCCUPANTS AS ALLOWED BY EXCEPTION 3IN IBC 2012 907.2.6.3.3.

IN GROUP I-3 AREAS, THE FIRE ALARM WILL BE A PRIVATE EVACUATION SYSTEM DESIGNED TO ALERT STAFF PER IBC 2012 907.2.6.3.1 AND NFPA 101, 2000 EDITION SECTION 9.6.3.7.

EMERGENCY RELEASE WILL BE ACTIVATED FROM CENTRAL CONTROL THROUGH THE DOOR CONTROL SYSTEM. UNDER EMERGENCY RELEASE, DOORS WILL NOT AUTOMATICALLY RELOCK WHEN CLOSED UNTIL EMERGENCY RELEASE IS CANCELED BY THE INITIATING STATION AS REQUIRED BY IBC 2012, SECTION 408.4. THE FIRE ALARM CONTRACTOR WILL BE THE PRIMARY CONTRACTOR

FOR THIS SYSTEM AND SHALL BE RESPONSIBLE FOR PROVIDING AND COORDINATING THE PRIVATE FIRE ALARM SYSTEM WITH THE ELECTRICAL AND MECHANICAL CONTRACTOR.

ALL FIRE ALARM SYSTEM WIRING SHALL BE IN CONDUIT. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL AL FIRE ALARM SYSTEM CONDUIT AND BACKBOXES BETWEEN THE FIRE ALARM DEVICES TO THE FIRE ALARM CONTROL PANEL UNLESS OTHERWISE NOTED. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALI POWER WIRING, CONDUIT, DISCONNECT, AND MOTOR STARTERS. ALL CONDUIT SHALL BE 3/4" UNLESS OTHERWISE NOTED. COORDINATE CONNECTIONS WITH ALL APPROPRIATE TRADES.

THE AUDIO VISUAL DEVICE SHOWN SHALL HAVE ADJUSTABLE RATINGS IN ALL LOCATION EXCEPT IN SMALL ROOMS WHERE THE

MINIMUM VALUES ARE SUFFICIENT. WHEN PROTECTIVE COVERS OR

CAGES ARE INSTALLED THE FIRE ALARM CONTRACTOR SHALL MAK

THE NECESSARY ADJUSTMENTS WHERE THE COVER USED RESTRICTS THE CANDELA RATING. ANY MODIFICATION TO CONDUIT ROUTINGS FROM WHAT IS SHOWN ON THESE PLANS MUST BE SUBMITTED AND APPROVED PRIOR TO INSTALLATION. ALL CONDUIT INSTALLED (EXCLUDING EQUIPMENT ROOMS) SHALL BE

CONDUIT ROUTING WITH ALL TRADES. K. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT FROM FIRE ALARM CONTROL PANELS TO ADDRESSABLE DEVICES. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALI CONDUIT FROM ADDRESSABLE INPUT AND OUTPUT MODULES TO ALL EXISTING ITEMS SHOWN IN LIGHT SHADE ARE TO REMAIN AND SHALL MONITORED, SUPERVISED AND CONTROLLED DEVICES. CABLING ROUTED BE PROTECTED. ALL DEVICES SHOWN WITH 'RL' ARE TO BE REMOVED UNDER THE SLAB SHALL BE WET RATED. (TYPICAL)

> ALL SMOKE DETECTORS PROVIDED FOR THIS PROJECT SHALL BE MONITORED AND CONTROLLED BY THE ADDRESSABLE BUILDING FIRE ALARM SYSTEM. THE FIRE ALARM CONTRACTOR SHALL FURNISH AND INSTALL ALL WIRING FROM FIRE ALARM CONTROL PANELS TO ADDRESSABLE DEVICES. THE FIRE ALARM CONTRACTOR SHALL FURNISH AND INSTALL ALL WIRING FROM ADDRESSABLE INPUT AND OUTPUT MODULES TO ALL MONITORED SUPERVISED AND CONTROLLED DEVICES. CABLING ROUTED UNDER THE SLAB SHALL BE WET RATED.

CONCEALED. CONDUIT IN INMATE AREAS AND WHERE FEASIBLE IN TH

COORDINATE THE MOUNTING LOCATIONS OF ALL PULL BOXES AND

REMAINDER OF THE FACILITY, SHALL BE ROUTED UNDER SLAB. FULLY

THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL DEDICATED 120 VAC POWER CIRCUIT AT EACH FIRE ALARM CONTROL PANEL (FACP) LOCATION. EXISTING FACP REPLACED WITH NEW FACP, RECONNECT TO EXISTING AC EMERGENCY POWER CIRCUIT. N. A DURABLE ZONED GRAPHIC BUILDING PLAN, DISPLAYING THE FIRE

ALARM DEVICES AND THEIR NUMBERS. THE DURABLE ZONED GRAPHIC

BUILDING PLAN SHALL BE PLACED AT OR NEAR THE FACP AND

A SEPARATE PERMIT SUBMITTAL INDICATING EXACT EQUIPMENT CONFIGURATION, VOLTAGE DROP CALCULATION, BATTERY CALCULATIONS AND ALL OTHER INFORMATION REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ).

THE FIRE ALARM SYSTEM SHALL BE CONNECTED TO A UNIFIED GROUND SYSTEM. ALL TRANSIENT VOLTAGE SURGE SUPPRESSION GROUND CONNECTIONS MUST BE LESS THAN 1 OHM. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, WIRING, AND TVSS DEVICES TO BE MONITORED BY THE FIRE ALARM SYSTEM. WHERE FIRE ALARM INPUTS ARE CONNECTED TO A SUPERVISING

STATION FIRE ALARM SYSTEMS EMPLOYING AUTOMATIC FIRE DETECTORS OR WATERFLOW DETECTION DEVICES SHALL INCLUDE A MANUAL PULL STATION TO INITIATE A SIGNAL TO THE SUPERVISING STATION. REFER TO NFPA 72, 23.8.5, 2002 EDITION. ALL FIRE ALARM DEVICES, EQUIPMENT, COMPONENTS, AND SEQUENCES SHALL BE INDIVIDUALLY TESTED FOR ACCEPTANCE AS REQUIRED BY THE IBC, 909.18, 2012 EDITION.

THE DRAWINGS ARE DIAGRAMMATIC AND ARE PROVIDED TO INDICATE THE CONTROL/MONITOR OF THE FIRE ALARM DEVICES AND THE INTERCONNECTIONS TO THE EXISTING EQUIPMENT THAT IS TO BE FURNISHED AND INSTALLED AS A PART OF THIS PROJECT, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND CONFIGURATION. ALL DIMENSIONS SHALL BE FIELD VERIFIED.

GATHERED FROM AS-BUILT DOCUMENTS AND SITE SURVEYS. ALL INFORMATION IS BELIEVED TO BE CORRECT. BUT IS NOT GUARANTEED. THE FIRE ALARM CONTRACTOR SHALL CONFIRM ALL EXISTING EQUIPMENT LOCATION AND CONDITIONS (SHOWN IN HALF-TONE/DASHED) UNLESS OTHERWISE NOTED. FIELD VERIFY EXISTING 120 VAC CIRCUIT BREAKERS IN POWER

EXISTING EQUIPMENT AND CONDITIONS INDICATED HERE WERE

ALARM SYSTEM. PROVIDE MISSING HANDLE LOCKS ON ALL BRANCH CIRCUIT BREAKERS POWERING FA PANELS. ALARM DEVICES TO AN EXISTING FIRE ALARM CIRCUITRY OR TO THI NEAREST FACP AS SHOWN ON PLANS. THE FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONDUIT SIZE, LOCATION, AND BACKBOX WITH THE ELECTRICAL CONTRACTOR. ALL NEW CONDUIT SHALL BE A MINIMUM 3/4" IN SIZE. SIZE CONDUIT AS REQUIRED PER

PANELS FOR POWER TO NEW FIRE ALARM SYSTEM. THE INTENT

TO UTILIZE EXISTING CIRCUITS IN EACH AREA TO POWER NEW FIRE

W. THE FIRE ALARM CONTRACTOR SHALL FURNISH AND INSTALL NEW FIRE ALARM SYSTEM EQUIPMENT AND FIELD DEVICES SHOWN ON THI INDIVIDUAL BUILDING FLOOR PLANS AND AS INDICATED IN THE MONITORED AND CONTROLLED BY THE ADDRESSABLE BUILDING'S FIRE

THE FIRE ALARM CONTRACTOR SHALL REUSE EXISTING WIRE AND CONDUIT IF THE WIRE AND CONDUIT IF THE WIRE IS IN "LIKE NEW" CONDITION. ALL FIRE ALARM SYSTEM WIRING SHALL BE IN CONDUIT. ALL NEW CONDUIT SHALL BE ROUTED ABOVE CEILINGS OR BELOW SLAB. COORDINATE EXACT ROUTING WITH ENGINEER. IF THE SPACE DOES NOT HAVE A CEILING, ROUTE CONDUIT SURFACE MOUNTED ON A WALL 12' ABOVE FINISHED FLOOR OR ON THE STRUCTURAL CEILING. EXPOSED EXTERIOR CONDUIT SHALL BE RIGID.

PRECAUTIONS TO AVOID STRUCTURAL DAMAGE. FIREPROOF ALI PENETRATIONS MADE FOR THIS PROJECT. THE CONTRACTOR SHALI PATCH ANY HOLES IN EXISTING WALL/CEILING WHERE PENETRATION OCCURS. FILL HOLES WITH GROUT. MATCH COLOR OF EXISTING WALLS AS CLOSELY AS POSSIBLE. THE FIRE ALARM CONTRACTOR SHALL COMPLETELY COORDINATE THE

WHERE FLOORS OR WALLS ARE PENETRATED, TAKE ALL

MOUNTING LOCATIONS OF ALL NEW CONDUIT WITH ALL EXISTING CONDITIONS. ALL DEVICES SHALL BE FIELD LOCATED TO AVOID DAMAGE FROM DOORS OPENING AND CONTACTING WALLS. AA. THE FIRE ALARM CONTRACTOR TO REMOVE AND REPLACE DUCT SMOKE DETECTORS AT ALL EXISTING AIR HANDLING UNITS. FURNISH ONE DUCT SMOKE DETECTOR FOR FACH AIR HANDLING UNIT OVER 2000 CFM AND LESS THAN 15000 CFM (CUBIC FEET PER MINUTE). FURNISH TWO DUCT SMOKE DETECTORS FOR EACH AIR HANDLIN UNIT OVER 15000 CFM. UTILIZE EXISTING WIRE AND CONDUIT TO

CONNECT THE DUCT DETECTORS TO THE FIRE ALARM SYSTEM.
PROVIDE REMOTE STATUS TEST SWITCHES FOR DUCT DETECTORS ABOVE DROP CEILINGS OR ABOVE 10' AFF. AB. THE FIRE ALARM CONTRACTOR TO REMOVE AND REPLACE ALL EXISTING ADDRESSABLE (I/O) MODULES AND RELAYS FOR CONTROLLING THE HVAC UNITS. SMOKE DAMPERS. FIRE/SMOKE DAMPERS SMOKE EXHAUST FANS, AND/OR MOTORIZED AIR DAMPERS UTILIZE EXISTING WIRE AND CONDUIT TO CONNECT THE ADDRESSABLE

(1/0) MODULES AND RELAYS TO THE FIRE ALARM SYSTEM.

AC. THE FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE CAUSED BY THE INSTALLATION OF THIS WORK.
NOTIFY THE FACILITY MAINTENANCE STAFF IMMEDIATELY OF ANY

AD. ALL INTERIOR PENETRATIONS SHALL BE FIRE SEALED IN ACCORDANCE WITH THE EXISTING WALL RATING. EXPOSED CONDUIT BELOW (12') SHALL BE RIGID, ATTACHED, AND STRAPPED. ALL EXTERIOR

PENETRATIONS SHALL BE WEATHER SEALED. AE. EXISTING WIRING THAT IS NOT RE USED/ENERGIZED CANNOT BE

ABANDONED IN PLACE. REMOVE ALL ABANDONED WIRE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. AF. ALL EXISTING FIRE ALARM DEVICES AND EQUIPMENT TO BE REPLACED AS INDICATED ON THE DRAWINGS. ALTHOUGH NOT SHOWN REPLACE ALL FIRE ALARM PIV AND SPRINKLER RISER VALVE INITIATING AND MONITORING MODULES AND DEVICES. PROVIDE

MODULES WITH ALLOWED DEVICES PER NFPA CODES.

AG. THE OWNER SHALL HAVE FIRST RIGHT OF SALVAGE FOR ALL REMOVED USED EQUIPMENT. THE FIRE ALARM CONTRACTOR SHALL DISPOSE OF ALL EQUIPMENT NOT SALVAGED BY THE OWNER.

AH. VERIFY ALL EQUIPMENT LOCATIONS AND REQUIREMENTS WITH ELEVATOR MANUFACTURER'S SHOP DRAWING PRIOR TO INSTALLATION

AI. REPLACE EACH FIRE ALARM PANEL IN THE SAME LOCATION. PROTECT AND REUSE EXISTING FIBER FOR MAINTAINING FIRE ALARM NETWORK IF NECESSARY FOR PHASING CONSTRUCTIONS PROVIDE 2 NEW SM

BACK BOXES CUT AND PATCH THE WALLS TO MATCH THE EXISTING

CONDITIONS. WHERE EXISTING FIRE ALARM ANNUNCIATORS ARE

SURFACE MOUNTED PROVIDE PAINTED TRIM RINGS TO COVER

FIBER STRANDS BETWEEN FIBER PANELS AND FACP. AJ. WORK LIFTS SHALL REMAIN ON SITE UNTIL ALL TESTING IS COMPLETE AND THE FIRE MARSHAL HAS SIGNED OFF ON THE ENTIRE FACILITY NETWORKED SYSTEM. IF TAKEN OFF PRIOR TO COMPLETION NO COMPENSATION WILL BE GIVEN FOR REMOBILIZATION. AK. WHERE FIRE ALARM ANNUNCIATORS SIZES VARIES FROM EXISTING

AL. FIELD VERIFY AND DOCUMENT EXISTING FIBER BACKBONE FOR EXISTING FIRE ALARM SYSTEM FOR AS BUILT INFORMATION. DEVELOP AN INSTALLATION SCHEDULE OF THE FIRE ALARM SYSTEMS IN EACH OF THE BUILDINGS. GET SCHEDULE APPROVAL BEFORE BEGINNING

AM. FIRE ALARM SYSTEM SHALL HAVE TWO (2) ZONES. ZONE 1 FOR DESIGNATED LANDING AND SECOND FOR ALL OTHER DETECTORS. IN ADDITION, ZONE 2 THE SMOKE DETECTORS IN THE ELEVATOR LOBBIE AND MACHINE ROOM CANNOT BE TIED INTO SMOKE DETECTORS FOR THE REST OF THE BUILDING. THE ELEVATOR LOBBIES AND MACHINE ROOM MUST BE A SEPARATE ZONE FROM THE REST OF THE BUILDING. THE INTENT IS TO SEGREGATE THE ELEVATOR ASSOCIATED DEVICES FROM THE OTHER BUILDING DEVICES. WIRING FROM FIRE ALARM PANEL MUST BE RUN IN CONDUIT TO ELEVATOR CONTROLLE THE SMOKE DETECTORS HAVE TO BE MANUALLY RESET AFTER BEING ACTIVATED. THE SIGNAL FROM THE FIRE ALARM PANEL MUST BE NORMALLY CLOSED CONTACT WITHOUT ANY INPUT VOLTAGE. THIS IS NOT REQUIRED FOR BOTH ZONES.

ADVANCED

ENGINEERING SYSTEMS 4630 ANTELOPE CREEK RD

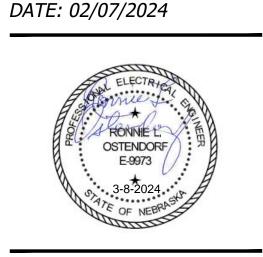
> LINCOLN, NE 68506 P: (402) 488-0075 F: (402) 488-0272 www.a-e-sys.com

SUITE 200

(C) ADVANCED ENGINEERING SYSTEMS CERTIFICATE OF AUTHORIZATION #:CA-1800 PROJECT #: 23-100

~ ~

Issued For



ELECTRICAL SYMBOLS AND GENERAL NOTES

EXISTING PIV. FIELD VERIFY EXACT LOCATION ON SITE. 2. EXISTING 1 - 3" PVC, 1 - 3" PVC WITH INNERDUCT. 3. EXISTING 1 - 3" PVC.



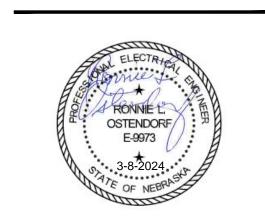
4630 ANTELOPE CREEK RD SUITE 200 LINCOLN, NE 68506 P: (402) 488-0075 F: (402) 488-0272 www.a-e-sys.com

© ADVANCED ENGINEERING SYSTEMS

CERTIFICATE OF AUTHORIZATION #:CA-1800 PROJECT #: 23-100

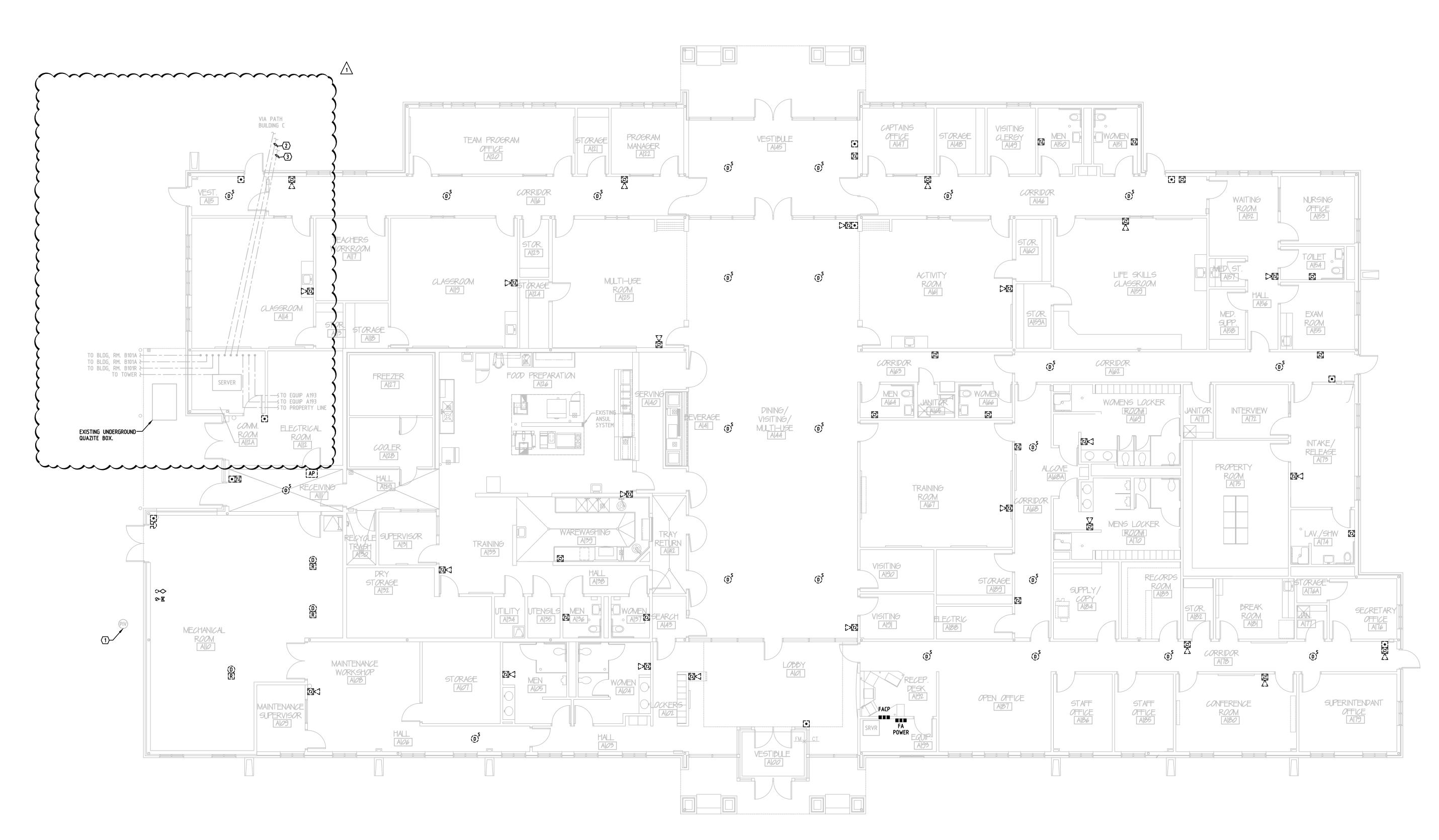
Issued For

DATE: 02/07/2024



BUILDING A DEMOLITION FLOOR PLAN - FIRE ALARM

KEYPLAN
SCALE: NOT TO SCALE



BUILDING A DEMOLITION FLOOR PLAN - FIRE ALARM

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

BUILDING B DEMOLITION FLOOR PLAN - FIRE ALARM

SCALE: 1/4" = 1'-0"

KEY NOTES SYMBOL = X . EXISTING 2 - 3" CONDUIT



ADVANCED ENGINEERING SYSTEMS

4630 ANTELOPE CREEK RD SUITE 200 LINCOLN, NE 68506 P: (402) 488-0075 F: (402) 488-0272 www.a-e-sys.com

 ADVANCED ENGINEERING SYSTEMS CERTIFICATE OF AUTHORIZATION #:CA-1800

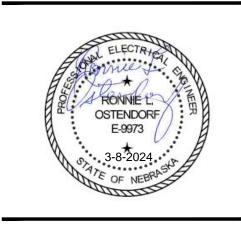
PROJECT #: 23-100

CORREC RE ALARM

DATE: 02/07/2024

KEYPLAN

SCALE: NOT TO SCALE

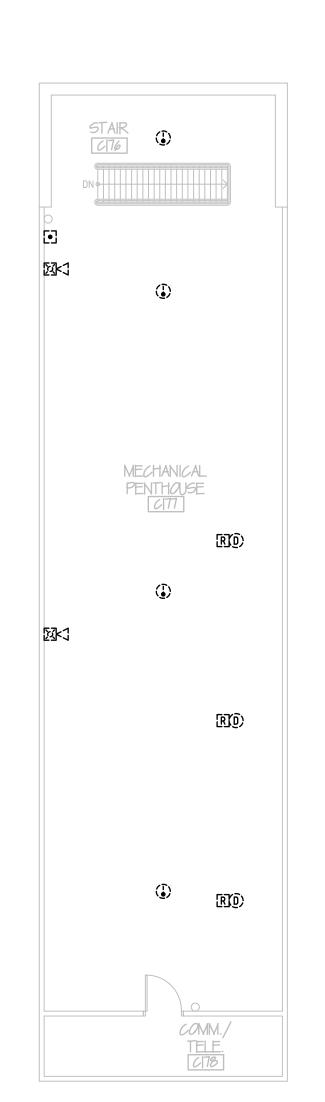


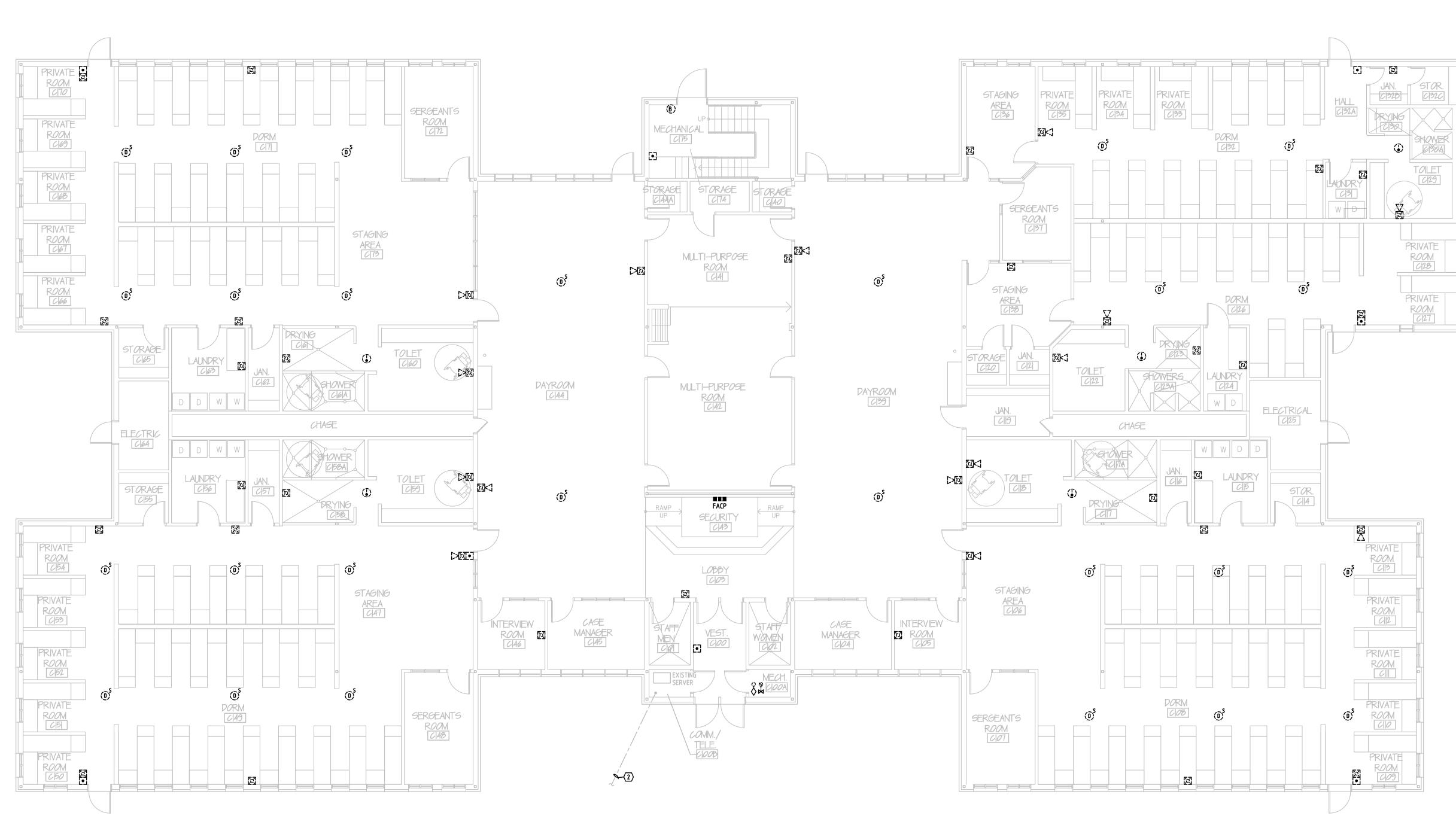
BUILDING B DEMOLITION FLOOR PLAN - FIRE ALARM

SYSTEMS 4630 ANTELOPE CREEK RD SUITE 200 LINCOLN, NE 68506 P: (402) 488-0075 F: (402) 488-0272

www.a-e-sys.com © ADVANCED ENGINEERING SYSTEMS CERTIFICATE OF AUTHORIZATION #:CA-1800

PROJECT #: 23-100



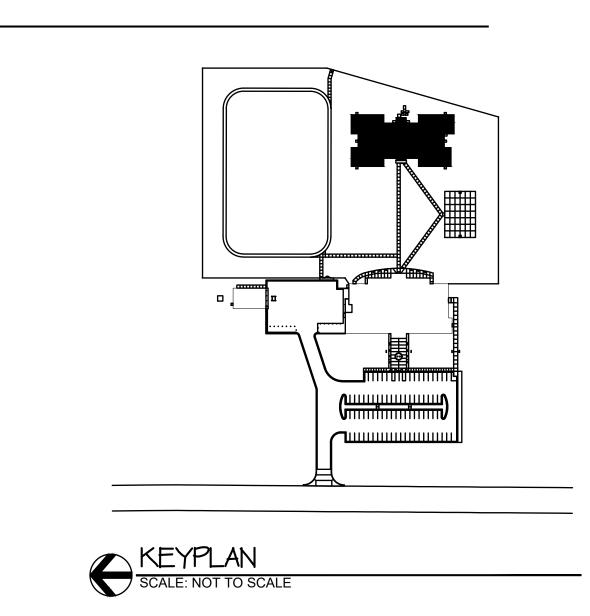


BUILDING C PENTHOUSE DEMOLITION FLOOR PLAN - FIRE ALARM

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

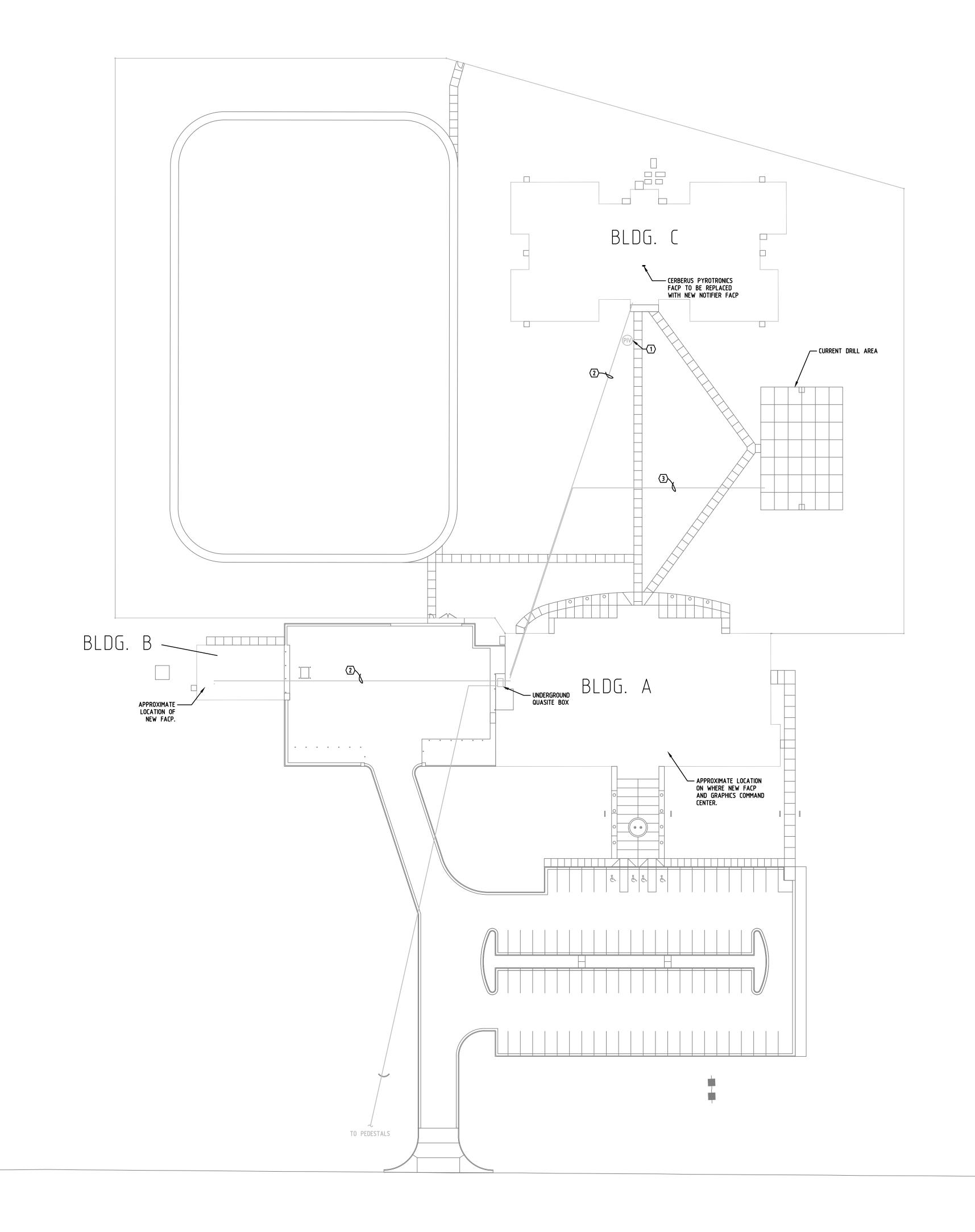
BUILDING C DEMOLITION FLOOR PLAN - FIRE ALARM

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



DATE: 02/07/2024 RONNIE L OSTENDORF E-9973

BUILDING C DEMOLITION PLAN







SHEET NOTES $SYMBOL = \langle X \rangle$ KEY NOTES EXISTING POST INDICATOR VALVE. EXISITING 1 – 3" PVC, 1–3" PVC WITH INNERDUCT FOR TELECOMMUNICATIONS CABLES. EXISITING 1 - 3" PVC, FOR TELECOMMUNICATIONS CABLES.

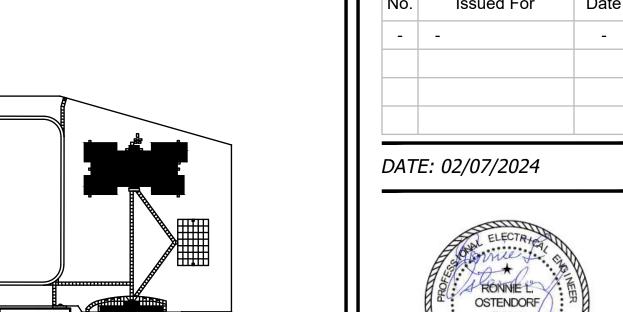


ADVANCED ENGINEERING SYSTEMS

4630 ANTELOPE CREEK RD SUITE 200 LINCOLN, NE 68506 P: (402) 488-0075 F: (402) 488-0272 www.a-e-sys.com

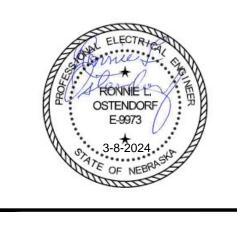
© ADVANCED ENGINEERING SYSTEMS CERTIFICATE OF AUTHORIZATION #:CA-1800

PROJECT #: 23-100



KEYPLAN

SCALE: NOT TO SCALE



SITE PLAN - FIRE ALARM

4630 ANTELOPE CREEK RD SUITE 200 LINCOLN, NE 68506 P: (402) 488-0075 F: (402) 488-0272 www.a-e-sys.com

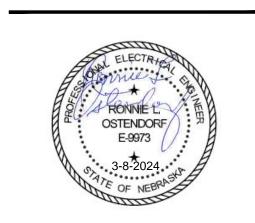
SYSTEMS

© ADVANCED ENGINEERING SYSTEMS CERTIFICATE OF

AUTHORIZATION #:CA-1800 PROJECT #: 23-100

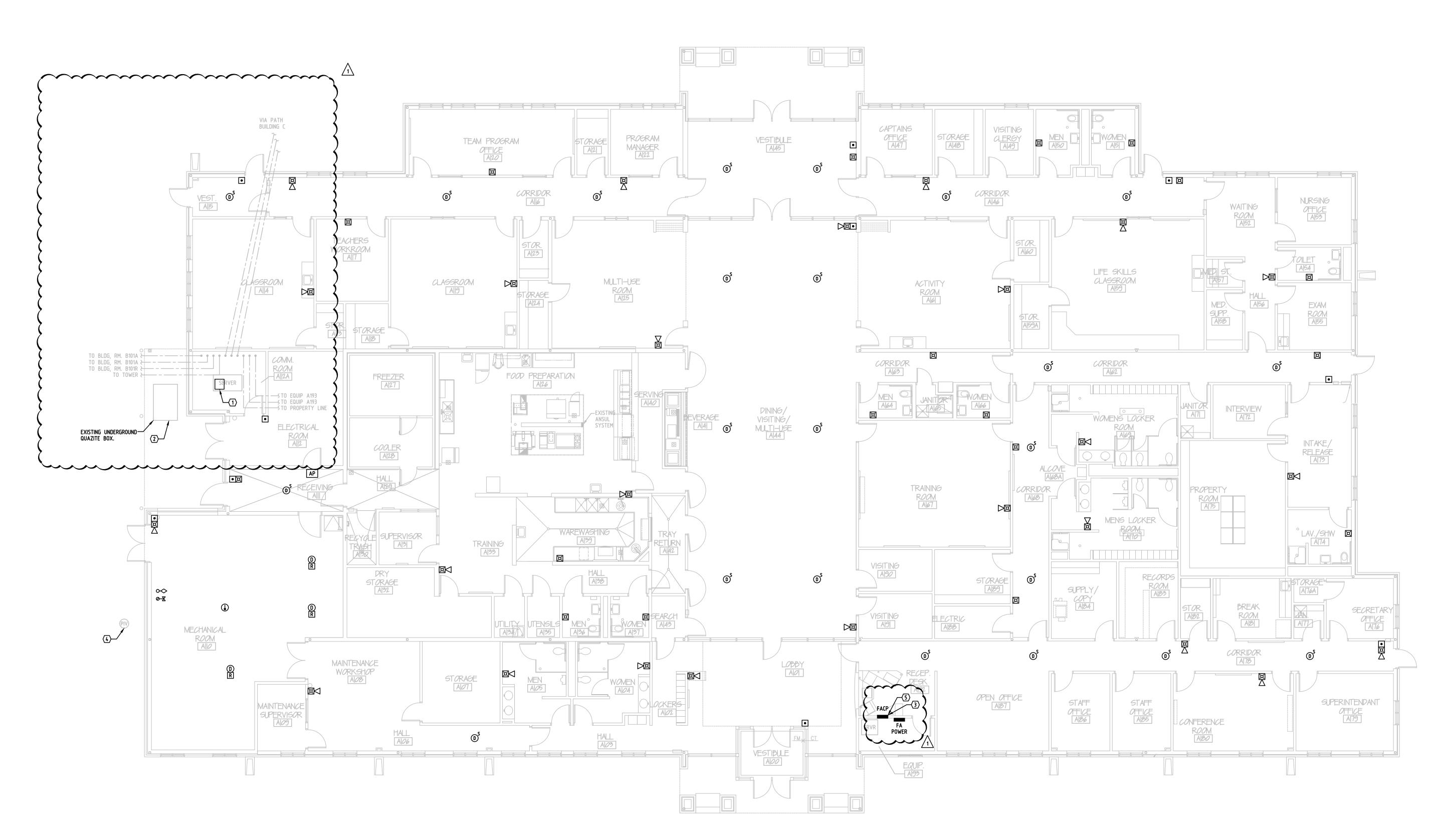
Issued For

DATE: 02/07/2024



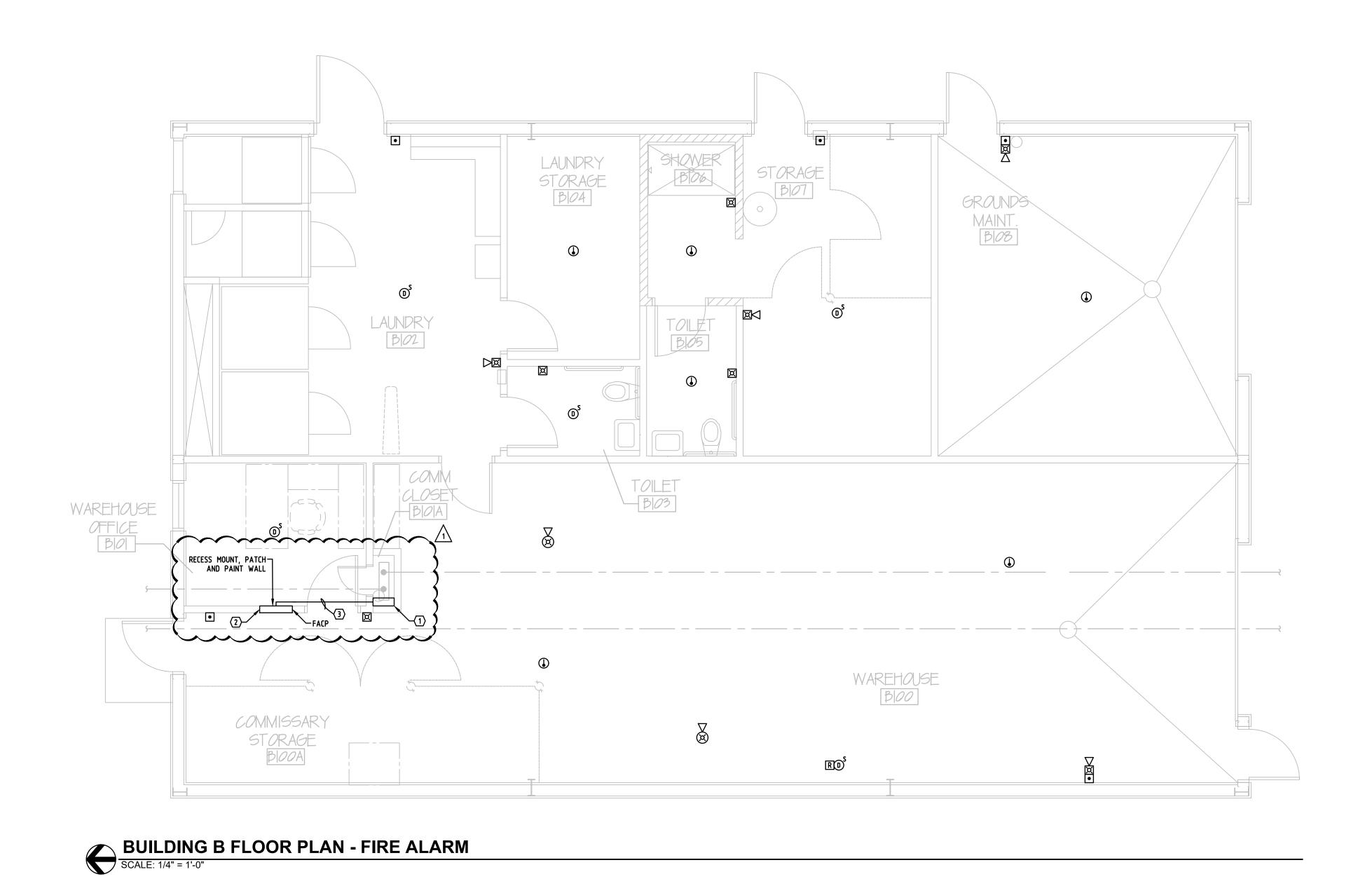
BUILDING A FLOOR PLAN - FIRE ALARM

KEYPLAN
SCALE: NOT TO SCALE



BUILDING A FLOOR PLAN - FIRE ALARM

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



1. FIBER BREAKOUT SPLICE BOXES MATCHING EXISTING. TERMINATE 48
STRANDS OS2 CABLES FROM BOTH BUILDINGS. VERIFY WITH OWNER'S
I.T. GROUP EXACT LOCATION OF SPLICE BOX.

2. PROVIDE POWER CIRCUIT TO NEW LOCATION, 3-#12, 3/4"C., 20 AMP
CIRCUIT BREAKER WITH HANDLE LOCK PROVISION TO NEAREST
SUITABLE PANEL. PROVIDE 1"C. PATHWAY AND TWO STRANDS OF SINGLE MODE FIBER FOR FACP NETWORK LOOP.



ADVANCED ENGINEERING SYSTEMS

4630 ANTELOPE CREEK RD SUITE 200 LINCOLN, NE 68506 P: (402) 488-0075 F: (402) 488-0272 www.a-e-sys.com

© ADVANCED ENGINEERING SYSTEMS CERTIFICATE OF AUTHORIZATION #:CA-1800 PROJECT #: 23-100

CORREC

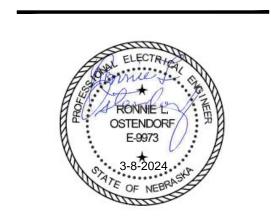
DATE: 02/07/2024 RONNIE L'OSTENDORF E-9973 BUILDING B FLOOR PLAN - FIRE ALARM

KEYPLAN

SCALE: NOT TO SCALE

PROJECT #: 23-100

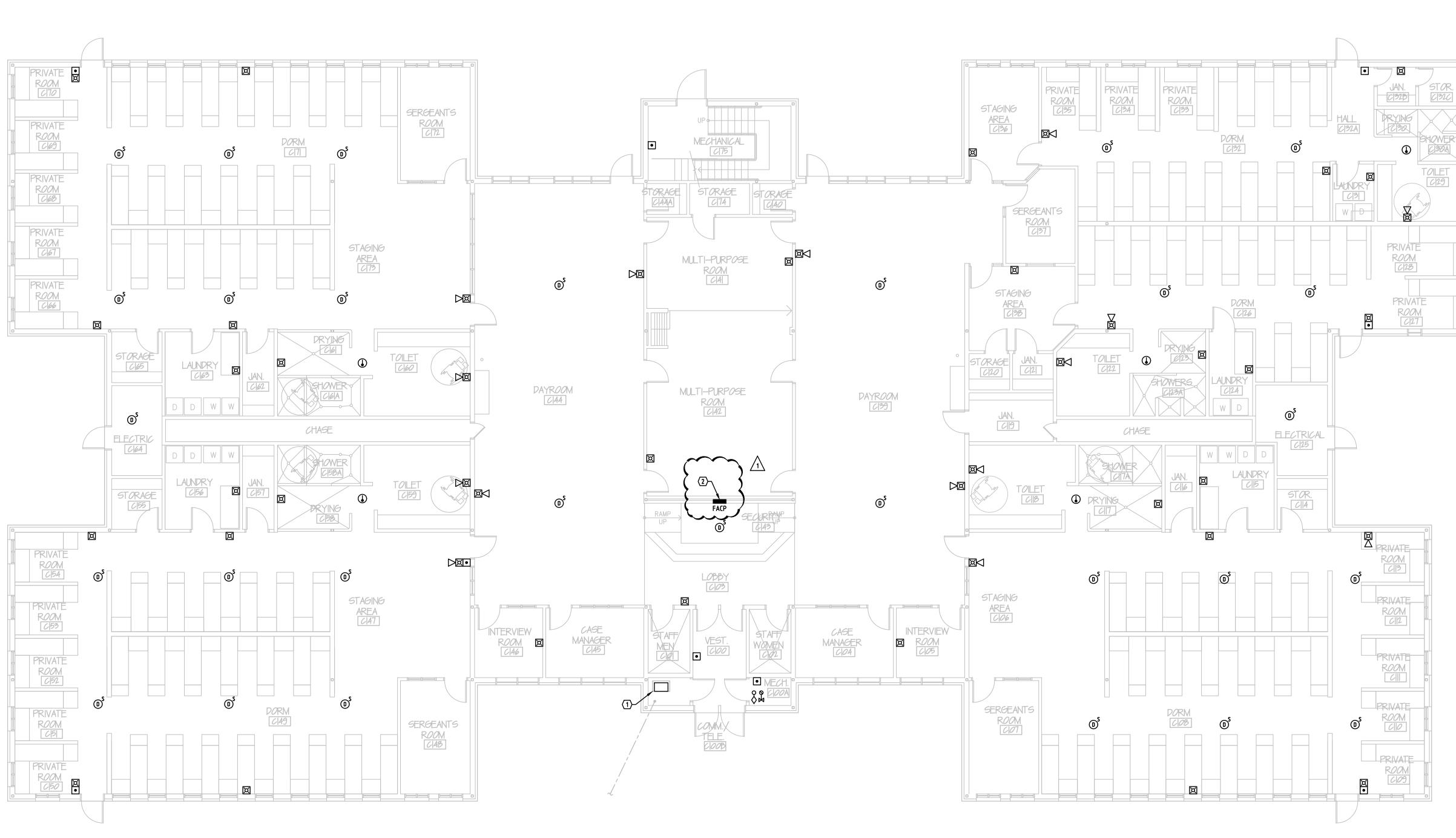
DATE: 02/07/2024

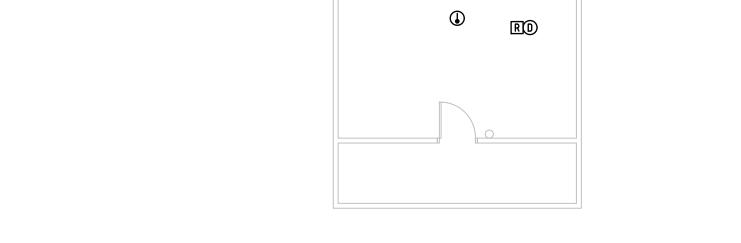


BUILDING C FLOOR PLAN - FIRE ALARM

KEYPLAN

SCALE: NOT TO SCALE





BUILDING C PENTHOUSE FLOOR PLAN - FIRE ALARM

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

RO

RO

(

BUILDING C FLOOR PLAN - FIRE ALARM

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

manne an antime and a survey as

KEY NOTES

 $SYMBOL = \langle X \rangle$

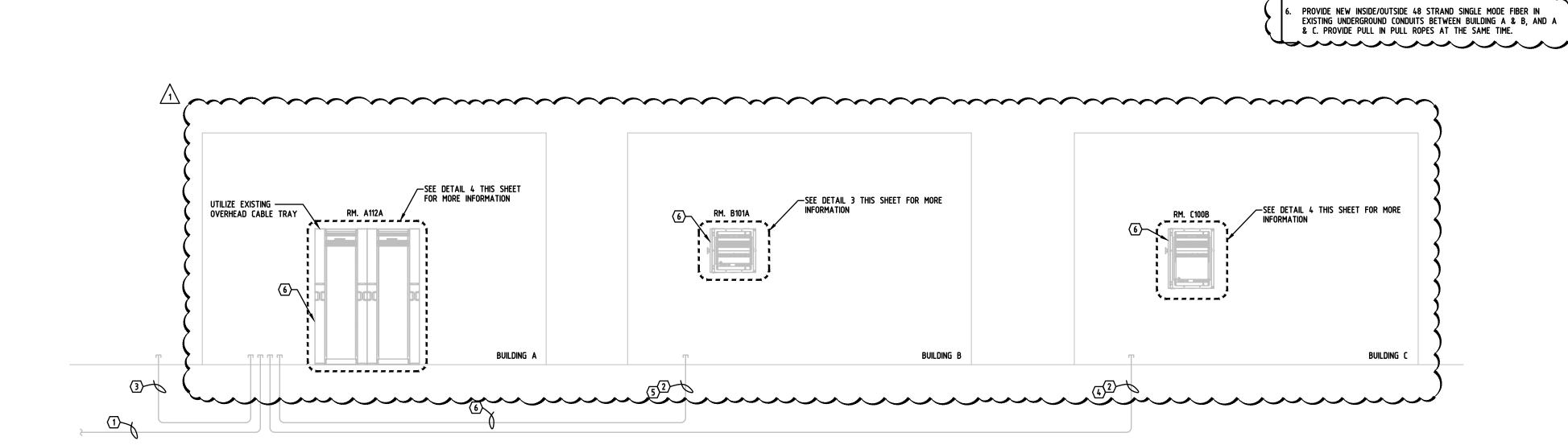
EXISTING 2 - 4" PVC WITH INCOMING TELEPHONE CABLES TO RM. 112A.

EXISTING 100 PAIR UNDERGROUND COPPER CABLE AND FIBER OPTIC CABLE BETWEEN BUILDING A AND BUILDING C.

EXISTING 8 EACH, CATEGORY 5 UNDERGROUND RATED CABLES FOR RUILDING B SERVICES

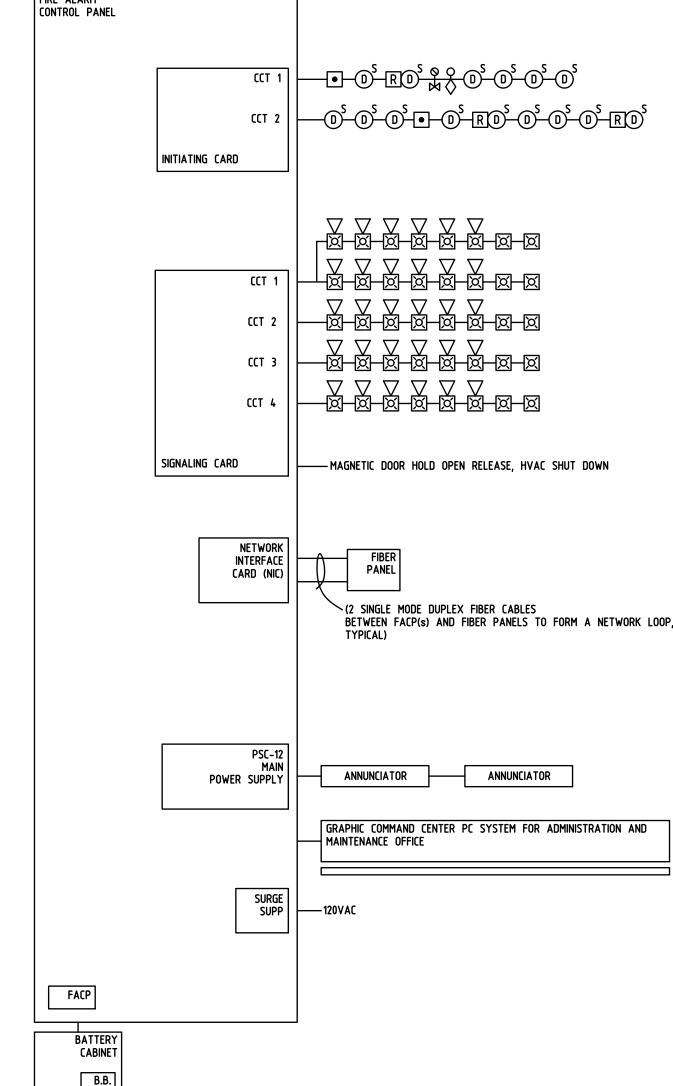
EXISITING 1 - 3" PVC, 1-3" PVC WITH INNERDUCT FOR TELECOMMUNICATIONS CABLES.

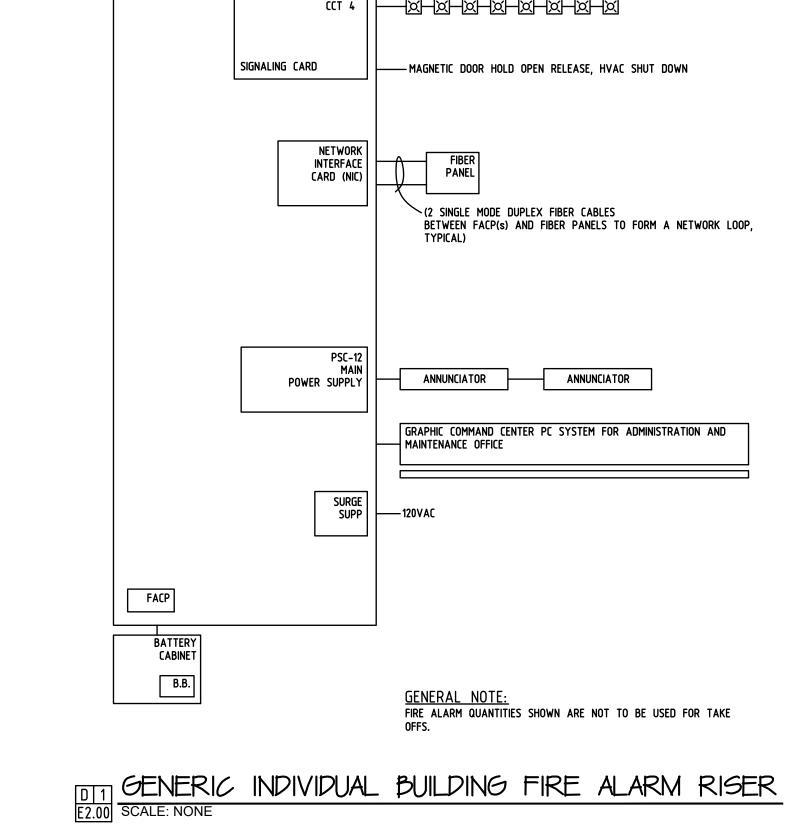
EXISITING 1 - 3" PVC, FOR TELECOMMUNICATIONS CABLES.



EXISTING TELECOMMUNICATIONS PATHWAYS DIAGRAM

SCALE: NONE





ADVANCED ENGINEERING SYSTEMS

4630 ANTELOPE CREEK RD SUITE 200 LINCOLN, NE 68506

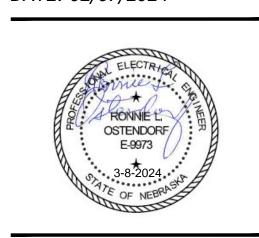
P: (402) 488-0075 F: (402) 488-0272 www.a-e-sys.com (C) ADVANCED ENGINEERING SYSTEMS

CERTIFICATE OF AUTHORIZATION #:CA-1800

PROJECT #: 23-100

SKA BRA

Issued For DATE: 02/07/2024



FIRE ALARM RISER DIAGRAM & DETAILS