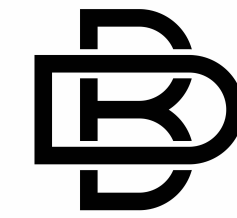


Replace Fire Alarm Systems, Core Building & Housing Units

for:

Mt Vernon Treatment Center

Mt. Vernon, Missouri



BUXTON KUBIK DODD
DESIGN COLLECTIVE
3100 S. NATIONAL AVE, STE 300, SPRINGFIELD,
MISSOURI
65807
417.890.5543 P 417.890.5583 F
MISSOURI STATE CERTIFICATE OF AUTHORITY
#A-200607284

OWNER: STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR

STATE OF MISSOURI
MISSOURI VETERANS COMMISSION

PROJECT
MANAGEMENT: OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

DESIGNER: BUXTON-KUBIK-DODD, INC.

PROJECT NUMBER: H2312-01

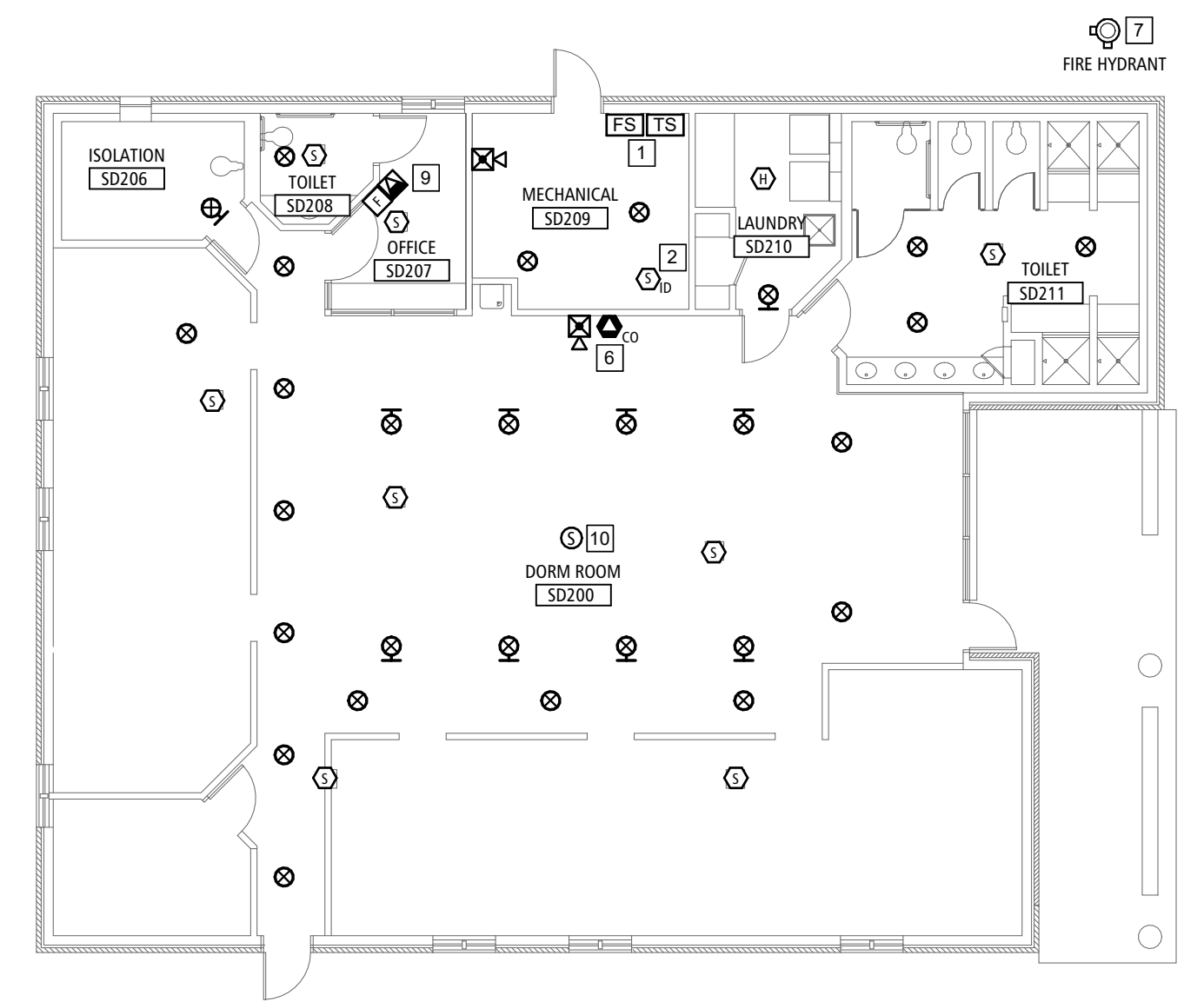
SITE NUMBER: 7714
FACILITY NUMBER: 8877714003, 8877714004
8877714005, 8877714006

SHEET NUMBER:

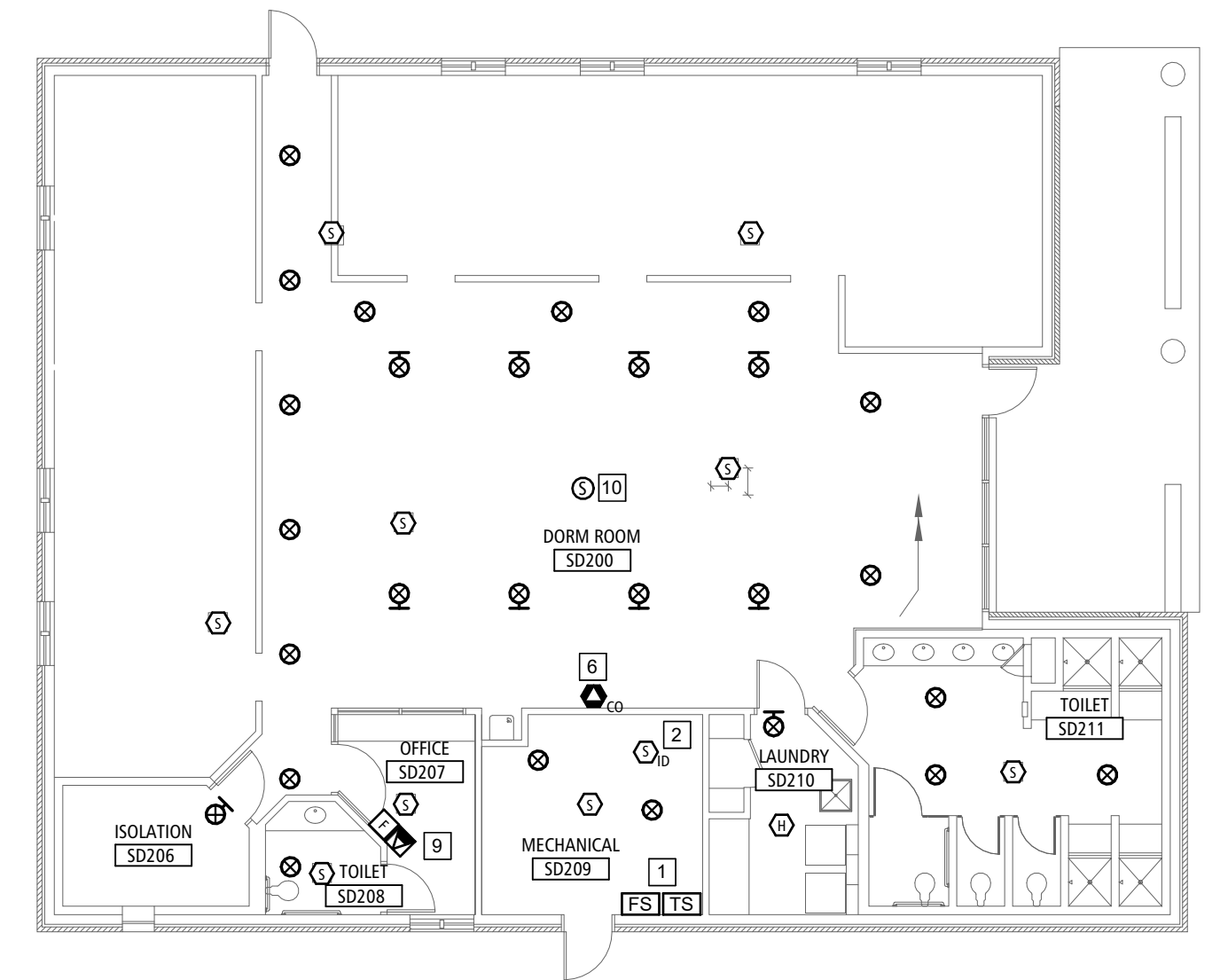
FP-0

1 OF 4 SHEETS
NOVEMBER 17, 2023

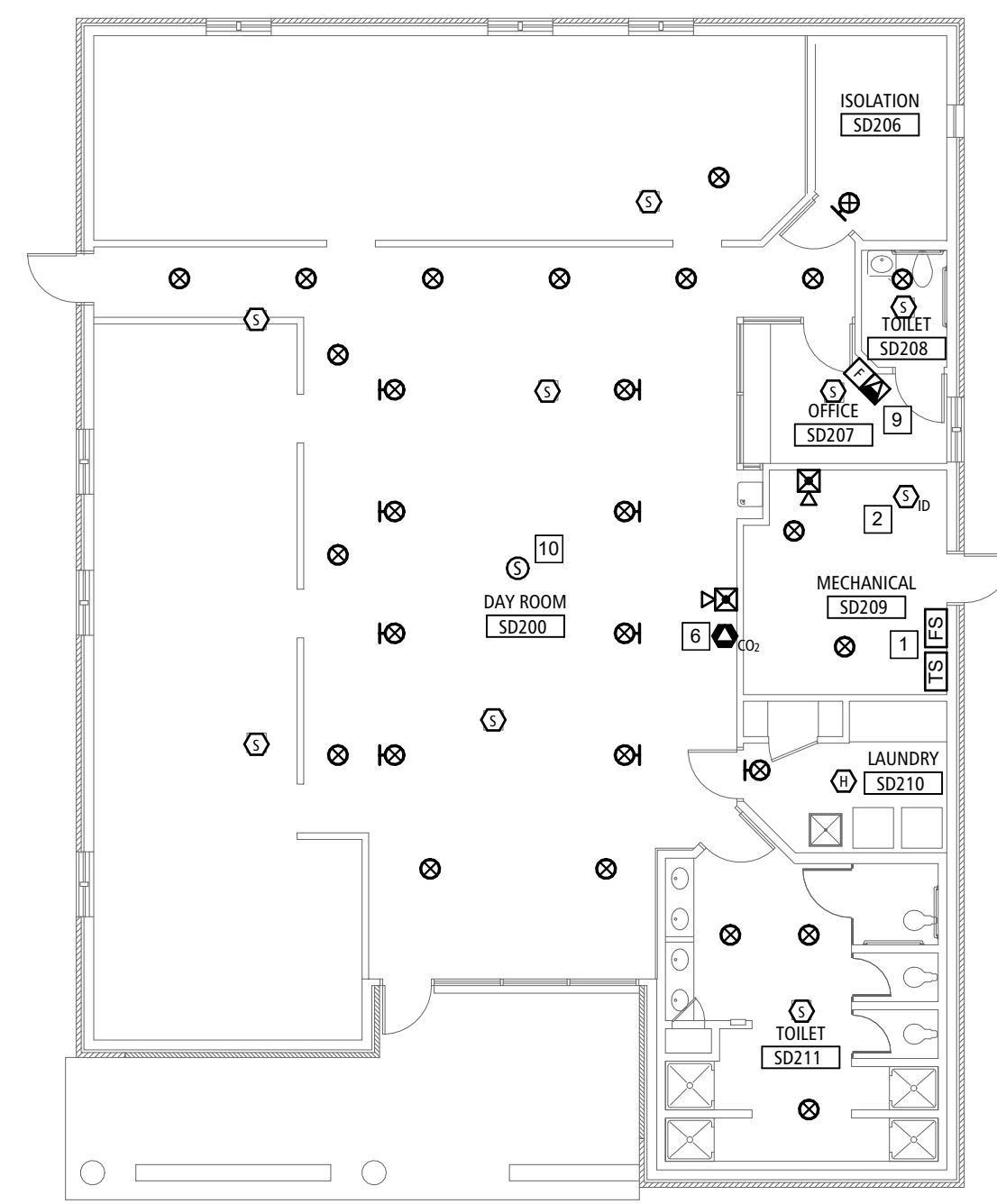
FIRE ALARM SYSTEM		FIRE SPRINKLER SYSTEM	
[FACP]	CONTROL PANEL	[WF]	WATER FLOW SWITCH
[FAA]	ANNUNCIATOR PANEL	[TS]	VALVE TAMPER SWITCH
[ARCM]	AREA OF REFUGE COMMUNICATION MASTER	[PA]	PANIC ALARM BUTTON
[ARCR]	AREA OF REFUGE COMMUNICATION REMOTE	[F]	MANUAL PULL STATION
[ECM]	EMERGENCY COMMUNICATION MASTER	[CO]	CARBON MONOXIDE SENSOR
[ECR]	EMERGENCY COMMUNICATION REMOTE	[H]	HEAT DETECTOR
[BATT]	BATTERY CABINET	[S]	SMOKE DETECTOR - WALL
[FAC]	CABINET	[S]	SMOKE DETECTOR - CEILING
[EVAC]	VOICE EVACUATION	[S ₃]	SMOKE DETECTOR - SIGNAL STATION
[S]	STROBE - WALL	[S _{3B}]	SMOKE DETECTOR - SOUNDER BASE
[S]	STROBE - CEILING	[S _{3D}]	SMOKE DETECTOR - IN DUCT
[S+S]	STROBE & SPEAKER - WALL	[MIC]	REMOTE EVACUATION MICROPHONE
[S+S]	STROBE & SPEAKER - CEILING	[FR]	FAN SHUTDOWN RELAY
[S]	SPEAKER - WALL	[R]	RELAY
[S]	SPEAKER - CEILING	[F]	FIREMANS PHONE OUTLET
[S+H]	STROBE & HORN - WALL	[MIC]	EVACUATION MICROPHONE
[S+H]	STROBE & HORN - CEILING	[DH]	DOOR HOLDER
[H]	HORN - WALL		
[H]	HORN - CEILING		
[B]	BELL - WALL		



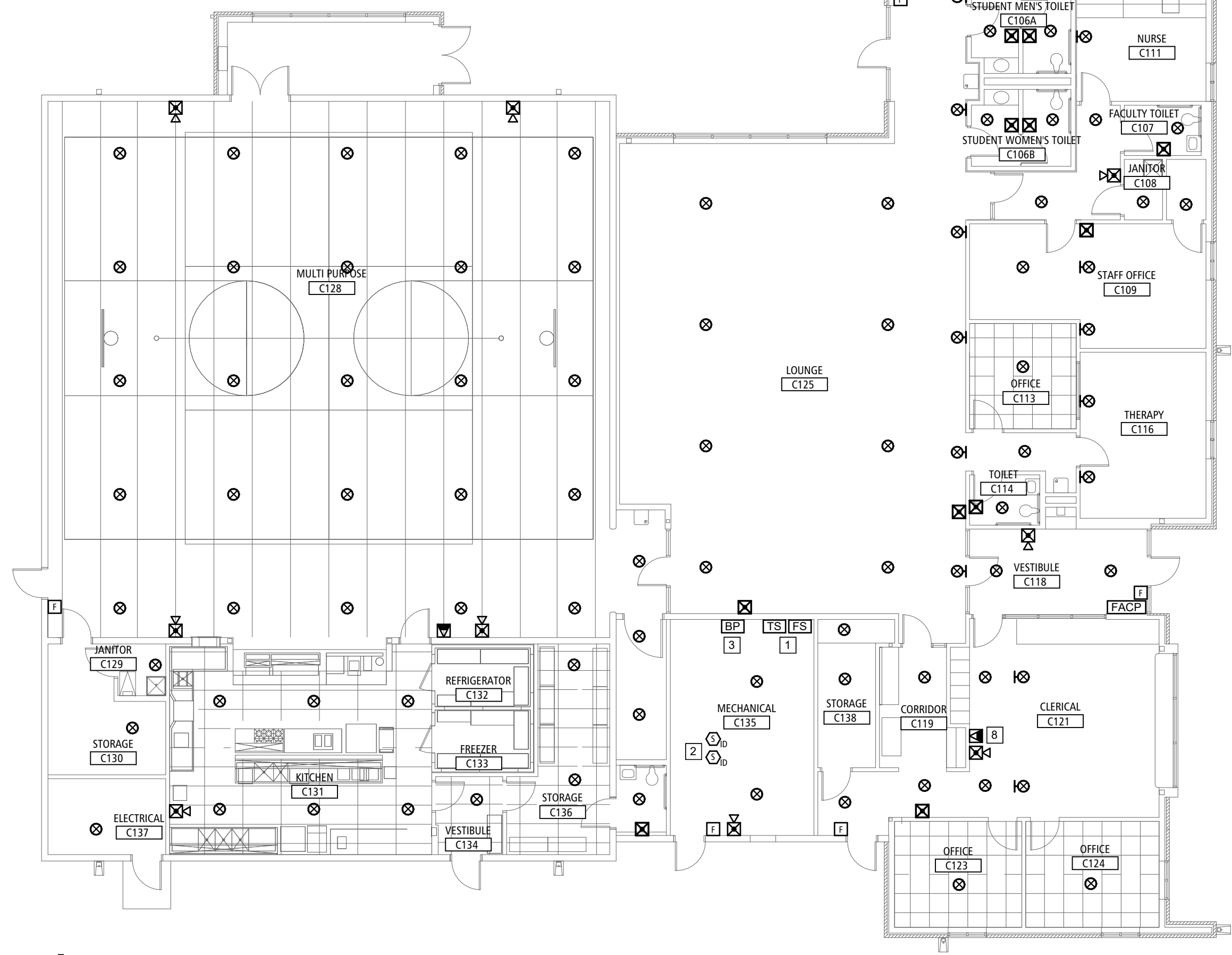
HOUSING UNIT B 4
SCALE: 3/32" = 1'-0"
FP-1



HOUSING UNIT A 5
SCALE: 3/32" = 1'-0"
FP-1



HOUSING UNIT C 1
SCALE: 3/32" = 1'-0"
FP-1



CORE BUILDING 3
SCALE: 3/32" = 1'-0"
FP-1

FIRE PROTECTION GENERAL NOTES:

- THE GENERAL NOTES ON THIS SHEET SPACE SHALL APPLY TO ALL OTHER SHEET SPACES.
- ALL INSTALLATIONS SHALL CONFORM TO THE 2017 NFPA CODE AND THE CURRENT ADOPTIVE ORDINANCES IN EFFECT FOR MT. VERNON, MISSOURI.
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- ANY ADDITIONAL IMPACT COST, DESIGN MODIFICATIONS, ADDITIONAL ARCHITECTURAL AND/OR ENGINEERING SERVICES, MATERIALS, LABOR CHANGES, SCHEDULE CHANGES AND/OR OTHER UNANTICIPATED CONSEQUENCES RESULTING FROM SUBSTITUTIONS IN LIEU OF THE SPECIFIED ITEMS ON THE PLANS AND SPECIFICATIONS SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR, SUBCONTRACTOR, AND/OR SUPPLIER. NO ADDITIONAL COST SHALL BE INCURRED TO THE ARCHITECT, ENGINEER OR OWNER FOR THESE CHANGES.
- CLOSELY COORDINATE ALL WORK WITH ALL OTHER TRADES.
- OWNER TO HAVE FIRST RIGHT OF REFUSAL FOR ANY EQUIPMENT THAT IS TO BE DEMOLISHED
- SEAL ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES AS NECESSARY TO RESTORE FIRE-RESISTANCE RATING OF ASSEMBLY. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR RATED ASSEMBLIES, FIRE STOPPING MATERIALS, AND REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE ALL REQUIRED FLOOR, WALL AND/OR CEILING PATCHING TO MATCH ADJACENT SURFACES/FINISHES WHERE NEW FIRE SPRINKLER SYSTEM EQUIPMENT, FIRE ALARM EQUIPMENT AND DEVICES ARE INSTALLED, REMOVED OR RELOCATED. THIS WORK MAY INVOLVE, BUT IS NOT LIMITED TO, DRYWALL REPAIR, PAINTING, SUSPENDED OR OTHER CEILING REPAIRS. REFER TO SPECIFICATIONS FOR MORE INFORMATION.

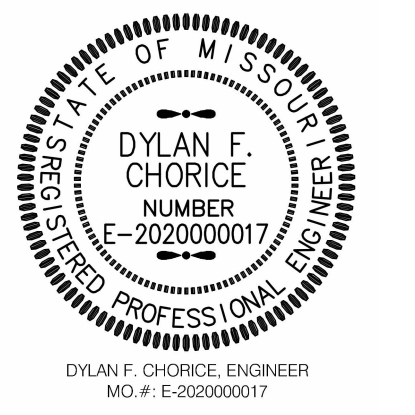
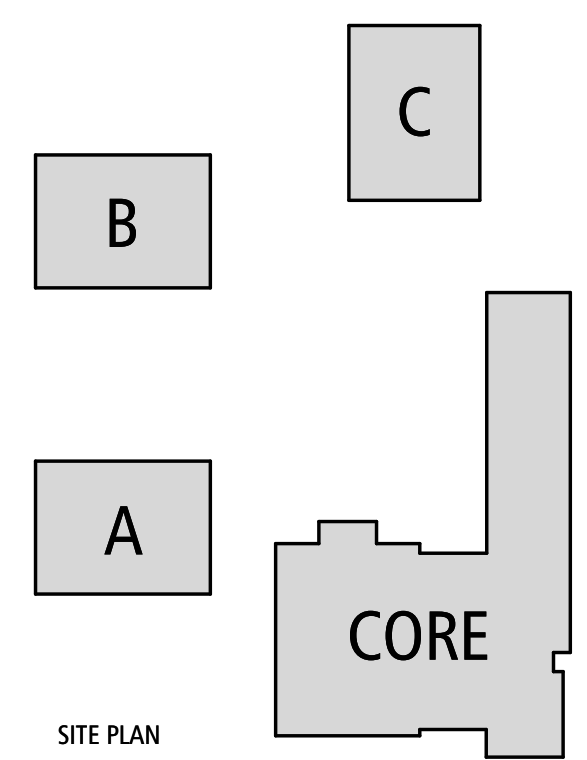
FIRE PROTECTION DESIGN NOTES:

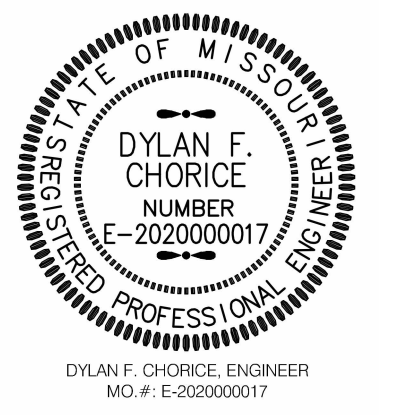
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FIRE SPRINKLER DRAWINGS ARE INTENDED TO PROVIDE BASIC GUIDELINES AS WELL AND ONLY SERVE TO SHOW LOCATIONS OF EXISTING FIRE SPRINKLER HEADS TO BE REPLACED. DESIGN INTENT IS TO KEEP EXISTING FIRE SPRINKLER PIPING IN PLACE. SEE KEYNOTE 3 FOR DETAILS ON BACKFLOW AND COMPRESSOR REPLACEMENT. CONTRACTOR RESPONSIBLE FOR PROVIDING A COMPLETE FIRE ALARM SYSTEM PURSUANT TO 2017 NFPA 13, AND ALL LOCAL CODES AND JURISDICTIONS.

FIRE PROTECTION KEYNOTES

- TAMPER SWITCH AND FLOW SWITCHES.
- RETURN AIR DUCT DETECTORS.
- FIRE SPRINKLER SERVICE ENTRANCE VIA 6" ZURN/WILKINS HORIZONTAL DOUBLE CHECK BACKFLOW PREVENTOR. CONTRACTOR TO REPLACE BACKFLOW PREVENTOR WITH EQUAL. CONTRACTOR TO REPLACE DRY PIPE VALVE AND COMPRESSOR FOR DRY SYSTEM. CONTRACTOR TO REPLACE INTERNALS AND GAUGE FOR DRY SYSTEM.
- PROVIDE SIGNAGE INDICATING THAT HOUSING UNITS ARE FED FROM SINGLE BACKFLOW PREVENTOR IN CORE BUILDING, AND DEACTIVATION OF CORE BUILDING WILL ALSO BRING HOUSING UNITS OFFLINE.
- CONTRACTOR TO REPLACE INTERNALS AND GAUGE ON DRY PIPE SYSTEM, FOLLOWING 5 YEAR INSPECTION SCHEDULE.
- PROVIDE INTEGRATED WALL MOUNT CARBON MONOXIDE DETECTOR WITH FULL NOTIFICATION ABILITY.
- REPLACE FIRE HYDRANT. FIELD VERIFY CONNECTION TYPE AND SIZING.
- INTERCOM MASTER STATION, EQUAL TO AIPHONE LEF-10C.
- INTERCOM SUB STATION, VANDAL RESISTANT. EQUAL TO AIPHONE LS-NVP/C
- INTERCOM CEILING SPEAKER.





REPLACE FIRE ALARM
PANELS & COMPONENTS

MOUNT VERNON
TREATMENT CENTER
500 STATE DRIVE
MOUNT VERNON, MO 65712

PROJECT # H2312-01
SITE # 7714
FACILITY # 8877714003
8877714004
8877714005
8877714006

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 11/17/2023

CAD DWG FILE: _____
DRAWN BY: DFC
CHECKED BY: JD
DESIGNED BY: DFC

SHEET TITLE:
**FIRE PROTECTION
RISER**

SHEET NUMBER:
FP-2
3 OF 4 SHEETS
11/17/2023

FIRE PROTECTION GENERAL NOTES:

- A. THE GENERAL NOTES ON THIS SHEET SPACE SHALL APPLY TO ALL OTHER SHEET SPACES.
- B. ALL INSTALLATIONS SHALL CONFORM TO THE 2017 NFPA CODE AND THE CURRENT ADOPTIVE ORDINANCES IN EFFECT FOR MT. VERNON, MISSOURI.
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- E. CLOSELY COORDINATE ALL WORK WITH ALL OTHER TRADES.
- F. OWNER TO HAVE FIRST RIGHT OF REFUSAL FOR ANY EQUIPMENT THAT IS TO BE DEMOLISHED
- G. SEAL ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES AS NECESSARY TO RESTORE FIRE-RESISTANCE RATING OF ASSEMBLY. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR RATED ASSEMBLIES, FIRE STOPPING MATERIALS, AND REQUIREMENTS.
- H. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED FLOOR, WALL AND/OR CEILING PATCHING TO MATCH ADJACENT SURFACES/FINISHES WHERE NEW FIRE SPRINKLER SYSTEM EQUIPMENT, FIRE ALARM EQUIPMENT AND DEVICES ARE INSTALLED, REMOVED OR RELOCATED. THIS WORK MAY INVOLVE, BUT IS NOT LIMITED TO, DRYWALL REPAIR, PAINTING, SUSPENDED OR OTHER CEILING REPAIRS. REFER TO SPECIFICATIONS FOR MORE INFORMATION.

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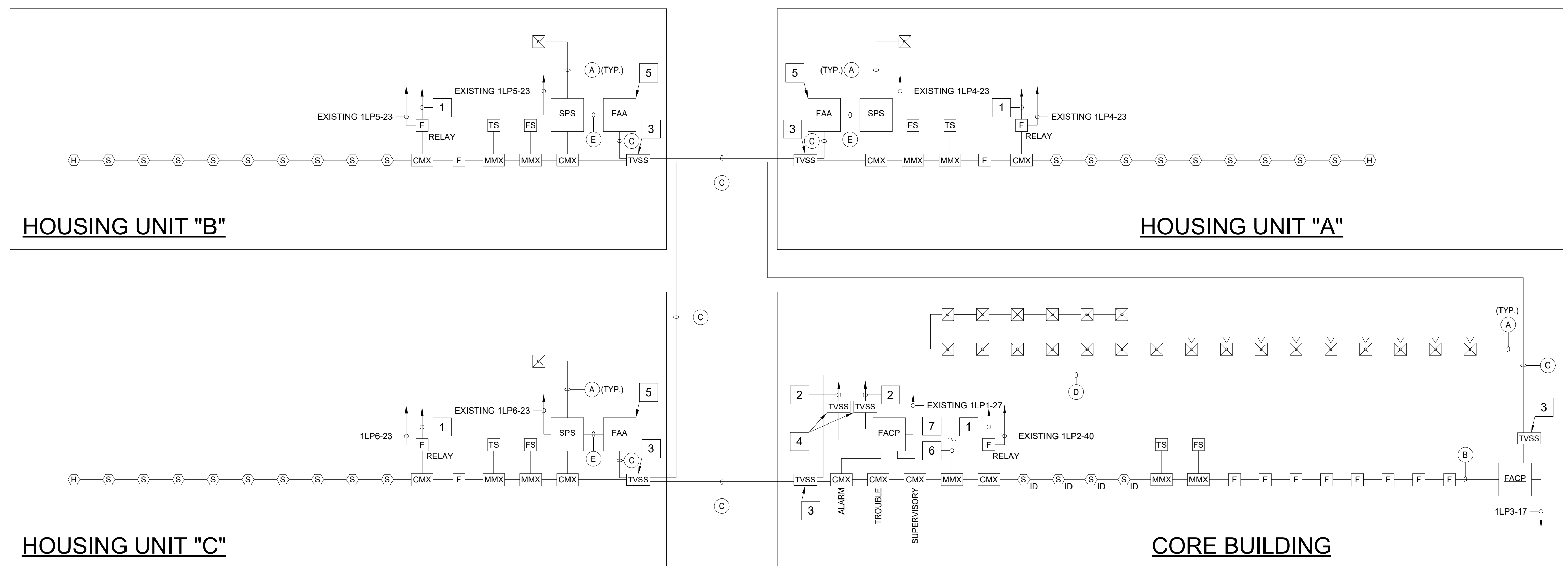
FIRE SPRINKLER DRAWINGS ARE INTENDED TO PROVIDE BASIC GUIDELINES AS WELL, AND ONLY SERVE TO SHOW LOCATIONS OF EXISTING FIRE SPRINKLER HEADS TO BE REPLACED. DESIGN INTENT IS TO KEEP EXISTING FIRE SPRINKLER PIPING IN PLACE. SEE KEYNOTE 3 FOR DETAILS ON BACKFLOW AND COMPRESSOR REPLACEMENT. CONTRACTOR RESPONSIBLE FOR PROVIDING A COMPLETE FIRE ALARM SYSTEM PURSUANT TO 2017 NFPA 13, AND ALL LOCAL CODES AND JURISDICTIONS.

FIRE RISER KEYNOTES

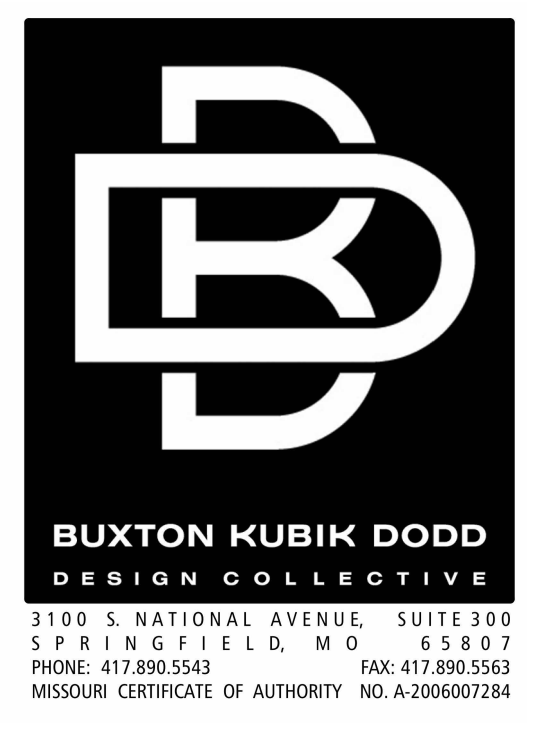
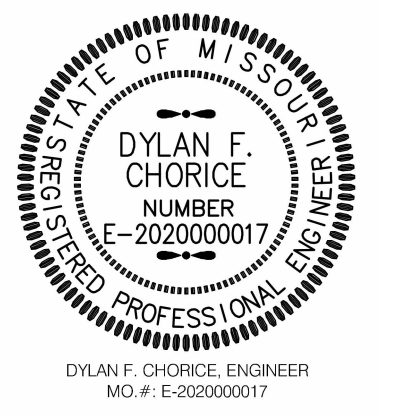
1. REPLACE RELAY FOR AHU SHUTDOWN. VERIFY CONTINUITY AND CORRECT OPERATION.
2. REPLACE TELEPHONE LINE BETWEEN DIGITAL COMMUNICATOR AND TELEPHONE BACKBOARD. CONTRACTOR TO VERIFY CONTINUITY AND ENSURE OPERATION AS DESIRED BY OWNER.
3. REPLACE TVSS FOR LIGHTNING AND TRANSIENT VOLTAGE. VERIFY OPERATION AND REPLACE IF NEEDED.
4. REPLACE TVSS FOR LIGHTNING AND TRANSIENT VOLTAGE. VERIFY OPERATION AND REPLACE IF NEEDED.
5. FIRE ALARM ANNUNCIATOR PANEL SHALL BE POWERED BY SMART POWER SUPPLY AS SHOWN.
6. EXISTING CONDUIT TO CONNECT FIRE SUPPRESSION SYSTEM TO KITCHEN HOOD SO WHEN SUPPRESSION SYSTEM IS ACTIVATED IT WILL BE ANNUNCIATED AT THE FIRE ALARM CONTROL PANEL.
7. ENSURE FACP HAS DIRECT COMMUNICATION LINE TO LOCAL FIRE DEPARTMENT FOR AUTOMATIC ALERTING.

NEW FIRE ALARM CABLE SCHEDULE

FIRE ALARM CABLE TYPE	TOTAL NO.	SIZE & DESCRIPTION
(A)	2	#14 AWG IN 3/4"C.
(B)	1	#16 AWG TWISTED SHIELDED PAIR IN 3/4"C.
(C)	2	#16 AWG TWISTED SHIELDED PAIR AND #12 AWG GROUND IN 3/4"C.
(D)	1	#16 AWG TWISTED SHIELDED PAIR AND #12 AWG GROUND IN 3/4"C.
(E)	2	#14 AWG AND #12 AWG GROUND IN 3/4"C.



NOTE:
1. ALL LOW VOLTAGE CABLE SHOWN ON FIRE ALARM RISER DIAGRAM SHALL BE TYPE (B) UNLESS NOTED OTHERWISE. CONTRACTOR TO VERIFY CONTINUITY ON ALL EXISTING CABLE AND REPLACE/REPAIR AS NEEDED.
2. ALL VISUAL FIRE ALARM DEVICES AND COMBINATION AUDIO VISUAL FIRE ALARM DEVICES SHOWN WITHOUT A CANDELA RATING SHALL BE RATED FOR 15/75 CANDELA.
3. EXISTING CONDUIT ROUTING SHOWN ON RISER DIAGRAM IS DIAGRAMMATIC AND SHALL BE FOR REFERENCE ONLY.



OFFICE OF
ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND
CONSTRUCTION

REPLACE FIRE ALARM
PANELS & COMPONENTS

MOUNT VERNON
TREATMENT CENTER
500 STATE DRIVE
MOUNT VERNON, MO 65712

PROJECT # H2312-01
SITE # 7714
FACILITY # 8877714003
8877714004
8877714005
8877714006

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 11/17/2023

CAD DWG FILE: _____
DRAWN BY: DFC
CHECKED BY: JD
DESIGNED BY: DFC

SHEET TITLE:
CEILING PAINT
PLAN

SHEET NUMBER:

FP-3
4 OF 4 SHEETS
11/17/2023

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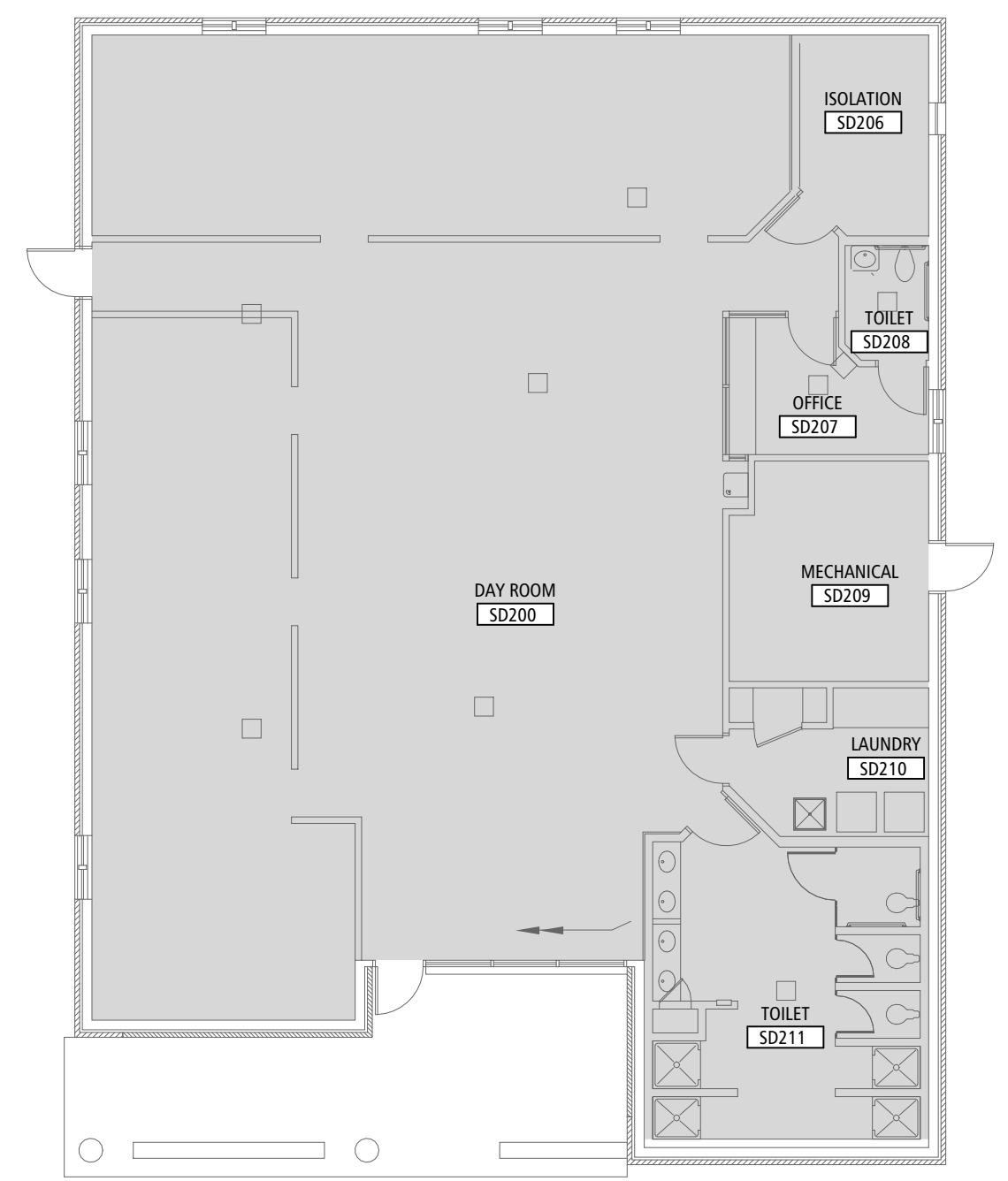
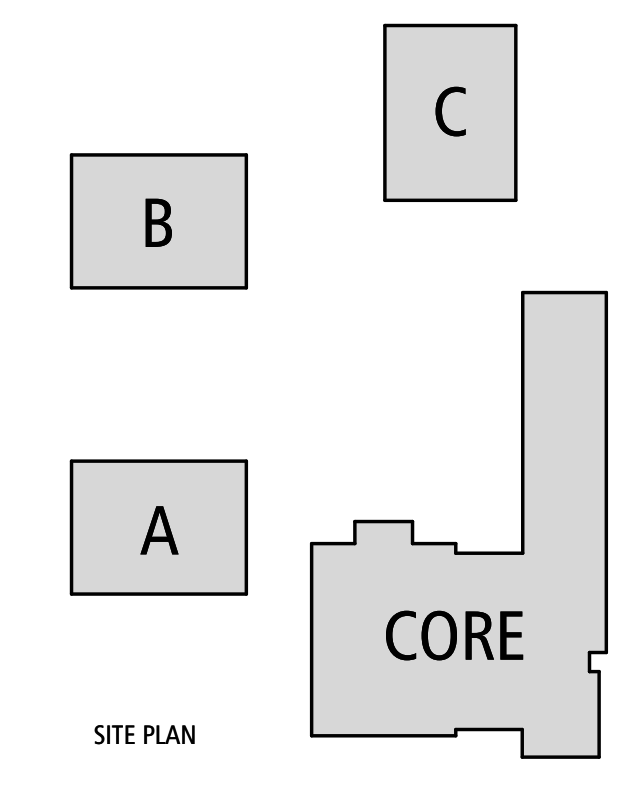
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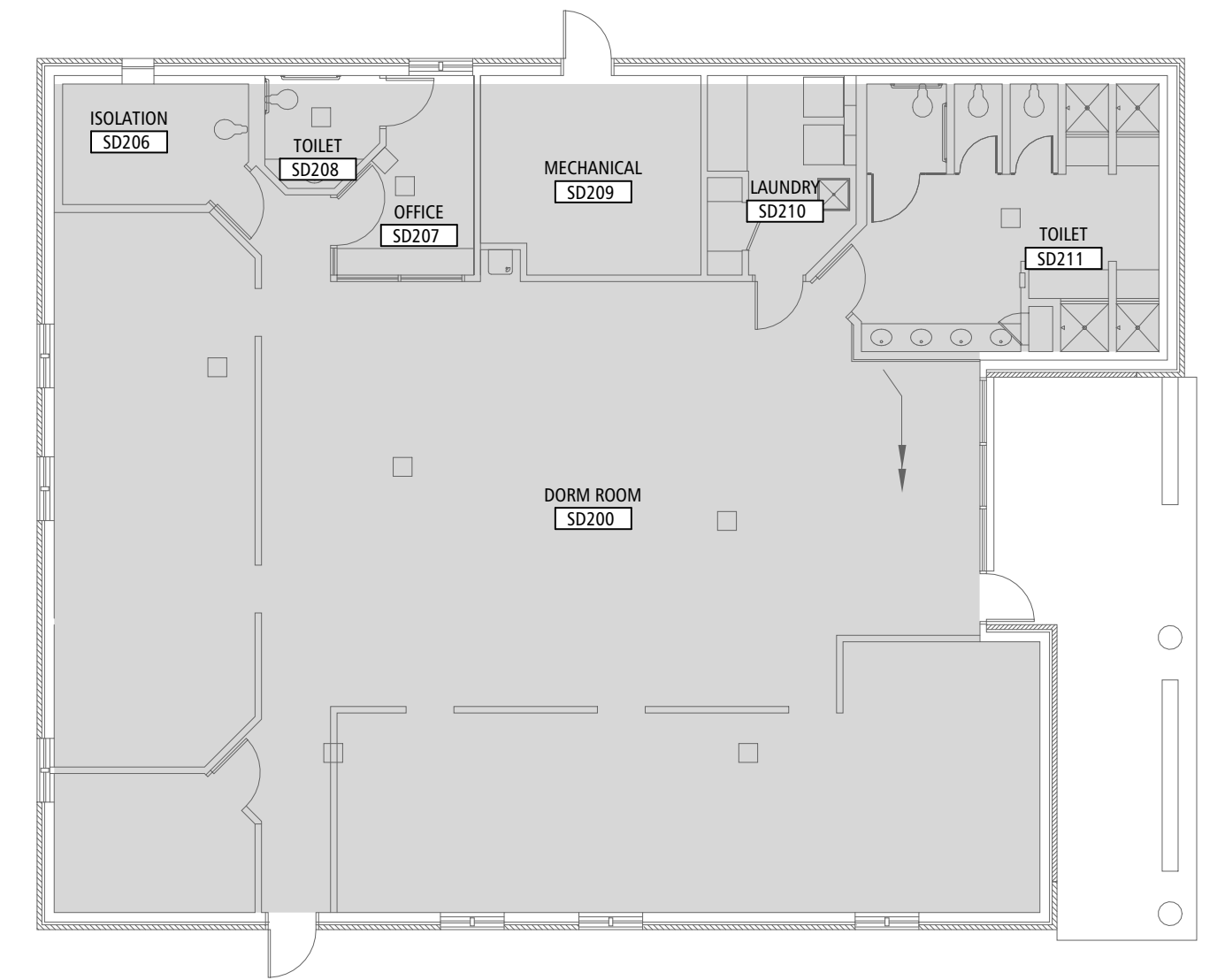
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PAINTING AND REPAIR

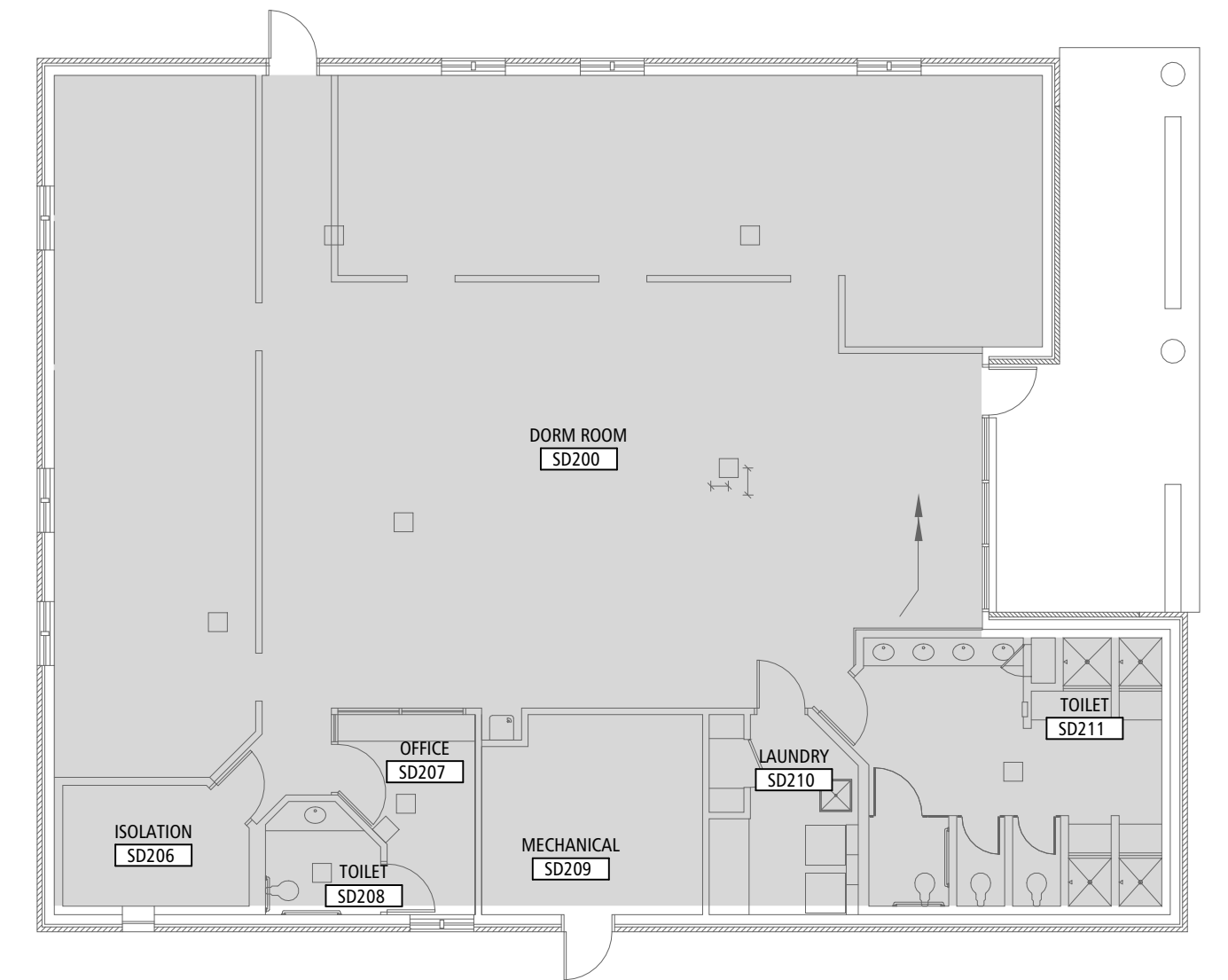
CONTRACTOR TO REPAIR AND PAINT ANY HORIZONTAL CEILING WHERE SPRINKLER HEAD OR FIRE ALARM REPLACEMENT TAKES PLACE. THIS INCLUDES THE ENTIRE CEILING FOR THAT ROOM OR SPACE. THIS DOES NOT INCLUDE TEXTURED (POPCORN) CEILINGS OR ANY CEILINGS WITH DROP IN CEILING TILE. SHADED AREAS IN PLAN REPRESENT WHERE PATCHED CEILING AND NEW PAINT WILL BE REQUIRED, BUT FIELD VERIFICATION WILL BE REQUIRED. VERIFY PAINT TO MATCH EXISTING. SEE SPECIFICATIONS FOR MORE INFORMATION.



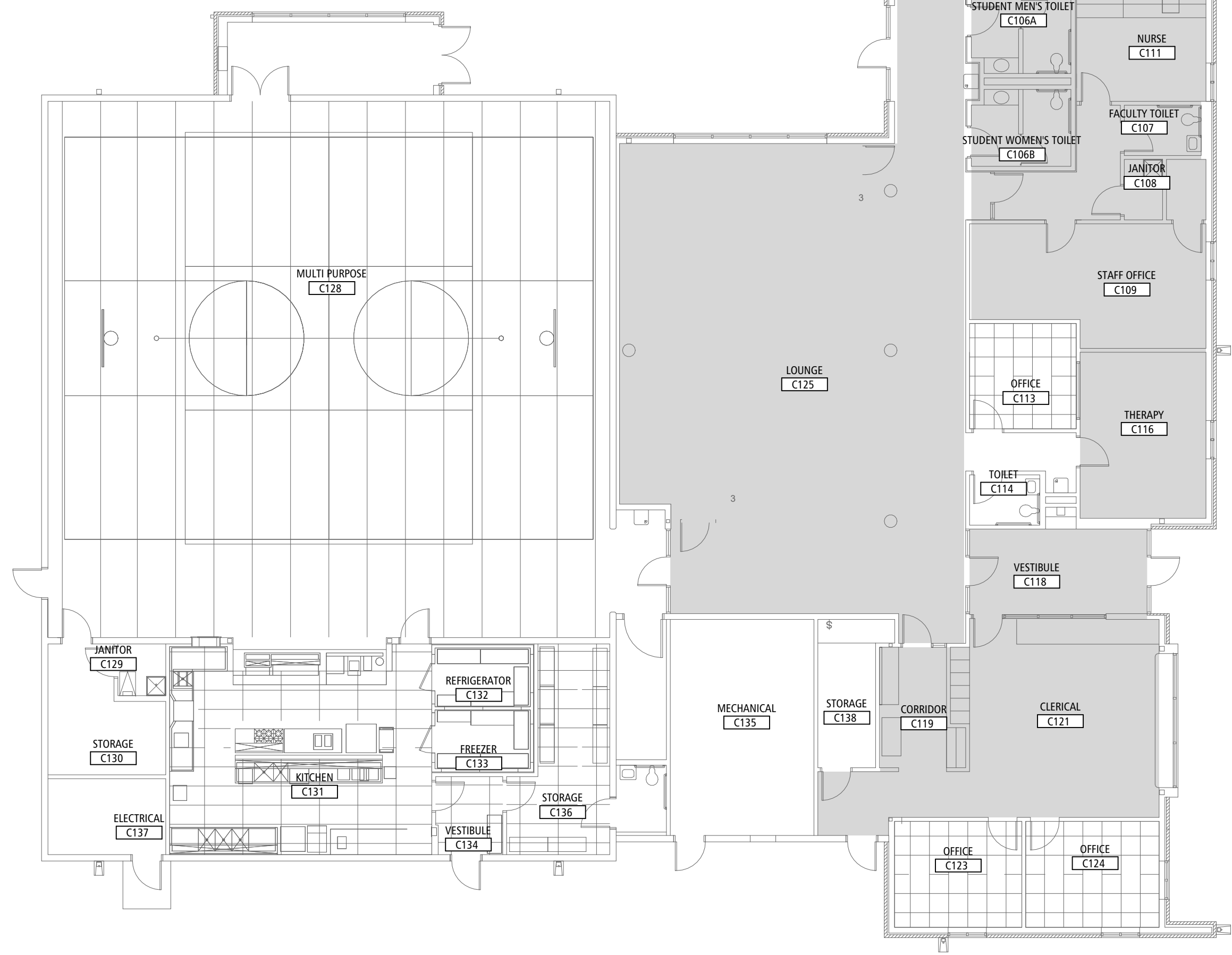
HOUSING UNIT C 1
SCALE: 3/32" = 1'-0" FP-3



HOUSING UNIT B 4
SCALE: 3/32" = 1'-0" FP-3



HOUSING UNIT A 5
SCALE: 3/32" = 1'-0" FP-3



CORE BUILDING 3
SCALE: 3/32" = 1'-0" FP-3