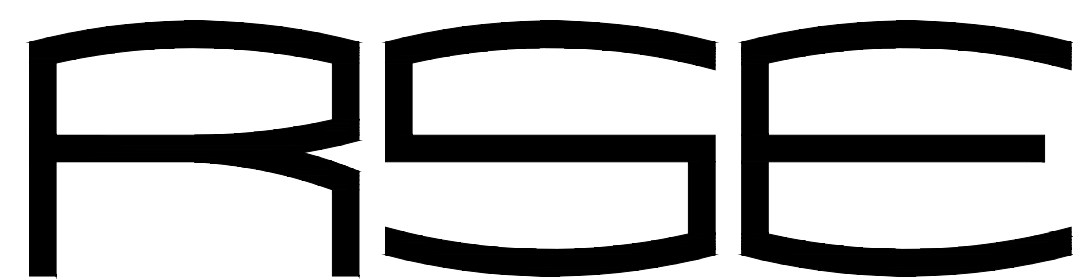


REPLACE FIRE ALARM SYSTEM & ELECTRICAL RENOVATION BELLEFONTAINE HABILITATION CENTER ST. LOUIS, MISSOURI



ROGERS-SCHMIDT ENGINEERING CO., P.C.

CONSULTING ENGINEERS
MISSOURI STATE CERTIFICATE
OF AUTHORITY #000408

DESIGNERS

PRIME: ROGERS-SCHMIDT ENGINEERING CO., P.C.
1736 WEST PARK CENTER DRIVE
SUITE 204
ST. LOUIS, MO 63026
PHONE: 636-600-1551
EMAIL: BFREINER@ROGERS-SCHMIDT.COM

FIRE ALARM: CODE CONSULTANTS INC.
2043 WOODLAND PKWY
SUITE 300
ST. LOUIS, MO 63146-4235
PHONE: 314-991-2633
EMAIL: CORYO@CODECONSULTANTS.COM

PROJECT NUMBER: M2006-01

SITE NUMBER: 7356
ASSET NUMBERS: SEE DRAWING G-002

OWNER: STATE OF MISSOURI
MIKE KEHOE
GOVERNOR

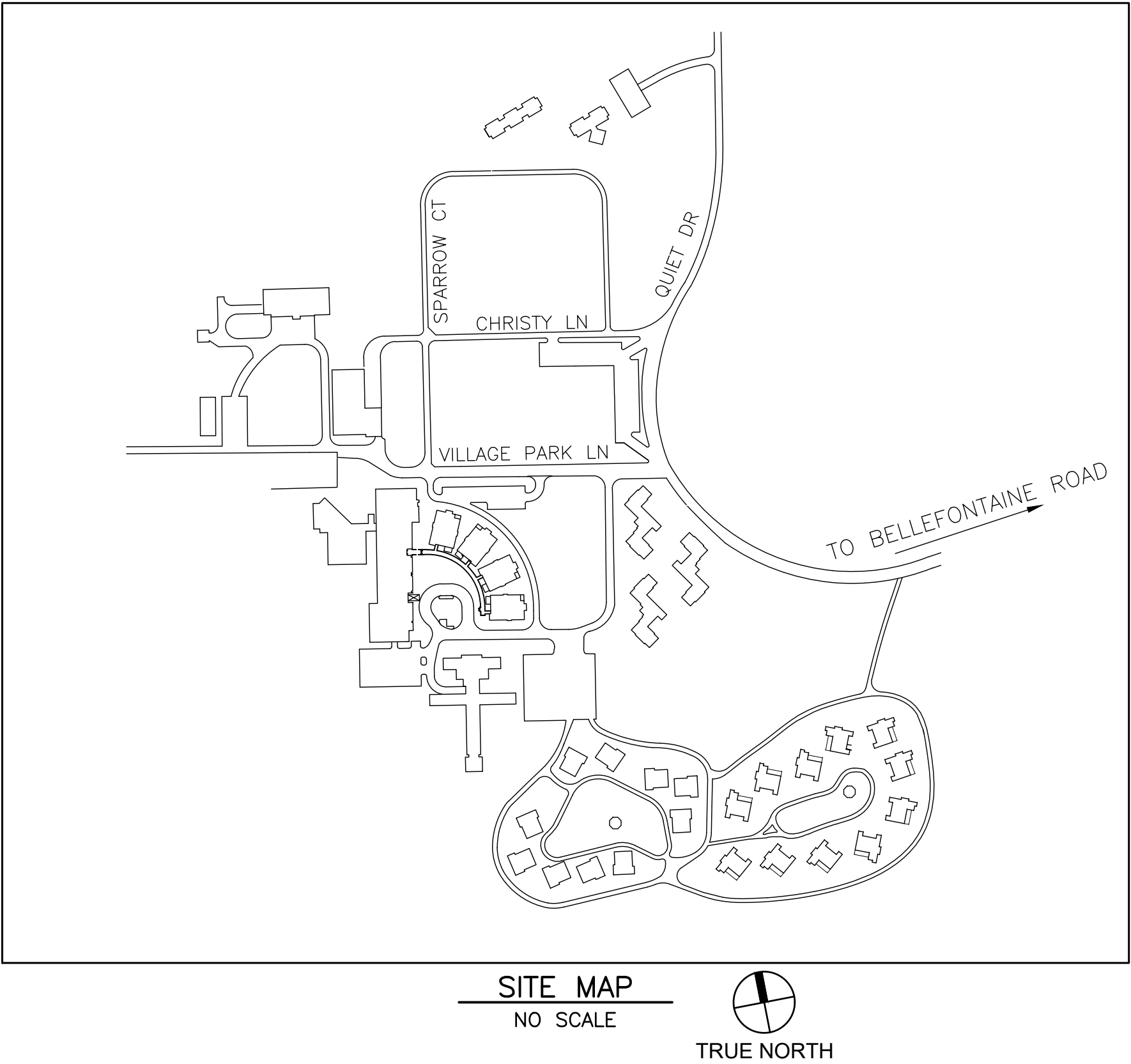
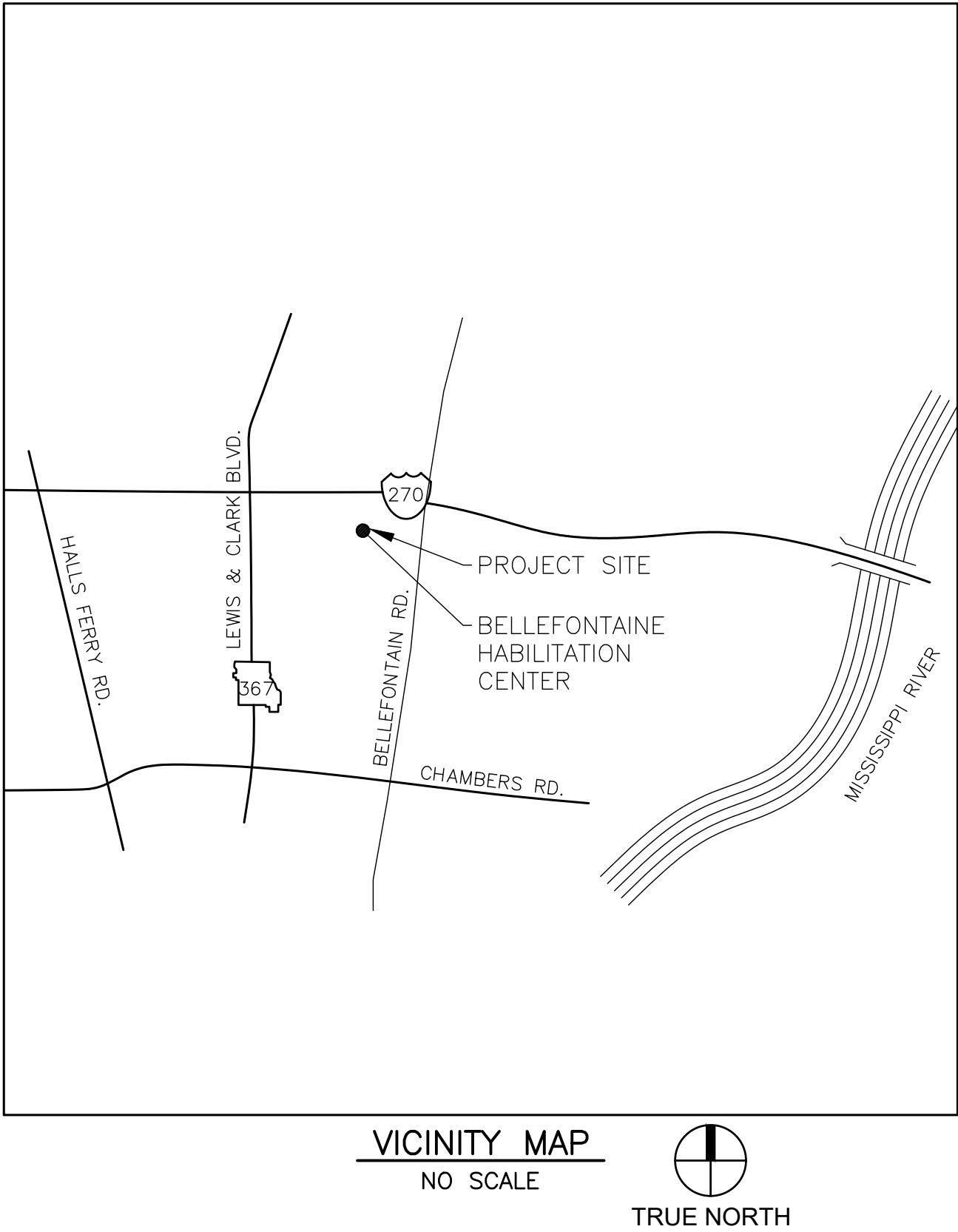
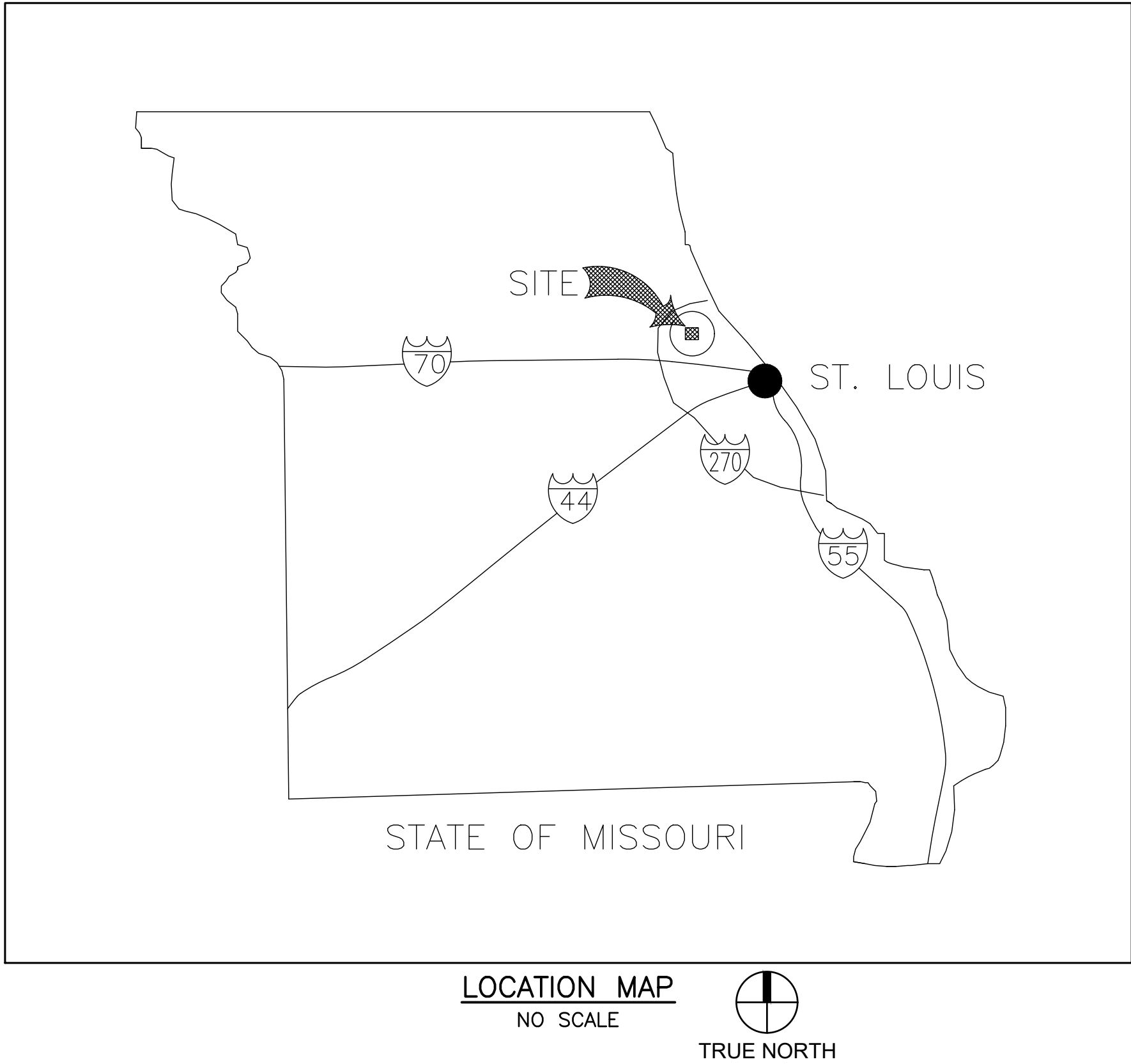
DEPARTMENT OF MENTAL HEALTH

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

SHEET NUMBER:

G-001

1 OF 45 SHEETS
FEBRUARY 10, 2025



SITE NUMBER:

7356

ASSET NUMBERS:

- 6517356013 - WAREHOUSE (FOOD DISTRIBUTION CENTER)
- 6517356014 - MAINTENANCE BUILDING
- 6517356017 - PHYSICAL THERAPY BUILDING AND POOL
- 6517356018 - PROGRAM BUILDING (MULTIPURPOSE)
- 6517356019 - CARDINALS BUILDING (1901 & 1902)
- 6517356020 - MAPLES BUILDING (1903 & 1904)
- 6517356021 - RED BUD BUILDING (1905 & 1906)
- 6517356024 - MULVANEY GROUP HOMES (APARTMENT UNITS A & B)
- 6517356036 - PHASE II GROUP HOME 1801
- 6517356037 - PHASE II GROUP HOME 1802
- 6517356038 - PHASE II GROUP HOME 1803
- 6517356039 - PHASE II GROUP HOME 1804
- 6517356040 - PHASE II GROUP HOME 1805
- 6517356041 - PHASE II GROUP HOME 1806

- 6517356042 - PHASE II GROUP HOME 1807
- 6517356043 - PHASE II GROUP HOME 1808
- 6517356044 - PHASE II GROUP HOME 1809
- 6517356045 - PHASE II GROUP HOME 1810
- 6517356046 - PHASE III GROUP HOME 1601
- 6517356047 - PHASE III GROUP HOME 1908
- 6517356048 - PHASE III GROUP HOME 1603
- 6517356049 - PHASE III GROUP HOME 1604
- 6517356050 - PHASE III GROUP HOME 1605
- 6517356051 - PHASE III GROUP HOME 1606
- 6517356052 - PHASE III GROUP HOME 1607
- 6517356053 - PHASE III GROUP HOME 1608
- 6517356054 - PHASE III GROUP HOME 1609
- 6517356055 - PHASE III GROUP HOME 1610
- 6517356056 - PHASE III GROUP HOME 1602
- 6517356069 - DONNELLY BUILDING (ADMINISTRATION)
- 6517356071 - INFRASTRUCTURE

CONSTRUCTION PHASING & SCHEDULE:

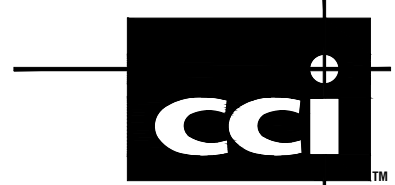
- THE PROJECT SHALL BE COMPLETED AS NECESSARY TO PROVIDE UNINTERRUPTED OPERATION OF THE FACILITY. THE SEQUENCING, PHASING AND SCHEDULING OF ALL WORK SHALL BE DEPENDENT ON AND SUBJECT TO FACILITY OPERATIONS.
- THE NATURE OF THIS PROJECT REQUIRES A HIGH LEVEL OF COORDINATION BY CONTRACTOR WITH OWNER.
- ALL WORK SHALL BE SCHEDULED WITH THE CONSTRUCTION REPRESENTATIVE AND BE SUBJECT TO THE OWNER'S APPROVAL PRIOR TO PROCEEDING.
- ALL NORMAL CONSTRUCTION ACTIVITIES SHALL OCCUR BETWEEN 7:30AM AND 4:00PM MONDAY THRU FRIDAY. NO WORK IS TO TAKE PLACE ON WEEKENDS OR STATE OBSERVED HOLIDAYS UNLESS APPROVED IN WRITING IN ADVANCE BY CONSTRUCTION REPRESENTATIVE.
- THE PROJECT REQUIRES NUMEROUS OUTAGES TO THE FACILITY POWER SYSTEM. CONTRACTOR SHALL COMPLETE ALL RELATED WORK TO THE MAXIMUM EXTENT POSSIBLE PRIOR TO THE START OF OUTAGES. CONTRACTOR SHALL HAVE ALL REQUIRED MATERIALS ON SITE PRIOR TO START OF OUTAGES.
- ALL POWER OUTAGES SHALL BE COORDINATED WITH THE CONSTRUCTION REPRESENTATIVE AND ARE WEATHER DEPENDENT. CONTRACTOR SHALL NOTIFY CONSTRUCTION REPRESENTATIVE TWO (2) WEEKS IN ADVANCE OF DESIRED OUTAGE TIME. CONSTRUCTION REPRESENTATIVE WILL GIVE CONTRACTOR 72 HOURS ADVANCE NOTICE OF ACTUAL TIME FOR OUTAGE. NO POWER OUTAGE SHALL OCCUR WHEN THE TEMP IS FORECAST TO BE BELOW 35°F AT ANY TIME DURING THE OUTAGE.
- COORDINATE ALL POWER OUTAGES OF LESS THAN 3 CONSECUTIVE HRS REQD FOR MV SWITCHING, SWGR CONTROLS WORK AND TEMP GENERATOR CONNECTIONS WITH CONSTRUCTION REPRESENTATIVE A MIN OF 72 HRS IN ADVANCE.
- CONTRACTOR SHALL PROVIDE PORTABLE TEMP GENERATORS TO MAINTAIN POWER TO THE FACILITY, OR ANY PORTION OF THE FACILITY, DURING ANY POWER OUTAGE OF MORE THAN 3 CONSECUTIVE HRS. CONTRACTOR SHALL PROVIDE SOMEONE ON SITE AT ALL TIMES WHEN ANY PORTION OF THE FACILITY IS POWERED BY A TEMP GENERATOR(S) AND SHALL ENSURE GENERATORS DO NOT RUN OUT OF FUEL. THE MAXIMUM PERIOD OF TIME THE FACILITY MAY BE POWERED FROM TEMP GENERATORS IS 5 CONSECUTIVE WORKING DAYS. AT CONTRACTOR'S OPTION, SUBJECT TO APPROVAL BY OWNER, WORK MAY BE DONE AROUND-THE-CLOCK TO MINIMIZE THE AMOUNT OF TIME THE FACILITY IS POWERED FROM TEMP GENERATORS. NO ADDITIONAL COST SHALL BE INCURRED BY OWNER FOR AROUND-THE-CLOCK WORK DURING A SCHEDULED POWER OUTAGE.
- SCHEDULE MULTIPLE ACTIVITIES, SUCH AS MAIN CAMPUS 12.47KV SWGR PM WORK AND BATTERY REPLACEMENT TO OCCUR CONCURRENTLY TO MINIMIZE THE NUMBER OF FACILITY POWER OUTAGES.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



BARRY D. FREINER
Registered Professional Engineer
MO # E-24220
Expires 12-31-2026

ROGERS-SCHMIDT
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OFFICE OF ADMINISTRATION
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DEPARTMENT OF
MENTAL HEALTH

REPLACE FIRE ALARM
SYSTEM & ELECTRICAL
RENOVATION

BELLEFONTAINE
HABILITATION CENTER
10695 BELLEFONTAINE RD.
ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01

SITE # 7356

ASSET # 6517356071

REVISION:	
DATE:	
REVISION:	
DATE:	
REVISION:	
DATE:	
REVISION:	
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REVISION:	
DATE:	
REVISION:	
DATE:	

ISSUE DATE: 02/10/2025

CAD DWG FILE: M2006-01-7356-
6517356071-G-002.DWG
DRAWN BY: M.N.S.
CHECKED BY: B.D.F.
DESIGNED BY: B.D.F.

SHEET TITLE:

SITE MAPS, ASSET
NUMBERS,
CONSTRUCTION
PHASING & SCHEDULE

SHEET NUMBER:

G-002

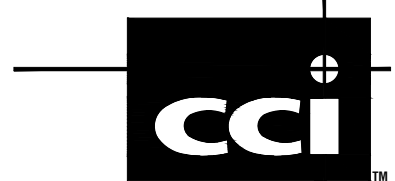
D R A W I N G I N D E X		
SHEET	DRAWING NUMBER	DRAWING TITLE
1 OF 45	G-001	COVER SHEET
2 OF 45	G-002	SITE MAPS, ASSET NUMBERS, CONSTRUCTION PHASING & SCHEDULE
3 OF 45	G-003	DRAWING INDEX
4 OF 45	E-001	ELECTRICAL SYMBOLS, ABBREVIATIONS & GENERAL NOTES
5 OF 45	ES-101	ELECTRICAL SITE PLAN
6 OF 45	ES-401	12.47kV CAMPUS MAIN SWITCHGEAR
7 OF 45	ED-401	MAINTENANCE BUILDING ELECTRICAL DEMOLITION PLAN
8 OF 45	ED-402	PHYSICAL THERAPY BUILDING ELECTRICAL DEMOLITION PLAN
9 OF 45	ED-403	DONNELLY BUILDING ELECTRICAL DEMOLITION PLAN
10 OF 45	ED-601	12.47kV ONE-LINE DIAGRAM – DEMOLITION
11 OF 45	ED-602	DEMOLTION ONE-LINE DIAGRAM – MAINTENANCE BUILDING
12 OF 45	ED-603	DEMOLITION ONE-LINE DIAGRAM – PHYSICAL THERAPY BUILDING
13 OF 45	E-401	MAINTENANCE BUILDING ELECTRICAL PLAN
14 OF 45	E-402	PHYSICAL THERAPY BUILDING ELECTRICAL PLAN
15 OF 45	E-403	DONNELLY BUILDING ELECTRICAL PLAN
16 OF 45	E-501	ELECTRICAL DETAILS
17 OF 45	E-601	12.47kV ONE-LINE DIAGRAM
18 OF 45	E-602	ONE-LINE DIAGRAM – MAINTENANCE BUILDING
19 OF 45	E-603	ONE-LINE DIAGRAM – PHYSICAL THERAPY BUILDING
20 OF 45	E-604	12.47kV FEEDER & EQUIPMENT SCHEDULES
21 OF 45	FA-001	FIRE ALARM COVER SHEET/NOTES, MATRIX, AND SHEET INDEX
22 OF 45	FA-100	SITE FIRE ALARM PLAN
23 OF 45	FA-101	APARTMENT A NEW WORK FIRE ALARM PLAN
24 OF 45	FA-102	APARTMENT B NEW WORK FIRE ALARM PLAN
25 OF 45	FA-103	BUILDINGS 1601-1610, 1908, 1801-1810, 1901-1906 NEW WORK FIRE ALARM PLAN
26 OF 45	FA-104	WAREHOUSE/FOOD DISTRIBUTION CENTER NEW WORK FIRE ALARM PLAN
27 OF 45	FA-105	MAINTENANCE BUILDING NEW WORK FIRE ALARM PLAN
28 OF 45	FA-106	MULTIPURPOSE BUILDING NEW WORK FIRE ALARM PLAN
29 OF 45	FA-107	PHYSICAL THERAPY BUILDING NEW WORK FIRE ALARM PLAN
30 OF 45	FAD-101	APARTMENT A DEMOLITION WORK FIRE ALARM PLAN
31 OF 45	FAD-102	APARTMENT B DEMOLITION WORK FIRE ALARM PLAN
32 OF 45	FAD-103	BUILDINGS 1601-1610, 1908, 1801-1810, 1901-1906 DEMOLITION WORK FIRE ALARM PLAN
33 OF 45	FAD-104	WAREHOUSE/FOOD DISTRIBUTION CENTER DEMOLITION WORK FIRE ALARM PLAN
34 OF 45	FAD-105	MAINTENANCE BUILDING DEMOLITION WORK FIRE ALARM PLAN
35 OF 45	FAD-106	MULTIPURPOSE BUILDING DEMOLITION WORK FIRE ALARM PLAN
36 OF 45	FAD-107	PHYSICAL THERAPY BUILDING DEMOLITION WORK FIRE ALARM PLAN
37 OF 45	FA-500	FIRE ALARM DETAILS
38 OF 45	FA-601	APARTMENT A MATRIX, CBE, CALCULATIONS AND RISER DIAGRAM
39 OF 45	FA-602	APARTMENT B MATRIX, CBE, CALCULATIONS AND RISER DIAGRAM
40 OF 45	FA-603	BUILDINGS 1601-1610, 1908 MATRIX, CBE, CALCULATIONS AND RISER DIAGRAM
41 OF 45	FA-604	BUILDINGS 1801-1810 MATRIX, CBE, CALCULATIONS AND RISER DIAGRAM
42 OF 45	FA-605	BUILDINGS 1901-1906 MATRIX, CBE, CALCULATIONS AND RISER DIAGRAM
43 OF 45	FA-606	WAREHOUSE/FOOD DISTRIBUTION CENTER MATRIX, CBE, CALCULATIONS AND RISER DIAGRAM
44 OF 45	FA-607	MAINTENANCE BUILDING MATRIX, CBE, CALCULATIONS AND RISER DIAGRAM
45 OF 45	FA-608	MULTIPURPOSE/PHYSICAL THERAPY BUILDING MATRIX, CBE, CALCULATIONS AND RISER DIAGRAM

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



BARRY D. FREINER
Registered Professional Engineer
MO # E-24220
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SYSTEM & ELECTRICAL
RENOVATION

BELLEFONTAINE
HABILITATION CENTER
10695 BELLEFONTAINE RD.
ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01

SITE # 7356

ASSET # 6517356071

REVISION:	
DATE:	
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REVISION:	
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ISSUE DATE: 02/10/2025

CAD DWG FILE: M2006-01-7356-
6517356071-G-003.DWG
DRAWN BY: M.N.S
CHECKED BY: B.D.F
DESIGNED BY: B.D.F

SHEET TITLE:
DRAWING INDEX

SHEET NUMBER:

G-003

3 OF 45 SHEETS
FEBRUARY 10, 2025

ELECTRICAL SYMBOLS

	KEYNOTE; SPECIFICALLY REFERENCED TO AN ITEM ON THE FIELD OF THE DRAWING. DIGITS IDENTIFY NOTE NUMBER.		RED PILOT LIGHT
	CONDUIT EXPOSED		CONTROL STATION
	CONDUIT OR CABLE TURNED DOWN		CONTROL RELAY
	CONDUIT OR CABLE TURNED UP		EQUIPMENT GROUND FAULT
	CONDUIT BELOW GRADE OR IN FLOOR SLAB		MECHANICAL (KEY) INTERLOCK
	FLEXIBLE CONDUIT OR CABLE		THERMOSTAT
	TYPE LB, LL OR LR CONDUIT BODY		TIME CLOCK
	HOME RUN TO PANEL – SHORT STROKES INDICATE PHASE OR SWITCHED WIRES, LONG STROKE DENOTES NEUTRAL, LONG STROKE WITH DOT DENOTES GROUND. #10 AWG WIRES IN ¾”GRC UNLESS NOTED OTHERWISE.		TIME DELAY RELAY
	MOTOR, X = HORSEPOWER		TIMING RELAY
	NEW COMBINATION MOTOR STARTER		SURGE PROTECTIVE DEVICE
	DISCONNECT SWITCH F = FUSIBLE, N = NON-FUSIBLE, C = CIRCUIT BREAKER		ALARM HORN
	JUNCTION BOX		INSTRUMENTATION TAG NO.
	EXISTING CONTROL PANEL		ELECTRICAL METER
	NEW CONTROL PANEL		IDENTIFICATION SYMBOL
	NEW PANELBOARD		DELTA-GRD WYE CONNECTION
	EXISTING PANELBOARD		WIRING CROSSING, CONNECTION
	HAND-OFF-AUTO SWITCH		WIRING CROSSING, NO CONNECTION
	3-WAY SWITCH		EQUIPMENT CONNECTION
	120V DUPLEX RECEPTACLE		TOGGLE SWITCH
	120V GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE		FUSED SWITCH
	120V DUPLEX RECEPTACLE W/ WEATHERPROOF COVER		FUSIBLE DISCONNECT SWITCH
	WALL MTD LTG FIXTURE		NON-FUSIBLE DISCONNECT SWITCH
	4' INDUSTRIAL OR STRIP LIGHT		ENCLOSED CIRCUIT BREAKER

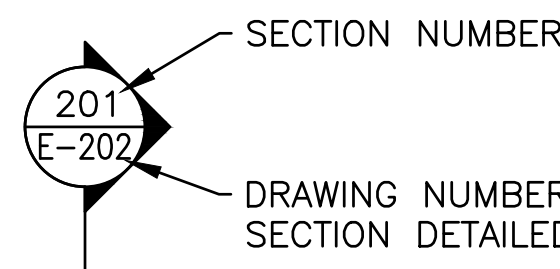
	COMBINATION MOTOR STARTER
	FUSE
	CIRCUIT BREAKER
	MEDIUM-VOLTAGE DRAW-OUT CIRCUIT BREAKER
	MEDIUM-VOLTAGE FUSIBLE LOAD-INTERRUPTER SWITCH
	MEDIUM-VOLTAGE NON-FUSIBLE LOAD-INTERRUPTER SWITCH
	MEDIUM-VOLTAGE FUSE
	TRANSFORMER
	TRANSFORMER
	SURGE ARRESTER
	CURRENT TRANSFORMER (SHOWN WITH POLARITY MARKS, RATIO & QUANTITY)
	POTENTIAL TRANSFORMER (SHOWN WITH QUANTITY AND RATIO)
	CONTROL POWER TRANSFORMER
	NORMALLY CLOSED CONTACT
	NORMALLY OPEN CONTACT
	GROUNDING ROD
	EARTH GROUNDING CONNECTION
	CHASSIS GROUNDING CONNECTION
	GENERATOR
	RESISTOR
	END-OF-LINE RESISTOR

A	AMPERES
ABAND	ABANDONED
AC	ALTERNATING CURRENT
AF	AMP FUSE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY (RMS SYMMETRICAL)
ALT	ALTERNATE
AM	AMMETER
AS	AMMETER SWITCH
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AWG	AMERICAN WIRE GAUGE
BFG	BELOW FINISHED GRADE
BLDG	BUILDING
C	CONDUIT OR CONDUCTOR
CB	CIRCUIT BREAKER
CKT	CIRCUIT
COMB	COMBINATION
CONC	CONCRETE
CN	CONCENTRIC NEUTRAL
CNTRL	CONTROL
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CS	CONTROL SWITCH
CT	CURRENT TRANSFORMER
CU	COPPER
CWP	COLD WATER PIPE
DC	DIRECT CURRENT
DIA	DIAMETER
DN	DOWN
DO	DISCRETE OUTPUT
DWG	DRAWING
EG	EMERGENCY GENERATOR
EL OR ELEV	ELEVATION
ELEC	ELECTRIC OR ELECTRICAL
EM OR EMER	EMERGENCY
ENCL	ENCLOSURE OR ENCLOSED
EPM	ELECTRONIC POWER METER
EPO	EMERGENCY POWER OFF
EQUIP	EQUIPMENT
EXIST	EXISTING
F	FUSE OR FUSIBLE
FDR	FEEDER
FL	FLOOR
FO	FIBER OPTIC
FS	FUSIBLE SWITCH
FVNR	FULL-VOLTAGE NON-REVERSING
GA	GAUGE
GAL	GALLON(S)
GALV	GALVANIZED
GCP	GENERATOR CONTROL PANEL
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
GRD	GROUND
HH	HANDHOLE
HRS	HOURS
HVAC	HEATING, VENTILATION & AIR CONDITIONING
HZ	FREQUENCY IN CYCLES PER SECOND
INFO	INFORMATION
J, JB, J-BOX	JUNCTION BOX
KA	KILOAMPERE(S)
KAIC	KILOAMPERE INTERRUPTING CAPACITY (RMS SYMMETRICAL)
KCM	THOUSAND CIRCULAR MIL(S)

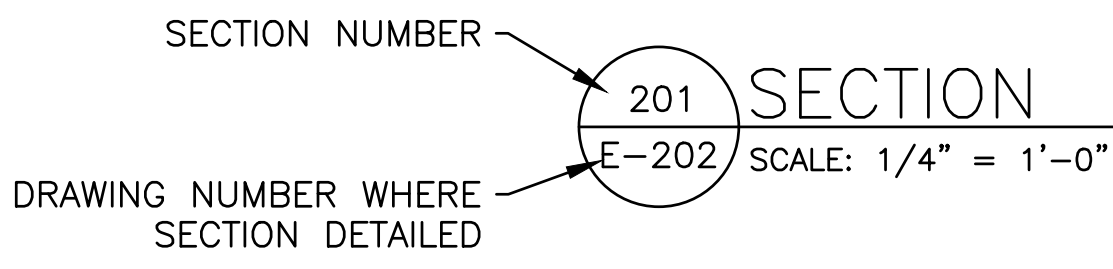
KO	KNOCK-OUT
kV	KILOVOLT(S)
kVA	KILOVOLT-AMPERE(S)
kW	KILOWATT(S)
L	LONG
LA	LIGHTING ARRESTER
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LFNC	LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT
LP	LIGHTING PANELBOARD
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND FAULT
LTG	LIGHTING
LV	LOW-VOLTAGE
M	METER
MCB	MAIN CIRCUIT BREAKER
MFS	MAIN FUSIBLE SWITCH
MH	MANHOLE
MIN	MINIMUM
MS	MOTOR STARTER
MTD	MOUNTED
MV	MEDIUM-VOLTAGE
MVA	MEGAVOLT-AMPERES
N OR NEUT	NEUTRAL
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPENED
NEC	NATIONAL ELECTRICAL CODE
NTS	NOT TO SCALE
OCPD	OVERCURRENT PROTECTIVE DEVICE
OE	OVERHEAD ELECTRIC
PB	PUSHBUTTON SWITCH
PL	PILOT LIGHT
PM	PREVENTATIVE MAINTENANCE
PNL	PANEL
PNLBD	PANELBOARD
P/S	POWER SUPPLY
PT	POTENTIAL TRANSFORMER
PVC	SCHEDULE 40 POLYVINYLCHLORIDE CONDUIT
PWR	POWER
REQD	REQUIRED
RMS	ROOT MEAN SQUARE
S.C.	SHORT CIRCUIT
SE	SERVICE ENTRANCE
SHLD	SHIELD OR SHIELDED
SS	SELECTOR SWITCH OR STAINLESS STEEL
SW	SWITCH
SWGR	SWITCHGEAR
STL	STEEL
SYM	SYMMETRICAL
T	THERMOSTAT OR TRANSFORMER
TB	TERMINAL BLOCK
TEMP	TEMPERATURE OR TEMPORARY
TERM	TERMINATION
TYP	TYPICAL
UE	UNDERGROUND ELECTRIC
V	VOLT(S)
VA	VOLT-AMPERE(S)
W	WATT(S) OR WIRE(S)
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF
WW	WIREWAY
XFMR	TRANSFORMER
Z	IMPEDANCE
&	AND
Δ	DELTA
#	NUMBER
%	PERCENT
∅	PHASE OR DIAMETER

GENERAL ELECTRICAL NOTES:

- A. THE CONTRACTOR SHALL PROVIDE ALL HOLES IN FLOORS AND WALLS AS REQUIRED FOR CONDUIT ROUTING. SEAL PENETRATIONS IN ACCORDANCE WITH THE SPECIFICATIONS.
- B. COORDINATE EXACT LOCATIONS OF CONDUIT RUNS WITH EXISTING CONDITIONS AND WITH THE CONSTRUCTION REPRESENTATIVE. INDICATE FINAL ROUTING OF ALL CONDUITS ON "AS BUILT" DRAWINGS.
- C. ALL INFORMATION CONTAINED ON THIS DRAWING APPLIES TO ES, ED AND E SERIES DRAWINGS.
- D. THERE MAY BE SYMBOLS AND/OR ABBREVIATIONS SHOWN ON THIS SHEET THAT ARE NOT APPLICABLE TO THIS PROJECT.



SECTION MARK



SECTION IDENTIFICATION SYMBOL

ELECTRICAL SYMBOLS

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



BARRY D. FREINER
Registered Professional Engineer
MO # E-24220
Expires 12-31-2026

ROGERS-SCHMIDT
ENGINEERING CO., P.C.
CONSULTING ENGINEERS
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REPLACE FIRE ALARM
SYSTEM & ELECTRICAL
RENOVATION

BELLEVILLE
HABILITATION CENTER
10695 BELLEVILLE RD.
ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01

SITE # 7356

ASSET # 6517356071

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ISSUE DATE: 02/10/2025

CAD DWG FILE: M2006-01-7356-
6517356071-E-001.DWG
DRAWN BY: M.N.S.
CHECKED BY: B.D.F.
DESIGNED BY: B.D.F.

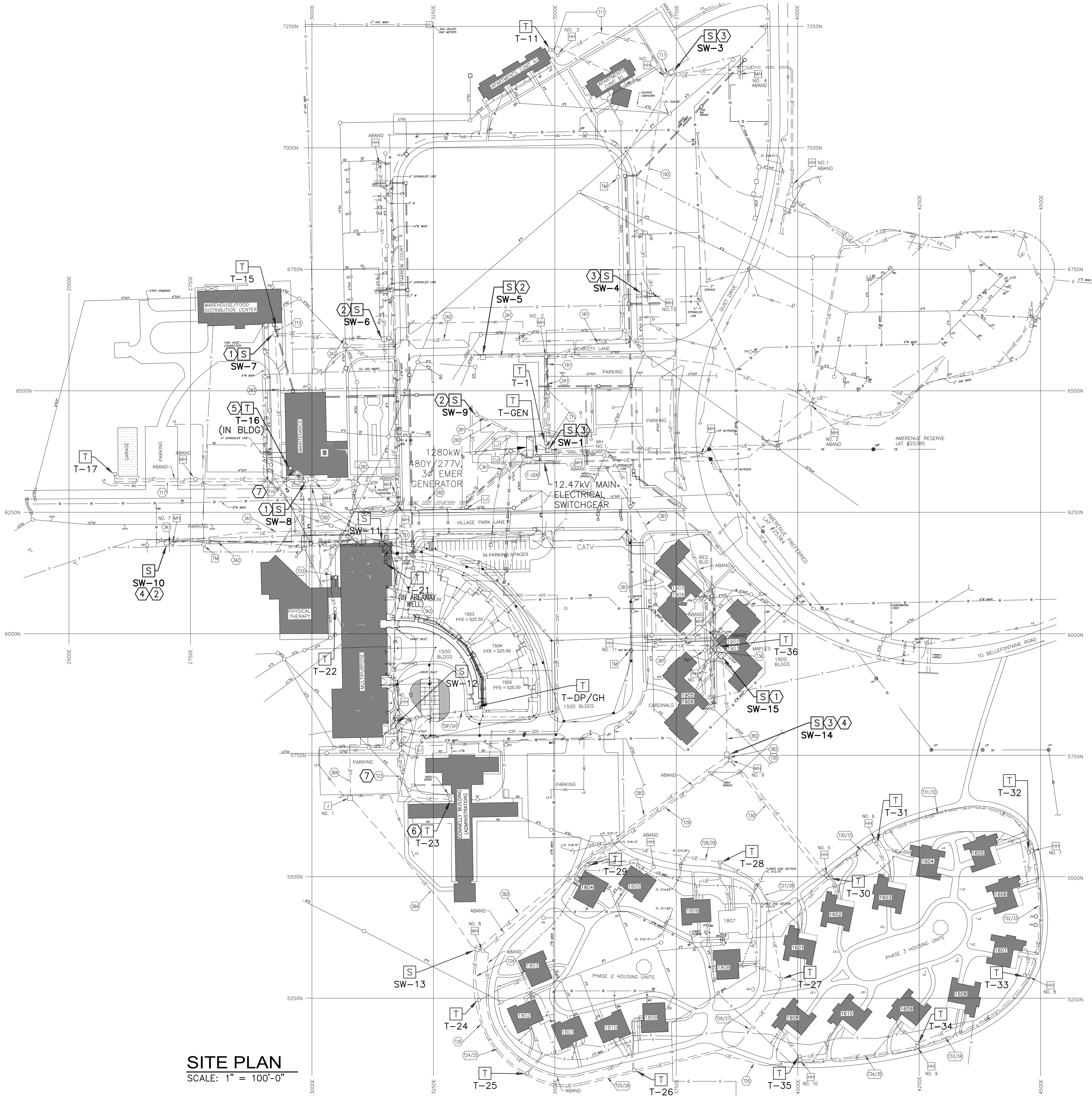
SHEET TITLE:

ELECTRICAL
SYMBOLS,
ABBREVIATIONS &
GENERAL NOTES

SHEET NUMBER:

E-001

4 OF 45 SHEETS
FEBRUARY 10, 2025



SITE PLAN
SCALE: 1" = 100'-0"

GENERAL NOTES:

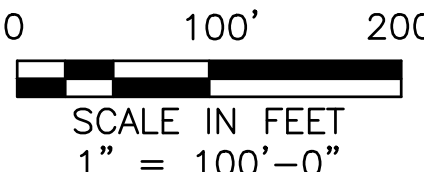
- FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.
- SEE CONSTRUCTION PHASING & SCHEDULE ON DWG G-002.
- EXIST UG UTILITIES SHOWN ON THIS DWG ARE BASED ON AVAILABLE RECORD DOCUMENTS OBTAINED FROM THE OWNER BUT THEIR ACCURACY IS GENERALLY UNCONFIRMED.
- EXIST UG UTILITIES IN THE AREAS OF SITE WORK ARE PRIVATE. OBTAIN FIELD UTILITY LOCATES FROM A PRIVATE UTILITY LOCATE COMPANY PRIOR TO PERFORMING ANY EXCAVATION WORK.
- SEE DWGS ED-601, E-601 & E-604 FOR MV FDR INFORMATION.

KEY NOTES:

- REPLACE EXIST SWGR WITH NEW SWGR PER SPECIFICATION SECTION 337710 AND PER THE PAD-MOUNTED SWGR SCHEDULE ON DWG E-604. SEE DETAILS ON DWG E-501.
- REPLACE EXIST SWGR WITH NEW SECTIONALIZER CABINET PER SPECIFICATION SECTION 337110. SEE DETAIL ON DWG E-501.
- EXIST SWGR TO BE REMOVED.
- EXIST SWGR SW-10 TO BE RELOCATED TO LOCATION OF EXIST SW-14. SEE DETAIL ON DWG E-501.
- REPLACE EXIST XFMR WITH NEW 150 kVA XFMR PER SPECIFICATION SECTION 261216. SEE DWGS ED-401 & E-401.
- REPLACE EXIST XFMR WITH NEW 150 kVA XFMR PER SPECIFICATION SECTION 261219. SEE DWGS ED-403 & E-403
- REPLACE EXIST 12.47kV FDR CABLES IN EXIST 4" DUCT. SEE DWGS ED-601, E-601 & E-604.

LEGEND

LJ	UNDERGROUND LIGHTING JUNCTION BOX
CJ	UNDERGROUND CONTROL JUNCTION BOX
T	ELECTRICAL TRANSFORMER
S	ELECTRICAL PAD-MOUNTED SWITCHGEAR
MH	ELECTRICAL MANHOLE
HH	ELECTRICAL HAND HOLE
TM	TELEPHONE MANHOLE
XXX	12.47KV FEEDER DESIGNATION
UP	UTILITY POLE
LS	LIGHT STANDARD
FH	FIRE HYDRANT
GV	GAS VALVE
WB	WATER BOX
WV	WATER VALVE
CI	CAST IRON
RD	ROOF DRAINS
CO	CLEAN OUT
YD	YARD DRAIN
G	GAS
S	SANITARY SEWER (VITRIFIED CLAY TYP.)
SS	STORM SEWER (CONCRETE PIPE TYP.)
VCP	VITRIFIED CLAY PIPE
W	WATER
T	TELEPHONE
—	STEAM AND CONDENSATE
OE	OVERHEAD ELECTRIC
UE	UNDERGROUND ELECTRIC
UEL	UNDERGROUND ELECTRIC LIGHTING
UCC	UNDERGROUND CONTROL CABLES
CATV	UNDERGROUND CABLE TV



STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



BARRY D. FREINER
Registered Professional Engineer
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Expires 12-31-2026

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**OFFICE OF ADMINISTRATION
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DESIGN AND CONSTRUCTION**

DEPARTMENT OF
MENTAL HEALTH

REPLACE FIRE ALARM
SYSTEM & ELECTRICAL
RENOVATION

BELLEFONTAINE
HABILITATION CENTER
10695 BELLEFONTAINE RD.
ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01

SITE # 7356

ASSET # 6517356071

REVISION:	
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REVISION:	
DATE:	

ISSUE DATE: 02/10/2025

CAD DWG FILE: M2006-01-7356-
6517356071-ES-101.DWG
DRAWN BY: K E T / M N S
CHECKED BY: B D F
DESIGNED BY: B D F

SHEET TITLE:
**ELECTRICAL SITE
PLAN**

SHEET NUMBER:

ES-101

5 OF 45 SHEETS
FEBRUARY 10, 2025

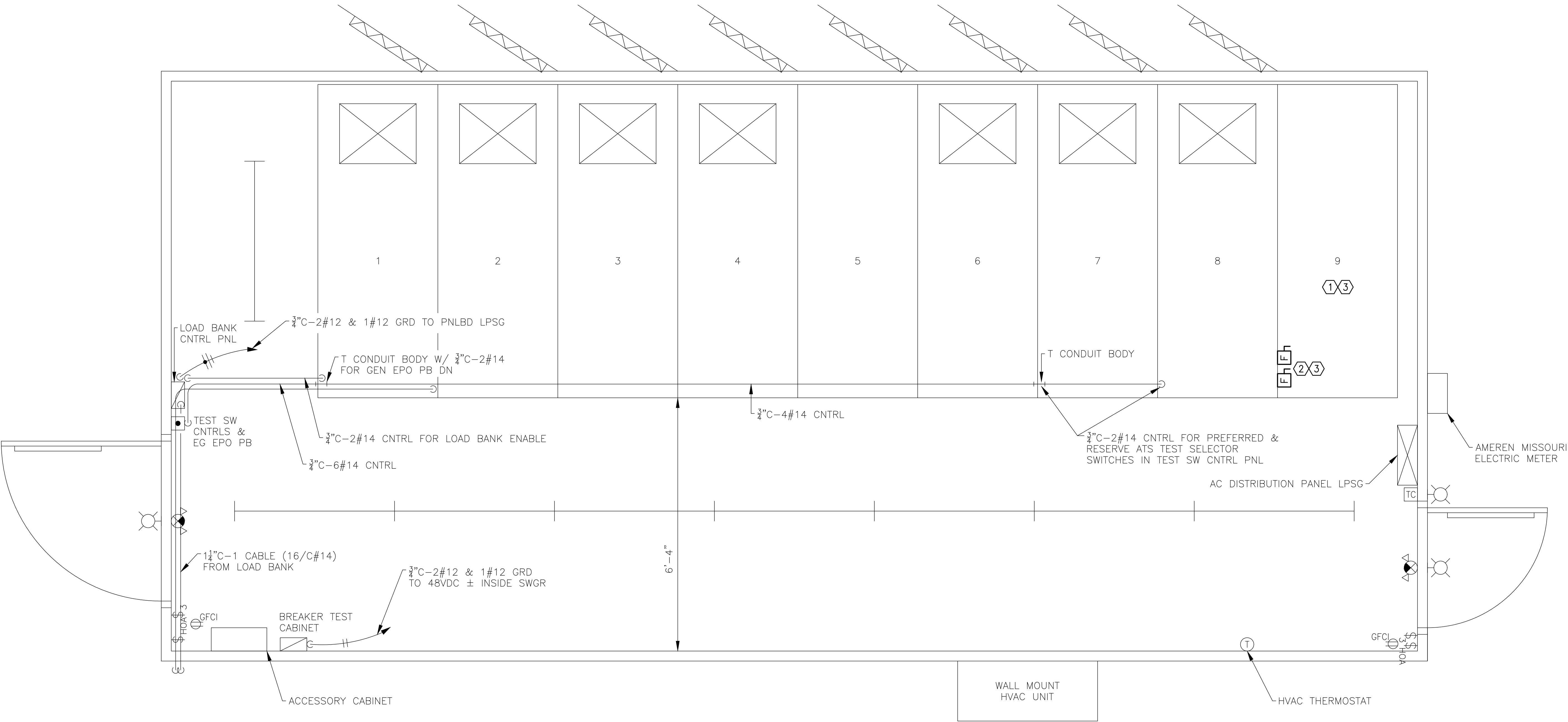
ROGERS-SCHMIDT ENGINEERING CO., P.C. © 2025

GENERAL NOTES:

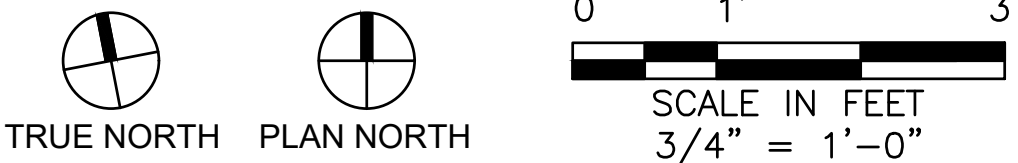
- A. SEE CONSTRUCTION PHASING & SCHEDULE ON DWG G-002.
- B. PERFORM PREVENTATIVE MAINTENANCE ON SWGR PER SPECIFICATION 260115 INCLUDING, BUT NOT LIMITED TO, CLEANING, CONDUCTOR TERMINATION TORQUE CHECK, CB TESTING, PROTECTIVE RELAY TESTING AND CALIBRATION, AND BATTERY CHARGER TESTING IN ACCORDANCE WITH NETA GUIDELINES AND SIEMENS O&M MANUAL REQUIREMENTS.
- C. EXIST SWITCHGEAR BATTERIES SHALL BE LEGALLY DISPOSED OF OFF SITE IN ACCORDANCE WITH APPLICABLE EPA AND MO DNR REGULATIONS.

KEY NOTES:

1. REPLACE EXIST WET CELL BATTERIES WITH SEALED LEAD-ACID BATTERIES PER SPECIFICATION 260115. PROVIDE (2) PARALLEL SETS OF (4) 12VDC BATTERIES WIRED IN SERIES FOR 48VDC. BATTERY AMP-HOUR RATING TO BE DETERMINED BY THE BATTERY SUPPLIER.
2. PROVIDE 2-POLE, 48VDC RATED, FUSIBLE DISC SW, SIZED BY BATTERY SUPPLIER, ON EACH BATTERY STRING.
3. ALTERNATE BID NO. 2: IN LIEU OF SEALED LEAD ACID BATTERIES, REPLACE EXIST BATTERIES WITH A SINGLE STRING OF FIAMM/ALCAD SGL FLAT PLATE VENTED, FLOODED LEAD-ACID BATTERIES TO MATCH EXIST AND WITH A SINGLE 2-POLE, 48VDC FUSIBLE DISC SW, SIZED BY THE BATTERY SUPPLIER. BATTERY AMP-HOUR RATING TO BE DETERMINED BY THE BATTERY SUPPLIER.



12.47KV MAIN CAMPUS SWITCHGEAR
SCALE: 3/4" = 1'-0"

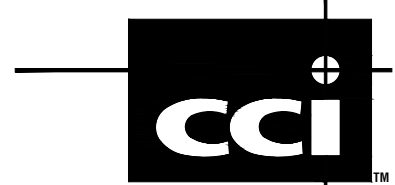


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DEPARTMENT OF
MENTAL HEALTH

REPLACE FIRE ALARM
SYSTEM & ELECTRICAL
RENOVATION

BELLEFONTAINE
HABILITATION CENTER
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ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01
SITE # 7356
ASSET # 6517356071

REVISION:	
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ISSUE DATE: 02/10/2025

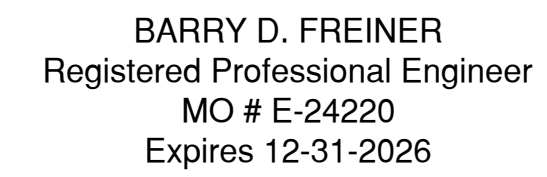
CAD DWG FILE: M2006-01-7356-
6517356071-ES-401.DWG
DRAWN BY: K E T
CHECKED BY: B D F
DESIGNED BY: B D F

SHEET TITLE:
12.47KV CAMPUS
MAIN
SWITCHGEAR

SHEET NUMBER:

ES-401

6 OF 45 SHEETS
FEBRUARY 10, 2025



**OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
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DESIGN AND CONSTRUCTION**

REPLACE FIRE ALARM SYSTEM & ELECTRICAL RENOVATION

PROJECT # M2006-01
SITE # 7356
ASSET # 6517356014

REVISION: _____
DATE: _____
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DATE: _____
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REVISION: _____
DATE: _____

CAD DWG FILE: M2006-01-7356-6517356071-ED-401.DWG
DRAWN BY: K E T / M N S
CHECKED BY: B D F
DESIGNED BY: B D F

SHEET NUMBER:

ED-401

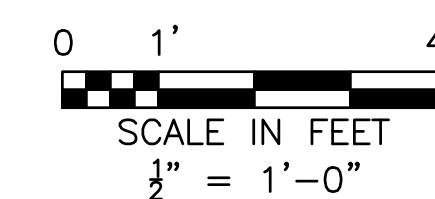
7 OF 45 SHEETS
FEBRUARY 10, 2025

- A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.
- B. SEE DWGS ED-601 & E-604 FOR MV FDR & XFMR INFORMATION.
- C. COORDINATE ALL WORK ON THIS DWG WITH THE WORK BY OTHERS ON PROJECT M2307-01.

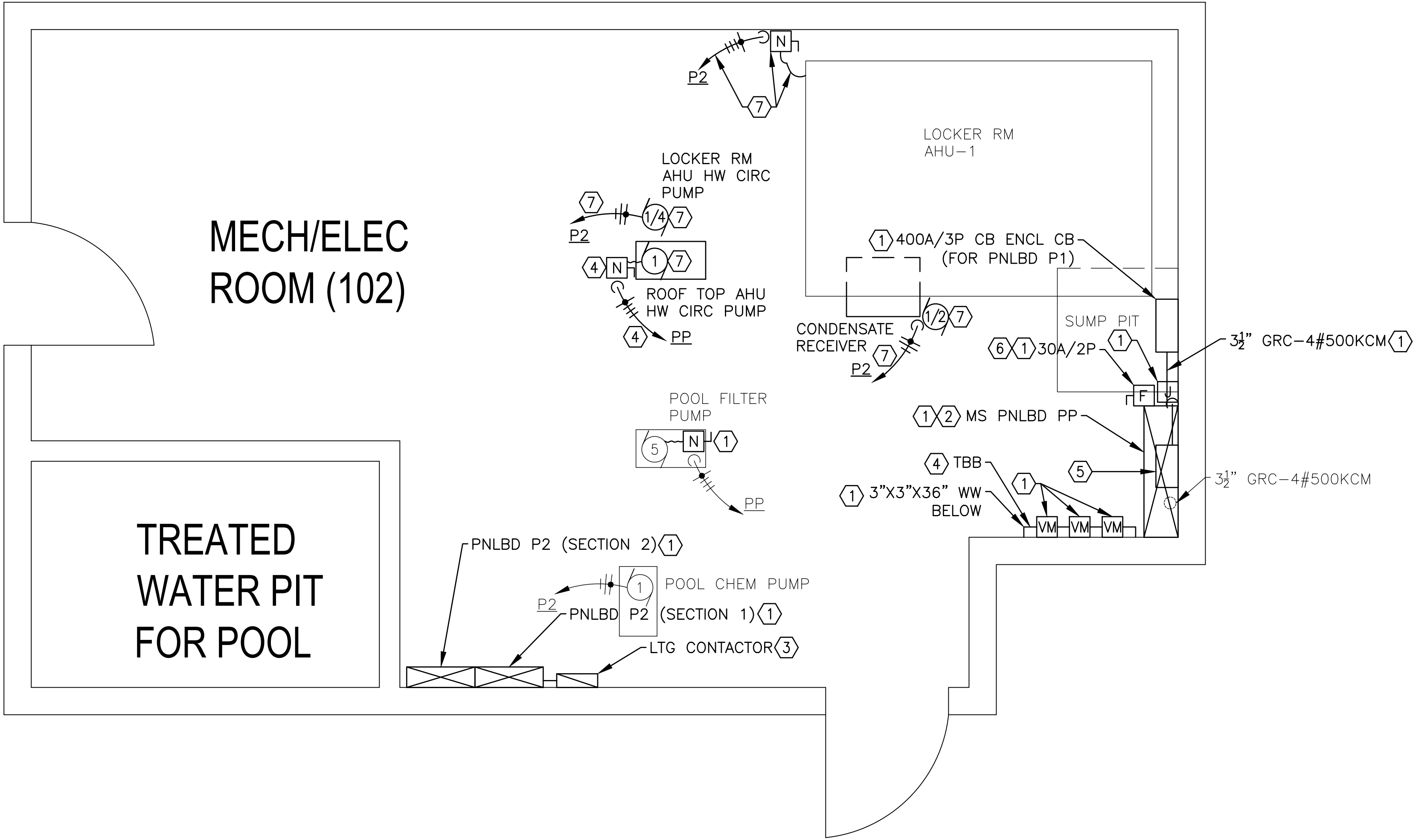
1. EXISTING ITEM TO BE REMOVED.
2. REMOVE EXIST ABAND MV CABLES TO SWGR SW-8 LOCATED OUTSIDE. SEE DWG ES-101.
3. CONFIRM THAT NEW FDR T16 CABLES CAN BE INSTALLED IN THE EXIST CONDUIT WHERE ABAND MV CABLES WERE REMOVED, PER KEY NOTE 5 ON DWG E-401. IF SO, REMOVE EXIST FDR T16 MV CABLES TO SWGR SW-8. IF NOT, CONTACT DESIGNER FOR FURTHER DIRECTION.
4. DISCONNECT ALL BRANCH FDR CONDUCTORS AND PROTECT FOR RECONNECTION TO NEW PNLBD. SEE DWG E-401.



TRUE NORTH PLAN NORTH



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PHYSICAL THERAPY BUILDING ELECTRICAL DEMOLITION PLAN
SCALE: 1/2" = 1'-0"

GENERAL NOTES:

- FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.
- COORDINATE ALL WORK ON THIS DWG WITH THE WORK ON PROJECT M2307-01.

KEY NOTES:

- EXISTING ITEM TO BE REMOVED.
- DISCONNECT ALL EXISTING CONDUCTORS AND PROTECT FOR RECONNECTION TO NEW PNLBD. SEE DWG E-402.
- REMOVE EXIST LTG CONTACTOR FROM NEMA 1 ENCLOSURE FOR INSTALLATION IN NEW SS ENCL PER DWG E-402. DISCARD EXIST ENCL.
- REMOVE PLYWOOD, TELEPHONE PUNCH-DOWN BLOCKS AND ALL OTHER ITEMS ATTACHED TO PLYWOOD. VERIFY WITH OWNER THAT ALL TELEPHONE LINES ARE NO LONGER IN SERVICE AND ALL OTHER ITEMS ARE ABAND BEFORE BEGINNING DEMO WORK.
- REMOVE ABAND EMERGENCY LTG UNIT ABOVE PNLBD PP AND ALL ASSOC CONDUIT & WIRING.
- FIELD VERIFY IF 120VAC CONDUCTORS ON LOAD SIDE OF DISC SW ARE ABAND. IF SO, REMOVE WIRING TO DESTINATION, CUT OFF CONDUIT AT FLOOR AND FILL END WITH NON-SHRINK EPOXY GROUT. IF NOT ABAND, SEE KEY NOTE 7 ON DWG E-402.
- NIC: TO BE REMOVED BY OTHERS ON PROJECT M2307-01.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



BARRY D. FREINER
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MO # E-24220
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DEPARTMENT OF
MENTAL HEALTH

REPLACE FIRE ALARM
SYSTEM & ELECTRICAL
RENOVATION

BELLEFONTAINE
HABILITATION CENTER
10695 BELLEFONTAINE RD.
ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01

SITE # 7356

ASSET # 6517356017

REVISION:	
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REVISION:	
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ISSUE DATE: 02/10/2025

CAD DWG FILE: M2006-01-7356-
6517356071-ED-402.DWG
DRAWN BY: K E T / M N S
CHECKED BY: B D F
DESIGNED BY: B D F

SHEET TITLE:
PHYSICAL THERAPY
BUILDING
ELECTRICAL
DEMOLITION PLAN

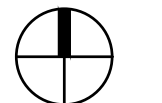
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ED-402

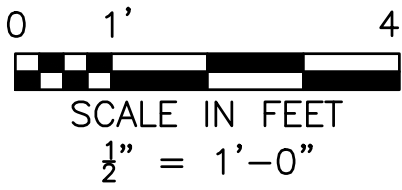
8 OF 45 SHEETS
FEBRUARY 10, 2025



TRUE NORTH

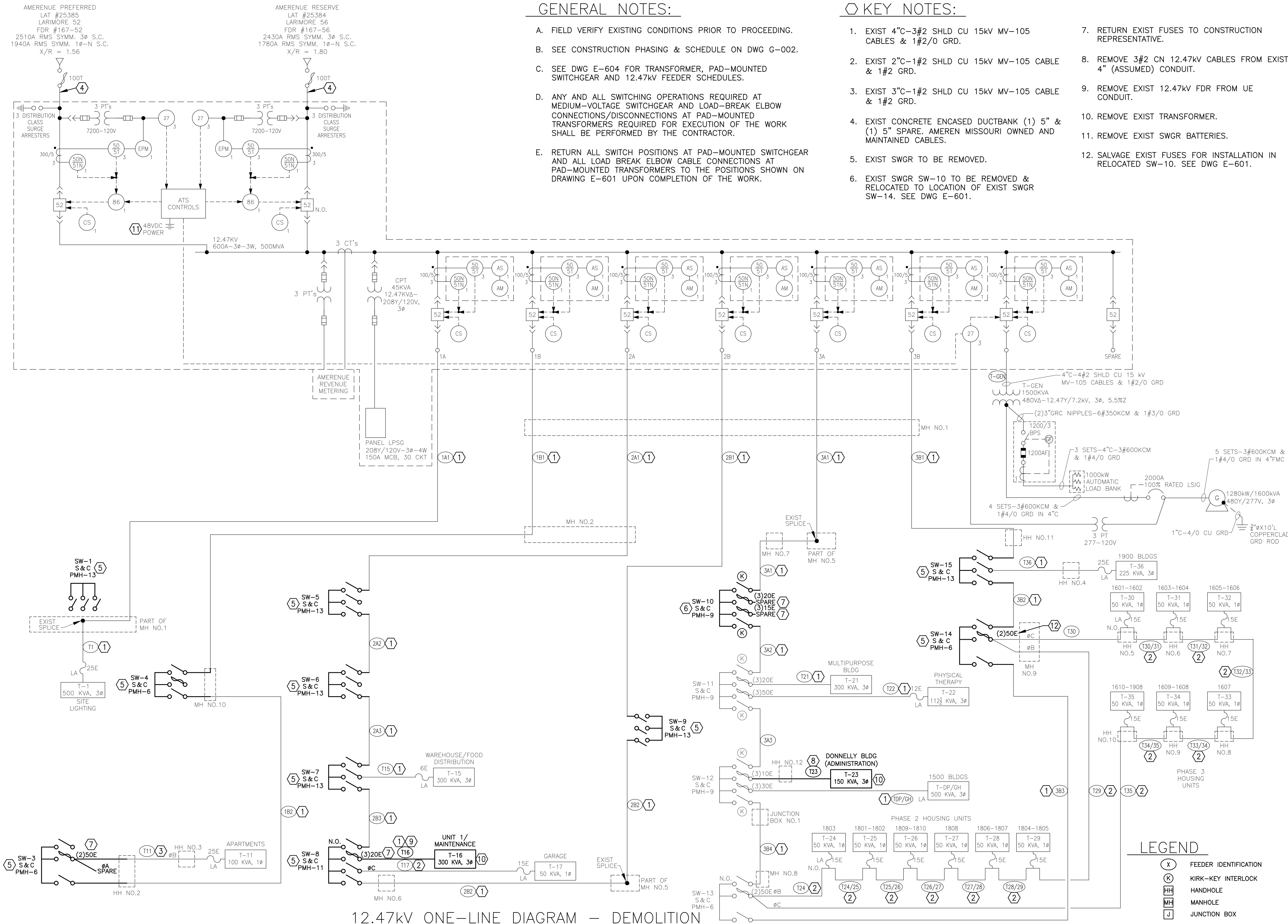


PLAN NORTH



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GENERAL NOTES:

- FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.
- SEE CONSTRUCTION PHASING & SCHEDULE ON DWG G-002.
- SEE DWG E-604 FOR TRANSFORMER, PAD-MOUNTED SWITCHGEAR AND 12.47kV FEEDER SCHEDULES.
- ANY AND ALL SWITCHING OPERATIONS REQUIRED AT MEDIUM-VOLTAGE SWITCHGEAR AND LOAD-BREAK ELBOW CONNECTIONS/DISCONNECTIONS AT PAD-MOUNTED TRANSFORMERS REQUIRED FOR EXECUTION OF THE WORK SHALL BE PERFORMED BY THE CONTRACTOR.
- RETURN ALL SWITCH POSITIONS AT PAD-MOUNTED SWITCHGEAR AND ALL LOAD BREAK CABLE CONNECTIONS AT PAD-MOUNTED TRANSFORMERS TO THE POSITIONS SHOWN ON DRAWING E-601 UPON COMPLETION OF THE WORK.

KEY NOTES:

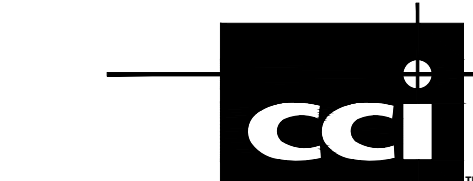
- EXIST 4"C-3#2 SHLD CU 15kV MV-105 CABLES & 1#2/O GRD.
- EXIST 2"C-1#2 SHLD CU 15kV MV-105 CABLE & 1#2 GRD.
- EXIST 3"C-1#2 SHLD CU 15kV MV-105 CABLE & 1#2 GRD.
- EXIST CONCRETE ENCASED DUCTBANK (1) 5" & (1) 5" SPARE. AMEREN MISSOURI OWNED AND MAINTAINED CABLES.
- EXIST SWGR TO BE REMOVED.
- EXIST SWGR SW-10 TO BE REMOVED & RELOCATED TO LOCATION OF EXIST SWGR SW-14. SEE DWG E-601.
- RETURN EXIST FUSES TO CONSTRUCTION REPRESENTATIVE.
- REMOVE 3#2 CN 12.47kV CABLES FROM EXIST 4" (ASSUMED) CONDUIT.
- REMOVE EXIST 12.47kV FDR FROM UE CONDUIT.
- REMOVE EXIST TRANSFORMER.
- REMOVE EXIST SWGR BATTERIES.
- SALVAGE EXIST FUSES FOR INSTALLATION IN RELOCATED SW-10. SEE DWG E-601.

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DEPARTMENT OF
MENTAL HEALTH

REPLACE FIRE ALARM
SYSTEM & ELECTRICAL
RENOVATION

BELLEVILLE
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10695 BELLEVILLE RD.
ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01
SITE # 7356
ASSET # 6517356071

REVISION:	
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REVISION:	
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ISSUE DATE: 02/10/2025

CAD DWG FILE: M2006-01-7356-
6517356071-ED-601.DWG
DRAWN BY: M.N.S.
CHECKED BY: B.D.F.
DESIGNED BY: B.D.F.

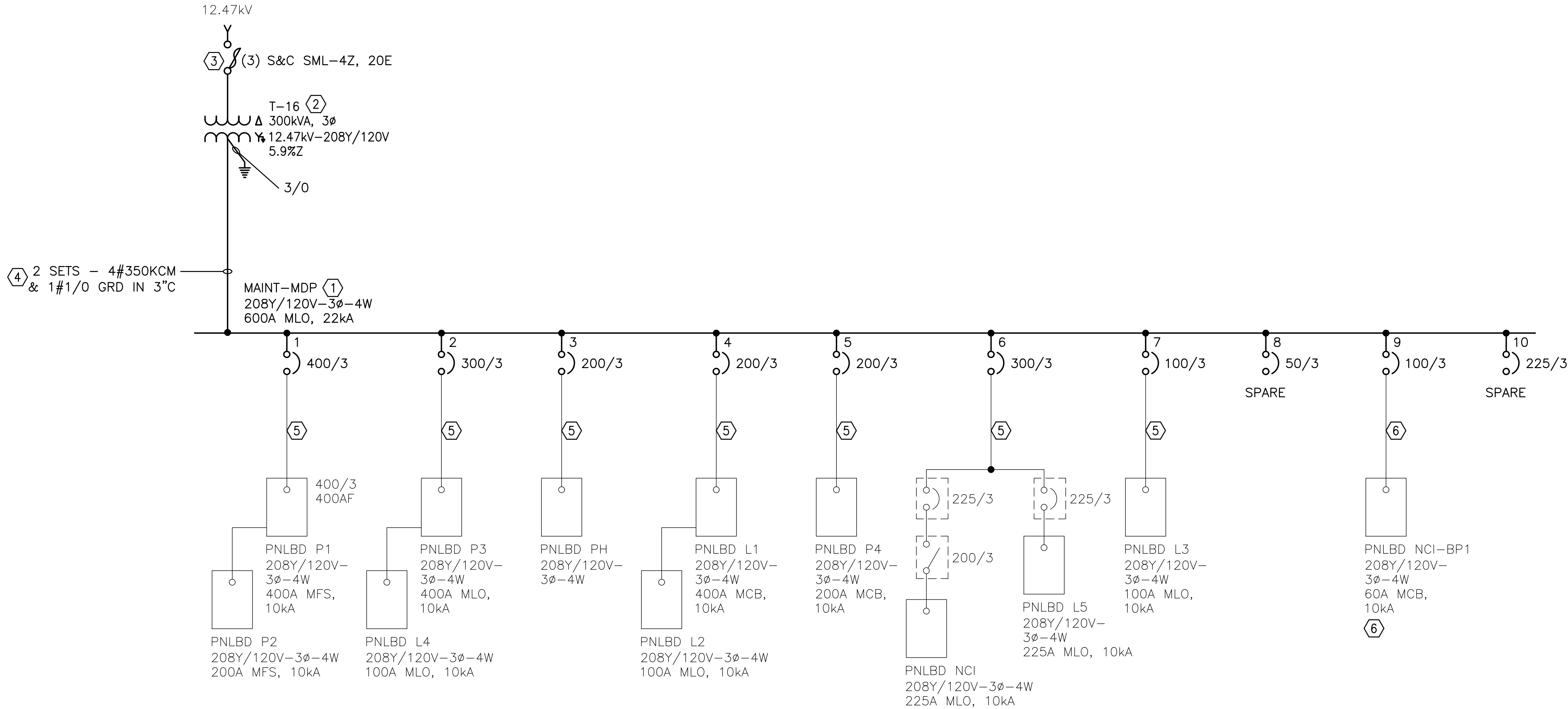
SHEET TITLE:
12.47kV ONE-LINE
DIAGRAM -
DEMOLITION

SHEET NUMBER:

ED-601

10 OF 45 SHEETS
FEBRUARY 10, 2025

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DEMOLITION ONE-LINE DIAGRAM — MAINTENANCE BUILDING

GENERAL NOTES:

- A. INFORMATION SHOWN ON THIS DWG FOR EXIST EQUIP WAS OBTAINED FROM OWNER'S RECORDS. ALL INFORMATION SHOWN MUST BE FIELD VERIFIED BY CONTRACTOR. INCLUDE ALL MISSING INFORMATION ON AS-BUILD DRAWINGS; FUSE SIZES, CONDUIT SIZES AND CONDUCTOR SIZES, INCLUDING EQUIP GRD CONDUCTORS.
- B. COORDINATE ALL WORK ON THIS DWG WITH THE WORK ON PROJECT M2307-01.

KEY NOTES:

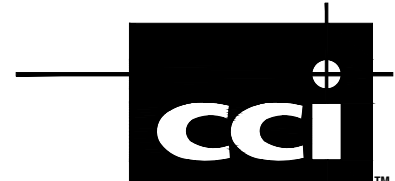
- 1. REMOVE EXIST PNLBD.
- 2. REMOVE EXIST XFMR.
- 3. PART OF S&C PAD-MTD SWGR. SEE DWG ED-601.
- 4. REMOVE EXIST CONDUIT AND WIRING.
- 5. PROTECT EXIST FDR CONDUITS AND WIRING FOR CONNECTION TO NEW PNLBD. SEE DWG E-602.
- 6. NIC: TO BE REMOVED BY OTHERS ON PROJECT M2307-01.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



BARRY D. FREINER
Registered Professional Engineer
MO # E-24220
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PROJECT # M2006-01

SITE # 7356

ASSET # 6517356014

REVISION:	
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ISSUE DATE: 02/10/2025

CAD DWG FILE: M2006-01-7356-
6517356071-ED-602.DWG
DRAWN BY: M.N.S
CHECKED BY: B.D.F
DESIGNED BY: B.D.F

SHEET TITLE:
DEMOLITION ONE-
LINE DIAGRAM -
MAINTENANCE
BUILDING

SHEET NUMBER:

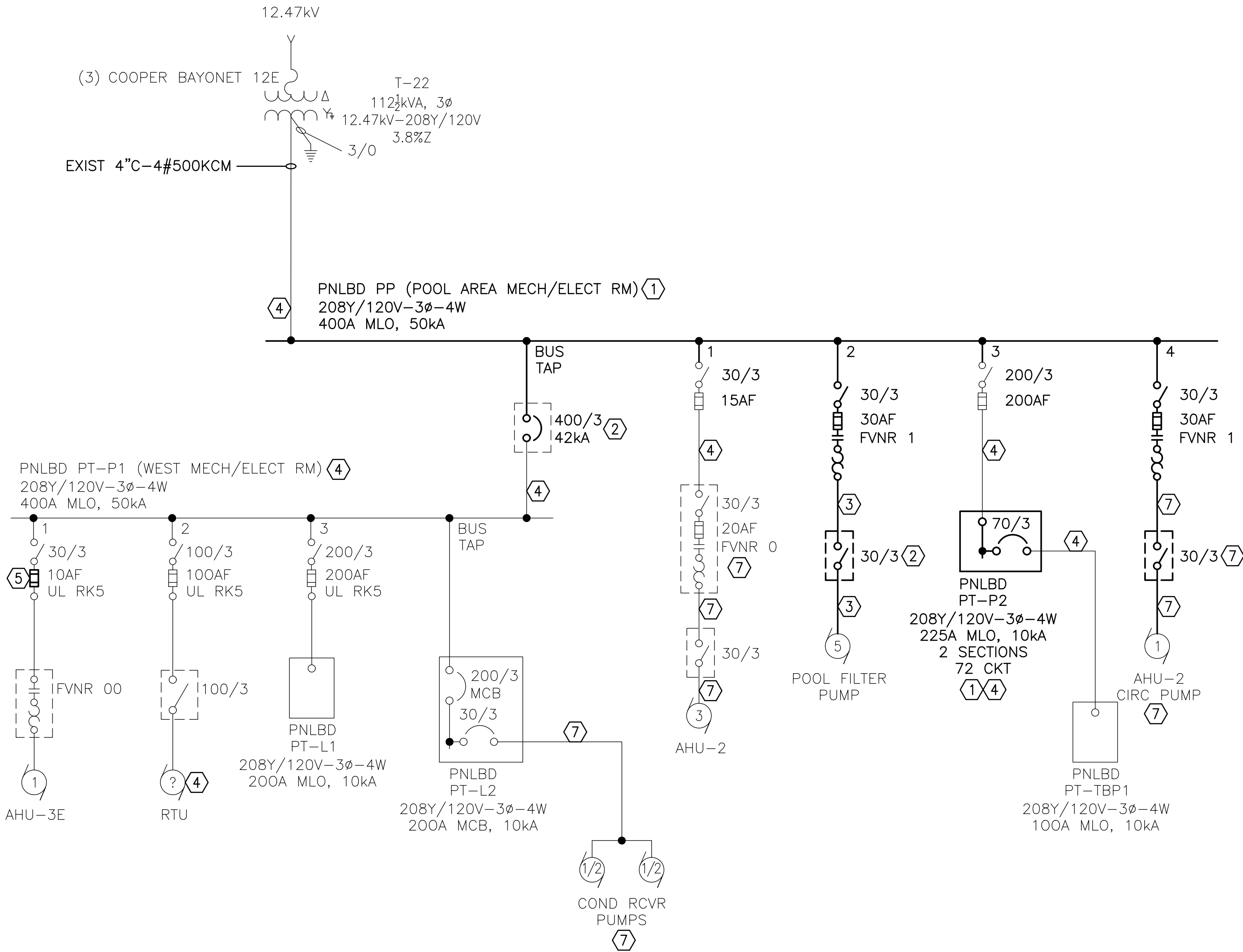
ED-602

GENERAL NOTES:

- A. INFORMATION SHOWN ON THIS DWG FOR EXIST EQUIP WAS OBTAINED FROM OWNER’S RECORDS. ALL INFORMATION SHOWN MUST BE FIELD VERIFIED BY CONTRACTOR. INCLUDE ALL MISSING INFORMATION ON AS-BUILD DRAWINGS; FUSE SIZES, CONDUIT SIZES AND CONDUCTOR SIZES, INCLUDING EQUIP GRD CONDUCTORS.
- B. ALL FUSES ARE UL CLASS R UNLESS NOTED OTHERWISE.
- C. COORDINATE ALL WORK ON THIS DWG WITH THE WORK BY OTHERS ON PROJECT M2307-01.

KEY NOTES:

- 1. REMOVE EXIST PNLBD.
- 2. REMOVE EXIST ENCL CB OR DISC SW.
- 3. REMOVE EXIST FDR CONDUIT AND WIRING.
- 4. PROTECT EXIST FDR CONDUIT AND WIRING FOR CONNECTION TO NEW PNLBD. SEE DWG E-603.
- 5. REMOVE EXIST FUSES.
- 6. FIELD VERIFY MOTOR HP AND INDICATE ON AS-BUILT DWGS.
- 7. NIC: TO BE REMOVED BY OTHERS ON PROJECT M2307-01.



DEMOLITION ONE-LINE DIAGRAM – PHYSICAL THERAPY BUILDING

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



BARRY D. FREINER
Registered Professional Engineer
MO # E-24220
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REPLACE FIRE ALARM
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RENOVATION

BELLEFONTAINE
HABILITATION CENTER
10695 BELLEFONTAINE RD.
ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01

SITE # 7356

ASSET # 6517356017

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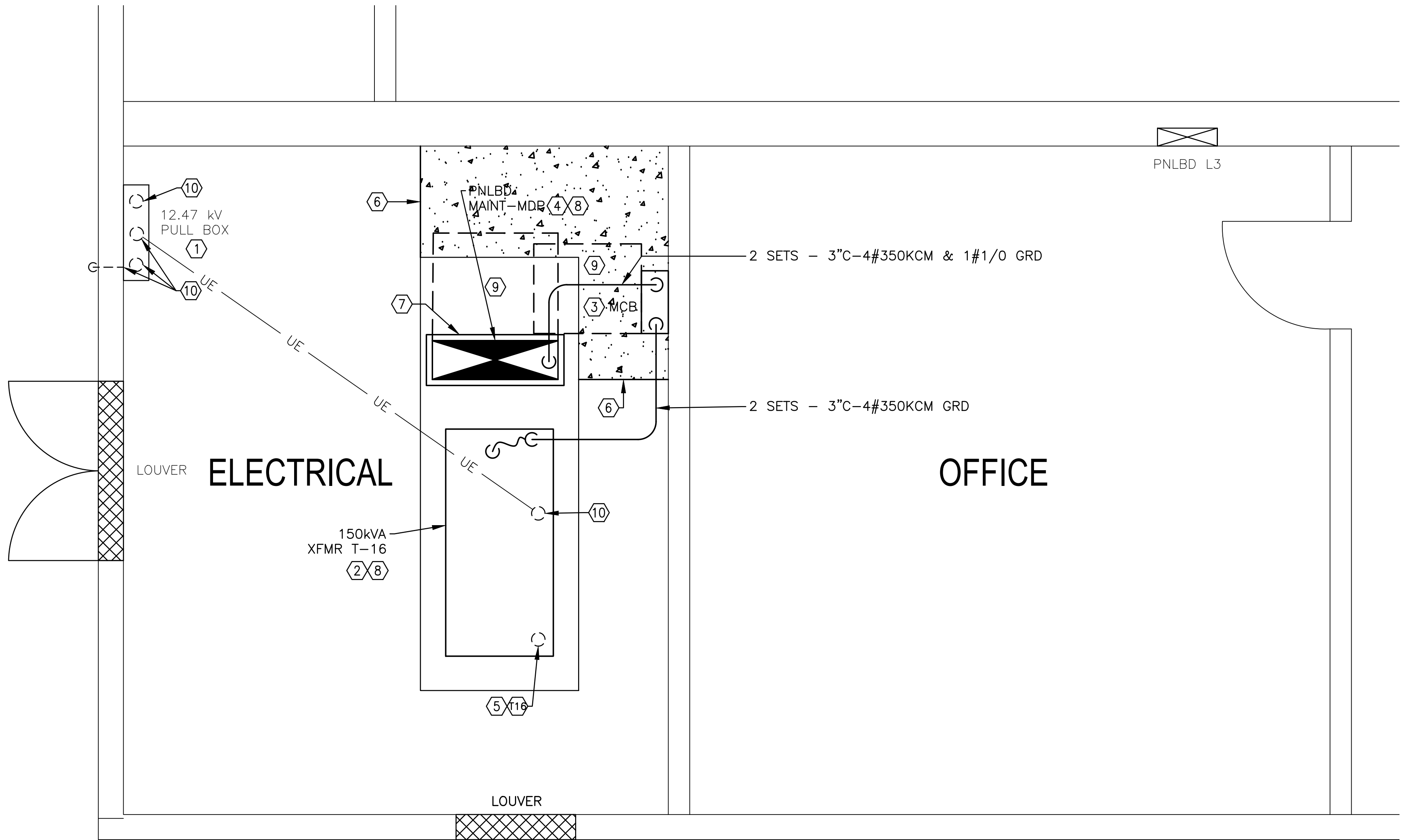
ISSUE DATE: 02/10/2025

CAD DWG FILE: M2006-01-7356-
6517356071-ED-603.DWG
DRAWN BY: M.N.S
CHECKED BY: B.D.F
DESIGNED BY: B.D.F

SHEET TITLE:
DEMOLITION ONE-
LINE DIAGRAM -
PHYSICAL THERAPY
BUILDING

SHEET NUMBER:

ED-603



MAINTENANCE BUILDING ELECTRICAL PLAN
SCALE: 1/2" = 1'-0"

GENERAL NOTES:

- A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.
- B. SEE DWGS E-601 & E-604 FOR MV FDR & XFMR INFORMATION.
- C. SEE DWG E-602 FOR 208V ONE-LINE DIAGRAM.
- D. COORDINATE ALL WORK ON THIS DWG WITH THE WORK BY OTHERS ON PROJECT M2307-01.

KEY NOTES:

- 1. REINSTALL EXIST COVER ON EMPTY PULL BOX.
- 2. PROVIDE NEW DRY-TYPE MV XFMR PER SPECIFICATION SECTION 261216.
- 3. PROVIDE NEW ENCL MCB PER SPECIFICATION SECTION 262816.13. MOUNT TO WALL USING EXTERNAL MTG TABS ON ENCL.
- 4. PROVIDE NEW PNLBD PER SPECIFICATION SECTION 262416.
- 5. PROVIDE NEW 12.47kV FDR T16 IN EXIST 4" CONDUIT, SEE DWGS ED-401, E-601 & E-604.
- 6. EXTEND EXIST CONC HOUSEKEEPING PAD PER SPECIFICATION 260500 AS SHOWN. MATCH HEIGHT OF EXIST CONC. PROVIDE BOND BREAKER AT CONC TO WALL INTERFACES. PROVIDE 1" CHAMFERED TOP EDGE ON EXPOSED SIDES OF NEW CONC.
- 7. PROVIDE 3 1/2"H CONC HOUSEKEEPING PAD 2" LARGER THAN PNLBD ENCL ALL AROUND PER SPECIFICATION SECTION 260500.
- 8. BOLT THRU HOUSEKEEPING PAD TO FLOOR BELOW AND PROVIDE U-CHANNEL SUPPORT BRACING TO ADJACENT WALLS, IF REQD BY EQUIP MANUFACTURER'S SEISMIC INSTALLATION INSTRUCTIONS.
- 9. NEC 110.26 REQD CLEAR WORKING SPACE, 3'-0" DEEP BY GREATER OF 30" WIDE OR WIDTH OF EQUIP ENCL.
- 10. PROVIDE DUCT PLUG IN EXIST CONDUIT.

TRUE NORTH

PLAN NORTH

0

1'

4'

SCALE IN FEET

1/2" = 1'-0"

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



BARRY D. FREINER
Registered Professional Engineer
MO # E-24220
Expires 12-31-2026

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OF AUTHORITY #000408



OFFICE OF ADMINISTRATION
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DEPARTMENT OF
MENTAL HEALTH

REPLACE FIRE ALARM
SYSTEM & ELECTRICAL
RENOVATION

BELLEFONTAINE
HABILITATION CENTER
10695 BELLEFONTAINE RD.
ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01
SITE # 7356
ASSET # 6517356014

REVISION:	
DATE:	
REVISION:	
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ISSUE DATE: 02/10/2025

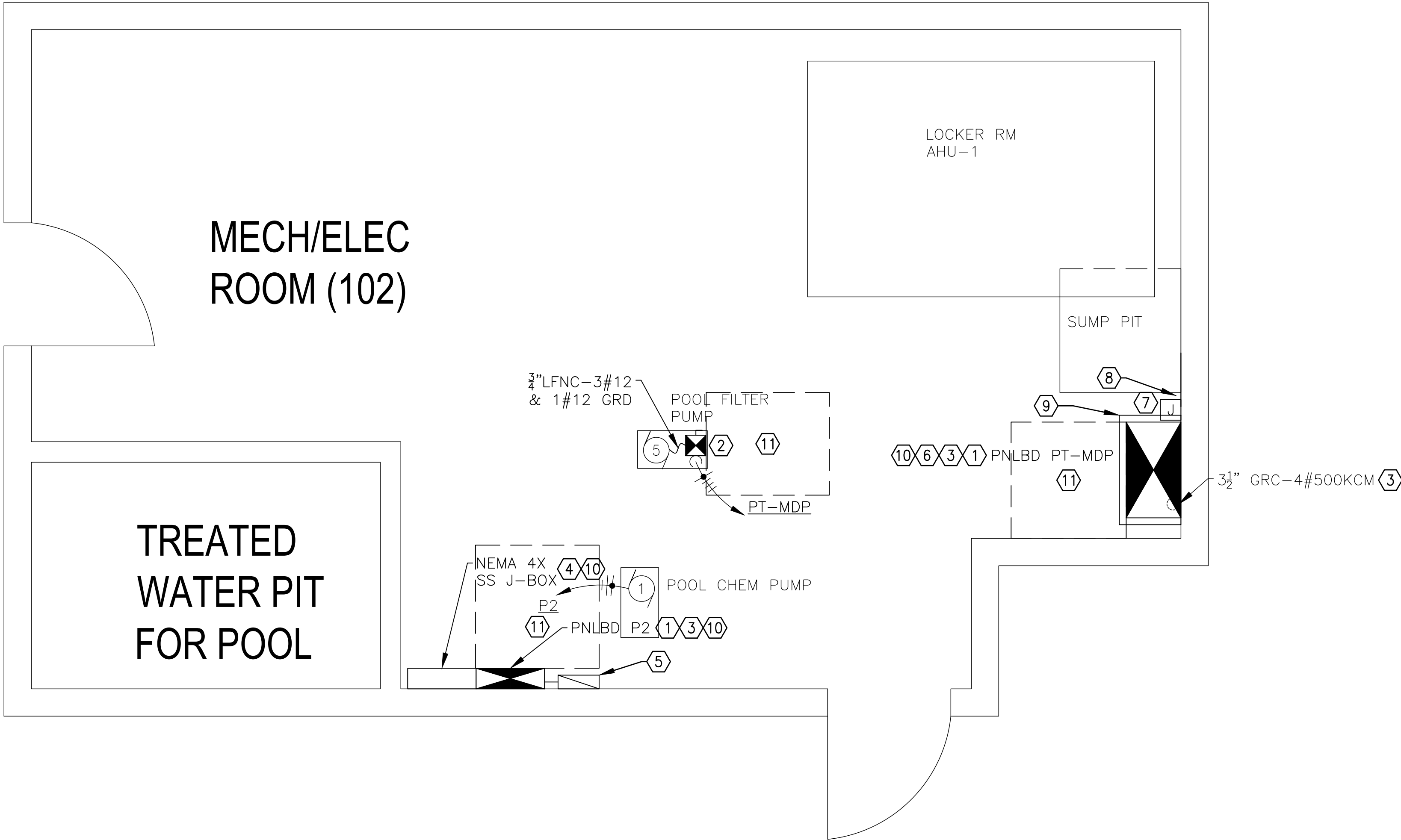
CAD DWG FILE: M2006-01-7356-6517356071-E-401.DWG
DRAWN BY: K E T / M N S
CHECKED BY: B D F
DESIGNED BY: B D F

SHEET TITLE:
MAINTENANCE
BUILDING
ELECTRICAL PLAN

SHEET NUMBER:
E-401

13 OF 45 SHEETS
FEBRUARY 10, 2025

ROGERS-SCHMIDT ENGINEERING CO., P.C. © 2025



PHYSICAL THERAPY BUILDING ELECTRICAL PLAN
SCALE: 1/2" = 1'-0"

GENERAL NOTES:

- A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.
- B. ALL NEW ELECTRICAL EQUIP ENCLOSURES, JUNCTION & PULL BOXES, CONDUIT HUBS, U-CHANNEL SUPPORTS, CONDUIT CLAMPS & FASTENING HARDWARE IN THIS ROOM SHALL BE TYPE 304 OR 316 STAINLESS STEEL.
- C. ALL NEW CONDUIT IN THIS ROOM SHALL BE SCHEDULE 40 (HEAVYWALL) GALVANIZED RIGID STEEL (GRC).
- D. SEE DWG E-603 FOR 208V ONE-LINE DIAGRAM.
- E. MTG OF ALL NEMA 4X RATED EQUIP ENCL AND J-BOXES MUST USE EXTERNAL TABS PROVIDED AT EACH CORNER OF THE ENCL. DRILLING MTG HOLES ANYWHERE IN THE ENCL WILL VOID THE NEMA RATING & UL LISTING AND WILL REQUIRE REPLACEMENT OF THE ENCL.
- F. COORDINATE ALL WORK IN THIS DWG WITH THE WORK BY OTHERS ON PROJECT M2307-01.

KEY NOTES:

1. PROVIDE NEW PNLBD PER SPECIFICATION SECTION 262416.
2. PROVIDE NEW NEMA SIZE 1 FVNR COMB MS PER SPECIFICATION SECTION 262913.13. MOUNT ON SS U-CHANNEL SUPPORT STAND.
3. RETERMINATE EXIST CONDUIT(S) & CONDUCTORS IN NEW PNLBD.
4. PROVIDE UL LISTED NEMA 4X TYPE 304 SS J-BOX OF SAME DIMENSIONS AS PNLBD THAT WAS REMOVED. SEE DWG ED-402. SPLICE EXIST CONDUCTORS AND EXTEND INTO NEW PNLBD P2.
5. INSTALL EXIST LTG CONTACTOR, REMOVED PER DWG ED-402, IN NEW TYPE 304 SS HINGED DOOR ENCL WITH SS INNER BACKPANEL. ENCL SIZE TO MATCH ORIGINAL ENCL. PROVIDE NEW 3/4"GRC NIPPLE WITH SS CONDUIT HUBS BETWEEN THE NEW ENCL FOR EXIST WIRING.
6. EXTEND EXIST CNTRL WIRING FROM MOTOR STARTER IN EXIST MS PANEL PP, REMOVED PER DWG ED-402, TO THE NEW COMB MS INSTALLED PER THIS DWG.
7. IF THE 120VAC CKT CONNECTED TO LOAD SIDE OF THE 30A/2P DISC SW REMOVED ON DWG ED-402 IS ACTIVE, INSTALL A SINGLE GANG CAST TYPE FS BOX WITH BLANK COVER JUST ABOVE THE FLOOR ON THE EXIST CONDUIT AS A SPLICE BOX, PROVIDE 3/4"GRC-2#12 & 1#12 GRD TO PNLBD P2 & TERMINATE ON A SPARE 20A/1P CB.
8. OWNER TO REPLACE EXIST VALVE ON MAIN WATER SUPPLY LINE JUST ABOVE THE FLOOR WITH OPERATOR ORIENTED APPROX 110 DEG CW OF PLAN SOUTH TO ELIMINATE INTERFERENCE WITH NEW PNLBD PT-MDP.
9. PROVIDE 3 1/4"H CONC HOUSEKEEPING PAD 2" LARGER THAN PNLBD ENCL ON BOTH SIDES & FRONT PER SPECIFICATION SECTION 260500.
10. MOUNT PNLBD OR J-BOX TO WALL USING EXTERNAL MTG TABS ON ENCL AT ALL (4) CORNERS.
11. NEC 110.26 REQD WORKING SPACE, 3'-0" DEEP BY THE GREATER OF 30" WIDE OR WIDTH OF EQUIP ENCL(S).



STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



BARRY D. FREINER
Registered Professional Engineer
MO # E-24220
Expires 12-31-2026

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OF AUTHORITY #000408



OFFICE OF ADMINISTRATION
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MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
MENTAL HEALTH

REPLACE FIRE ALARM
SYSTEM & ELECTRICAL
RENOVATION

BELLEFONTAINE
HABILITATION CENTER
10695 BELLEFONTAINE RD.
ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01
SITE # 7356
ASSET # 6517356017

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
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REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 02/10/2025

CAD DWG FILE: M2006-01-7356-
6517356017-E-401.DWG
DRAWN BY: K E T / M N S
CHECKED BY: B D F
DESIGNED BY: B D F

SHEET TITLE:
PHYSICAL THERAPY
BUILDING
ELECTRICAL PLAN

SHEET NUMBER:

E-402

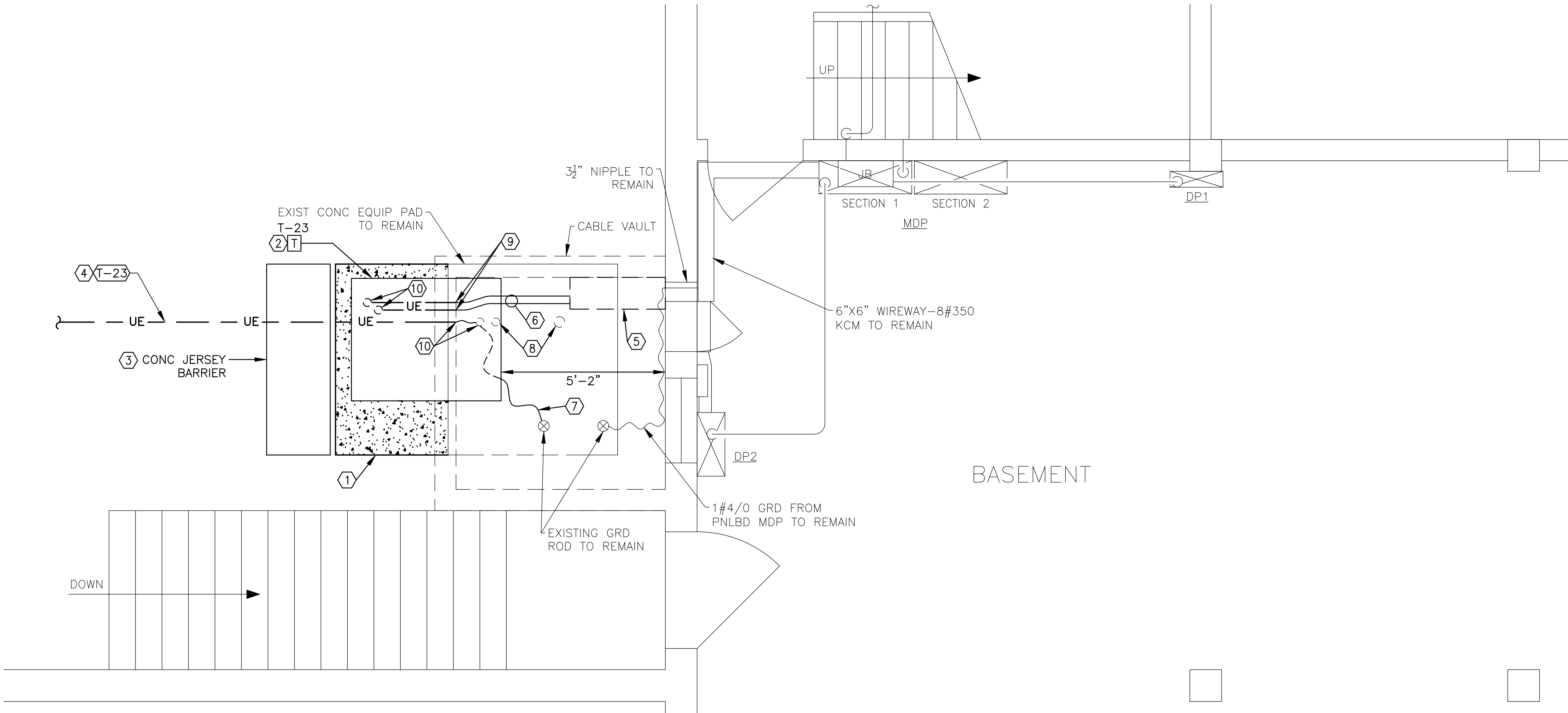
14 OF 45 SHEETS
FEBRUARY 10, 2025

GENERAL NOTES:

- A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.
- B. SEE DWGS E-601 & E-604 FOR MV FDR & XFMR INFORMATION.
- C. MTG OF ALL NEMA 4X RATED J-BOXES & WIREWAYS MUST USE EXTERNAL TABS PROVIDED AT EACH CORNER OF THE ENCL. DRILLING MTG HOLES ANYWHERE IN THE ENCL WILL VOID THE NEMA RATING & UL LISTING AND WILL REQUIRE REPLACEMENT OF THE ENCL.

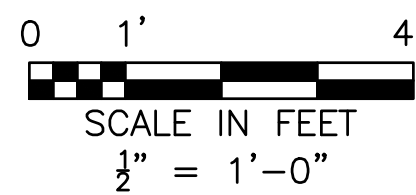
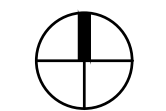
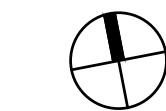
KEY NOTES:

1. EXTEND EXIST CONC. HOUSEKEEPING PAD PER SPECIFICATION 260500 AS SHOWN. MATCH HEIGHT OF EXIST CONC. PROVIDE 1" CHAMFERED TOP EDGE ON EXPOSED SIDES OF NEW CONC.
2. PROVIDE NEW 150kVA XFMR PER SPECIFICATION SECTION 261219.
3. REINSTALL EXIST JERSEY BARRIER. SEE DWG ED-403.
4. PROVIDE NEW FDR CABLES IN EXIST 4"C TO SW-12. SEE DWG ES-101.
5. PROVIDE 12"x12"x36" NEMA 4X SS WIREWAY PER SPECIFICATION SECTION 260533.16. CONNECT EXIST 3/4" NIPPLE TO EAST END. SPLICE SE CONDUCTORS INSIDE WW USING NEC 230.46 COMPLIANT SPLICE CONNECTORS.
6. PROVIDE (2) 3"GRC FROM WEST END OF WW TO SECONDARY COMPARTMENT OF XFMR.
7. PROVIDE 1#4/0 CU GRD TO XFMR.
8. PROVIDE DUCT PLUG ON VAULT SIDE OF CONDUIT. CUT OFF CONDUIT FLUSH WITH SURFACE OF CONCRETE. PAD AND FILL WITH NON-SHRINK EPOXY GROUT.
9. PROVIDE EXTERNAL CONDUIT SEALING BUSHINGS PER SPECIFICATION SECTION 260533.13.
10. PROVIDE INTERNAL CONDUIT SEALING BUSHING PER SPECIFICATION SECTION 260533.13.



DONNELLY BUILDING ELECTRICAL PLAN

SCALE: 1/2" = 1'-0"



BARRY D. FREINER
Registered Professional Engineer
MO # E-24220
Expires 12-31-2026

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DEPARTMENT OF
MENTAL HEALTH

REPLACE FIRE ALARM SYSTEM & ELECTRICAL RENOVATION

BELLEFONTAINE
HABILITATION CENTER
10695 BELLEFONTAINE RD.
ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01

SITE # 7356

ASSET # 6517356069

REVISION:

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DATE: _____
ISSUE DATE: _____

ISSUE DATE: 02/10/2025

CAD DWG FILE: M2006-01-7356-6517356071-E-403.DWG

DRAWN BY: KET/MNS

CHECKED BY: B D F
DESIGNED BY: B D F

DESIGNED BY: BDT

SHEET TITLE:

DONNELLY

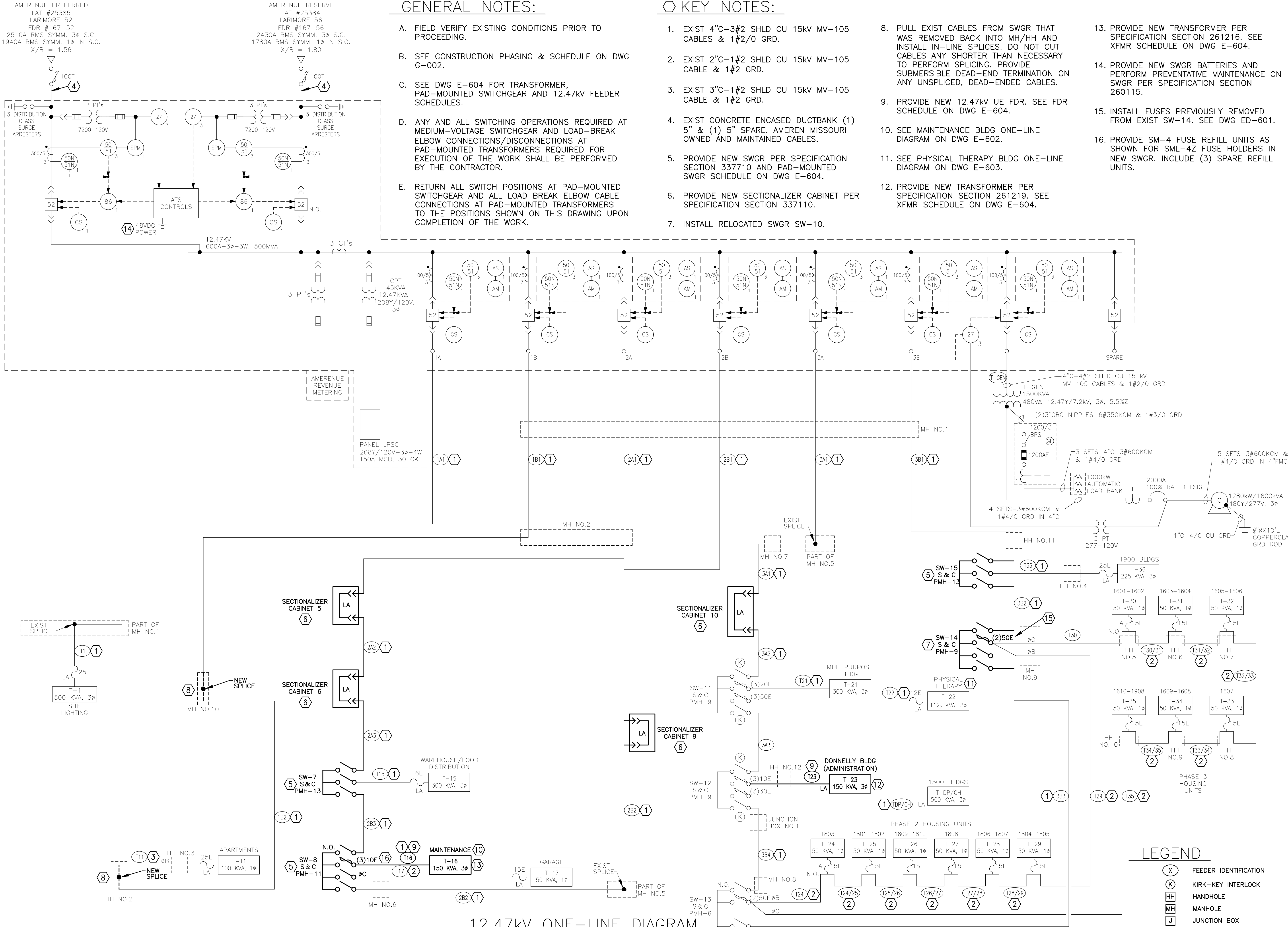
BUILDING

ELECTRICAL PLAN

SHEET NUMBER:

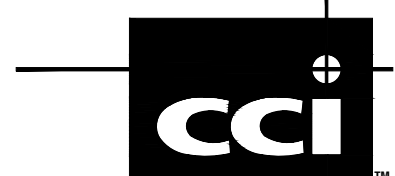
E-403

15 OF 45 SHEETS
FEBRUARY 10, 2025



BARRY D. FREINER
Registered Professional Engineer
MO # E-24220
Expires 12-31-2026

ROGERS-SCHMIDT
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BELLEFONTAINE
HABILITATION CENTER
10695 BELLEFONTAINE RD.
ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01
SITE # 7356
ASSET # 6517356071

REVISION: _____
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ISSUE DATE: 02/10/2025

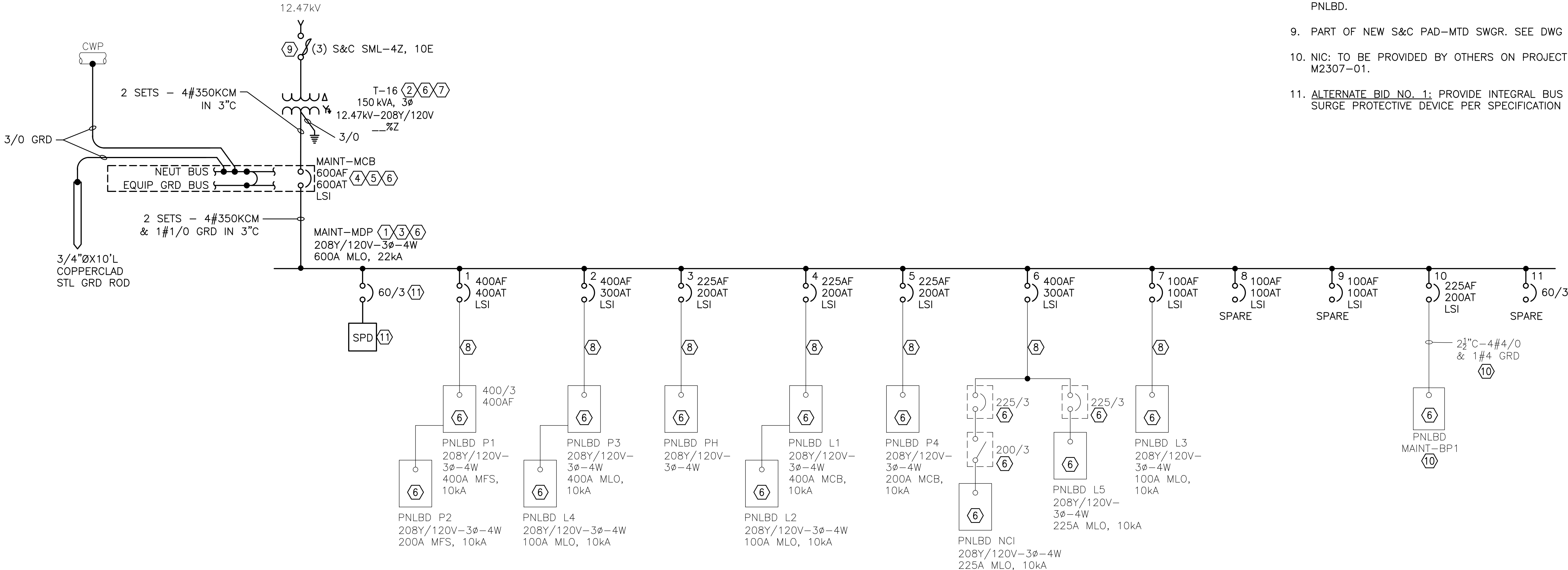
CAD DWG FILE: M2006-01-7356-
6517356071-E-601.DWG
DRAWN BY: M.N.S.
CHECKED BY: B.D.F.
DESIGNED BY: B.D.F.

SHEET TITLE:
12.47 kV ONE-LINE
DIAGRAM

SHEET NUMBER:

E-601

17 OF 45 SHEETS
FEBRUARY 10, 2025



ONE-LINE DIAGRAM - MAINTENANCE BUILDING

GENERAL NOTES:

- A. INFORMATION SHOWN ON THIS DWG FOR EXIST EQUIP WAS OBTAINED FROM OWNER'S RECORDS. ALL INFORMATION SHOWN MUST BE FIELD VERIFIED BY CONTRACTOR. INCLUDE ALL MISSING INFORMATION ON AS-BUILD DRAWINGS; FUSE SIZES, CONDUIT SIZES AND CONDUCTOR SIZES, INCLUDING EQUIP GRD CONDUCTORS.
- B. COORDINATE ALL WORK ON THIS SHEET WITH THE WORK ON PROJECT M2307-01.

KEY NOTES:

- 1. REPLACE EXIST PNLBD WITH NEW PNLBD PER SPECIFICATION 262416.
- 2. REPLACE EXIST XFMR WITH NEW XFMR PER SPECIFICATION 261216.
- 3. PROVIDE ENGRAVED LAMINATED PLASTIC NAMEPLATE PER SPECIFICATION 260553:

MAINT-MDP
208Y/120V-3Ø-4W
SERVED FROM 600A MCB
IN THIS ROOM

- 4. PROVIDE NEW MAIN CIRCUIT BREAKER IN TYPE 12 ENCL PER SPECIFICATION 262816.13.
- 5. PROVIDE ENGRAVED LAMINATED PLASTIC NAMEPLATE PER SPECIFICATION 260553:

MAINT-MCB
208Y/120V-3Ø-4W
SERVED FROM XFMR T-16
IN THIS ROOM

- 6. PROVIDE ARC FLASH HAZARD WARNING LABEL ON INDICATED EQUIP AND ALL LOAD CONNECTED EQUIP PER SPECIFICATIONS 260553 & 260573.
- 7. PROVIDE ENGRAVED LAMINATED PLASTIC NAMEPLATE PER SPECIFICATION 260553:

T-16

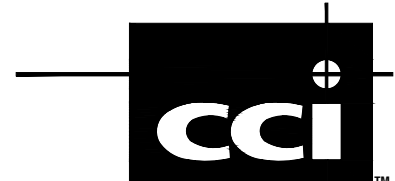
- 8. RECONNECT EXIST FDR CONDUIT AND WIRING TO NEW PNLBD.
- 9. PART OF NEW S&C PAD-MTD SWGR. SEE DWG E-601.
- 10. NIC: TO BE PROVIDED BY OTHERS ON PROJECT M2307-01.
- 11. ALTERNATE BID NO. 1: PROVIDE INTEGRAL BUS MOUNTED SURGE PROTECTIVE DEVICE PER SPECIFICATION 262416.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



BARRY D. FREINER
Registered Professional Engineer
MO # E-24220
Expires 12-31-2026

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RENOVATION

BELLEFONTAINE
HABILITATION CENTER
10695 BELLEFONTAINE RD.
ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01

SITE # 7356

ASSET # 6517356014

REVISION:	
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ISSUE DATE: 02/10/2025

CAD DWG FILE: M2006-01-7356-
6517356071-E-602.DWG
DRAWN BY: M.N.S
CHECKED BY: B.D.F
DESIGNED BY: B.D.F

SHEET TITLE:
ONE-LINE
DIAGRAM -
MAINTENANCE
BUILDING

SHEET NUMBER:

E-602

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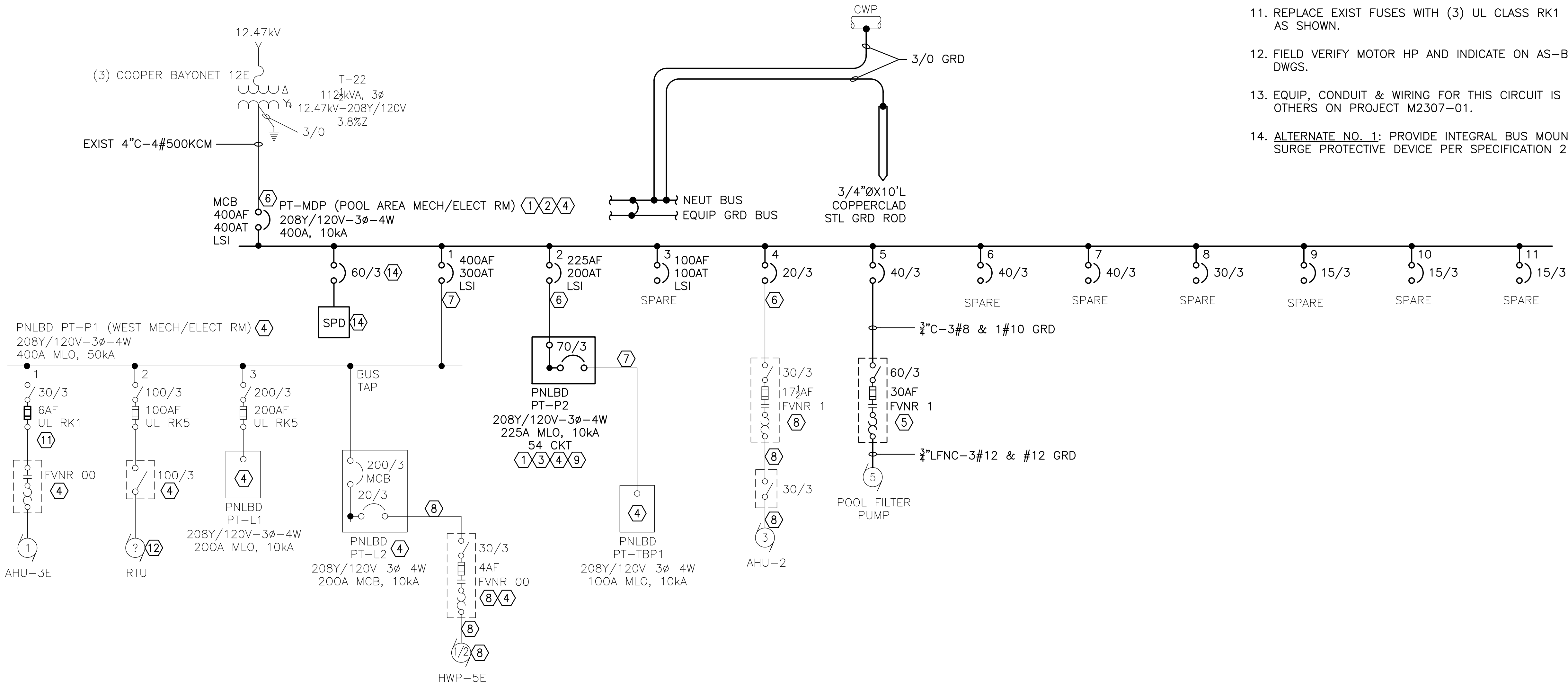
NEW PANELBOARD PT-P2 SCHEDULE (PHYSICAL THERAPY POOL MECH/ELEC RM 102) 10													
CKT NO	AMPS	POLES	LOAD	VOLT-AMPERES			VOLT-AMPERES			LOAD	POLES	AMPS	CKT NO
				ØA	ØB	ØC	ØA	ØB	ØC				
1	40	3	HWP-5A (BOILER RM 104)	3700			6000			PANELBOARD PT-TBP1 (BOILER RM 104)	3	70	2
3					3700				6000				4
5						3700			6000				6
7	40	3	HWP-5B (BOILER RM 104)	3700			420			AHU-1	3	15	8
9					3700		420						10
11						3700			420				12
13	15	3	HWP-5C	552			2500			EHU-B (BOILER RM 104)	3	30	14
15					552		2500						16
17						552			2500				18
19	15	3	HWP-5D	552						UNKNOWN LOAD	2	20	20
21					552								22
23						552							24
25	15	3	HWP-5F	552						UNKNOWN LOAD	1	20	26
27					552								28
29						552							30
31	20	1	UNKNOWN LOAD							UNKNOWN LOAD	1	20	32
33	20	1	UNKNOWN LOAD							UNKNOWN LOAD	1	20	34
35	20	1	UNKNOWN LOAD							UNKNOWN LOAD	1	20	36
37	20	1	UNKNOWN LOAD							UNKNOWN LOAD	1	20	38
39	20	1	UNKNOWN LOAD							UNKNOWN LOAD	1	20	40
41	20	1	UNKNOWN LOAD							UNKNOWN LOAD	1	20	42
43	20	1	UNKNOWN LOAD							UNKNOWN LOAD	1	20	44
45	20	1	UNKNOWN LOAD						-	SPARE	1	20	46
47	20	1	SPARE			-			-	SPARE	1	20	48
49	20	1	SPARE	-			-			SPARE	1	20	50
51	20	1	SPARE		-			-		SPARE	1	20	52
53	15	1	SPARE			-			-	SPARE	1	15	54
225 AMP MLO, 208Y/120V-3Ø-4W, 54 CKT, 10kA				9056	9056	9056	8920	8920	8920	TOTAL VOLT AMPERES =		53928	

GENERAL NOTES:

- A. INFORMATION SHOWN ON THIS DWG FOR EXIST EQUIP WAS OBTAINED FROM OWNER'S RECORDS. ALL INFORMATION SHOWN MUST BE FIELD VERIFIED BY CONTRACTOR. INCLUDE ALL MISSING INFORMATION ON AS-BUILD DRAWINGS; FUSE SIZES, CONDUIT SIZES AND CONDUCTOR SIZES, INCLUDING EQUIP GRD CONDUCTORS.
- B. ALL FUSES ARE UL CLASS J UNLESS NOTED OTHERWISE.
- C. COORDINATE ALL WORK ON THIS SHEET WITH THE WORK BY OTHERS ON PROJECT M2307-01.

KEY NOTES:

1. REPLACE EXIST PNLBD WITH NEW PNLBD PER SPECIFICATION 262416.
2. PROVIDE ENGRAVED LAMINATED PLASTIC NAMEPLATE PER SPECIFICATION 260553:
- PT-MDP
208Y/120V-3Ø-4W
SERVED FROM XRM R T-22
OUTSIDE
3. PROVIDE ENGRAVED LAMINATED PLASTIC NAMEPLATE PER SPECIFICATION 260553:
- PT-P2
208Y/120V-3Ø-4W
SERVED FROM PNLBD PT-MDP
IN THIS ROOM
4. PROVIDE ARC FLASH HAZARD WARNING LABEL ON INDICATED EQUIP AND ALL LOAD CONNECTED EQUIP PER SPECIFICATIONS 260553 & 260573.
5. PROVIDE NEW COMB MS IN NEMA 4X SS ENCL PER SPECIFICATION 262913.13.
6. RECONNECT EXIST FDR CONDUIT AND WIRING TO NEW PNLBD.
7. REWORK EXIST FDR CONDUIT AND WIRING INTO NEW PNLBD.
8. NIC: TO BE PROVIDED BY OTHERS ON PROJECT M2307-01.
9. SEE PNLBD SCHEDULE ON THIS SHEET.
10. PROVIDE UPDATED TYPEWRITTEN PNLBD CIRCUIT DIRECTORY FOR PNLBD PT-P2 PER SPECIFICATION SECTION 260553 WITH THE LOAD(S) SERVED BY EACH CIRCUIT IDENTIFIED PER NEC 408.4(A). TRACE ALL UNKNOWN CKTS.
11. REPLACE EXIST FUSES WITH (3) UL CLASS RK1 FUSES AS SHOWN.
12. FIELD VERIFY MOTOR HP AND INDICATE ON AS-BUILT DWGS.
13. EQUIP, CONDUIT & WIRING FOR THIS CIRCUIT IS BY OTHERS ON PROJECT M2307-01.
14. ~~ALTERNATE NO. 1:~~ PROVIDE INTEGRAL BUS MOUNTED SURGE PROTECTIVE DEVICE PER SPECIFICATION 262416.



ONE-LINE DIAGRAM – PHYSICAL THERAPY BUILDING

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



BARRY D. FREINER
Registered Professional Engineer
MO # E-24220
Expires 12-31-2026

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RENOVATION

BELLEVILLE
HABILITATION CENTER
10695 BELLEVILLE RD.
ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01
SITE # 7356
ASSET # 6517356017

REVISION: _____
DATE: _____
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DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 02/10/2025

CAD DWG FILE: M2006-01-7356-
6517356017-E-603.DWG
DRAWN BY: M.N.S.
CHECKED BY: B.D.F.
DESIGNED BY: B.D.F.

SHEET TITLE:
ONE-LINE
DIAGRAM -
PHYSICAL THERAPY
BUILDING

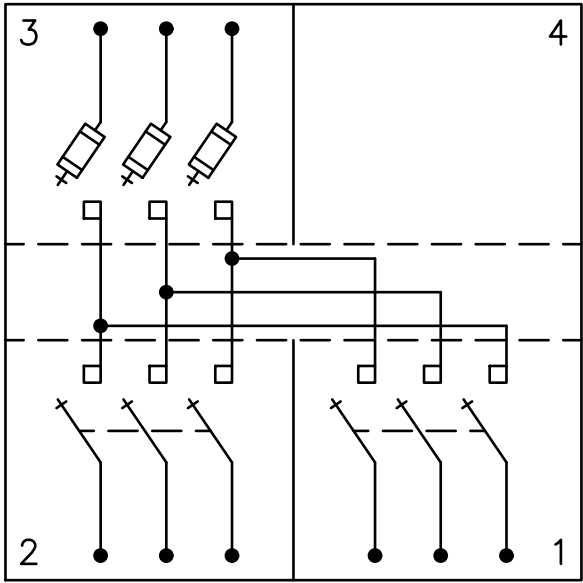
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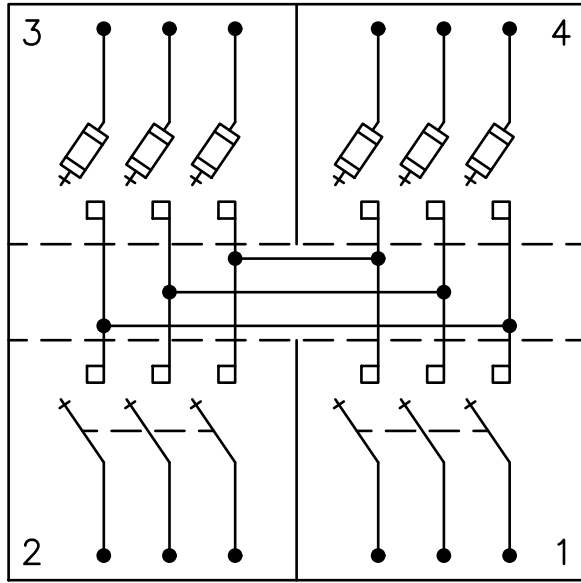
19 OF 45 SHEETS
FEBRUARY 10, 2025

TRANSFORMER SCHEDULE							
TRANSFORMER NUMBER	SIZE (KVA)	PHASE	HIGH VOLTAGE CONNECTION	LOW VOLTAGE CONNECTION	TYPE	BUILDING(S) SERVED	NOTES
T-1	500	3	12,470VΔ	480Y/277V	DEAD FRONT, OIL FILLED, PAD-MOUNT	SITE LIGHTING	USED TRANSFORMER INSTALLED 2014
T-11	100	1	12,470GRDY/7200V	120/240V	DEAD FRONT, OIL FILLED, PAD-MOUNT	APARTMENTS	TRANSFORMER INSTALLED 2005
T-15	300	3	12,470VΔ	208Y/120V	DEAD FRONT, OIL FILLED, PAD-MOUNT	WAREHOUSE/FOOD DISTRIBUTION	USED TRANSFORMER INSTALLED 2014
⑦ T-16	300	3	12,470VΔ	208Y/120V	DRY TYPE, INDOOR	MAINTENANCE	TRANSFORMER INSTALLED 1970
T-17	50	1	12,470GRDY/7200V	120/240V	DEAD FRONT, OIL FILLED, PAD-MOUNT	GARAGE	TRANSFORMER INSTALLED 2005
T-21	300	3	12,470VΔ	208Y/120V	DEAD FRONT, OIL FILLED, PAD-MOUNT	MULTIPURPOSE	TRANSFORMER INSTALLED 7/19/02
T-22	112½	3	12,470VΔ	208Y/120V	DEAD FRONT, OIL FILLED, PAD-MOUNT	PHYSICAL THERAPY	TRANSFORMER INSTALLED 2005
⑥ T-23	150	3	12,470VΔ	208Y/120V	DEAD FRONT, OIL FILLED, PAD-MOUNT	DONNELLY/ADMINISTRATION	TRANSFORMER INSTALLED 1990
T-DP/GH	500	3	12,470VΔ	208Y/120V	DEAD FRONT, OIL FILLED, PAD-MOUNT	1500 HOUSING UNITS	TRANSFORMER INSTALLED 2012
T-24	50	1	12,470GRDY/7200V	120/240V	DEAD FRONT, OIL FILLED, PAD-MOUNT	HOUSING UNIT 1803	TRANSFORMER INSTALLED 2005
T-25	50	1	12,470GRDY/7200V	120/240V	DEAD FRONT, OIL FILLED, PAD-MOUNT	HOUSING UNITS 1801, 1802	TRANSFORMER INSTALLED 2005
T-26	50	1	12,470GRDY/7200V	120/240V	DEAD FRONT, OIL FILLED, PAD-MOUNT	HOUSING UNITS 1809, 1810	TRANSFORMER INSTALLED 2005
T-27	50	1	12,470GRDY/7200V	120/240V	DEAD FRONT, OIL FILLED, PAD-MOUNT	HOUSING UNIT 1808	TRANSFORMER INSTALLED 2005
T-28	50	1	12,470GRDY/7200V	120/240V	DEAD FRONT, OIL FILLED, PAD-MOUNT	HOUSING UNITS 1806, 1807	TRANSFORMER INSTALLED 2005
T-29	50	1	12,470GRDY/7200V	120/240V	DEAD FRONT, OIL FILLED, PAD-MOUNT	HOUSING UNITS 1804, 1805	TRANSFORMER INSTALLED 2005
T-30	50	1	12,470GRDY/7200V	120/240V	DEAD FRONT, OIL FILLED, PAD-MOUNT	HOUSING UNITS 1601, 1602	TRANSFORMER INSTALLED 2005
T-31	50	1	12,470GRDY/7200V	120/240V	DEAD FRONT, OIL FILLED, PAD-MOUNT	HOUSING UNITS 1603, 1604	TRANSFORMER INSTALLED 2005
T-32	50	1	12,470GRDY/7200V	120/240V	DEAD FRONT, OIL FILLED, PAD-MOUNT	HOUSING UNITS 1605, 1606	TRANSFORMER INSTALLED 2005
T-33	50	1	12,470GRDY/7200V	120/240V	DEAD FRONT, OIL FILLED, PAD-MOUNT	HOUSING UNIT 1607	TRANSFORMER INSTALLED 2005
T-34	50	1	12,470GRDY/7200V	120/240V	DEAD FRONT, OIL FILLED, PAD-MOUNT	HOUSING UNITS 1608, 1609	TRANSFORMER INSTALLED 2005
T-35	50	1	12,470GRDY/7200V	120/240V	DEAD FRONT, OIL FILLED, PAD-MOUNT	HOUSING UNITS 1610, 1908	TRANSFORMER INSTALLED 2005
T-36	225	3	12,470VΔ	208Y/120V	DEAD FRONT, OIL FILLED, PAD-MOUNT	1900 BLDGS	TRANSFORMER INSTALLED 2005
T-GEN	1500	3	12,470GRDY/7200V	480VΔ	DEAD FRONT, OIL FILLED, PAD-MOUNT	GENERATOR STEP-UP	TRANSFORMER INSTALLED 2012

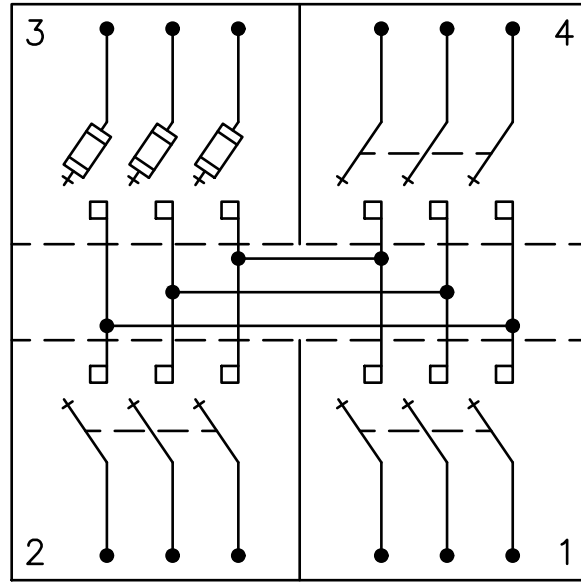
PAD-MOUNTED SWITCHGEAR SCHEDULE								
SWITCH NUMBER	TYPE	CATALOG NO.	RATING	COMPARTMENT 1	COMPARTMENT 2	COMPARTMENT 3	COMPARTMENT 4	NOTES
④ SW-1	S&C PMH-13	55252-DG1JK2V	14.4 KV 600A	FAILED SWITCH 5/2017	SITE LTG (T1)	EMPTY	FDR 1A1	SWITCHGEAR INSTALLED PRE-1980
④ SW-3	S&C PMH-6	55322-DG1G2JK2V	14.4 KV 600A	FDR 1B2	SPARE	APARTMENTS (T11)	EMPTY	SWITCHGEAR INSTALLED PRE-1980
④ SW-4	S&C PMH-6	55322-DG1JK8	14.4 KV 600A	FDR 1B2	FDR 1B1	SPARE	EMPTY	SWITCHGEAR INSTALLED PRE-1980
③ SW-5	S&C PMH-13	55252-DG1JK2V	14.4 KV 600A	FDR 2A1	SPARE	EMPTY	FDR 2A2	SWITCHGEAR INSTALLED PRE-1980
③ SW-6	S&C PMH-13	55252-DG1JK2V	14.4 KV 600A	FDR 2A2	FDR 2A3	EMPTY	SPARE	SWITCHGEAR INSTALLED PRE-1980
② SW-7	S&C PMH-13	55252-DG1JK2V	14.4 KV 600A	FDR 2B3	WAREHOUSE/FOOD DISTRIBUTION (T15)	EMPTY	FDR 2A3	SWITCHGEAR INSTALLED PRE-1980
② SW-8	S&C PMH-11	55362-DG1G2JK2V	14.4 KV 600A	GARAGE (T17)	FDR 2B2	MAINTENANCE (T16)	FDR 2B3	SWITCHGEAR INSTALLED PRE-1980
③ SW-9	S&C PMH-13	55252-DG1JK2V	14.4 KV 600A	FDR 2B1	FDR 2B2	EMPTY	SPARE	SWITCHGEAR INSTALLED PRE-1980
③ SW-10	S&C PMH-9	55352R3-B5C3K8	14.4 KV 600A	FDR 3A2	FDR 3A1	SPARE	SPARE	SWITCHGEAR INSTALLED IN 2005
SW-11	S&C PMH-9	55352R4-K2	14.4 KV 600A	FDR 3A3	FDR 3A2	MULTIPURPOSE (T21)	PHYSICAL THERAPY (T22)	SWITCHGEAR INSTALLED IN 2012
SW-12	S&C PMH-9	55352R3-B5C3K8	14.4 KV 600A	FDR 3B4	FDR 3A3	DONNELLY/ADMINISTRATION (T23)	1500 HU (TDP/GH)	SWITCHGEAR INSTALLED IN 2005
SW-13	S&C PMH-6	55322R4-B5C3G7H2J2K8X	14.4 KV 600A	FDR 3B3	FDR 3B4	1600/1800 HU (T35/T24)	EMPTY	SWITCHGEAR INSTALLED IN 2017
⑤ SW-14	S&C PMH-6	55322-DK8	14.4 KV 600A	FDR 3B3	FDR 3B2	1600/1800 HU (T30/T29)	EMPTY	SWITCHGEAR INSTALLED PRE-1980
② SW-15	S&C PMH-13	55252-DG1JK2V	14.4 KV 600A	1900 BLDGS (T36)	FDR 3B1	EMPTY	FDR 3B2	SWITCHGEAR INSTALLED PRE-1980



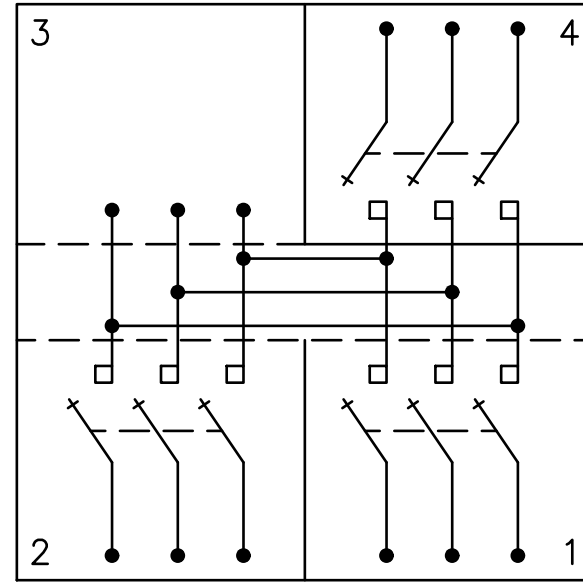
PMH-6
①



PMH-9
①



PMH-11
①



PMH-13
①

⬡ KEY NOTES:

- SWGR COMPARTMENT NUMBERS APPEAR IN CORNERS OF DIAGRAM.
- EXIST SWGR TO BE REPLACED WITH NEW SWGR PER SPECIFICATION SECTION 337710.
- EXIST SWGR TO BE REPLACED WITH NEW SECTIONALIZER CABINET PER SPECIFICATION SECTION 337110.
- EXIST SWGR TO BE REMOVED.
- EXIST SWGR SW-14 TO BE REPLACED WITH RELOCATED EXIST SWGR SW-10.
- REPLACE EXIST XFMR WITH NEW 150 KVA XFMR PER SPECIFICATION SECTION 261219.
- REPLACE EXIST XFMR WITH 150 KVA XFMR PER SPECIFICATION SECTION 261216.

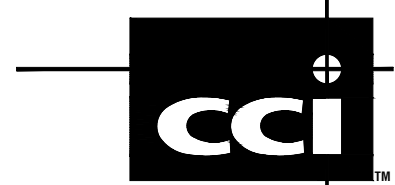
12.47 kV FEEDER SCHEDULE									
FEEDER NUMBER	PHASE CONDUCTOR		NEUTRAL CONDUCTOR		GROUND CONDUCTOR		CONDUIT		NOTES
	NO.	SIZE	NO.	SIZE	NO.	SIZE	NO.	SIZE	
1A1	3	2 (SHLD)	-	-	1	2/0	1	4"	FEEDER INSTALLED IN 2017
1B1	3	2 (SHLD)	-	-	1	2/0	1	4"	FEEDER INSTALLED IN 2005
1B2	3	2 (SHLD)	-	-	1	2/0	1	4"	FEEDER INSTALLED IN 2005
2A1	3	2 (SHLD)	-	-	1	2/0	1	4"	FEEDER INSTALLED IN 2005
2A2	3	2 (SHLD)	-	-	1	2/0	1	4"	FEEDER INSTALLED IN 2005
2A3	3	2 (SHLD)	-	-	1	2/0	1	4"	FEEDER INSTALLED IN 2005
2B1	3	2 (SHLD)	-	-	1	2/0	1	4"	FEEDER INSTALLED IN 2005
2B2	3	2 (SHLD)	-	-	1	2/0	1	4"	FEEDER INSTALLED IN 2005
2B3	3	2 (SHLD)	-	-	1	2/0	1	4"	FEEDER INSTALLED IN 2005
3A1	3	2 (SHLD)	-	-	1	2/0	1	4"	FEEDER INSTALLED IN 2005
3A2	3	2 (SHLD)	-	-	1	2/0	1	4"	FEEDER INSTALLED IN 2005
3A3	3	2 (CN)	1	100%	-	-	1		FEEDER INSTALLED PRE-1980
3B1	3	2 (SHLD)	-	-	1	2/0	1	4"	FEEDER INSTALLED IN 2005
3B2	3	2 (SHLD)	-	-	1	2/0	1	4"	FEEDER INSTALLED IN 2005
3B3	3	2 (SHLD)	-	-	1	2/0	1	4"	FEEDER INSTALLED IN 2017
3B4	3	2 (SHLD)	-	-	1	2/0	1	4"	FEEDER INSTALLED IN 2017
T1	3	2 (SHLD)	-	-	1	2/0	1	4"	FEEDER INSTALLED IN 2014
T11	3	2 (SHLD)	-	-	1	2/0	1	3"	FEEDER INSTALLED IN 2005
T15	3	2 (SHLD)	-	-	1	2/0	1	4"	FEEDER INSTALLED IN 2005
T16	3	2 (SHLD)	-	-	1	2/0	1	4"	REPLACE EXIST FDR
T17	1	2 (SHLD)	-	-	1	2	1	2"	FEEDER INSTALLED IN 2005
T21	3	2 (SHLD)	-	-	1	2/0	1	4"	FEEDER INSTALLED IN 2005
T22	3	2 (SHLD)	-	-	1	2/0	1	4"	FEEDER INSTALLED IN 2005
T23	3	2 (SHLD)	-	-	1	2/0	1	4"	REPLACE EXIST #2 CN FDR
TDP/GH	3	2 (SHLD)	-	-	1	2/0	1	4"	FEEDER INSTALLED IN 2005
T24	1	2 (SHLD)	-	-	1	2	1	2"	FEEDER INSTALLED IN 2005
T24/25	1	2 (SHLD)	-	-	1	2	1	2"	FEEDER INSTALLED IN 2005
T25/26	1	2 (SHLD)	-	-	1	2	1	2"	FEEDER INSTALLED IN 2005
T26/27	1	2 (SHLD)	-	-	1	2	1	2"	FEEDER INSTALLED IN 2005
T27/28	1	2 (SHLD)	-	-	1	2	1	2"	FEEDER INSTALLED IN 2005
T28/29	1	2 (SHLD)	-	-	1	2	1	2"	FEEDER INSTALLED IN 2005
T29	1	2 (SHLD)	-	-	1	2	1	2"	FEEDER INSTALLED IN 2005
T30	1	2 (CN)	1	100%	-	-	1		FEEDER INSTALLED PRE-1980
T30/31	1	2 (SHLD)	-	-	1	2	1	2"	FEEDER INSTALLED IN 2005
T31/32	1	2 (SHLD)	-	-	1	2	1	2"	FEEDER INSTALLED IN 2005
T32/33	1	2 (SHLD)	-	-	1	2	1	2"	FEEDER INSTALLED IN 2005
T33/34	1	2 (SHLD)	-	-	1	2	1	2"	FEEDER INSTALLED IN 2005
T34/35	1	2 (SHLD)	-	-	1	2	1	2"	FEEDER INSTALLED IN 2005
T35	1	2 (SHLD)	-	-	1	2	1	2"	FEEDER INSTALLED IN 2005
T36	3	2 (SHLD)	-	-	1	2/0	1	4"	FEEDER INSTALLED IN 2005
T-GEN	3	2 (SHLD)	-	-	1	2/0	1	4"	FEEDER INSTALLED IN 2012

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



BARRY D. FREINER
Registered Professional Engineer
MO # E-24220
Expires 12-31-2026

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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
MENTAL HEALTH

REPLACE FIRE ALARM
SYSTEM & ELECTRICAL
RENOVATION

BELLEVILLE
HABILITATION CENTER
10695 BELLEVILLE RD.
ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01

SITE # 7356

ASSET # 6517356071

REVISION: _____
DATE: _____
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ISSUE DATE: 02/10/2025

CAD DWG FILE: M2006-01-7356-
6517356071-E-604.DWG
DRAWN BY: M.N.S.
CHECKED BY: B.D.F.
DESIGNED BY: B.D.F.

SHEET TITLE:
12.47kV FEEDER &
EQUIPMENT
SCHEDULES

SHEET NUMBER:

E-604

20 OF 45 SHEETS
FEBRUARY 10, 2025

INSTALLATION NOTES	
1.	SEE WIRING LEGEND FOR CABLE TYPES AND SIZES.
2.	ALL WORK SHALL BE IN ACCORDANCE WITH NFPA STANDARDS AND ALL LOCAL ADOPTED CODES.
3.	CABLE ROUTING SHOWN ON DRAWINGS IS FOR INTENT. EXACT ROUTING TO BE COORDINATED WITH OTHER TRADES IN THE FIELD. SEE SPECIFICATIONS AND DRAWING NOTES FOR ACCEPTABLE INSTALLATION METHODS.
4.	PROVIDE ALL REQUIRED CONDUIT, BACKBOXES, AND FITTINGS FOR THE FIRE ALARM SYSTEM CABLING. THE FIRE ALARM CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR TO DETERMINE THE EXTENT OF ALL FIRE ALARM CONDUIT AND BACKBOX REQUIREMENTS.
5.	ALL FIRE ALARM CABLING SHALL BE FPLP. FPLR OR FPLP AS REQUIRED BY THE ELECTRICAL CODE. SEE WIRING LEGEND FOR CABLE TYPES AND SIZES.
6.	ALL FIRE ALARM CABLING SHALL BE FPLP. SEE WIRING LEGEND FOR CABLE TYPES AND SIZES.
7.	FIRE ALARM CABLING SHALL <u>NOT</u> BE PAINTED.
8.	FIRE ALARM CABLING SHALL BE RED IN COLOR, SHALL BE LABELED AS FIRE ALARM CABLING, AND SHALL BE LISTED FOR THE INTENDED APPLICATION.
9.	ALL CONDUCTORS NOT IN CONDUIT SHALL BE NEATLY BUNDLED, WRAPPED TIGHT AND PROPERLY SECURED. ANY CABLING NOT INSTALLED IN A NEAT AND PROFESSIONAL MANNER SHALL BE PULLED OUT AND RE-RUN BY INSTALLER, AT NO ADDITIONAL COST TO THE OWNER.
10.	RUN ALL CONDUIT AND CONDUCTORS NOT IN CONDUIT AT RIGHT ANGLES TO THE BUILDING WALLS, FLOORS AND CEILING, AND SUPPORTED FROM THE BUILDING STRUCTURE AT INTERVALS COMPLIANT WITH NEC REQUIREMENTS.
11.	ALL CONDUCTORS IN FIRE ALARM EQUIPMENT ENCLOSURES SHALL BE RUN IN THE VERTICAL OR HORIZONTAL PLANE. MAKE ALL TURNS AT RIGHT ANGLES AND TIGHTLY BUNDLE AND WRAP.
12.	
13.	IDENTIFY ALL CONDUCTORS WITH PERMANENT MARKINGS. CONDUCTOR MARKINGS SHALL BE PRINTED LABELS, PERMANENTLY AFFIXED TO THE CONDUCTOR VIA SHRINK WRAP.
14.	EXPOSED CABLING SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE. EXPOSED CABLING SHALL NOT BE RUN IN A "SPAN" FASHION BETWEEN BAR JOISTS OR BEAMS (I.E. CABLING SHALL BE ROUTED ALONG PATH OF JOISTS AND BEAMS). ALL CABLING SHALL BE SECURED TO THE STRUCTURAL CEILING BETWEEN JOISTS OR BEAMS, AND AS INDICATED IN SPECIFICATIONS.
15.	ALL CABLING SHALL BE SUPPORTED FROM BUILDING STRUCTURE AND NOT FROM GRID, TILES, OR SUPPORT WIRES. ALL CABLING NOT IN CONDUIT SHALL BE SUPPORTED BY BUILDING STRUCTURE AT NO MORE THAN FIVE (5) FOOT INTERVALS.
16.	ALL FIRE ALARM CABLING IN SPRINKLER, ELECTRICAL, MECHANICAL, ELEVATOR EQUIPMENT ROOMS, AND SUBJECT TO PHYSICAL DAMAGE SHALL BE INSTALLED IN METALLIC CONDUIT.
17.	ALL EXPOSED VERTICAL CABLING SEVEN (7) FEET ABOVE THE FINISHED FLOOR SHALL BE INSTALLED IN METALLIC CONDUIT.
18.	ALL FIRE ALARM CABLING RISERS SHALL BE INSTALLED IN METALLIC CONDUIT.
19.	ALL POWER LIMITED FIRE ALARM CABLING ABOVE THE STRUCTURE, ABOVE LAY-IN CEILINGS, OR CONCEALED ABOVE CEILINGS OR IN PARTITIONS (NOT SUBJECT TO PHYSICAL DAMAGE) ARE NOT REQUIRED TO BE INSTALLED IN CONDUIT.
20.	ALL NON-POWER LIMITED FIRE ALARM CABLING FOR THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN CONDUIT.
21.	ALL CONDUIT LOCATED IN DRYWALL SHALL BE TERMINATED NO LESS THAN SIX (6) INCHES ABOVE THE CEILING TILE.
22.	ALL FIRE ALARM CABLING IN FINISHED AREAS SHALL BE CONCEALED.
23.	COORDINATE DRILLING OF ANY HOLES (I.E. COLUMN PENETRATIONS) WITH THE GENERAL CONTRACTOR AND ALL OTHER TRADES PRIOR TO INSTALLATION.
24.	ALL CABLING, CONDUIT, AND BACKBOXES SHALL BE PROPERLY SUPPORTED AND SEISMICALLY BRACED, AS REQUIRED BY ALL APPLICABLE CODES AND THE LOCAL JURISDICTION.
25.	FIRE ALARM CONDUCTORS SHALL BE ACCEPTABLE TO THE FIRE ALARM EQUIPMENT MANUFACTURER FOR THE INTENDED PURPOSE. SHOULD MANUFACTURER OF FIRE ALARM EQUIPMENT REQUIRE DIFFERENT TYPE OR SIZE OF CABLE THAN HEREIN SPECIFIED, THE LARGER OR MORE STRINGENT TYPE OF CABLE SHALL BE USED.
26.	CONDUIT AND CABLING SHALL ENTER INTO THE FACP AND EACH APS ONLY AS APPROVED BY THE EQUIPMENT MANUFACTURER.
27.	ALL FIRE ALARM JUNCTION BOXES SHALL BE RED IN COLOR.
28.	COORDINATE INSTALLATION OF A GROUND ROD OR ACCEPTABLE BUILDING GROUND FOR PROPER GROUNDING OF THE FACP AND EACH APS WITH THE ELECTRICAL CONTRACTOR.
29.	ALL SIGNALING LINE CIRCUITS, INITIATING DEVICE CIRCUITS, AND NOTIFICATION APPLIANCE CIRCUITS SHALL BE SUPERVISED IN ACCORDANCE WITH NFPA 72.
31.	PROVIDE END OF LINE RESISTORS FOR ALL INITIATING DEVICE CIRCUITS AND NOTIFICATION APPLIANCE CIRCUITS PER MANUFACTURER SPECIFICATIONS.
32.	ALL FIRE ALARM DEVICES SHALL BE INSTALLED IN OR ON A PROPER BACKBOX. NO DEVICES SHALL BE INSTALLED WITHOUT A BACKBOX. ALL DEVICES SHALL BE MOUNTED IN AN ACCESSIBLE LOCATION FOR TESTING AND MAINTENANCE.
33.	ALL CONDUCTORS SHALL BE PULLED SPICE FREE. CONDUCTORS SHALL BE CONTINUOUS FROM DEVICE TO DEVICE. THE USE OF WIRE NUTS, CRIMPED CONNECTORS, OR TWISTING OF CONDUCTORS IS PROHIBITED. ALL TERMINATIONS SHALL BE AT A TERMINAL STRIP UTILIZING SCREW TERMINALS.
34.	CONDUCTORS THAT ARE TERMINATED, SPLICED, OR OTHERWISE INTERRUPTED IN ANY ENCLOSURE, CABINET, MOUNTING OR JUNCTION BOX SHALL BE CONNECTED TO SCREW-TYPE TERMINAL BLOCKS.
35.	PROVIDE A SEPARATE ADDRESSABLE RELAY MODULE (ARM) FOR SHUTDOWN OF ASSOCIATED AHJ. LOCATE ARM AT AN ACCESSIBLE LOCATION WITHIN THREE (3) FEET OF THE ASSOCIATED AHJ MOTOR CONTROLLER OR CONTROL CIRCUIT. PROVIDE ANY REQUIRED POWER CONNECTIONS AND SUPERVISION FOR DUCT DETECTORS AND ARM. COORDINATE ALL EQUIPMENT INSTALLATION AND INTERFACE CONNECTIONS WITH THE ELECTRICAL, MECHANICAL, AND TEMPERATURE CONTROLS CONTRACTORS. COORDINATE INSTALLATION OF ANY REQUIRED ACCESS PANELS. PROVIDE AHJ SHUTDOWN PER EACH INDIVIDUAL AHJ.

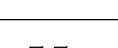
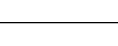
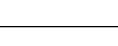
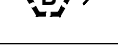
GENERAL NOTES	
1.	PROVIDE AN EXTENSION OF THE EXISTING CENTRAL STATION SERVICE FIRE ALARM SYSTEM WITHIN EACH AFFECTED BUILDING AS PART OF THIS SCOPE AND IN ACCORDANCE WITH ALL NFPA STANDARDS, ALL LOCAL ADOPTED CODES AND AS INDICATED IN THE PLANS AND SPECIFICATIONS.
2.	THE FIRE ALARM SYSTEM SHALL OPERATE AS A STANDALONE LOW VOLTAGE SYSTEM AND SHALL BE AN INTELLIGENT ADDRESSABLE SUPERVISED SYSTEM. CIRCUITS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS: - INITIATING DEVICE CIRCUITS - CLASS B - SUPERVISORY CIRCUITS - CLASS B - NOTIFICATION APPLIANCE CIRCUITS - CLASS B - SIGNALING LINE CIRCUITS - CLASS B - AUXILIARY CIRCUITS - CLASS B - POWER CIRCUITS - CLASS B - CIRCUITS FOR RELAY COIL OPERATION SHALL BE 24 VDC MAXIMUM WITH A SEPARATE OR INTEGRAL FIELD COLLAPSING DIODE.
3.	PROVIDE A DOCUMENTATION CABINET ADJACENT TO THE FIRE ALARM CONTROL PANEL TO HOUSE ALL SYSTEM DOCUMENTS IN ACCORDANCE WITH NFPA 72. SYSTEM DOCUMENTS SHALL INCLUDE (AT A MINIMUM) RECORD DRAWINGS, EQUIPMENT DATA SHEETS, SOFTWARE AND FIRMWARE CONTROL DOCUMENTATION. THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED "SYSTEM RECORD DOCUMENTS" AND SHALL BE ACCESSIBLE BY AUTHORIZED PERSONNEL ONLY AND PROTECTED FROM PUBLIC ACCESS.
4.	THE FIRE ALARM CONTROL PANEL CABINET, AUXILIARY POWER SUPPLY CABINETS, AND DOCUMENTATION CABINET SHALL HAVE A HINGED DOOR KEYED IN COMMON WITH ALL OTHER KEYED DEVICES THROUGHOUT THE SYSTEM.
5.	PROVIDE A CELLULAR COMMUNICATOR FOR THE PRIMARY MEANS OF TRANSMISSION TO THE CENTRAL STATION. MOUNT THE CELLULAR COMMUNICATOR AT A LOCATION WITH ACCEPTABLE SIGNAL STRENGTH FROM THE WIRELESS NETWORK CONNECTION. COORDINATE ALL PROGRAMMING, SIGNALS TRANSMISSION AND CONNECTIONS WITH THE OFF-SITE MONITORING STATION.
6.	PROGRAM THE CELLULAR COMMUNICATOR TO COMPLY WITH 2010 NFPA 72, SECTION 26.6.3.1.4.1. SINGLE COMMUNICATION TECHNOLOGY. PROVIDE VERIFICATION OF COMMUNICATION PATH ON FIVE (5) MINUTE INTERVALS.
7.	UPON LOSS OF BUILDING POWER, THE ENTIRE SYSTEM SHALL TRANSFER TO SECONDARY POWER WITHIN TEN (10) SECONDS, AND WITHOUT LOSS OF SIGNALS. THE SYSTEM SHALL OPERATE UNDER SECONDARY POWER IN NORMAL OR TROUBLE CONDITIONS FOR TWENTY-FOUR (24) HOURS AND HAVE SUFFICIENT POWER TO SUPPORT COMPLETE ALARM CONDITION OPERATION FOR A SUBSEQUENT FIVE (5) MINUTES AT MAXIMUM CONNECTED LOAD.
8.	COORDINATE EXACT MOUNTING LOCATIONS OF THE CONTROL PANELS, AUXILIARY POWER SUPPLIES (APS), WITH THE GENERAL CONTRACTOR, OWNER, AND ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.
9.	COORDINATE DEDICATED 120 VAC POWER CIRCUITS (CONNECTED TO THE EMERGENCY GENERATOR) TO THE FACP, AND EACH APS WITH THE ELECTRICAL CONTRACTOR. PROVIDE SURGE SUPPRESSION FOR 120 VAC POWER CIRCUITS. THE DEDICATED CIRCUIT DISCONNECT SHALL BE RED IN COLOR, LABELED "FIRE ALARM CIRCUIT", AND HAVE A LOCKABLE TAB. ALL FIRE ALARM CIRCUIT BREAKERS SHALL BE CLEARLY MARKED AND MECHANICALLY SECURED TO PREVENT ANY UNAUTHORIZED TAMPERING. IDENTIFY THE LOCATION OF THE CIRCUIT DISCONNECT AT THE FACP, AND EACH APS. PROVIDE 24 HOUR BATTERY BACKUP IN THE FACP, AND EACH APS.
10.	PROVIDE MONITORING CONNECTIONS TO SPRINKLER WATERFLOW SWITCHES AND CONTROL VALVE TAMPER SWITCHES (SWITCHES AND PROBES ARE BY OTHERS). PROVIDE ALL CABLING TO SWITCHES AND PROBES, FINAL WIRING CONNECTIONS AT SWITCHES AND PROBES, AND SUPERVISION OF ALL WIRING CONNECTIONS. COORDINATE ALL CONNECTIONS WITH THE SPRINKLER CONTRACTOR.
11.	NOTIFICATION APPLIANCE CIRCUITS (NAC) HAVE BEEN DESIGNED FOR A MAXIMUM 1.5 AMPS, MAXIMUM 4.4 VDC DROP, AND MINIMUM OPERATING VOLTAGE OF 16 VDC. EACH FACP AND APS SHALL HAVE A MINIMUM OF TWENTY (20) PERCENT SPARE CAPACITY ON EACH CIRCUIT. UNLESS OTHERWISE SHOWN ON THE ENGINEERING DRAWINGS, PROVIDE VOLTAGE DROP CALCULATIONS FOR ALL NOTIFICATION APPLIANCE CIRCUITS.
12.	PROVIDE SYNCHRONIZATION OF ALL VISUAL NOTIFICATION APPLIANCE CIRCUITS THROUGHOUT EACH BUILDING. PROVIDE ALL REQUIRED SYNCHRONIZATION MODULES. PROVIDE MULTI-SYNC MODE SLAVE CONNECTIONS, AS REQUIRED, TO ALL AUXILIARY POWER SUPPLIES (APS).
13.	THE AUDIBLE/VISUAL NOTIFICATION APPLIANCES SHALL BE RED IN COLOR, HAVE A CLEAR LENS, SHALL BE CLEARLY LABELED AS FIRE, AND SHALL BE LISTED FOR THE INTENDED APPLICATION.
14.	WHERE POSSIBLE, PROVIDE FLUSH MOUNTING OF NOTIFICATION APPLIANCES. WHERE SURFACE-MOUNTED NOTIFICATION APPLIANCES ARE NECESSARY, PROVIDE DECORATIVE BACKBOX SKIRT COVERING THE APPLIANCE BACKBOX.
15.	PROVIDE DUCT DETECTORS, ASSEMBLY AND SAMPLING TUBES (INSTALLED BY MECHANICAL OR ELECTRICAL CONTRACTORS). PROVIDE A SEPARATE ADDRESSABLE RELAY MODULE (ARM) FOR SHUTDOWN OF ASSOCIATED AIR HANDLING UNIT (AHU). PROVIDE ANY REQUIRED POWER CONNECTIONS AND SUPERVISION FOR DUCT DETECTOR AND ARM. COORDINATE ALL SHUTDOWN CONNECTIONS AND EQUIPMENT INSTALLATION WITH THE ELECTRICAL, MECHANICAL, AND TEMPERATURE CONTROLS CONTRACTORS.
16.	DEVICE AND APPLIANCE LOCATIONS AS SHOWN ON THE FIRE ALARM PLANS ARE NOT DIMENSIONED FOR EXACT INSTALLATION.
17.	THE CEILING MOUNTED DEVICES AND APPLIANCES SHALL BE INSTALLED ALIGNED AESTHETICALLY WITH THE CEILING LIGHTING, SPRINKLERS, AND OTHER FIXTURES. COORDINATE INSTALLATION OF ALL CEILING MOUNTED FIRE ALARM DEVICES AND NOTIFICATION APPLIANCES WITH THE ARCHITECTURAL DRAWINGS AND ALL OTHER TRADES <u>PRIOR</u> TO INSTALLATION.
18.	ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL BACKGROUND INFORMATION IS SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO THE PROPER DRAWINGS FOR EXACT LOCATIONS, SIZES AND QUANTITIES OF OTHER TRADES' WORK.
19.	MOUNT SMOKE AND HEAT DETECTORS AT THE CEILING/DECK, AND NOT ON THE BOTTOM OF BEAMS OR JOISTS. LOCATE ALL SMOKE AND HEAT DETECTORS A MINIMUM OF THREE (3) FEET FROM ANY MECHANICAL DIFFUSERS, AND AS REQUIRED BY NFPA 72.
20.	SMOKE AND HEAT DETECTOR HEADS SHALL NOT BE INSTALLED UNTIL AFTER THE CONSTRUCTION CLEAN-UP OF ALL TRADES IS COMPLETE AND FINAL.
21.	ALL THROUGH-PENETRATIONS OF FIRE-RATED WALLS AND FLOORS SHALL BE FIRE-STOPPED.
22.	ALL JUNCTION BOXES SHALL BE ACCESSIBLE FOR SERVICE. PROVIDE ANY REQUIRED ACCESS PANELS.
23.	PROVIDE SEISMIC BRACING AS REQUIRED BY APPLICABLE CODES.
24.	PROVIDE A PRINTED LABEL FOR EACH INITIATING DEVICE INDICATING THE SPECIFIC ADDRESS FOR THAT DEVICE. THE LABEL SHALL BE LOCATED ON THE BASE OF ALL DETECTORS AND THE COVER PLATES OF EACH MODULE.
25.	PROVIDE A PRINTED LABEL FOR EACH NOTIFICATION APPLIANCE INDICATING THE SPECIFIC CIRCUIT NUMBER FOR THAT APPLIANCE. THE LABEL SHALL INCLUDE END OF LINE RESISTOR LOCATION, CIRCUIT NUMBER AND APPLIANCE NUMBER. THE LABEL SHALL BE LOCATED ON THE BASE OF EACH NOTIFICATION APPLIANCE.
26.	ALL AUDIBLE APPLIANCES SHALL BE SET TO THE HIGH DBA SETTING AND SHALL SOUND A THREE-PULSE TEMPORAL PATTERN EVACUATION SIGNAL.

DEMOLITION NOTES	
1.	THE EXISTING FIRE ALARM SYSTEM SHALL REMAIN IN SERVICE AS PORTIONS OF THE SYSTEM ARE SYSTEMATICALLY DISCONNECTED, DISMANTLED, AND REMOVED FROM SERVICE AND THE NEW FIRE ALARM SYSTEM IS INSTALLED IN ITS PLACE.
2.	DEMOLISH AND REMOVE ALL FIRE ALARM SYSTEM COMPONENTS FROM THE EXISTING SPACE, INCLUDING ALL CONTROL PANELS, DEVICES, CABLING, AND CONDUITS.
3.	THE EXISTING FIRE ALARM SYSTEM EQUIPMENT AND ASSOCIATED CONDUIT AND CABLING SHALL BE PROPERLY DISCONNECTED FROM THE EXISTING FIRE ALARM CONTROL PANEL AND BE COMPLETELY REMOVED FROM THE BUILDING.
4.	VERIFY ACTUAL QUANTITIES AND LOCATIONS OF EXISTING FIRE ALARM EQUIPMENT TO BE DEMOLISHED WITH THE OWNER AND GENERAL CONTRACTOR PRIOR TO COMMENCEMENT OF DEMOLITION WORK.
5.	PROPERLY DISPOSE OF ALL DEMOLISHED FIRE ALARM EQUIPMENT.
6.	PROVIDE PATCHING, PAINTING OR OTHER REPAIR NECESSARY TO REPAIR DAMAGE TO WALLS, CEILINGS, ETC. CAUSED BY THE DEMOLITION OF THE FIRE ALARM SYSTEM. COORDINATE REPAIR WORK WITH GENERAL CONTRACTOR AND OWNER.
7.	PENETRATIONS IN FIRE RATED ASSEMBLIES RESULTING FROM THE REMOVAL OF FIRE ALARM EQUIPMENT, CONDUIT, OR CABLING SHALL BE FIRE STOPPED PER THE LATEST EDITION OF THE UL FIRE RESISTANCE DIRECTORY.

SHOP DRAWING SUBMITTAL NOTES	
THE ENGINEERING DRAWINGS WERE PREPARED USING AUTOCAD AND WILL BE MADE AVAILABLE TO THE FIRE ALARM CONTRACTOR IN ELECTRONIC DWG FORMAT. THE ENGINEERING DRAWINGS WERE PREPARED FOR BIDDING PURPOSES ONLY.	
THE AWARDED FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR PRODUCING SHOP DRAWINGS FOR THE FIRE ALARM SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES.	
SHOP DRAWINGS FOR THE FIRE ALARM SYSTEM SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION (AHJ) FOR REVIEW AND APPROVAL PRIOR TO SYSTEM INSTALLATION. WHERE INSTALLATION DEVIATES FROM THE APPROVED SHOP DRAWINGS, CORRECTED SHOP DRAWINGS SHOWING THE SYSTEM AS ACTUALLY INSTALLED SHALL BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO INSPECTION.	

KEYED NOTES DENOTED AS 	
1.	PROVIDE ELECTRONIC MONITORING OF ALL EXTERIOR POST INDICATOR VALVES (PIV). COORDINATE INSTALLATION OF A MINIMUM 1-1/2 INCH UNDERGROUND CONDUIT, WITH PULL STRING, FOR FIRE ALARM CABLING CONNECTIONS TO THE EXTERIOR POST INDICATOR VALVE (PIV).
2.	PROVIDE SINGLE- OR MULTI-STATION SMOKE DETECTORS AS REQUIRED FOR RESIDENTIAL DWELLING UNITS. PROVIDE ALL REQUIRED SMOKE DETECTOR SOUNDER BASES, INCLUDING ALL NECESSARY POWER AND ADDRESSABLE MODULES.
3.	PROVIDE RESIDENTIAL DWELLING UNIT SINGLE- OR MULTI-STATION SMOKE DETECTORS AS REQUIRED. SMOKE DETECTORS SHALL BE INSTALLED OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOM. IN EACH ROOM USED FOR SLEEPING PURPOSE, AND ON EACH STORY WITHIN A DWELLING UNIT / IN SLEEPING AREAS, IN EVERY ROOM IN THE PATH OF EGRESS FROM THE SLEEPING AREA TO THE DOOR LEADING FROM THE SLEEPING UNIT, IN EACH STORY WITHIN THE SLEEPING UNIT.
4.	PROVIDE SMOKE DETECTION AS REQUIRED TO UNLOCK ALL EGRESS DOORS, STAIRWELL DOORS, AND FOR RELEASE OF MAGNETIC DOOR HOLDERS.
5.	PROVIDE TRANSIENT SUPPRESSION ON ALL FIRE ALARM CIRCUITS THAT ENTER OR LEAVE THE BUILDING. PROVIDE ONE (1) TRANSIENT SUPPRESSION MODULE FOR EACH FIRE ALARM CIRCUIT. FIRE ALARM CABLING IN UNDERGROUND CONDUIT SHALL BE LISTED FOR WET LOCATIONS.
6.	DOOR RELEASE SHALL OPERATE ON LOSS OF POWER TO MAGNETIC DOOR HOLDER OR ADDRESSABLE RELAY MODULE (ARM) AND SHALL BE SELF-MONITORING FOR INTEGRITY. LOCATE ARM AT AN ACCESSIBLE LOCATION WITHIN THREE (3) FEET OF THE ASSOCIATED CONTROLS OR CONTROL CIRCUIT. DOOR HOLDERS ARE PROVIDED AND INSTALLED BY OTHERS. PROVIDE/COORDINATE ANY ASSOCIATED POWER CONNECTIONS AS REQUIRED. PROVIDE WIRING CONNECTIONS FROM ARM TO MAGNETIC DOOR HOLDER CONTROLS, AND COORDINATE PROPER DOOR RELEASE OPERATION.
7.	PROVIDE ELECTRONIC MONITORING OF ANY KITCHEN HOOD SUPPRESSION SYSTEMS (BY OTHERS).
8.	PROVIDE AN ADDRESSABLE MONITOR MODULE (AIM) FOR THE MONITORING OF THE EXISTING ADEMCO VISTA SECURITY PANEL. PROVIDE ANY ADDITIONAL REQUIRED ADDRESSABLE MONITOR MODULES (AIM), INTERMEDIATE RELAYS, AND INTERFACE PANELS. LOCATE AIM WITHIN THREE (3) FEET OF THE ASSOCIATED CONTROLS. COORDINATE INTERFACE CONNECTIONS WITH THE ASSOCIATED CONTRACTOR.
9.	DISCONNECT AND REUSE THE EXISTING WALL MOUNTED BEAM DETECTORS. PROVIDE NEW CABLING AND CONDUIT AS NEEDED TO RECONNECT TO THE NEW FIRE ALARM SLC CIRCUIT. ALL CABLE SPLICES SHALL BE ACHIEVED VIA TERMINAL STRIP WITH SCREW TERMINALS. ENSURE APPLIANCE CIRCUIT IS OPERATIONAL AND SUPERVISED IN ACCORDANCE WITH NFPA 72 AS PREVIOUSLY CONFIGURED.
10.	DISCONNECT AND REUSE THE EXISTING REMOTE ANNUNCIATOR. PROVIDE NEW CABLING AND CONDUIT AS NEEDED TO RECONNECT TO THE EXISTING BEAM DETECTOR. ALL CABLE SPLICES SHALL BE ACHIEVED VIA TERMINAL STRIP WITH SCREW TERMINALS. ENSURE APPLIANCE CIRCUIT IS OPERATIONAL AS PREVIOUSLY CONFIGURED.
11.	MOUNT HEAT DETECTOR ON THE BOTTOM OF THE CEILING/DECK AND NOT ON THE BOTTOM OF BEAMS OR JOISTS. LOCATE ALL DETECTORS A MINIMUM OF THREE (3) FEET FROM ANY MECHANICAL DIFFUSERS, AND AS REQUIRED IN NFPA 72.
12.	PROVIDE REMOTE TEST STATIONS/ANNUNCIATORS AS REQUIRED FOR CONCEALED HEAT DETECTORS. PROVIDE ANY REQUIRED POWER CABLING CONNECTIONS TO THE DETECTORS AND REMOTE TEST STATIONS/ ANNUNCIATORS. MOUNT THE REMOTE TEST STATIONS/ANNUNCIATORS ON THE CEILING BELOW THE ASSOCIATED DETECTOR AND AT AN ACCESSIBLE LOCATION. COORDINATE EXACT MOUNTING LOCATION WITH THE GENERAL CONTRACTOR, OWNER, AND THE AHJ PRIOR TO INSTALLATION.
13.	FIELD VERIFY THE EXISTING DUCT SMOKE DETECTORS ARE PRESENT. IF EXISTING DUCT SMOKE DETECTORS ARE PRESENT, REPLACE THE EXISTING DUCT DETECTORS WITH NEW ADDRESSABLE DUCT SMOKE DETECTORS. PROVIDE NEW CABLING AND CONDUIT AS NEEDED FOR THE DUCT SMOKE DETECTORS TO BE SUPERVISED BY THE NEW FIRE ALARM SYSTEM.

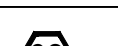
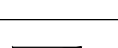
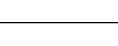
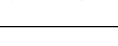
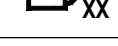
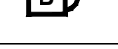
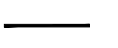
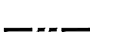
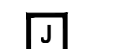
GENERAL PROGRAMMING NOTES	
1.	CONTROL-BY-EVENT PROGRAMMING IS PROVIDED FOR GENERAL INFORMATIONAL PURPOSES ONLY. SPECIFIC SYSTEM PROGRAMMING SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR IN SHOP DRAWING SUBMITTAL.
2.	COORDINATE SPECIFIC ALPHANUMERIC DESCRIPTIONS WITH THE OWNER PRIOR TO SYSTEM PROGRAMMING.
3.	THE FIRE ALARM CONTRACTOR SHALL REVISE THE CONTROL-BY-EVENT PROGRAMMING TO INCLUDE ALL SPECIFIC SYSTEM REQUIREMENTS, AND TO INCLUDE A MINIMUM OF TWENTY (20) PERCENT SPARE CAPACITY ON EACH ADDRESSABLE DEVICE AND MODULE LOOP.

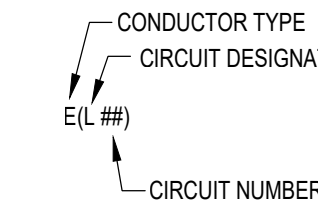
DEMO SYMBOL KEY	
	EXISTING ADDRESSABLE FIRE ALARM CONTROL PANEL TO BE DISCONNECTED
	EXISTING FIRE ALARM CABINET TO BE REMOVED
	EXISTING AUXILIARY RELAY MODULE TO BE DISCONNECTED
	EXISTING AUXILIARY POWER SUPPLY TO BE DISCONNECTED
	EXISTING MANUAL PULL STATION TO BE DISCONNECTED
	EXISTING PHOTOELECTRIC SMOKE DETECTOR TO BE DISCONNECTED
	EXISTING DUCT-TYPE PHOTOELECTRIC SMOKE DETECTOR TO BE DISCONNECTED
	EXISTING HEAT DETECTOR TO BE DISCONNECTED
	EXISTING FIRE SPRINKLER WATERFLOW SWITCH TO BE DISCONNECTED
	EXISTING FIRE SPRINKLER CONTROL VALVE TAMPER SWITCH TO BE DISCONNECTED
	EXISTING CARBON MONOXIDE DETECTOR TO BE DISCONNECTED
	EXISTING DOOR HOLDER TO BE DISCONNECTED
	EXISTING BELL APPLIANCE TO BE DISCONNECTED
	EXISTING WALL MOUNTED AUDIBLE/VISUAL APPLIANCE TO BE DISCONNECTED
	EXISTING WALL MOUNTED VISUAL APPLIANCE TO DISCONNECTED
	EXISTING BEAM SMOKE DETECTOR - RECEIVER TO REMAIN
	EXISTING BEAM SMOKE DETECTOR - TRANSMITTER TO REMAIN
	EXISTING REMOTE ANNUNCIATOR TO REMAIN
	EXISTING SECURITY PANEL TO REMAIN
	EXISTING ADDRESSABLE INPUT MODULE TO REMAIN
	EXISTING KEYPAD TO REMAIN
	EXISTING DOOR CONTACT TO REMAIN

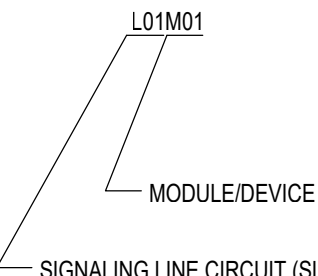
SHEET INDEX	
FA001	FIRE ALARM COVER SHEET, NOTES, MATRIX, AND SHEET INDEX
FA100	SITE FIRE ALARM PLAN
FA101	APARTMENT A NEW WORK FIRE ALARM PLAN
FA102	APARTMENT B NEW WORK FIRE ALARM PLAN
FA103	BUILDINGS 1601-1610, 1908, 1801-1810, 1901-1906 NEW WORK FIRE ALARM PLAN
FA104	WAREHOUSE/FOOD DISTRIBUTION CENTER NEW WORK FIRE ALARM PLAN
FA105	MAINTENANCE BUILDING NEW WORK FIRE ALARM PLAN
FA106	MULTIPURPOSE BUILDING NEW WORK FIRE ALARM PLAN
FA107	PHYSICAL THERAPY BUILDING NEW WORK FIRE ALARM PLAN
FAD101	APARTMENT A DEMOLITION WORK FIRE ALARM PLAN
FAD102	APARTMENT B DEMOLITION WORK FIRE ALARM PLAN
FAD103	BUILDINGS 1601-1610, 1908, 1801-1810, 1901-1906 DEMOLITION WORK FIRE ALARM PLAN
FAD104	WAREHOUSE/FOOD DISTRIBUTION CENTER DEMOLITION WORK FIRE ALARM PLAN
FAD105	MAINTENANCE BUILDING DEMOLITION WORK FIRE ALARM PLAN
FAD106	MULTIPURPOSE BUILDING DEMOLITION WORK FIRE ALARM PLAN
FAD107	PHYSICAL THERAPY BUILDING DEMOLITION WORK FIRE ALARM PLAN
FA500	FIRE ALARM DETAILS
FA601	APARTMENT A MATRIX, CBE, CALCULATIONS AND RISER DIAGRAM
FA602	APARTMENT B MATRIX, CBE, CALCULATIONS AND RISER DIAGRAM
FA603	BUILDINGS 1601-1610, 1908 MATRIX, CBE, CALCULATIONS AND RISER DIAGRAM
FA604	BUILDINGS 1801-1810 MATRIX, CBE, CALCULATIONS AND RISER DIAGRAM
FA605	BUILDINGS 1901-1906 MATRIX, CBE, CALCULATIONS AND RISER DIAGRAM
FA606	WAREHOUSE/FOOD DISTRIBUTION CENTER MATRIX, CBE, CALCULATIONS AND RISER DIAGRAM
FA607	MAINTENANCE BUILDING MATRIX, CBE, CALCULATIONS AND RISER DIAGRAM
FA608	MULTIPURPOSE/PHYSICAL THERAPY BUILDING MATRIX, CALCULATIONS, CBE AND RISER DIAGRAM

APPLICABLE CODES	
ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REFERENCED DESIGN STANDARDS.	
2024 LIFE SAFETY CODE (NFPA 101)	
2023 NATIONAL ELECTRICAL CODE	
2025 EDITION NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE	
AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)	
19 CSR 30-86	
CONFLICTS BETWEEN THE REFERENCE NFPA STANDARDS, FEDERAL OR STATE CODES, SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER OF RECORD (CCI) FOR RESOLUTION.	

FIRESTOP NOTES	
1.	ALL THROUGH-PENETRATIONS OF FIRE-RATED WALLS AND FLOORS SHALL BE FIRE-STOPPED.
2.	FIRE-RATED GYPSUM BOARD WALLS CONSTRUCTED AS DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGNS IN THE U.L. FIRE RESISTANCE DIRECTORY (GENERALLY DOUBLE THICKNESS WALLBOARD) SHALL BE FIRE-STOPPED WITH U.L. SYSTEMS.
3.	ALL REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOORS OR WALLS, AND ALL U.L. CLASSIFIED CONCRETE BLOCK WALLS SHALL BE FIRE-STOPPED WITH U.L. SYSTEMS.

NEW SYMBOL KEY	
	ADDRESSABLE FIRE ALARM CONTROL PANEL
	AUXILIARY POWER SUPPLY
	TRANSIENT SUPPRESSION MODULE (XX = 24/120 VDC)
	DOCUMENTATION CABINET
	DUAL ACTION MANUAL PULL STATION (INTELLIGENT)
	PHOTOELECTRIC SMOKE DETECTOR (CO = CARBON MONOXIDE COMBO, SB = SOUNDER BASE, B = BATTERY POWERED SMOKE ALARM)
	135°F / 180°F FIXED TEMPERATURE AND ROR HEAT DETECTOR (INTELLIGENT)(AC = ABOVE CEILING MOUNTED)
	DUCT-TYPE PHOTOELECTRIC SMOKE DETECTOR (R = RETURN SIDE, S = SUPPLY SIDE)
	CARBON MONOXIDE DETECTOR
	FLOW SWITCH (BY OTHERS)
	TAMPER SWITCH (BY OTHERS)
	ADDRESSABLE INPUT MODULE
	ADDRESSABLE RELAY MODULE
	DOOR HOLDER (BY OTHERS)
	WALL MOUNTED AUDIBLE/VISUAL APPLIANCE (XX = CANDELA RATING) (RED COLOR)
	WALL MOUNTED VISUAL APPLIANCE (XX = CANDELA RATING) (RED COLOR)
	BELL APPLIANCE (24VDC)
	EXISTING BEAM SMOKE DETECTOR - REFLECTOR TO REMAIN
	EXISTING BEAM SMOKE DETECTOR - TRANSMITTER TO REMAIN
	EXISTING REMOTE ANNUNCIATOR TO REMAIN
	EXISTING SECURITY PANEL TO REMAIN
	EXISTING ADDRESSABLE INPUT MODULE TO REMAIN
	EXISTING KEYPAD TO REMAIN
	EXISTING DOOR CONTACT TO REMAIN
	FIRE ALARM CONDUCTORS [IN CONDUIT] (3/4" MINIMUM)
	WET LOCATION FIRE ALARM CONDUCTORS [IN UNDERGROUND CONDUIT] (1-1/2" MINIMUM)
	JUNCTION BOX
	END OF LINE RELAY
	END OF LINE RESISTOR

WIRING LEGEND	
CONDUCTOR TYPE:	CIRCUIT DESIGNATION:
D = 14/2 TP SHIELDED	AV = AUDIBLE/VISUAL NOTIFICATION CIRCUIT
E = 18/2 TP SHIELDED	AN = ANNUNCIATOR CIRCUIT
F = 14/2 TP	PW = LOW VOLTAGE POWER CIRCUIT
G = AS REQUIRED BY MANUFACTURER	RC = RELAY CONTROL CIRCUIT
H = 14/2 WET LOCATION	ZN = INITIATION ZONE CIRCUIT
J = 18/2 WET LOCATION	SU = SUPERVISORY ZONE CIRCUIT
	RT = REMOTE TEST STATION POWER CIRCUIT
	RA = REMOTE ANNUNCIATOR CIRCUIT
	
SHOULD MANUFACTURER OF FIRE ALARM EQUIPMENT REQUIRE A DIFFERENT TYPE OR SIZE OF CABLE THAN HEREIN SPECIFIED, THE LARGER OR MORE STRINGENT TYPE OF CABLE SHALL BE USED.	

ADDRESSING LEGEND	
	L = LOOP M = MODULE D = DEVICE

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



COURTNEY R. OGLE
Registered Professional Engineer
MO # 2015000584
Expires 12-31-2026

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ENGINEERING CO., P.C.
CONSULTING ENGINEERS
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PHONE: 636-600-1551
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MISSOURI STATE CERTIFICATE
OF AUTHORITY #000408



OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
MENTAL HEALTH

REPLACE FIRE ALARM
SYSTEM & ELECTRICAL
RENOVATION

BELLEFONTAINE
HABILITATION CENTER
10695 BELLEFONTAINE RD.
ST. LOUIS, MISSOURI 63137



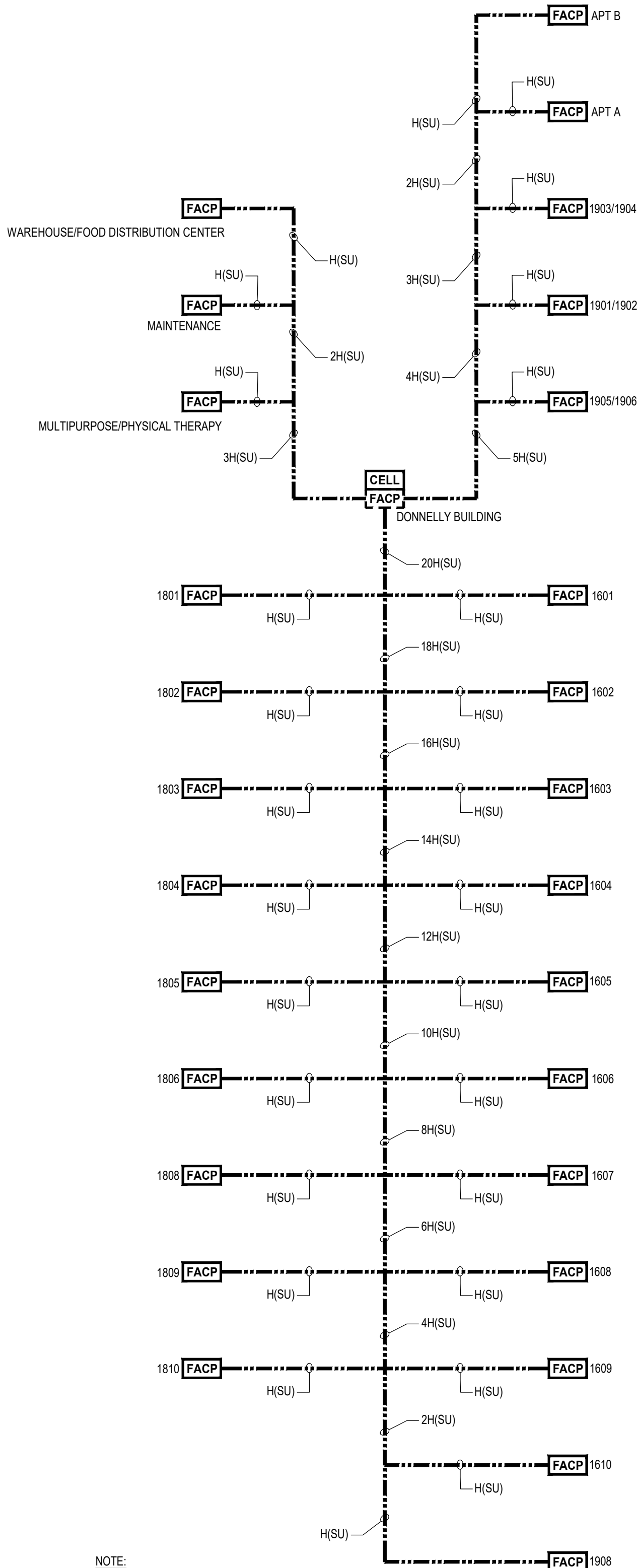
SITE PLAN KEYED NOTES DENOTED AS (D)

1. PROVIDE AND INSTALL NEW STARLINK CELLULAR COMMUNICATOR IN THE DONNELLY BUILDING ADJACENT TO THE EXISTING MAIN FIRE ALARM CONTROL PANEL. PROGRAM THE CELLULAR COMMUNICATOR TO COMPLY WITH 2010 NFPA 72, SECTION 26.6.3.1.4.1, SINGLE COMMUNICATION TECHNOLOGY. PROVIDE VERIFICATION OF COMMUNICATION PATH ON FIVE (5) MINUTE INTERVALS.

WIRING LEGEND

CONDUCTOR TYPE:	CIRCUIT DESIGNATION:
H = EXISTING UNDERGROUND	SU = MULTI-CONDUCTOR COPPER

SYMBOL KEY	
	EXISTING FIRE ALARM CONTROL PANEL
	NEW FIRE ALARM CONTROL PANEL
	NEW CELLULAR COMMUNICATOR (STARLINK)
	EXISTING UNDERGROUND FIRE ALARM CONDUCTORS IN UNDERGROUND CONDUIT TO REMAIN
	HATCH AREA IN SCOPE
	HATCH AREA OUT OF SCOPE



NOTE:
FIRE ALARM PANEL CONNECTION RISER DIAGRAM IS A GRAPHICAL REPRESENTATION ONLY. ACTUAL ROUTING SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

1
FA-100
NOT TO SCALE

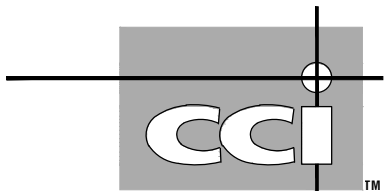
FIRE ALARM PANEL CONNECTION RISER DIAGRAM

STATE OF MISSOURI
MIKE KEHOE,
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MO # 2015000584
Expires 12-31-2026

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RENOVATION

BELLEFONTAINE
HABILITATION CENTER
10695 BELLEFONTAINE RD.
ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01

SITE # 7356

ASSET # SEE SHT G-002

REVISION: _____
DATE: _____
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DATE: _____

ISSUE DATE: 02/10/2025

CAD DWG FILE: M2006-01-7356-
6517356071-FA-100.DWG
DRAWN BY: MM
CHECKED BY: MLY
DESIGNED BY: JRC

SHEET TITLE:
SITE FIRE ALARM
PLAN

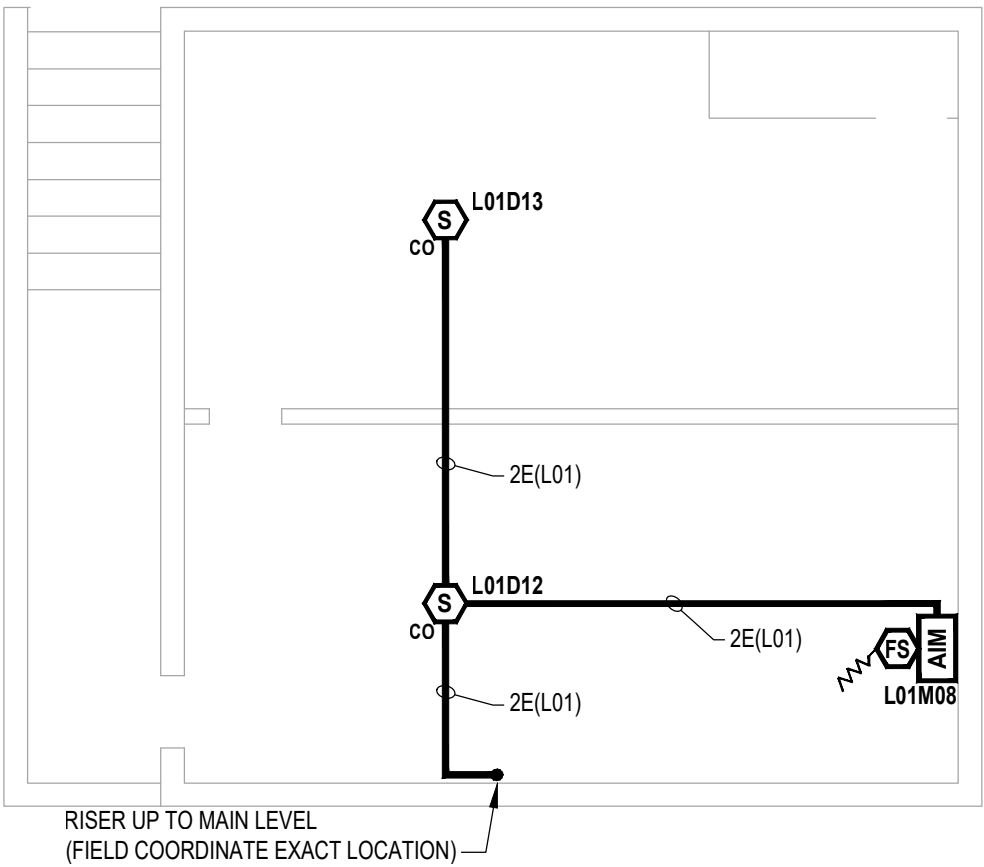
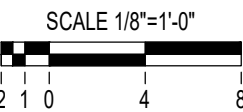
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FA-100

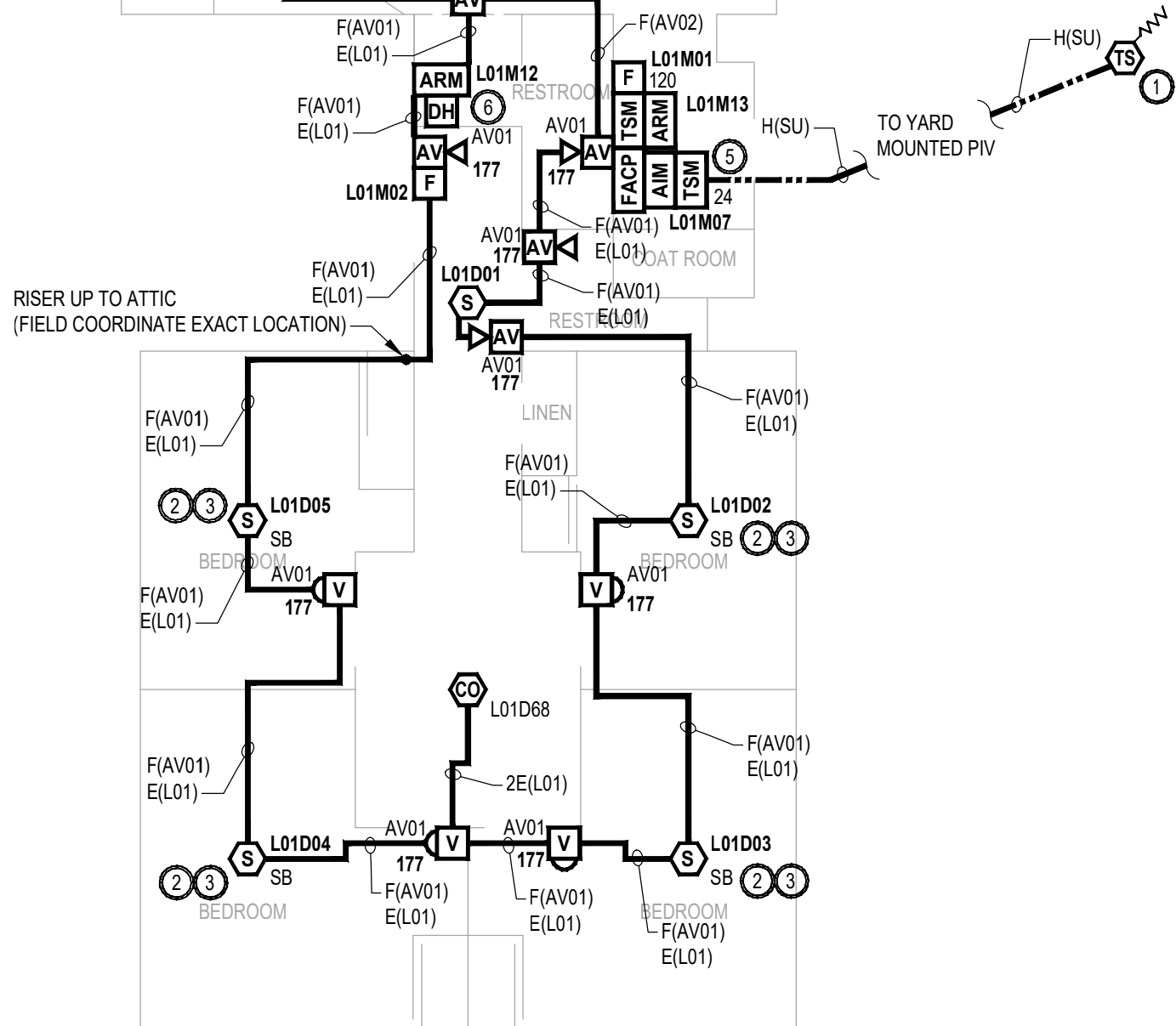
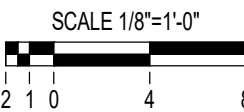
22 OF 45 SHEETS
FEBRUARY 10, 2025



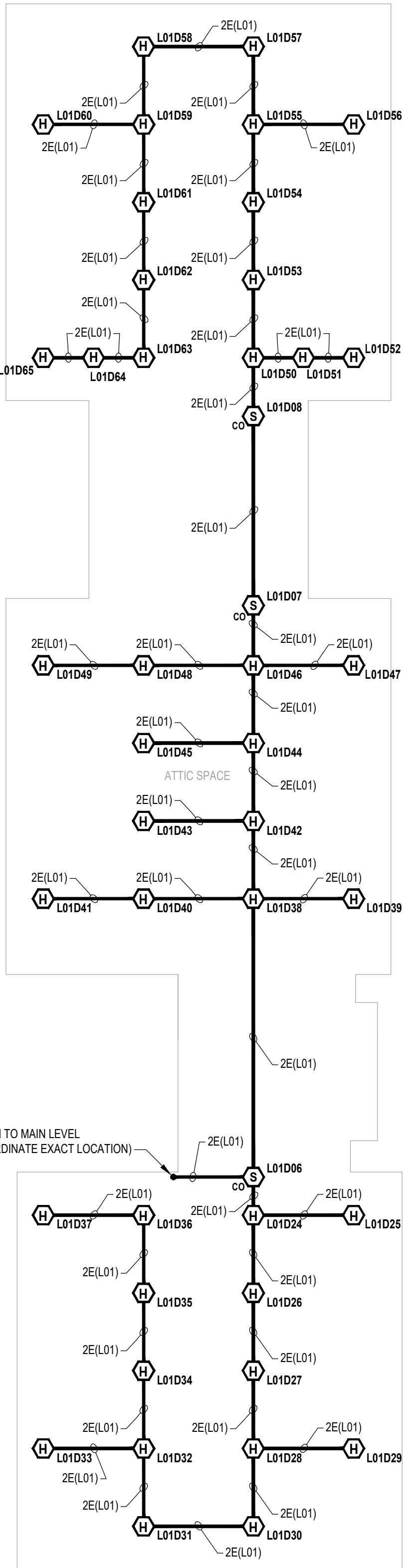
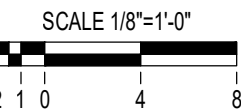
APARTMENT A BASEMENT FIRE ALARM PLAN - NEW WORK



APARTMENT A FIRE ALARM PLAN - NEW WORK



APARTMENT A ATTIC SPACE FIRE ALARM PLAN - NEW WORK



NEW SYMBOL KEY	
	ADDRESSABLE FIRE ALARM CONTROL PANEL
	AUXILIARY POWER SUPPLY
	TRANSIENT SUPPRESSION MODULE (XX = 24/120 VDC)
	DOCUMENTATION CABINET
	DUAL ACTION MANUAL PULL STATION (INTELLIGENT)
	PHOTOELECTRIC SMOKE DETECTOR (CO = CARBON MONOXIDE COMBO, SB = SOUNDER BASE, B = BATTERY POWERED SMOKE ALARM)
	135°F / 180°F FIXED TEMPERATURE AND ROR HEAT DETECTOR (INTELLIGENT)(AC = ABOVE CEILING MOUNTED)
	DUCT-TYPE PHOTOELECTRIC SMOKE DETECTOR (R = RETURN SIDE, S = SUPPLY SIDE)
	CARBON MONOXIDE DETECTOR
	FLOW SWITCH (BY OTHERS)
	TAMPER SWITCH (BY OTHERS)
	ADDRESSABLE INPUT MODULE
	ADDRESSABLE RELAY MODULE
	DOOR HOLDER (BY OTHERS)
	WALL MOUNTED AUDIBLE/VISUAL APPLIANCE (XX = CANDELA RATING) (RED COLOR)
	WALL MOUNTED VISUAL APPLIANCE (XX = CANDELA RATING) (RED COLOR)
	BELL APPLIANCE (24VDC)
	EXISTING BEAM SMOKE DETECTOR - REFLECTOR TO REMAIN
	EXISTING BEAM SMOKE DETECTOR - TRANSMITTER TO REMAIN
	EXISTING REMOTE ANNUNCIATOR TO REMAIN
	EXISTING SECURITY PANEL TO REMAIN
	EXISTING ADDRESSABLE INPUT MODULE TO REMAIN
	EXISTING KEYPAD TO REMAIN
	EXISTING DOOR CONTACT TO REMAIN
	FIRE ALARM CONDUCTORS [IN CONDUIT] (3/4" MINIMUM)
	WET LOCATION FIRE ALARM CONDUCTORS [IN UNDERGROUND CONDUIT] (1-1/2" MINIMUM)
	JUNCTION BOX
	END OF LINE RELAY
	END OF LINE RESISTOR

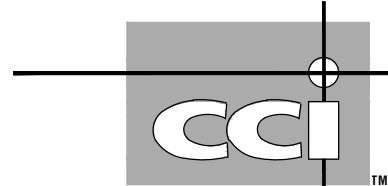
GENERAL NOTES	
1.	SEE SHEET FA801 FOR APARTMENT A FIRE ALARM MATRIX, CBE, CALCULATIONS AND RISER DIAGRAM.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



COURTNEY R. OGLE
Registered Professional Engineer
MO # 2015000584
Expires 12-31-2026

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DIVISION OF FACILITIES
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DEPARTMENT OF
MENTAL HEALTH

REPLACE FIRE ALARM
SYSTEM & ELECTRICAL
RENOVATION

BELLEVILLE
HABILITATION CENTER
10695 BELLEVILLE RD.
ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01
SITE # 7356
ASSET # SEE SHT G-002

REVISION:
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ISSUE DATE: 02/10/2025

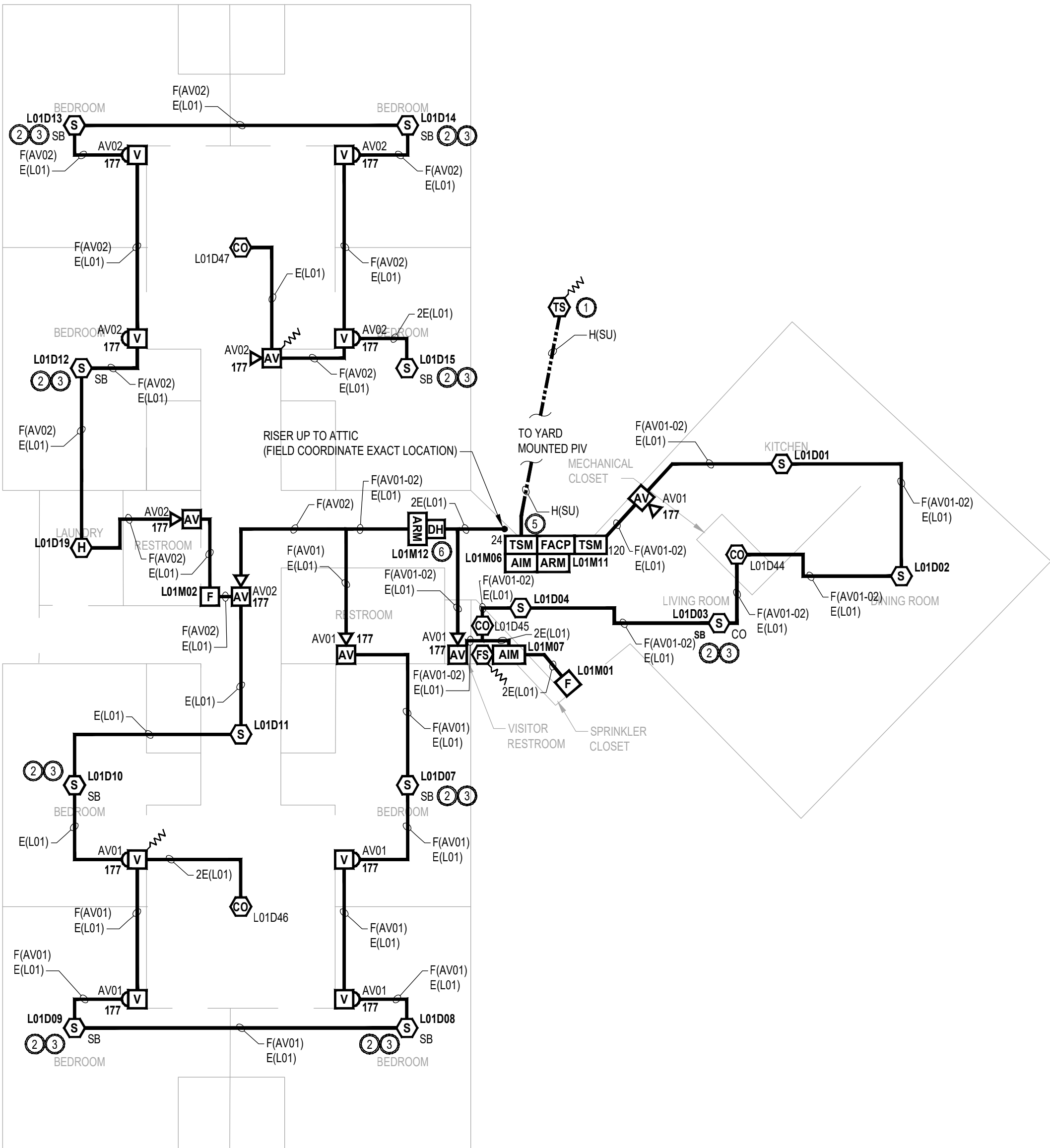
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6517356071-FA-101.DWG
DRAWN BY: MM
CHECKED BY: MLY
DESIGNED BY: JRC

SHEET TITLE:
APARTMENT A
NEW WORK
FIRE ALARM PLAN

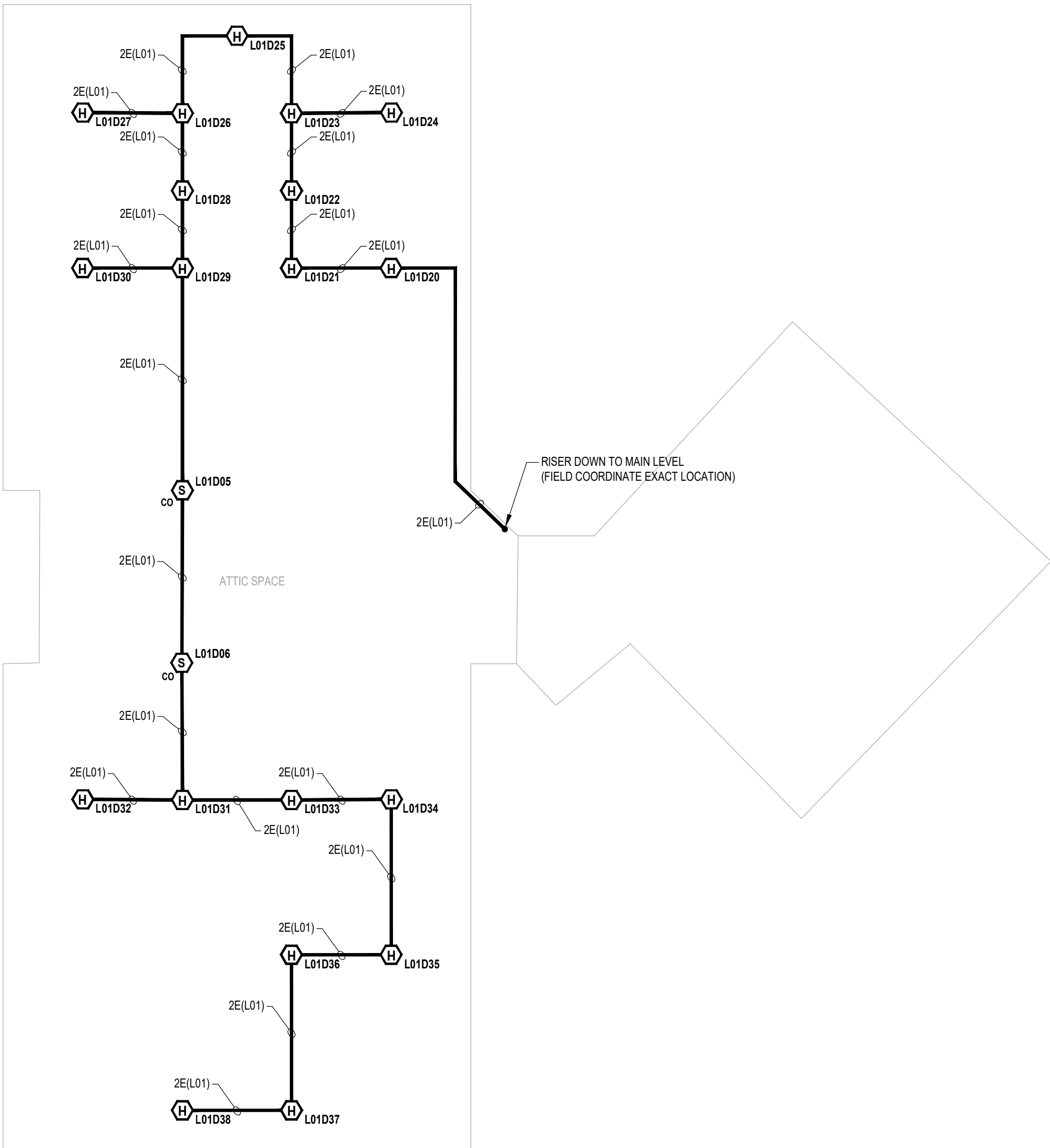
SHEET NUMBER:
FA-101

23 OF 45 SHEETS
FEBRUARY 10, 2025

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APARTMENT B FIRE ALARM PLAN - NEW WORK
SCALE 1/8"=1'-0"



APARTMENT B ATTIC SPACE FIRE ALARM PLAN - NEW WORK
SCALE 1/8"=1'-0"

NEW SYMBOL KEY	
	ADDRESSABLE FIRE ALARM CONTROL PANEL
	AUXILIARY POWER SUPPLY
	TRANSIENT SUPPRESSION MODULE (XX = 24/120 VDC)
	DOCUMENTATION CABINET
	DUAL ACTION MANUAL PULL STATION (INTELLIGENT)
	PHOTOELECTRIC SMOKE DETECTOR (CO = CARBON MONOXIDE COMBO, SB = SOUNDER BASE, B = BATTERY POWERED SMOKE ALARM)
	135°F / 180°F FIXED TEMPERATURE AND ROR HEAT DETECTOR (INTELLIGENT)(AC = ABOVE CEILING MOUNTED)
	DUCT-TYPE PHOTOELECTRIC SMOKE DETECTOR (R = RETURN SIDE, S = SUPPLY SIDE)
	CARBON MONOXIDE DETECTOR
	FLOW SWITCH (BY OTHERS)
	TAMPER SWITCH (BY OTHERS)
	ADDRESSABLE INPUT MODULE
	ADDRESSABLE RELAY MODULE
	DOOR HOLDER (BY OTHERS)
	WALL MOUNTED AUDIBLE/VISUAL APPLIANCE (XX = CANDELA RATING) (RED COLOR)
	WALL MOUNTED VISUAL APPLIANCE (XX = CANDELA RATING) (RED COLOR)
	BELL APPLIANCE (24VDC)
	EXISTING BEAM SMOKE DETECTOR - REFLECTOR TO REMAIN
	EXISTING BEAM SMOKE DETECTOR - TRANSMITTER TO REMAIN
	EXISTING REMOTE ANNUNCIATOR TO REMAIN
	EXISTING SECURITY PANEL TO REMAIN
	EXISTING ADDRESSABLE INPUT MODULE TO REMAIN
	EXISTING KEYPAD TO REMAIN
	EXISTING DOOR CONTACT TO REMAIN
	FIRE ALARM CONDUCTORS [IN CONDUIT] (3/4" MINIMUM)
	WET LOCATION FIRE ALARM CONDUCTORS [IN UNDERGROUND CONDUIT] (1-1/2" MINIMUM)
	JUNCTION BOX
	END OF LINE RELAY
	END OF LINE RESISTOR

GENERAL NOTES	
1.	SEE SHEET FA02 FOR APARTMENT B FIRE ALARM MATRIX, CBE, CALCULATIONS AND RISER DIAGRAM.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

COURTNEY R. OGLE
NUMBER
PE-2015000584
PROFESSIONAL ENGINEER
02-14
COURTNEY R. OGLE
Registered Professional Engineer
MO # 2015000584
Expires 12-31-2026

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OF AUTHORITY #000408

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REPLACE FIRE ALARM
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RENOVATION

BELLEVILLE
HABILITATION CENTER
10695 BELLEVILLE RD.
ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01
SITE # 7356
ASSET # SEE SHT G-002

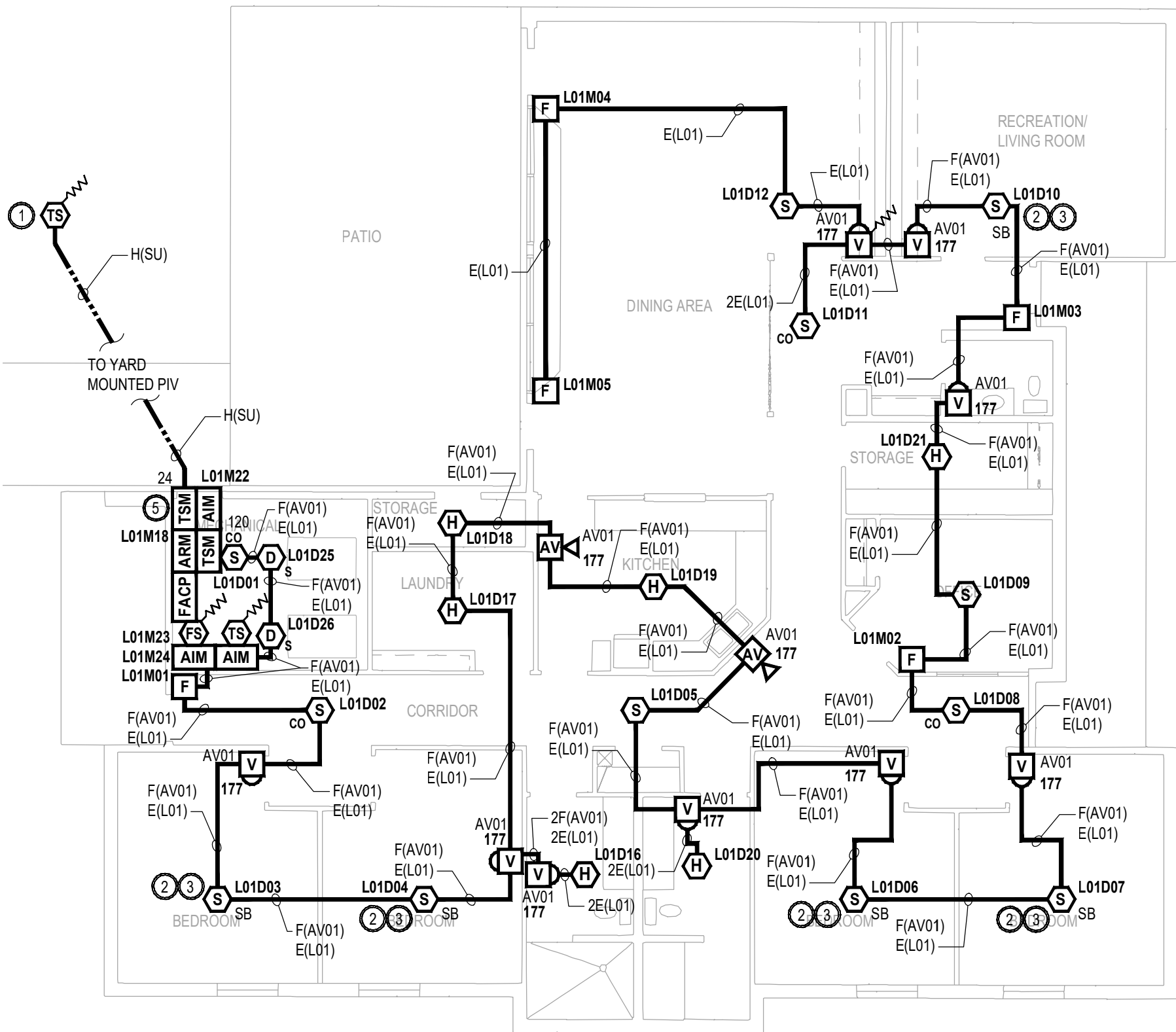
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ISSUE DATE: 02/10/2025
CAD DWG FILE: M2006-01-7356-
6517356071-FA-102.DWG
DRAWN BY: MM
CHECKED BY: MLY
DESIGNED BY: JRC

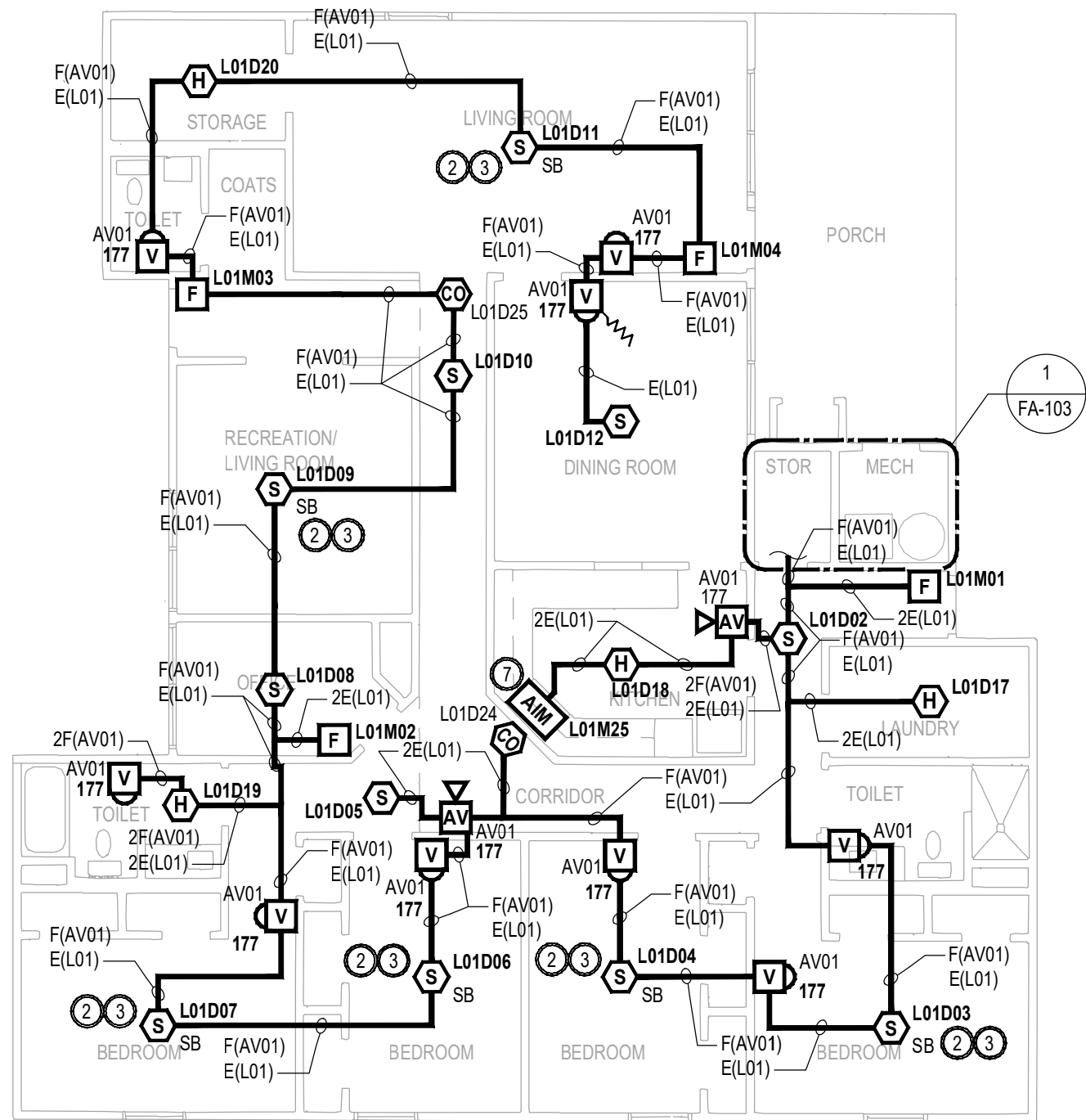
SHEET TITLE:
APARTMENT B
NEW WORK
FIRE ALARM PLAN

SHEET NUMBER:
FA-102

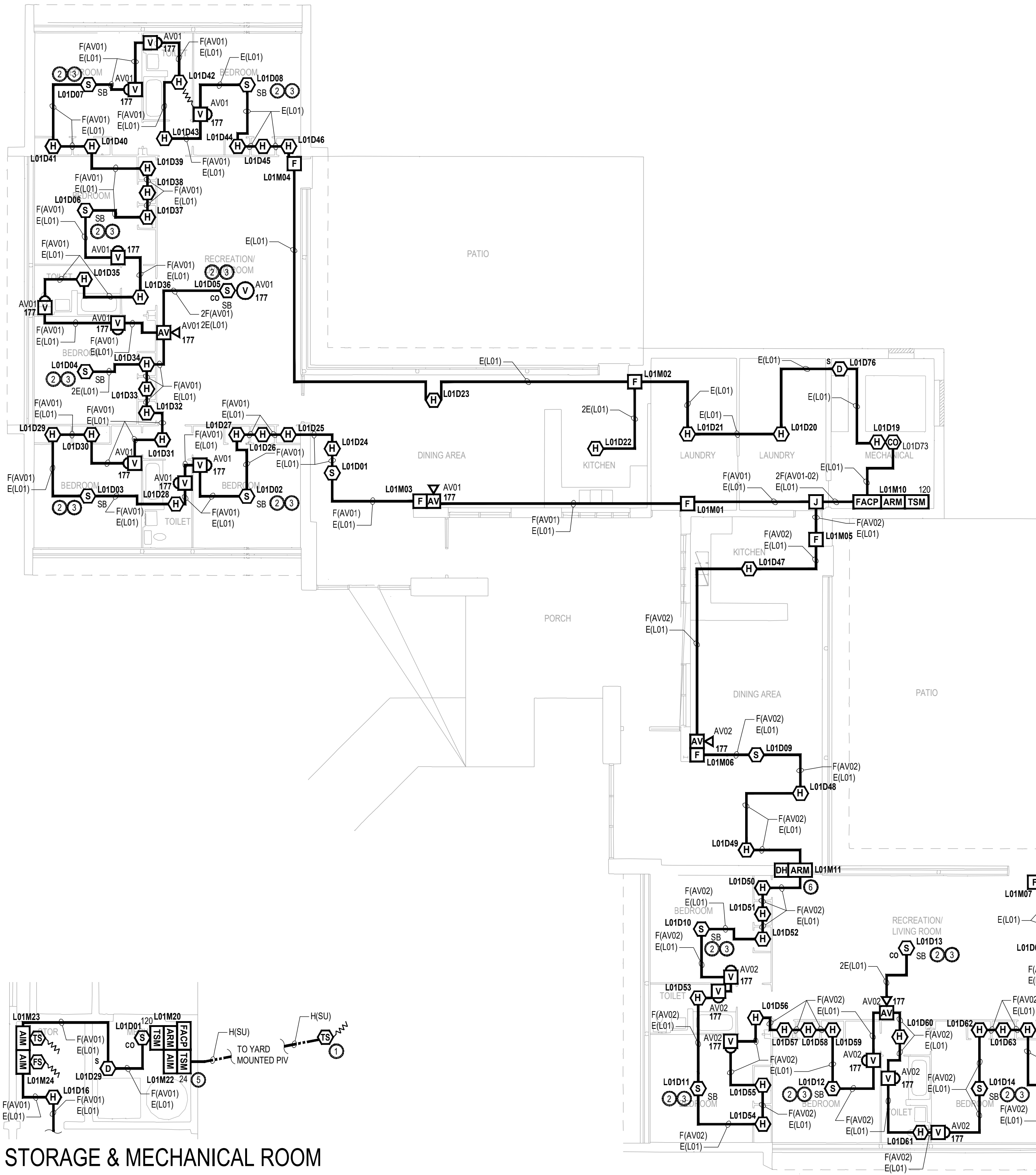
24 OF 45 SHEETS
FEBRUARY 10, 2025



 **BUILDINGS 1601-1610, 1908 FIRE ALARM PLAN - NEW WORK**
SCALE 1/8"=1'-0"
2 1 0 4 8



 **BUILDINGS 1801-1810 FIRE ALARM PLAN - NEW WORK**
SCALE 1/8"=1'-0"
2 1 0 4 8



 **STORAGE & MECHANICAL ROOM
FIRE ALARM PLAN - NEW WORK**
SCALE 1/8"=1'-0"
1 0 2 4

 **BUILDINGS 1901-1906 FIRE ALARM PLAN - NEW WORK**
SCALE 1/8"=1'-0"
2 1 0 4 8

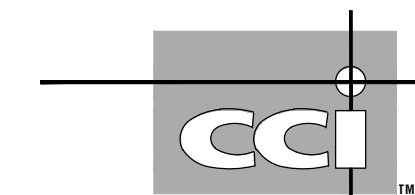
NEW SYMBOL KEY	
	ADDRESSABLE FIRE ALARM CONTROL PANEL
	AUXILIARY POWER SUPPLY
	TRANSIENT SUPPRESSION MODULE (XX = 24/120 VDC)
	DOCUMENTATION CABINET
	DUAL ACTION MANUAL PULL STATION (INTELLIGENT)
	PHOTOELECTRIC SMOKE DETECTOR (CO = CARBON MONOXIDE COMBO, SB = SOUNDER BASE, B = BATTERY POWERED SMOKE ALARM)
	135°F / 180°F FIXED TEMPERATURE AND ROR HEAT DETECTOR (INTELLIGENT)(AC = ABOVE CEILING MOUNTED)
	DUCT-TYPE PHOTOELECTRIC SMOKE DETECTOR (R = RETURN SIDE, S = SUPPLY SIDE)
	CARBON MONOXIDE DETECTOR
	FLOW SWITCH (BY OTHERS)
	TAMPER SWITCH (BY OTHERS)
	ADDRESSABLE INPUT MODULE
	ADDRESSABLE RELAY MODULE
	DOOR HOLDER (BY OTHERS)
	WALL MOUNTED AUDIBLE/VISUAL APPLIANCE (XX = CANDELA RATING) (RED COLOR)
	WALL MOUNTED VISUAL APPLIANCE (XX = CANDELA RATING) (RED COLOR)
	BELL APPLIANCE (24VDC)
	EXISTING BEAM SMOKE DETECTOR - REFLECTOR TO REMAIN
	EXISTING BEAM SMOKE DETECTOR - TRANSMITTER TO REMAIN
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	EXISTING SECURITY PANEL TO REMAIN
	EXISTING ADDRESSABLE INPUT MODULE TO REMAIN
	EXISTING KEYPAD TO REMAIN
	EXISTING DOOR CONTACT TO REMAIN
	FIRE ALARM CONDUCTORS [IN CONDUIT] (3/4" MINIMUM)
	WET LOCATION FIRE ALARM CONDUCTORS [IN UNDERGROUND CONDUIT] (1-1/2" MINIMUM)
	JUNCTION BOX
	END OF LINE RELAY
	END OF LINE RESISTOR

- | GENERAL NOTES | |
|---------------|---|
| 1. | SEE SHEET FA803 FOR BUILDINGS 1801-1610, 1908 FIRE ALARM MATRIX, CBE, CALCULATIONS AND RISER DIAGRAM. |
| 2. | SEE SHEET FA804 FOR BUILDINGS 1801-1810 FIRE ALARM MATRIX, CBE, CALCULATIONS AND RISER DIAGRAM. |
| 3. | SEE SHEET FA805 FOR BUILDINGS 1901-1908 FIRE ALARM MATRIX, CBE, CALCULATIONS AND RISER DIAGRAM. |



COURTNEY R. OGLE
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MO # 2015000584
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REPLACE FIRE ALARM
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BELLEFONTAINE
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10695 BELLEFONTAINE RD.
ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01
SITE # 7356
ASSET # SEE SHT G-002

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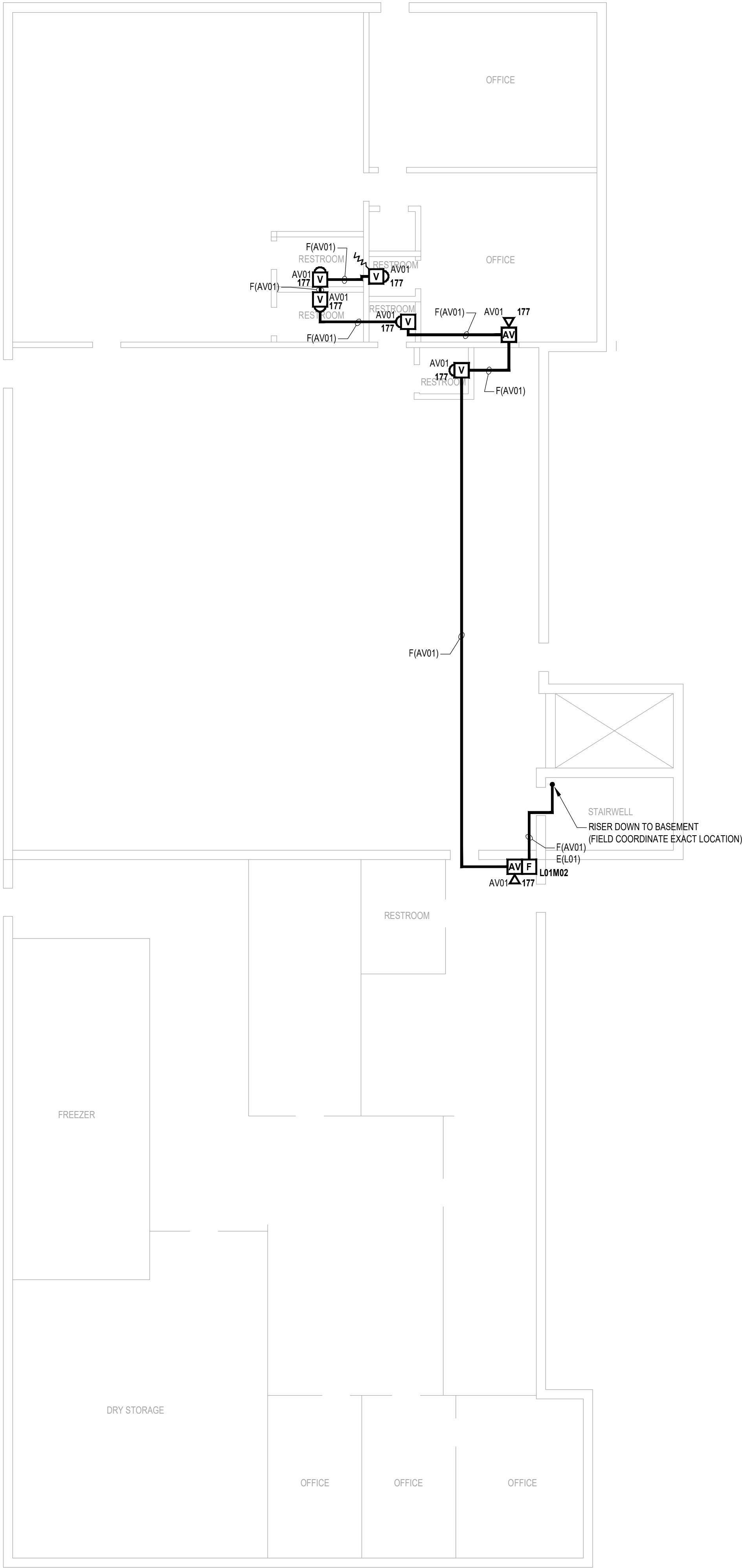
ISSUE DATE: 02/10/2025

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DRAWN BY: MM
CHECKED BY: MLY
DESIGNED BY: JRC

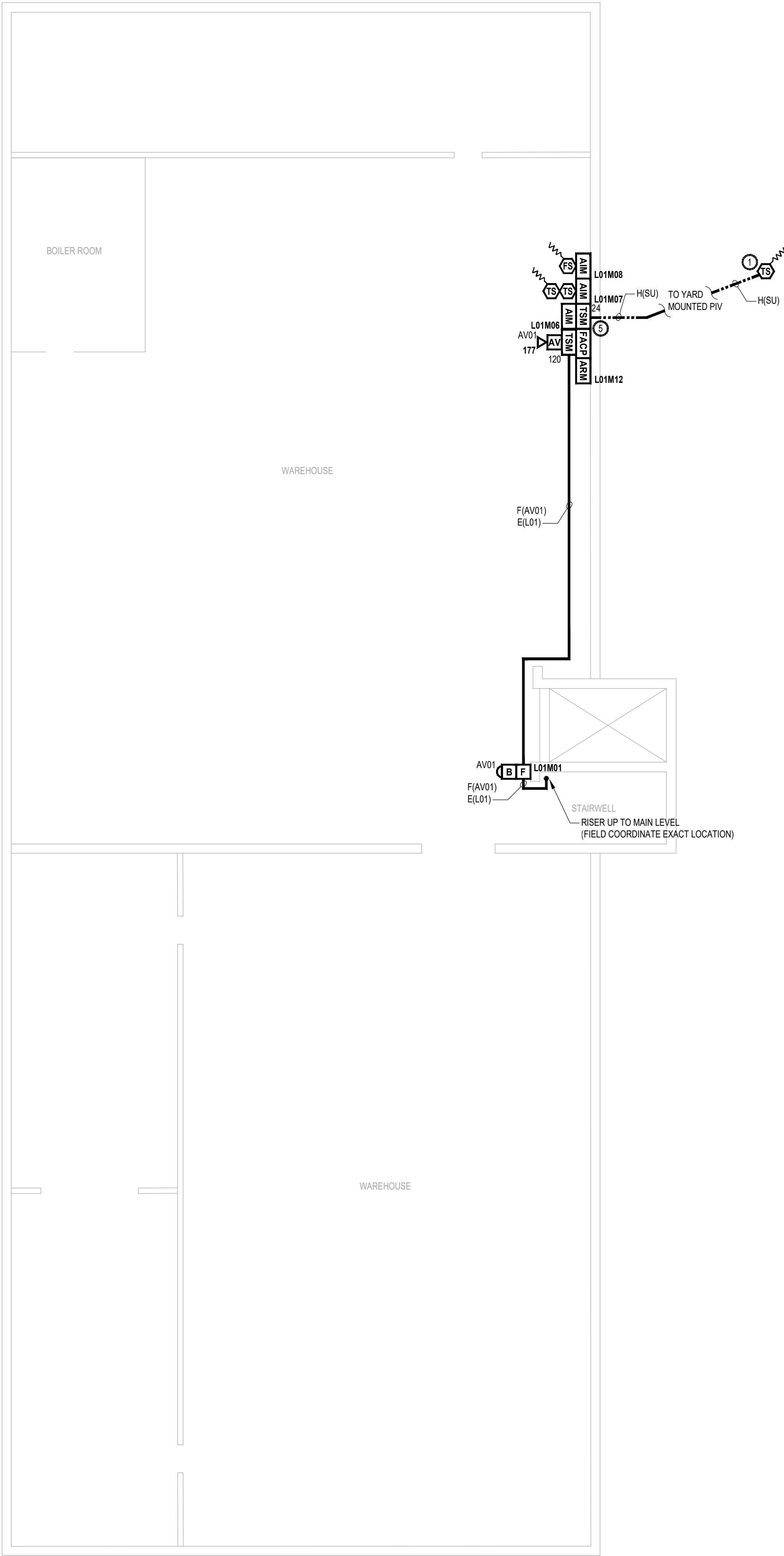
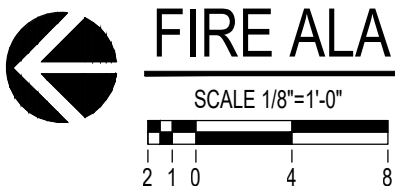
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BUILDINGS 1601-1610, 1908,
1801-1810, 1901-1906
NEW WORK
FIRE ALARM PLAN

SHEET NUMBER:

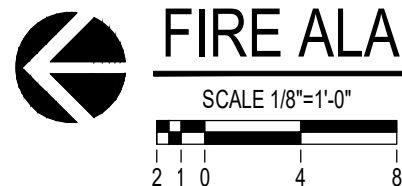
FA-103



WAREHOUSE/FOOD DISTRIBUTION CENTER
FIRE ALARM PLAN - NEW WORK



WAREHOUSE/FOOD DISTRIBUTION CENTER BASEMENT
FIRE ALARM PLAN - NEW WORK



NEW SYMBOL KEY	
	ADDRESSABLE FIRE ALARM CONTROL PANEL
	AUXILIARY POWER SUPPLY
	TRANSIENT SUPPRESSION MODULE (XX = 24/120 VDC)
	DOCUMENTATION CABINET
	DUAL ACTION MANUAL PULL STATION (INTELLIGENT)
	PHOTOELECTRIC SMOKE DETECTOR (CO = CARBON MONOXIDE COMBO, SB = SOUNDER BASE, B = BATTERY POWERED SMOKE ALARM)
	135°F / 180°F FIXED TEMPERATURE AND ROR HEAT DETECTOR (INTELLIGENT)(AC = ABOVE CEILING MOUNTED)
	DUCT-TYPE PHOTOELECTRIC SMOKE DETECTOR (R = RETURN SIDE, S = SUPPLY SIDE)
	CARBON MONOXIDE DETECTOR
	FLOW SWITCH (BY OTHERS)
	TAMPER SWITCH (BY OTHERS)
	ADDRESSABLE INPUT MODULE
	ADDRESSABLE RELAY MODULE
	DOOR HOLDER (BY OTHERS)
	WALL MOUNTED AUDIBLE/VISUAL APPLIANCE (XX = CANDELA RATING) (RED COLOR)
	WALL MOUNTED VISUAL APPLIANCE (XX = CANDELA RATING) (RED COLOR)
	BELL APPLIANCE (24VDC)
	EXISTING BEAM SMOKE DETECTOR - REFLECTOR TO REMAIN
	EXISTING BEAM SMOKE DETECTOR - TRANSMITTER TO REMAIN
	EXISTING REMOTE ANNUNCIATOR TO REMAIN
	EXISTING SECURITY PANEL TO REMAIN
	EXISTING KEYPAD TO REMAIN
	EXISTING DOOR CONTACT TO REMAIN
	FIRE ALARM CONDUCTORS [IN CONDUIT] (3/4" MINIMUM)
	WET LOCATION FIRE ALARM CONDUCTORS [IN UNDERGROUND CONDUIT] (1-1/2" MINIMUM)
	JUNCTION BOX
	END OF LINE RELAY
	END OF LINE RESISTOR

GENERAL NOTES	
1.	SEE SHEET FA006 FOR FOOD BUILDING FIRE ALARM MATRIX, CBE, CALCULATIONS AND RISER DIAGRAM.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

COURTNEY R. OGLE
Registered Professional Engineer
MO # 2015000584
Expires 12-31-2026

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RENOVATION

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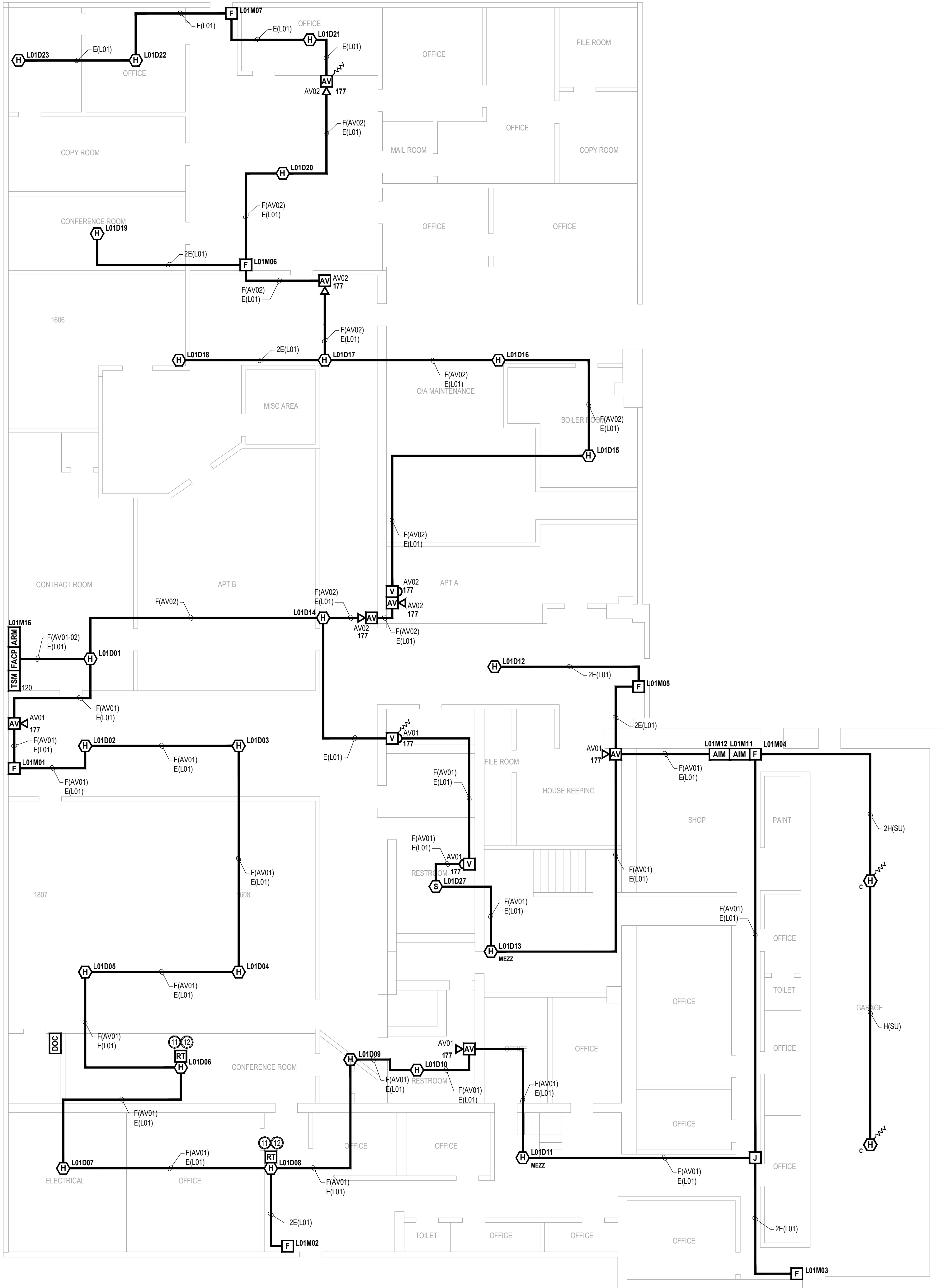
PROJECT # M2006-01
SITE # 7356
ASSET # SEE SHT G-002

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CAD DWG FILE: M2006-01-7356-
6517356071-FA-104.DWG
DRAWN BY: MM
CHECKED BY: MLY
DESIGNED BY: JRC

SHEET TITLE:
WAREHOUSE/FOOD
DISTRIBUTION
CENTER NEW WORK
FIRE ALARM PLAN

SHEET NUMBER:
FA-104



MAINTENANCE BUILDING FIRE ALARM PLAN - NEW WORK

SCALE 1/8"=1'-0"
2 1 0 4 8

NEW SYMBOL KEY	
	ADDRESSABLE FIRE ALARM CONTROL PANEL
	AUXILIARY POWER SUPPLY
	TRANSIENT SUPPRESSION MODULE (XX = 24/20 VDC)
	DOCUMENTATION CABINET
	DUAL ACTION MANUAL PULL STATION (INTELLIGENT)
	PHOTOELECTRIC SMOKE DETECTOR (CO = CARBON MONOXIDE COMBO, SB = SOUNDER BASE, B = BATTERY POWERED SMOKE ALARM)
	135°F / 180°F FIXED TEMPERATURE AND ROR HEAT DETECTOR (INTELLIGENT)(AC = ABOVE CEILING MOUNTED)
	DUCT-TYPE PHOTOELECTRIC SMOKE DETECTOR (R = RETURN SIDE, S = SUPPLY SIDE)
	CARBON MONOXIDE DETECTOR
	FLOW SWITCH (BY OTHERS)
	TAMPER SWITCH (BY OTHERS)
	ADDRESSABLE INPUT MODULE
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	DOOR HOLDER (BY OTHERS)
	WALL MOUNTED AUDIBLE/VISUAL APPLIANCE (XX = CANDELA RATING) (RED COLOR)
	WALL MOUNTED VISUAL APPLIANCE (XX = CANDELA RATING) (RED COLOR)
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	EXISTING BEAM SMOKE DETECTOR - REFLECTOR TO REMAIN
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	EXISTING REMOTE ANNUNCIATOR TO REMAIN
	EXISTING SECURITY PANEL TO REMAIN
	EXISTING KEYPAD TO REMAIN
	EXISTING DOOR CONTACT TO REMAIN
	FIRE ALARM CONDUCTORS [IN CONDUIT] (3/4" MINIMUM)
	WET LOCATION FIRE ALARM CONDUCTORS [IN UNDERGROUND CONDUIT] (1-1/2" MINIMUM)
	JUNCTION BOX
	END OF LINE RELAY
	END OF LINE RESISTOR

GENERAL NOTES

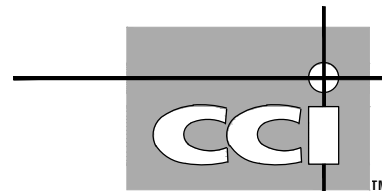
- SEE SHEET FA07 FOR MAINTENANCE BUILDING FIRE ALARM MATRIX, CBE, CALCULATIONS AND RISER DIAGRAM.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



COURTNEY R. OGLE
Registered Professional Engineer
MO # 2015000584
Expires 12-31-2026

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PROJECT # M2006-01

SITE # 7356

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CHECKED BY: MLY
DESIGNED BY: JRC

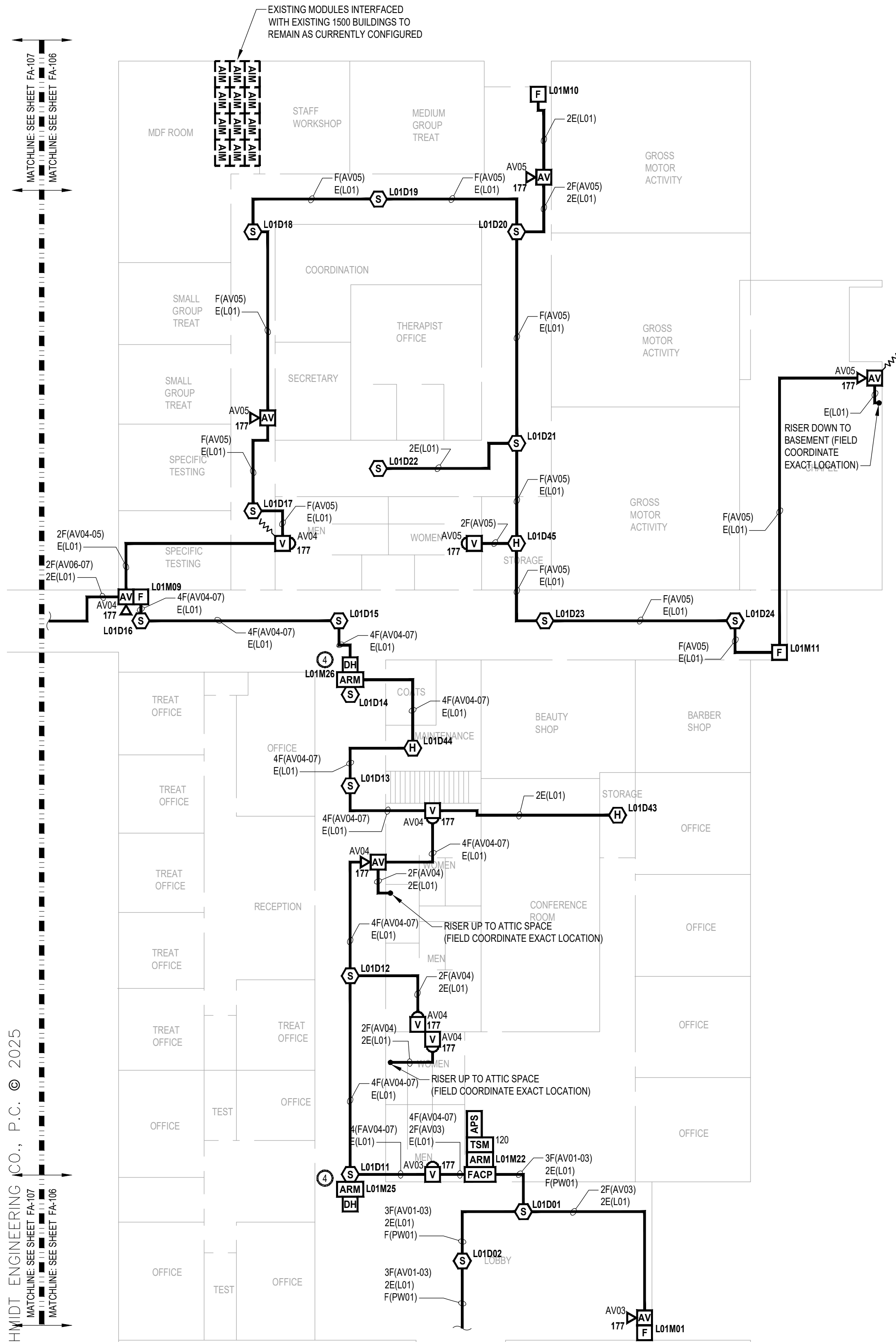
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MAINTENANCE
BUILDING NEW WORK
FIRE ALARM PLAN

SHEET NUMBER:

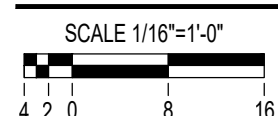
FA-105

27 OF 45 SHEETS
FEBRUARY 10, 2025

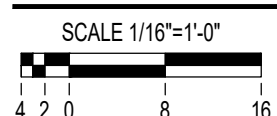
BASEMENT FIRE ALARM PLAN - NEW WORK



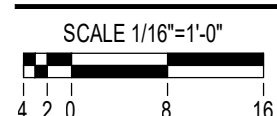
MULTIPURPOSE BUILDING PART A FIRE ALARM PLAN - NEW WORK



MULTIPURPOSE BUILDING PART B FIRE ALARM PLAN - NEW WORK

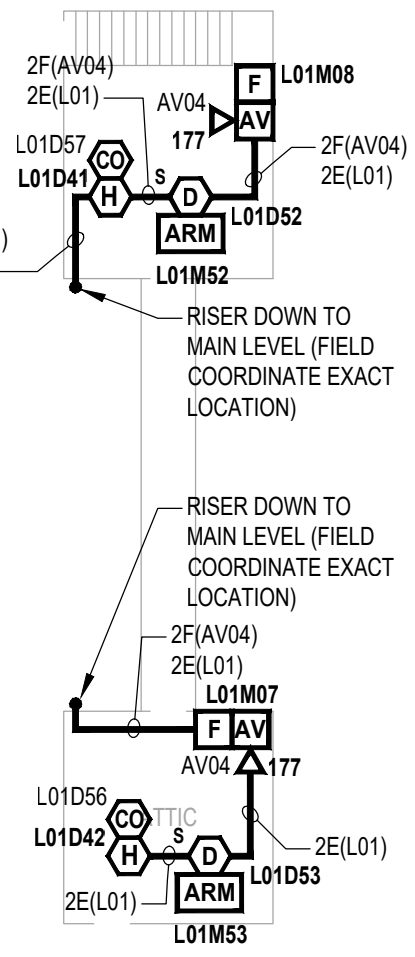


ATTIC FIRE ALARM PLAN - NEW WORK



NEW SYMBOL KEY	
	ADDRESSABLE FIRE ALARM CONTROL PANEL
	AUXILIARY POWER SUPPLY
	TRANSIENT SUPPRESSION MODULE (XX = 24/20 VDC)
	DOCUMENTATION CABINET
	DUAL ACTION MANUAL PULL STATION (INTELLIGENT)
	PHOTOELECTRIC SMOKE DETECTOR (CO = CARBON MONOXIDE COMBO, SB = SOUNDER BASE, B = BATTERY POWERED SMOKE ALARM)
	135°F / 180°F FIXED TEMPERATURE AND ROR HEAT DETECTOR (INTELLIGENT)(AC = ABOVE CEILING MOUNTED)
	DUCT-TYPE PHOTOELECTRIC SMOKE DETECTOR (R = RETURN SIDE, S = SUPPLY SIDE)
	CARBON MONOXIDE DETECTOR
	FLOW SWITCH (BY OTHERS)
	TAMPER SWITCH (BY OTHERS)
	ADDRESSABLE INPUT MODULE
	ADDRESSABLE RELAY MODULE
	DOOR HOLDER (BY OTHERS)
	WALL MOUNTED AUDIBLE/VISUAL APPLIANCE (XX = CANDELA RATING) (RED COLOR)
	WALL MOUNTED VISUAL APPLIANCE (XX = CANDELA RATING) (RED COLOR)
	BELL APPLIANCE (24VDC)
	EXISTING BEAM SMOKE DETECTOR - REFLECTOR TO REMAIN
	EXISTING BEAM SMOKE DETECTOR - TRANSMITTER TO REMAIN
	EXISTING REMOTE ANNUNCIATOR TO REMAIN
	EXISTING SECURITY PANEL TO REMAIN
	EXISTING ADDRESSABLE INPUT MODULE TO REMAIN
	EXISTING KEYPAD TO REMAIN
	EXISTING DOOR CONTACT TO REMAIN
	FIRE ALARM CONDUCTORS [IN CONDUIT] (3/4" MINIMUM)
	WET LOCATION FIRE ALARM CONDUCTORS [IN UNDERGROUND CONDUIT] (1-1/2" MINIMUM)
	JUNCTION BOX
	END OF LINE RELAY
	END OF LINE RESISTOR

GENERAL NOTES	
1.	SEE SHEET FA-08 FOR MULTIPURPOSE BUILDING FIRE ALARM MATRIX, CALCULATIONS, CBE AND RISER DIAGRAM.



KEY PLAN

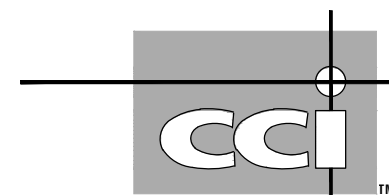
NOT TO SCALE

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



COURTNEY R. OGLE
Registered Professional Engineer
MO # 2015000584
Expires 12-31-2026

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DEPARTMENT OF
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REPLACE FIRE ALARM
SYSTEM & ELECTRICAL
RENOVATION

BELLEFONTAINE
HABILITATION CENTER
10695 BELLEFONTAINE RD.
ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01
SITE # 7356
ASSET # SEE SHT G-002

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
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DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 02/10/2025

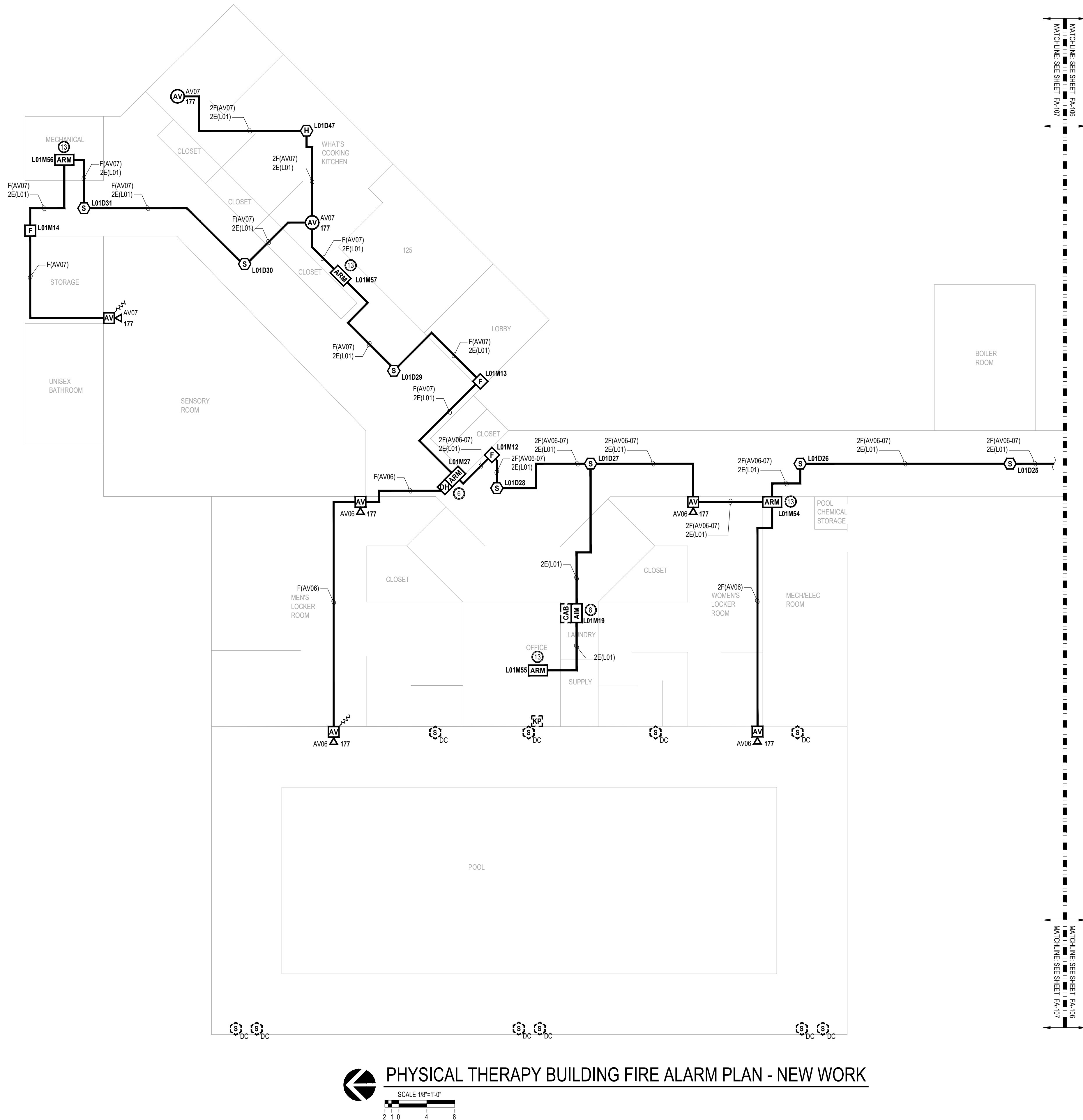
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DRAWN BY: MM
CHECKED BY: MLY
DESIGNED BY: JRC

SHEET TITLE:
MULTIPURPOSE
BUILDING
NEW WORK
FIRE ALARM PLAN

SHEET NUMBER:

FA-106

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FEBRUARY 10, 2025



NEW SYMBOL KEY	
	ADDRESSABLE FIRE ALARM CONTROL PANEL
	AUXILIARY POWER SUPPLY
	TRANSIENT SUPPRESSION MODULE (XX = 24/120 VDC)
	DOCUMENTATION CABINET
	DUAL ACTION MANUAL PULL STATION (INTELLIGENT)
	PHOTOELECTRIC SMOKE DETECTOR (CO = CARBON MONOXIDE COMBO, SB = SOUNDER BASE, B = BATTERY POWERED SMOKE ALARM)
	135°F / 190°F FIXED TEMPERATURE AND ROR HEAT DETECTOR (INTELLIGENT)(AC = ABOVE CEILING MOUNTED)
	DUCT-TYPE PHOTOELECTRIC SMOKE DETECTOR (R = RETURN SIDE, S = SUPPLY SIDE)
	CARBON MONOXIDE DETECTOR
	FLOW SWITCH (BY OTHERS)
	TAMPER SWITCH (BY OTHERS)
	ADDRESSABLE INPUT MODULE
	ADDRESSABLE RELAY MODULE
	DOOR HOLDER (BY OTHERS)
	WALL MOUNTED AUDIBLE/VISUAL APPLIANCE (XX = CANDELA RATING) (RED COLOR)
	WALL MOUNTED VISUAL APPLIANCE (XX = CANDELA RATING) (RED COLOR)
	BELL APPLIANCE (24VDC)
	EXISTING BEAM SMOKE DETECTOR - REFLECTOR TO REMAIN
	EXISTING BEAM SMOKE DETECTOR - TRANSMITTER TO REMAIN
	EXISTING REMOTE ANNUNCIATOR TO REMAIN
	EXISTING SECURITY PANEL TO REMAIN
	EXISTING ADDRESSABLE INPUT MODULE TO REMAIN
	EXISTING KEYPAD TO REMAIN
	EXISTING DOOR CONTACT TO REMAIN
	FIRE ALARM CONDUCTORS [IN CONDUIT] (3/4" MINIMUM)
	WET LOCATION FIRE ALARM CONDUCTORS [IN UNDERGROUND CONDUIT] (1-1/2" MINIMUM)
	JUNCTION BOX
	END OF LINE RELAY
	END OF LINE RESISTOR

GENERAL NOTES	
1.	SEE SHEET FA608 FOR THERAPEUTIC BUILDING FIRE ALARM MATRIX, CALCULATIONS, CBE AND RISER DIAGRAM.

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PROJECT # M2006-01
SITE # 7356
ASSET # SEE SHT G-002

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REVISION: _____
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ISSUE DATE: 02/10/2025

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6517356071-FA-107.DWG

DRAWN BY: MM

CHECKED BY: MLY

DESIGNED BY: JRC

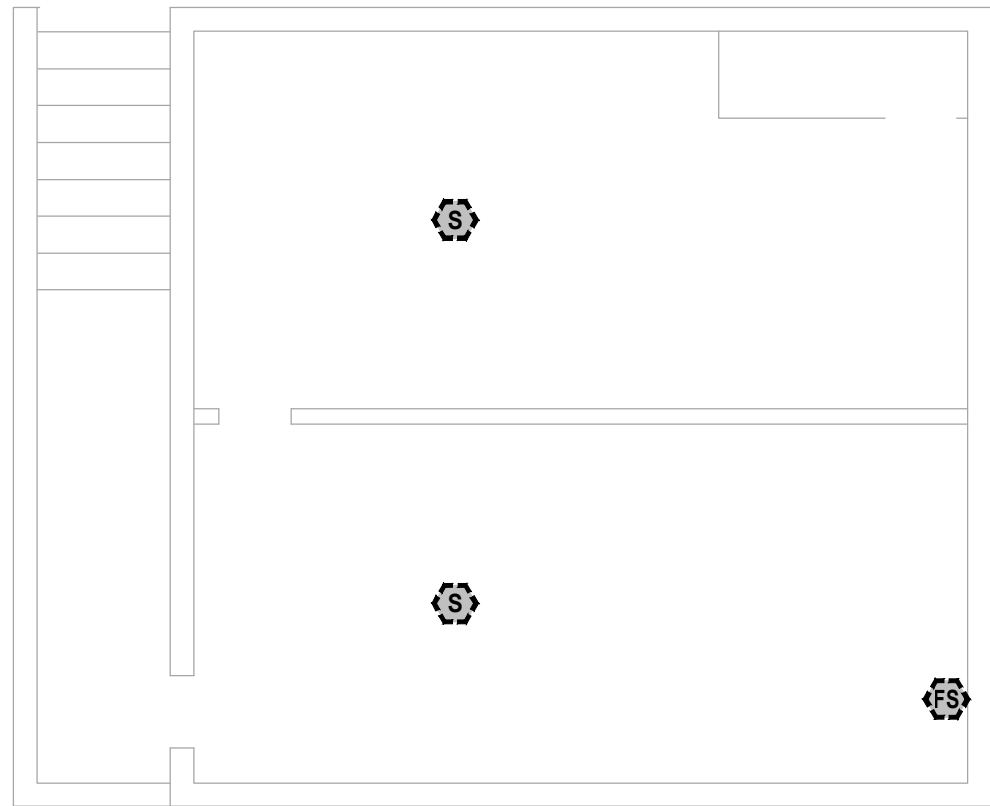
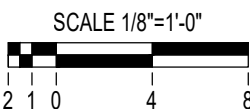
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PHYSICAL THERAPY
BUILDING
NEW WORK
FIRE ALARM PLAN

SHEET NUMBER:

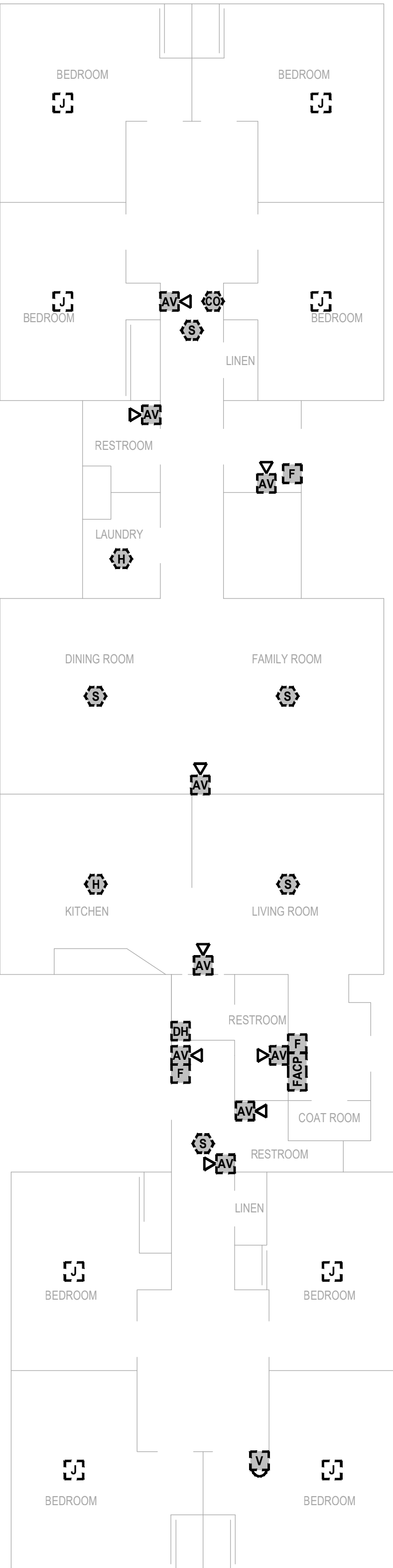
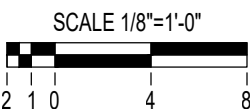
29 OF 45 SHEETS
FEBRUARY 10, 2025



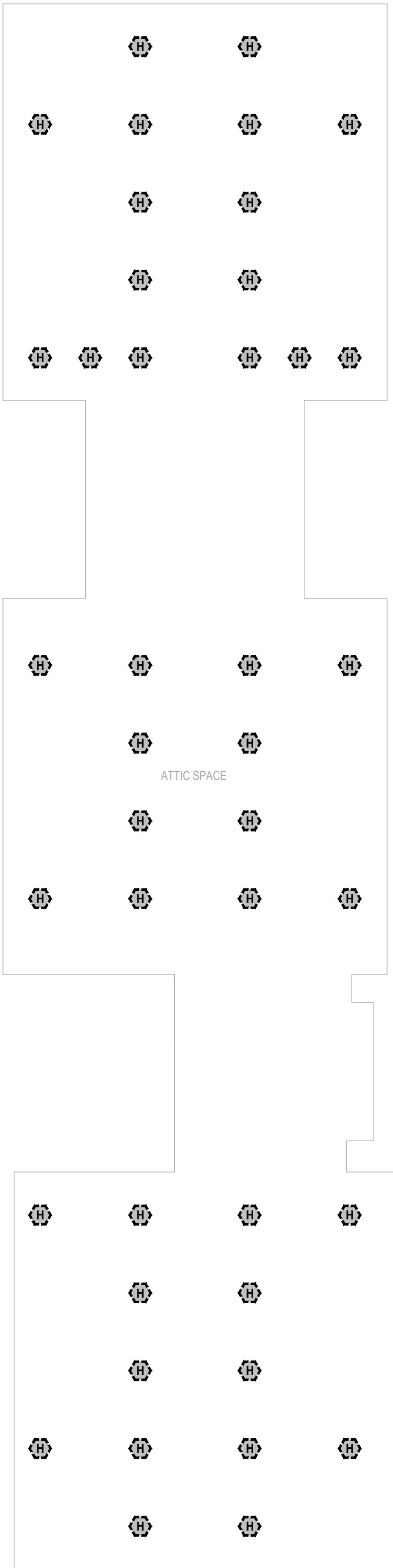
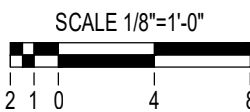
APARTMENT A BASEMENT FIRE ALARM PLAN - DEMOLITION WORK



APARTMENT A FIRE ALARM PLAN - DEMOLITION WORK



APARTMENT A ATTIC SPACE FIRE ALARM PLAN - DEMOLITION WORK



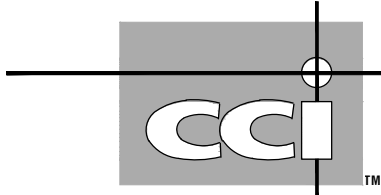
DEMO SYMBOL KEY	
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	EXISTING FIRE ALARM CABINET TO BE REMOVED
	EXISTING AUXILIARY RELAY MODULE TO BE DISCONNECTED
	EXISTING AUXILIARY POWER SUPPLY TO BE DISCONNECTED
	EXISTING MANUAL PULL STATION TO BE DISCONNECTED
	EXISTING PHOTOELECTRIC SMOKE DETECTOR TO BE DISCONNECTED
	EXISTING DUCT-TYPE PHOTOELECTRIC SMOKE DETECTOR TO BE DISCONNECTED
	EXISTING HEAT DETECTOR TO BE DISCONNECTED
	EXISTING FIRE SPRINKLER WATERFLOW SWITCH TO BE DISCONNECTED
	EXISTING FIRE SPRINKLER CONTROL VALVE TAMPER SWITCH TO BE DISCONNECTED
	EXISTING CARBON MONOXIDE DETECTOR TO BE DISCONNECTED
	EXISTING DOOR HOLDER TO BE DISCONNECTED
	EXISTING BELL APPLIANCE TO BE DISCONNECTED
	EXISTING WALL MOUNTED AUDIBLE/VISUAL APPLIANCE TO BE DISCONNECTED
	EXISTING WALL MOUNTED VISUAL APPLIANCE TO DISCONNECTED
	EXISTING BEAM SMOKE DETECTOR - RECEIVER TO REMAIN
	EXISTING BEAM SMOKE DETECTOR - TRANSMITTER TO REMAIN
	EXISTING REMOTE ANNUNCIATOR TO REMAIN
	EXISTING SECURITY PANEL TO REMAIN
	EXISTING ADDRESSABLE INPUT MODULE TO REMAIN
	EXISTING KEYPAD TO REMAIN
	EXISTING DOOR CONTACT TO REMAIN

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



COURTNEY R. OGLE
Registered Professional Engineer
MO # 2015000584
Expires 12-31-2026

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ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01

SITE # 7356

ASSET # SEE SHT G-002

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
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DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 02/10/2025

CAD DWG FILE: M2006-01-7356-
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DRAWN BY: MM
CHECKED BY: MLY
DESIGNED BY: JRC

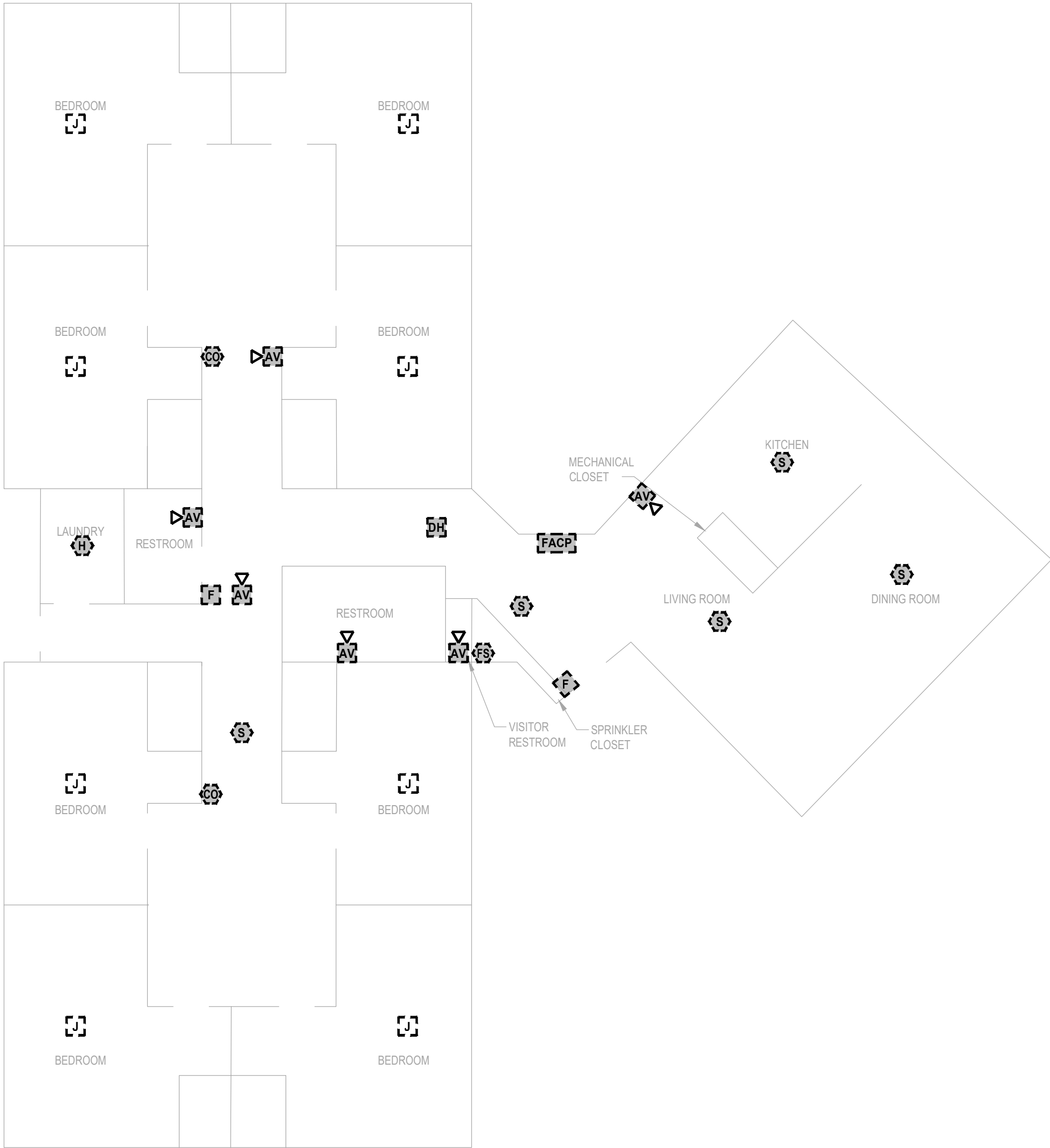
SHEET TITLE:
APARTMENT A
DEMOLITION WORK
FIRE ALARM PLAN

SHEET NUMBER:

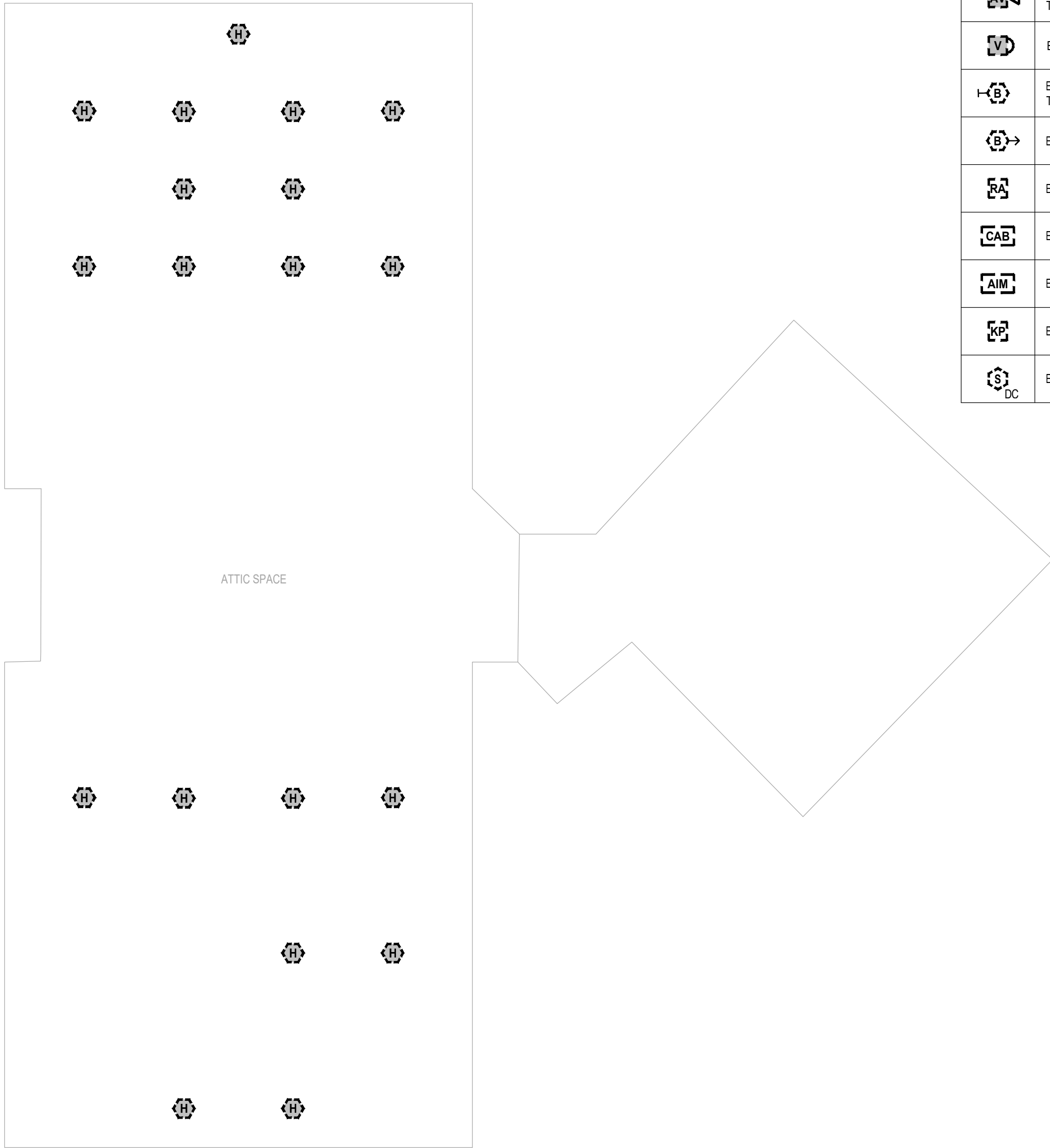
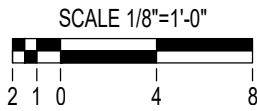
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FEBRUARY 10, 2025

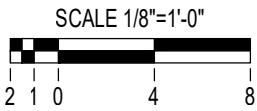
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APARTMENT B FIRE ALARM PLAN - DEMOLITION WORK



APARTMENT B ATTIC SPACE FIRE ALARM PLAN - DEMOLITION WORK



DEMO SYMBOL KEY	
	EXISTING ADDRESSABLE FIRE ALARM CONTROL PANEL TO BE DISCONNECTED
	EXISTING FIRE ALARM CABINET TO BE REMOVED
	EXISTING AUXILIARY RELAY MODULE TO BE DISCONNECTED
	EXISTING AUXILIARY POWER SUPPLY TO BE DISCONNECTED
	EXISTING MANUAL PULL STATION TO BE DISCONNECTED
	EXISTING PHOTOELECTRIC SMOKE DETECTOR TO BE DISCONNECTED
	EXISTING DUCT-TYPE PHOTOELECTRIC SMOKE DETECTOR TO BE DISCONNECTED
	EXISTING HEAT DETECTOR TO BE DISCONNECTED
	EXISTING FIRE SPRINKLER WATERFLOW SWITCH TO BE DISCONNECTED
	EXISTING FIRE SPRINKLER CONTROL VALVE TAMPER SWITCH TO BE DISCONNECTED
	EXISTING CARBON MONOXIDE DETECTOR TO BE DISCONNECTED
	EXISTING DOOR HOLDER TO BE DISCONNECTED
	EXISTING BELL APPLIANCE TO BE DISCONNECTED
	EXISTING WALL MOUNTED AUDIBLE/VISUAL APPLIANCE TO BE DISCONNECTED
	EXISTING WALL MOUNTED VISUAL APPLIANCE TO DISCONNECTED
	EXISTING BEAM SMOKE DETECTOR - RECEIVER TO REMAIN
	EXISTING BEAM SMOKE DETECTOR - TRANSMITTER TO REMAIN
	EXISTING REMOTE ANNUNCIATOR TO REMAIN
	EXISTING SECURITY PANEL TO REMAIN
	EXISTING ADDRESSABLE INPUT MODULE TO REMAIN
	EXISTING KEYPAD TO REMAIN
	EXISTING DOOR CONTACT TO REMAIN

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

COURTNEY R. OGLE
Registered Professional Engineer
MO # 2015000584
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PROJECT # M2006-01
SITE # 7356
ASSET # SEE SHT G-002

REVISION: _____
DATE: _____
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DATE: _____

ISSUE DATE: 02/10/2025

CAD DWG FILE: M2006-01-7356-
6517356071-FAD-102.DWG
DRAWN BY: MM
CHECKED BY: MLY
DESIGNED BY: JRC

SHEET TITLE:
APARTMENT B
DEMOLITION WORK
FIRE ALARM PLAN

SHEET NUMBER:
FAD-102

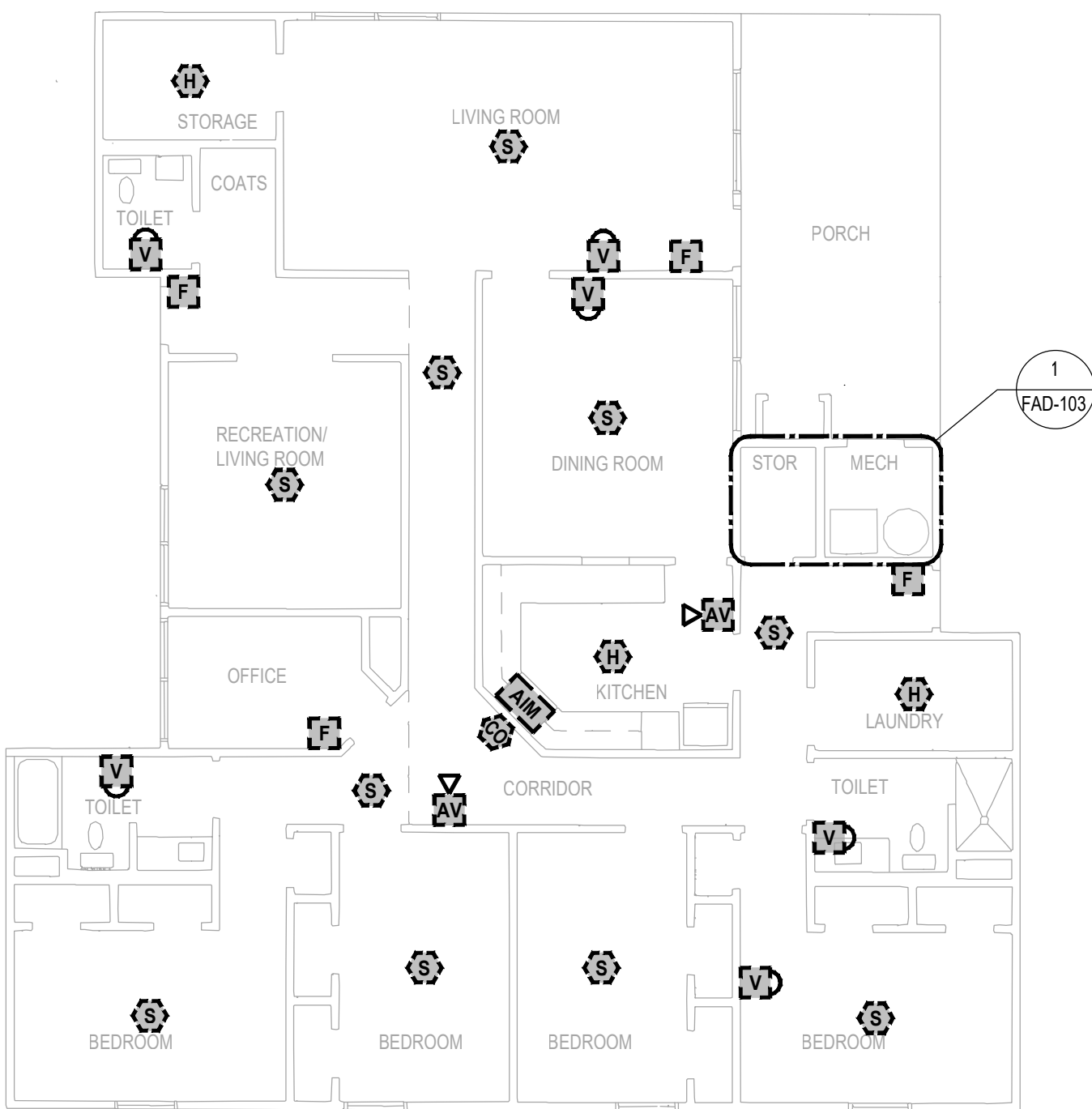
31 OF 45 SHEETS
FEBRUARY 10, 2025

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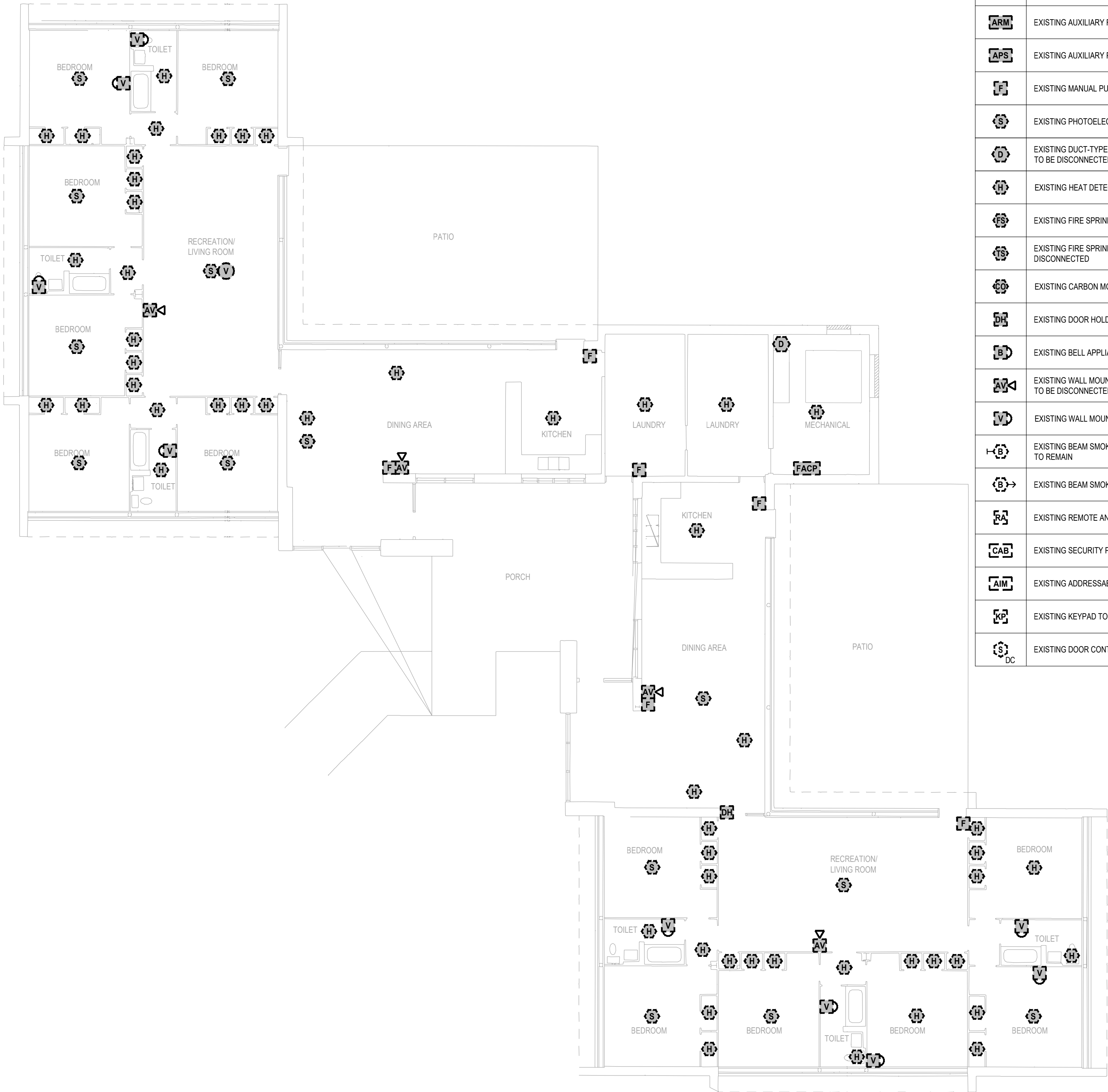
BUILDINGS 1601-1610, 1908 FIRE ALARM PLAN - DEMOLITION WORK

SCALE 1/8"=1'-0"
2 1 0 4 8



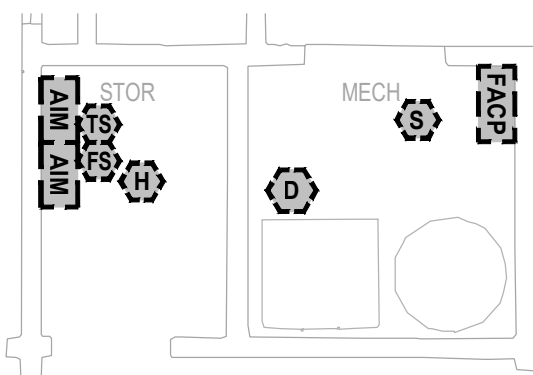
BUILDINGS 1801-1810 FIRE ALARM PLAN - DEMOLITION WORK

SCALE 1/8"=1'-0"
2 1 0 4 8



BUILDINGS 1901-1906 FIRE ALARM PLAN - DEMOLITION WORK

SCALE 1/8"=1'-0"
2 1 0 4 8



STORAGE & MECHANICAL ROOM FIRE ALARM PLAN - DEMOLITION WORK



SCALE 1/4"=1'-0"
1 0 2 4

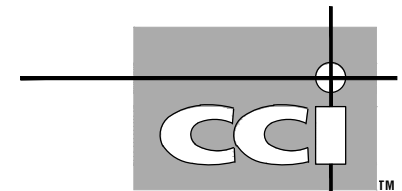
DEMO SYMBOL KEY	
	EXISTING ADDRESSABLE FIRE ALARM CONTROL PANEL TO BE DISCONNECTED
	EXISTING FIRE ALARM CABINET TO BE REMOVED
	EXISTING AUXILIARY RELAY MODULE TO BE DISCONNECTED
	EXISTING AUXILIARY POWER SUPPLY TO BE DISCONNECTED
	EXISTING MANUAL PULL STATION TO BE DISCONNECTED
	EXISTING PHOTOELECTRIC SMOKE DETECTOR TO BE DISCONNECTED
	EXISTING DUCT-TYPE PHOTOELECTRIC SMOKE DETECTOR TO BE DISCONNECTED
	EXISTING HEAT DETECTOR TO BE DISCONNECTED
	EXISTING FIRE SPRINKLER WATERFLOW SWITCH TO BE DISCONNECTED
	EXISTING FIRE SPRINKLER CONTROL VALVE TAMPER SWITCH TO BE DISCONNECTED
	EXISTING CARBON MONOXIDE DETECTOR TO BE DISCONNECTED
	EXISTING DOOR HOLDER TO BE DISCONNECTED
	EXISTING BELL APPLIANCE TO BE DISCONNECTED
	EXISTING WALL MOUNTED AUDIBLE/VISUAL APPLIANCE TO BE DISCONNECTED
	EXISTING WALL MOUNTED VISUAL APPLIANCE TO DISCONNECTED
	EXISTING BEAM SMOKE DETECTOR - RECEIVER TO REMAIN
	EXISTING BEAM SMOKE DETECTOR - TRANSMITTER TO REMAIN
	EXISTING REMOTE ANNUNCIATOR TO REMAIN
	EXISTING SECURITY PANEL TO REMAIN
	EXISTING ADDRESSABLE INPUT MODULE TO REMAIN
	EXISTING KEYPAD TO REMAIN
	EXISTING DOOR CONTACT TO REMAIN

STATE OF MISSOURI
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PROJECT # M2006-01

SITE # 7356

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CAD DWG FILE: M2006-01-7356-
6517356071-FAD-103.DWG
DRAWN BY: MM
CHECKED BY: MLY
DESIGNED BY: JRC

SHEET TITLE:

BUILDINGS 1601-1610,
1908, 1801-1810, 1901-1906
DEMOLITION WORK
FIRE ALARM PLAN

SHEET NUMBER:

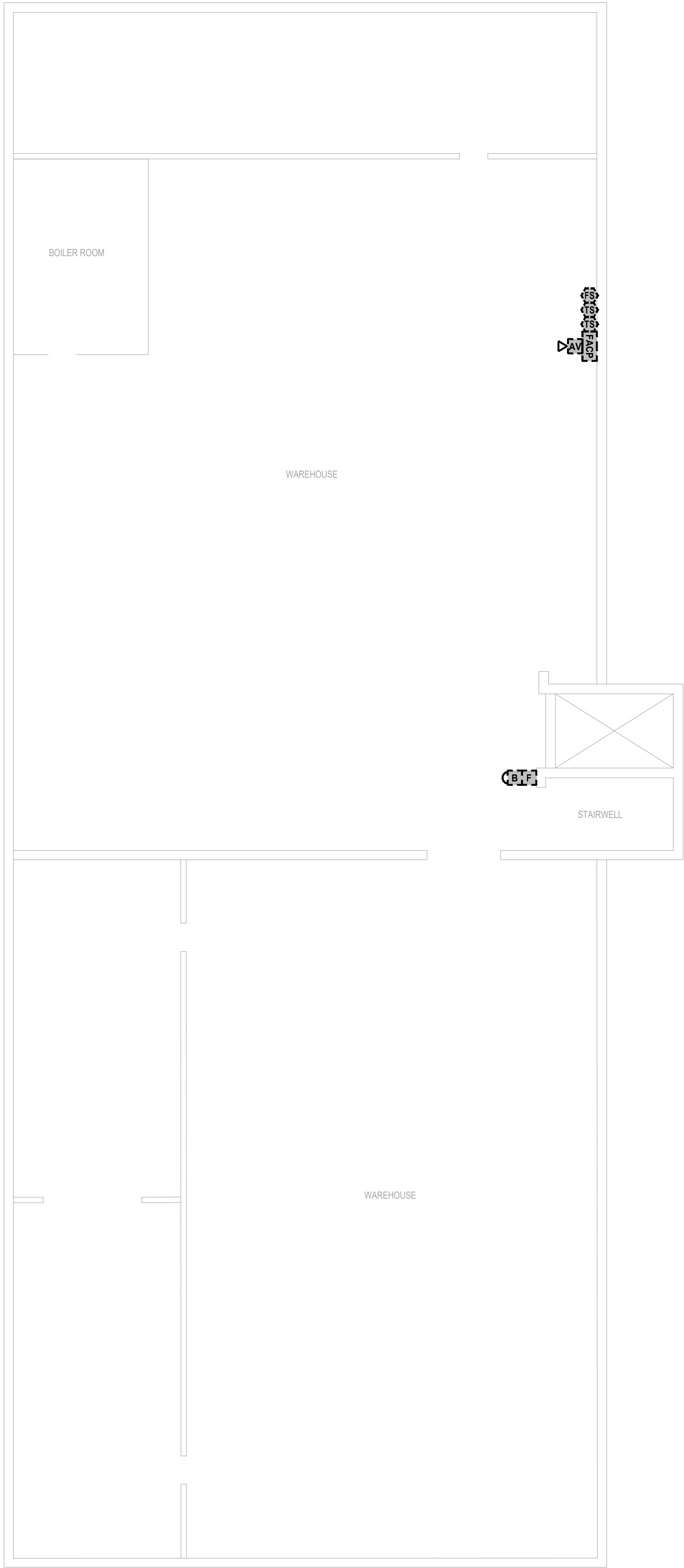
FAD-103

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FEBRUARY 10, 2025

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WAREHOUSE/FOOD DISTRIBUTION CENTER
FIRE ALARM PLAN - DEMOLITION WORK



WAREHOUSE/FOOD DISTRIBUTION CENTER BASEMENT
FIRE ALARM PLAN - DEMOLITION WORK

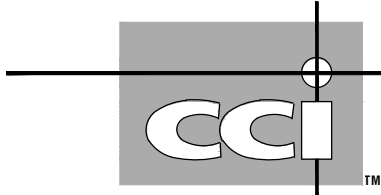
DEMO SYMBOL KEY	
	EXISTING ADDRESSABLE FIRE ALARM CONTROL PANEL TO BE DISCONNECTED
	EXISTING FIRE ALARM CABINET TO BE REMOVED
	EXISTING AUXILIARY RELAY MODULE TO BE DISCONNECTED
	EXISTING AUXILIARY POWER SUPPLY TO BE DISCONNECTED
	EXISTING MANUAL PULL STATION TO BE DISCONNECTED
	EXISTING PHOTOELECTRIC SMOKE DETECTOR TO BE DISCONNECTED
	EXISTING DUCT-TYPE PHOTOELECTRIC SMOKE DETECTOR TO BE DISCONNECTED
	EXISTING HEAT DETECTOR TO BE DISCONNECTED
	EXISTING FIRE SPRINKLER WATERFLOW SWITCH TO BE DISCONNECTED
	EXISTING FIRE SPRINKLER CONTROL VALVE TAMPER SWITCH TO BE DISCONNECTED
	EXISTING CARBON MONOXIDE DETECTOR TO BE DISCONNECTED
	EXISTING DOOR HOLDER TO BE DISCONNECTED
	EXISTING BELL APPLIANCE TO BE DISCONNECTED
	EXISTING WALL MOUNTED AUDIBLE/VISUAL APPLIANCE TO BE DISCONNECTED
	EXISTING WALL MOUNTED VISUAL APPLIANCE TO DISCONNECTED
	EXISTING BEAM SMOKE DETECTOR - RECEIVER TO REMAIN
	EXISTING BEAM SMOKE DETECTOR - TRANSMITTER TO REMAIN
	EXISTING REMOTE ANNUNCIATOR TO REMAIN
	EXISTING SECURITY PANEL TO REMAIN
	EXISTING ADDRESSABLE INPUT MODULE TO REMAIN
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ST. LOUIS, MISSOURI 63146-4235
314-991-2633
www.codeconsultants.com

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
MENTAL HEALTH

REPLACE FIRE ALARM
SYSTEM & ELECTRICAL
RENOVATION

BELLEFONTAINE
HABILITATION CENTER
10695 BELLEFONTAINE RD.
ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01
SITE # 7356
ASSET # SEE SHT G-002

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 02/10/2025

CAD DWG FILE: M2006-01-7356-
6517356071-FAD-104.DWG
DRAWN BY: MM
CHECKED BY: MLY
DESIGNED BY: JRC

SHEET TITLE:
WAREHOUSE/FOOD
DISTRIBUTION CENTER
DEMOLITION WORK
FIRE ALARM PLAN

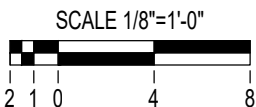
SHEET NUMBER:

FAD-104

33 OF 45 SHEETS
FEBRUARY 10, 2025



MAINTENANCE BUILDING FIRE ALARM PLAN - DEMOLITION WORK



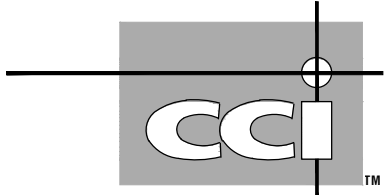
DEMO SYMBOL KEY	
	EXISTING ADDRESSABLE FIRE ALARM CONTROL PANEL TO BE DISCONNECTED
	EXISTING FIRE ALARM CABINET TO BE REMOVED
	EXISTING AUXILIARY RELAY MODULE TO BE DISCONNECTED
	EXISTING AUXILIARY POWER SUPPLY TO BE DISCONNECTED
	EXISTING MANUAL PULL STATION TO BE DISCONNECTED
	EXISTING PHOTOELECTRIC SMOKE DETECTOR TO BE DISCONNECTED
	EXISTING DUCT-TYPE PHOTOELECTRIC SMOKE DETECTOR TO BE DISCONNECTED
	EXISTING HEAT DETECTOR TO BE DISCONNECTED
	EXISTING FIRE SPRINKLER WATERFLOW SWITCH TO BE DISCONNECTED
	EXISTING FIRE SPRINKLER CONTROL VALVE TAMPER SWITCH TO BE DISCONNECTED
	EXISTING CARBON MONOXIDE DETECTOR TO BE DISCONNECTED
	EXISTING DOOR HOLDER TO BE DISCONNECTED
	EXISTING BELL APPLIANCE TO BE DISCONNECTED
	EXISTING WALL MOUNTED AUDIBLE/VISUAL APPLIANCE TO BE DISCONNECTED
	EXISTING WALL MOUNTED VISUAL APPLIANCE TO DISCONNECTED
	EXISTING BEAM SMOKE DETECTOR - RECEIVER TO REMAIN
	EXISTING BEAM SMOKE DETECTOR - TRANSMITTER TO REMAIN
	EXISTING REMOTE ANNUNCIATOR TO REMAIN
	EXISTING SECURITY PANEL TO REMAIN
	EXISTING ADDRESSABLE INPUT MODULE TO REMAIN
	EXISTING KEYPAD TO REMAIN
	EXISTING DOOR CONTACT TO REMAIN

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



COURTNEY R. OGLE
Registered Professional Engineer
MO # 2015000584
Expires 12-31-2026

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ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01

SITE # 7356

ASSET # SEE SHT G-002

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DATE:	
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REVISION:	
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ISSUE DATE: 02/10/2025

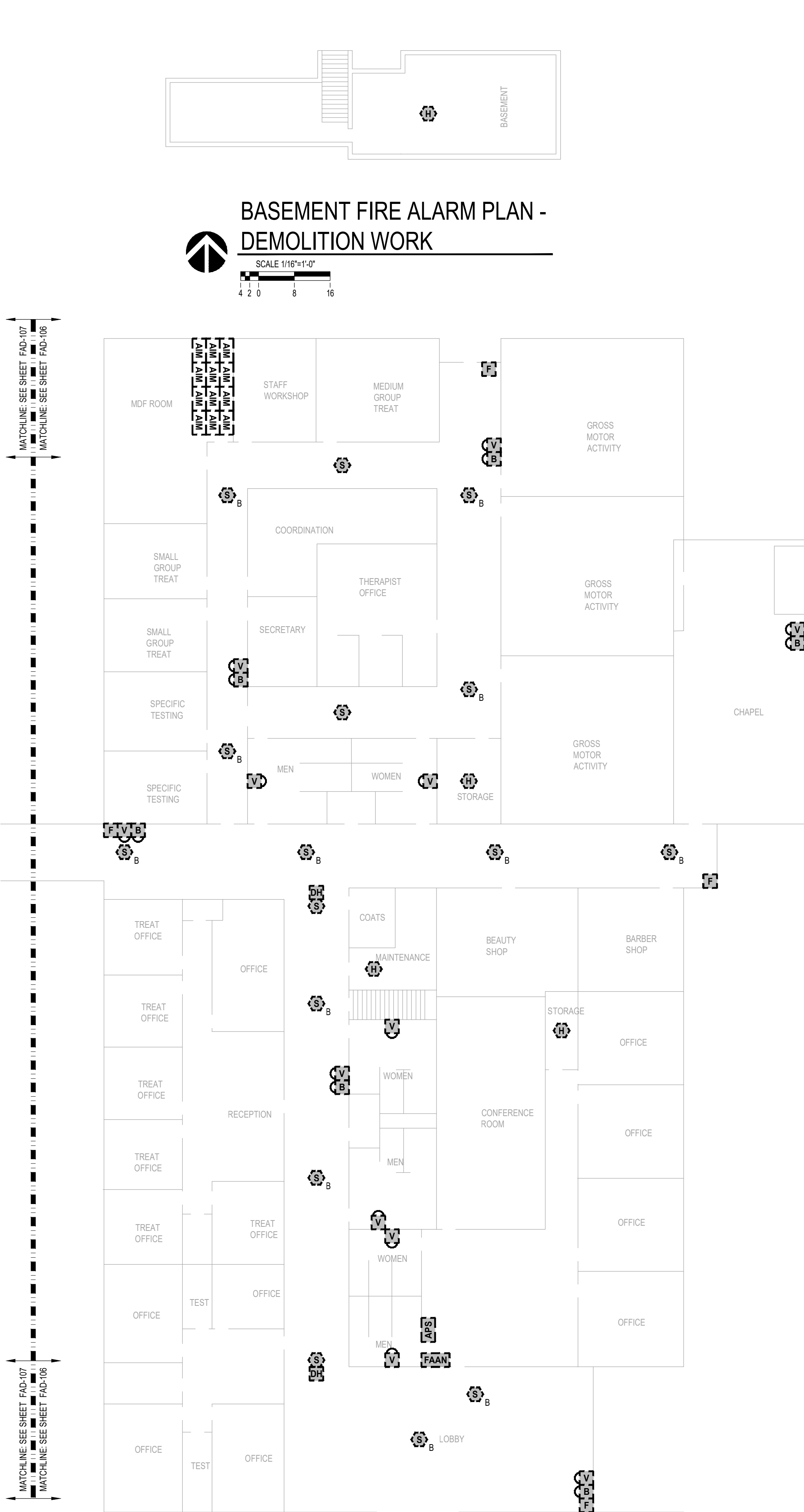
CAD DWG FILE: M2006-01-7356-
6517356071-FAD-105.DWG
DRAWN BY: MM
CHECKED BY: MLY
DESIGNED BY: JRC

SHEET TITLE:
MAINTENANCE
BUILDING
DEMOLITION WORK
FIRE ALARM PLAN

SHEET NUMBER:

FAD-105

ROGERS-SCHMIDT ENGINEERING CO., P.C. © 2025



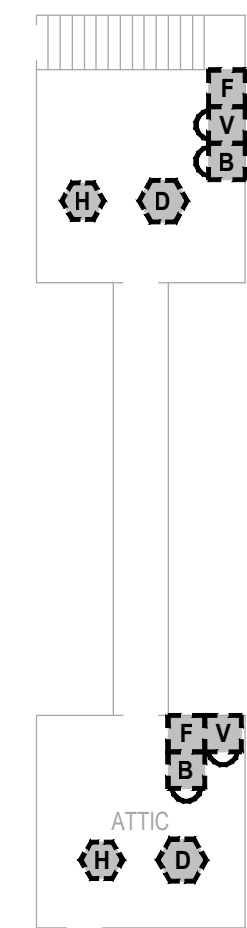
MULTIPURPOSE BUILDING PART A FIRE ALARM PLAN - DEMOLITION WORK



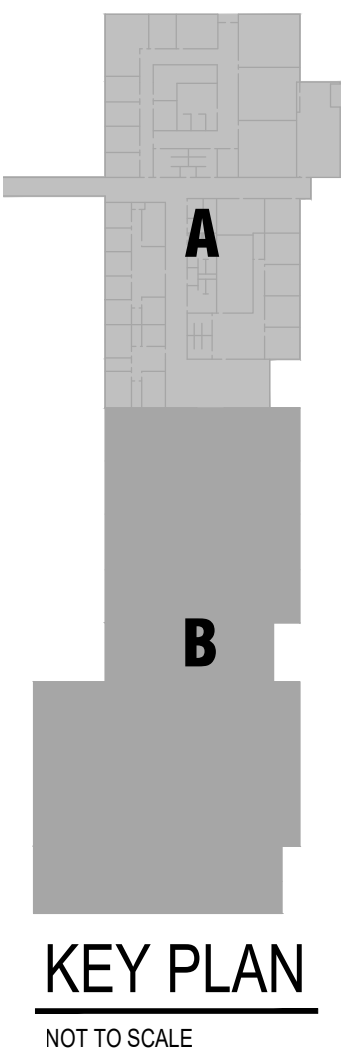
MULTIPURPOSE BUILDING PART B FIRE ALARM PLAN - DEMOLITION WORK

DEMO SYMBOL KEY	
	EXISTING ADDRESSABLE FIRE ALARM CONTROL PANEL TO BE DISCONNECTED
	EXISTING FIRE ALARM CABINET TO BE REMOVED
	EXISTING AUXILIARY RELAY MODULE TO BE DISCONNECTED
	EXISTING AUXILIARY POWER SUPPLY TO BE DISCONNECTED
	EXISTING MANUAL PULL STATION TO BE DISCONNECTED
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	EXISTING FIRE SPRINKLER CONTROL VALVE TAMPER SWITCH TO BE DISCONNECTED
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	EXISTING BELL APPLIANCE TO BE DISCONNECTED
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	EXISTING WALL MOUNTED VISUAL APPLIANCE TO DISCONNECTED
	EXISTING BEAM SMOKE DETECTOR - RECEIVER TO REMAIN
	EXISTING BEAM SMOKE DETECTOR - TRANSMITTER TO REMAIN
	EXISTING REMOTE ANNUNCIATOR TO REMAIN
	EXISTING SECURITY PANEL TO REMAIN
	EXISTING ADDRESSABLE INPUT MODULE TO REMAIN
	EXISTING KEYPAD TO REMAIN
	EXISTING DOOR CONTACT TO REMAIN

KEYED NOTES	
1.	THE EXISTING BEAM DETECTOR AND ASSOCIATED REMOTE TEST STATION SHALL REMAIN AS CURRENTLY CONFIGURED. FIELD VERIFY THE EXISTING BEAM DETECTOR AND ASSOCIATED REMOTE STATION IS IN GOOD WORKING CONDITION AND OPERATIONAL. IF THE EXISTING BEAM DETECTOR IS NOT IN GOOD WORKING CONDITION, REPLACE THE EXISTING BEAM DETECTOR.



ATTIC FIRE ALARM PLAN - DEMOLITION WORK

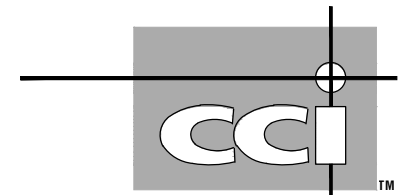


STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



COURTNEY R. OGGL
Registered Professional Engineer
MO # 2015000584
Expires 12-31-2026

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PROJECT # M2006-01
SITE # 7356
ASSET # SEE SHT G-002

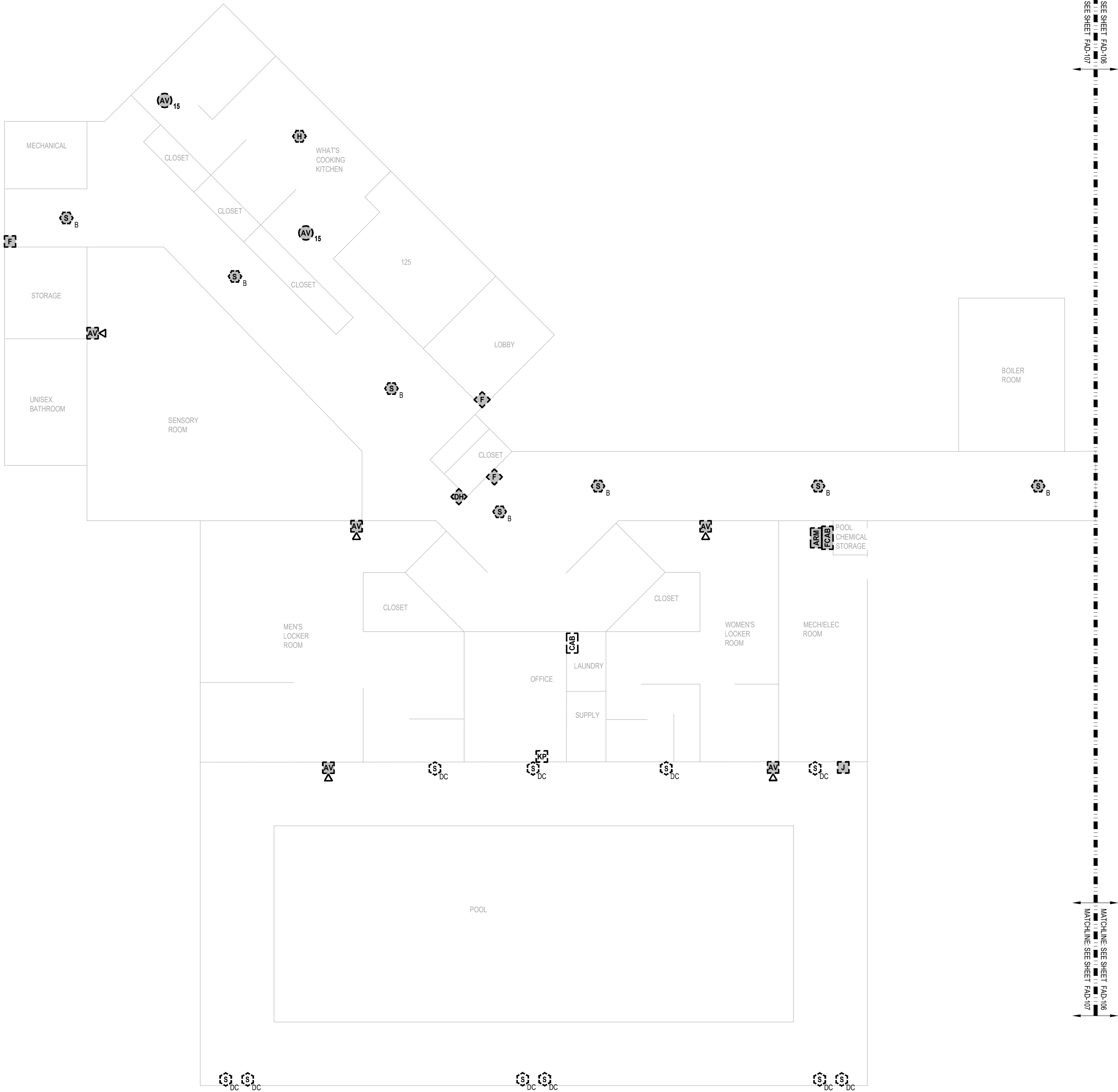
REVISION:
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ISSUE DATE: 02/10/2025
CAD DWG FILE: M2006-01-7356-
6517356071-FAD-106.DWG
DRAWN BY: MM
CHECKED BY: MLY
DESIGNED BY: JRC

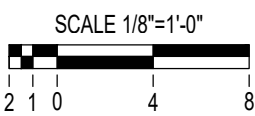
SHEET TITLE:
MULTIPURPOSE
BUILDING
DEMOLITION WORK
FIRE ALARM PLAN
SHEET NUMBER:

FAD-106

35 OF 45 SHEETS
FEBRUARY 10, 2025

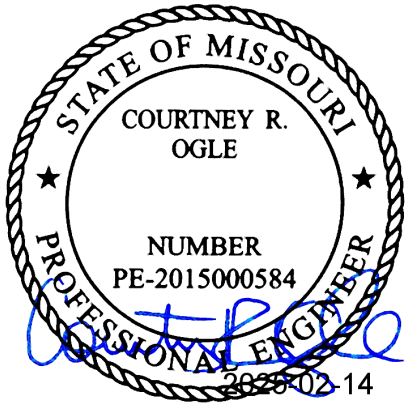


PHYSICAL THERAPY BUILDING FIRE ALARM PLAN - DEMOLITION WORK



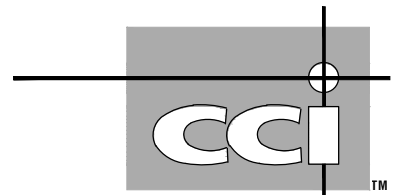
DEMO SYMBOL KEY	
	EXISTING ADDRESSABLE FIRE ALARM CONTROL PANEL TO BE DISCONNECTED
	EXISTING FIRE ALARM CABINET TO BE REMOVED
	EXISTING AUXILIARY RELAY MODULE TO BE DISCONNECTED
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	EXISTING ADDRESSABLE INPUT MODULE TO REMAIN
	EXISTING KEYPAD TO REMAIN
	EXISTING DOOR CONTACT TO REMAIN

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



COURTNEY R. OGLE
Registered Professional Engineer
MO # 2015000584
Expires 12-31-2026

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REPLACE FIRE ALARM
SYSTEM & ELECTRICAL
RENOVATION

BELLEFONTAINE
HABILITATION CENTER
10695 BELLEFONTAINE RD.
ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01

SITE # 7356

ASSET # SEE SHT G-002

REVISION:	
DATE:	
REVISION:	
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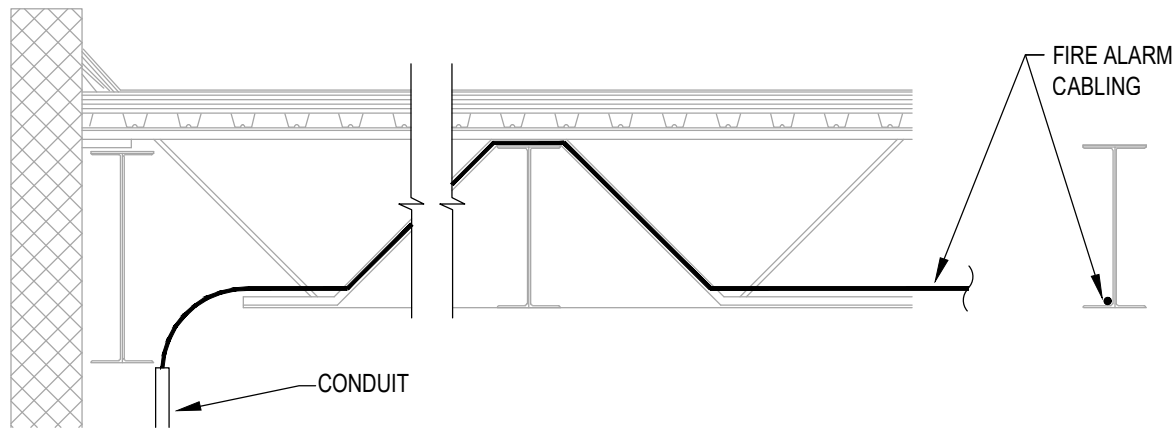
ISSUE DATE: 02/10/2025

CAD DWG FILE: M2006-01-7356-
6517356071-FAD-107.DWG
DRAWN BY: MM
CHECKED BY: MLY
DESIGNED BY: JRC

SHEET TITLE:
PHYSICAL THERAPY
BUILDING
DEMOLITION WORK
FIRE ALARM PLAN

SHEET NUMBER:

FAD-107

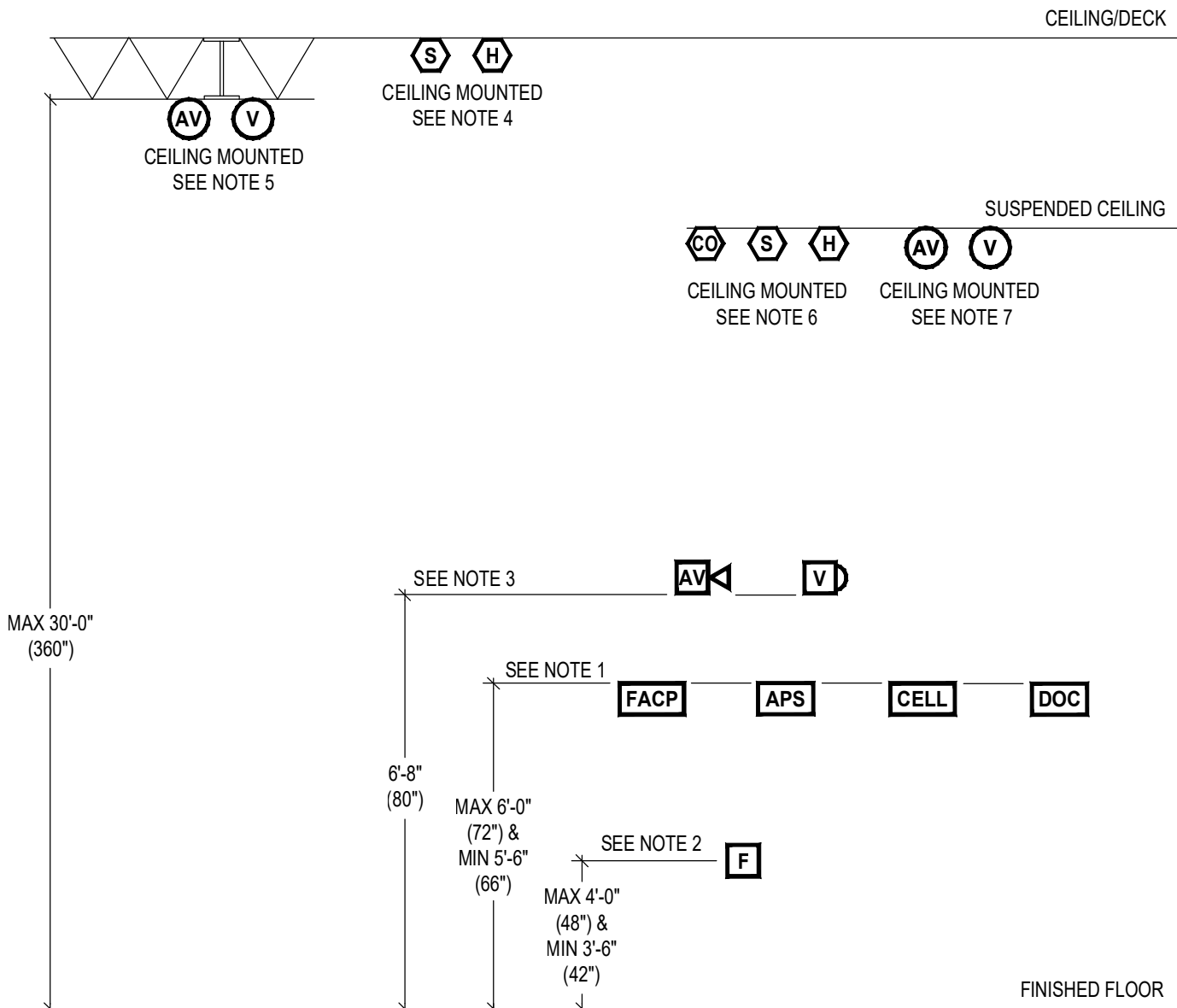


NOTES:

- 1. ALL OPEN FIRE ALARM CABLING SHALL BE CONCEALED FROM PUBLIC VIEW.

OPEN FIRE ALARM CABLING DETAIL

NOT TO SCALE

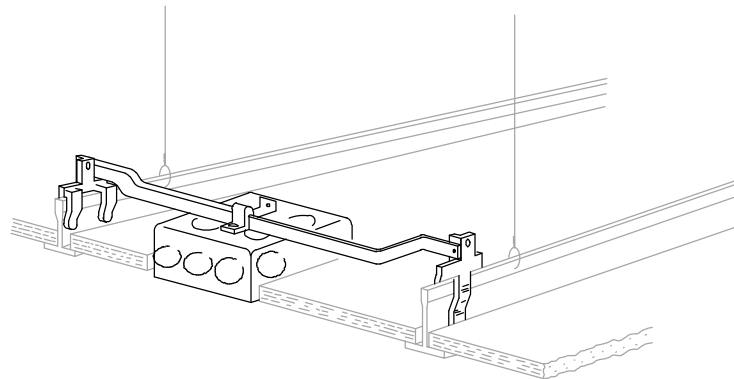


NOTES:

- 1. COORDINATE EXACT MOUNTING HEIGHT OF CONTROL PANELS, CELLULAR COMMUNICATORS, POWER SUPPLIES, DOCUMENTATION CABINET WITH THE GENERAL CONTRACTOR, ELECTRICAL CONTRACTOR AND AHJ PRIOR TO INSTALLATION.
- 2. MEASURED TO THE OPERABLE PART OF THE PULL STATION.
- 3. MEASURED TO THE BOTTOM OF THE LENS.
- 4. WHERE INDICATED ON THE DRAWINGS - LOCATE CEILING MOUNTED SMOKE AND HEAT DETECTORS FLUSH WITH THE CEILING/DECK, AND AS INDICATED IN NFPA 72.
- 5. WHERE INDICATED ON THE DRAWINGS - LOCATE CEILING MOUNTED NOTIFICATION APPLIANCES ON BOTTOM OF BEAMS OR JOISTS, WITH CLEAR LINE OF SITE IN ALL DIRECTIONS, NO GREATER THAN THIRTY (30) FEET ABOVE THE FINISHED FLOOR; AND AS INDICATED IN NFPA 72.
- 6. WHERE INDICATED ON THE DRAWINGS - LOCATE CEILING MOUNTED SMOKE, CARBON MONOXIDE, AND HEAT DETECTORS FLUSH WITH THE SUSPENDED CEILING; AND AS INDICATED IN NFPA 72.
- 7. WHERE INDICATED ON THE DRAWINGS - LOCATE CEILING MOUNTED NOTIFICATION APPLIANCES FLUSH WITH THE SUSPENDED CEILING, ALIGNED WITH LIGHTING, SPRINKLERS, AND OTHER ARCHITECTURAL FIXTURES, WITH CLEAR LINE OF SITE IN ALL DIRECTIONS, NO GREATER THAN THIRTY (30) FEET ABOVE THE FINISHED FLOOR; AND AS INDICATED IN NFPA 72.

TYPICAL MOUNTING HEIGHT DETAIL

NOT TO SCALE



NOTES:

- 1. FOR CEILING MOUNTED SMOKE DETECTORS AND OCCUPANT NOTIFICATION APPLIANCES IN AREAS WITH SUSPENDED CEILINGS.

JUNCTION BOX MOUNTING DETAIL

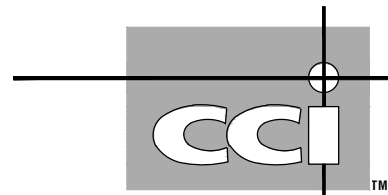
NOT TO SCALE

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



COURTNEY R. OGLE
Registered Professional Engineer
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ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01

SITE # 7356

ASSET # SEE SHT G-002

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ISSUE DATE: 02/10/2025

CAD DWG FILE: M2006-01-7356-
6517356071-FA-500.DWG
DRAWN BY: MM
CHECKED BY: MLY
DESIGNED BY: JRC

SHEET TITLE:
FIRE ALARM
DETAILS

SHEET NUMBER:

FA-500

37 OF 45 SHEETS
FEBRUARY 10, 2025

CONTROL-BY-EVENT PROGRAMMING MATRIX		
ADDRESS	TYPE I.D.	ALPHANUMERIC LABEL OF DEVICE
L01D01	SMOKE	HALLWAY
L01D02	SMOKE	BEDROOM
L01D03	SMOKE	BEDROOM
L01D04	SMOKE	BEDROOM
L01D05	SMOKE	BEDROOM
L01D06	SMOKE / CO	ATTIC - ABOVE FURNACE
L01D07	SMOKE / CO	ATTIC - ABOVE FURNACE
L01D08	SMOKE / CO	ATTIC - ABOVE FURNACE
L01D09	SMOKE / CO	LIVING ROOM
L01D10	SMOKE	DINING ROOM
L01D11	SMOKE	FAMILY ROOM
L01D12	SMOKE / CO	BASEMENT
L01D13	SMOKE / CO	BASEMENT
L01D14	SMOKE	HALLWAY
L01D15	SMOKE	BEDROOM
L01D16	SMOKE	BEDROOM
L01D17	SMOKE	BEDROOM
L01D18	SMOKE	BEDROOM
L01D19		
L01D20		
L01D21		
L01D22	HEAT	KITCHEN
L01D23	HEAT	LAUNDRY ROOM
L01D24	HEAT	ATTIC
L01D25	HEAT	ATTIC
L01D26	HEAT	ATTIC
L01D27	HEAT	ATTIC
L01D28	HEAT	ATTIC
L01D29	HEAT	ATTIC
L01D30	HEAT	ATTIC
L01D31	HEAT	ATTIC
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L01D58	HEAT	ATTIC
L01D59	HEAT	ATTIC
L01D60	HEAT	ATTIC
L01D61	HEAT	ATTIC
L01D62	HEAT	ATTIC
L01D63	HEAT	ATTIC
L01D64	HEAT	ATTIC
L01D65	HEAT	ATTIC
L01D66		
L01D67		
L01D68	CARBON MONOXIDE	SOUTHWEST BEDROOMS HALL
L01D69	CARBON MONOXIDE	NORTHEAST BEDROOMS HALL
L01D70		

NOTES:

1.

NO SLC DEVICE OR MODULE LOOP SHALL BE ASSIGNED MORE THAN EIGHTY (80) PERCENT OF ITS POINT CAPACITY UNLESS APPROVED IN WRITING BY THE ENGINEER OF RECORD (CO).

2.

CONTROL-BY-EVENT PROGRAMMING IS PROVIDED FOR GENERAL INFORMATION PURPOSES ONLY. SPECIFIC SYSTEM PROGRAMMING SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR IN THE SHOP DRAWING SUBMITTAL.

CONTROL-BY-EVENT PROGRAMMING MATRIX		
ADDRESS	TYPE I.D.	ALPHANUMERIC LABEL OF DEVICE
L01M01	PULL	ADJACENT FACP
L01M02	PULL	HALLWAY
L01M03	PULL	NORTHEAST EXIT DOOR
L01M04		
L01M05		
L01M06		
L01M07	MONITOR	EXTERIOR PIV - TAMPER SWITCH
L01M08	MONITOR	BASEMENT - SPRINKLER FLOW SWITCH
L01M09		
L01M10		
L01M11		
L01M12	RELAY	HALLWAY - DOOR HOLDER
L01M13	RELAY	FACP - AHJ SHUTDOWN
L01M14		
L01M15		
L01M16		
L01M17		
L01M18		
L01M19		
L01M20		
L01M21		
L01M22		
L01M23		
L01M24		
L01M25		
L01M26		
L01M27		
L01M28		
L01M29		
L01M30		

NOTES:

1.

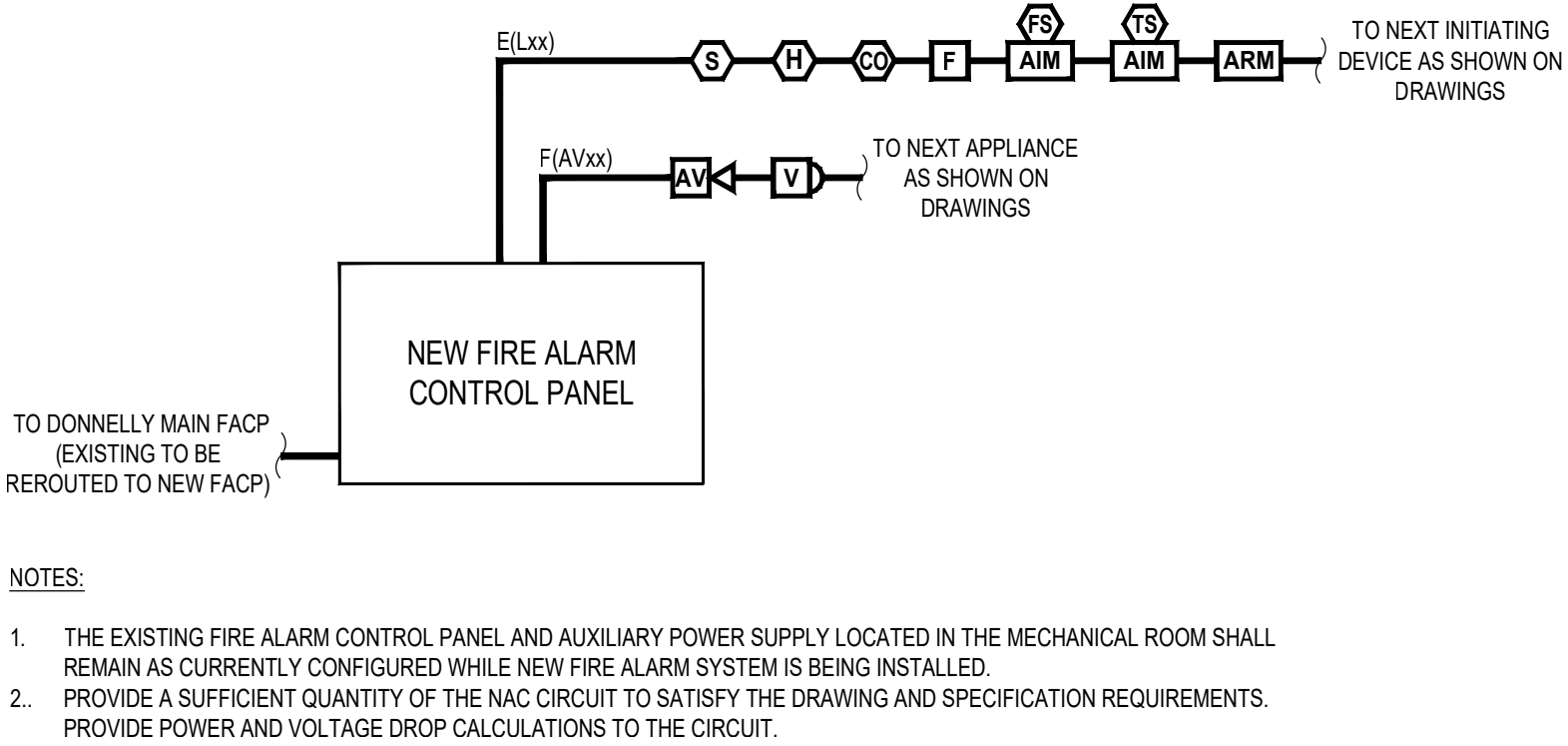
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CONTROL-BY-EVENT PROGRAMMING IS PROVIDED FOR GENERAL INFORMATION PURPOSES ONLY. SPECIFIC SYSTEM PROGRAMMING SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR IN THE SHOP DRAWING SUBMITTAL.

	ACTUATES ALARM CONDITION AT FIRE ALARM CONTROL PANEL	TRANSMITS ALARM SIGNAL TO DONNELLY BLDG FACP AS CURRENTLY CONFIGURED	ACTUATES SUPERVISORY CONDITION AT FIRE ALARM CONTROL PANEL	TRANSMITS SUPERVISORY SIGNAL TO DONNELLY BLDG FACP AS CURRENTLY CONFIGURED	ACTUATES TROUBLE CONDITION AT FIRE ALARM CONTROL PANEL	TRANSMITS TROUBLE SIGNAL TO DONNELLY BLDG FACP AS CURRENTLY CONFIGURED	ACTUATES INTERIOR ALARM/USUAL BUILDING	ACTIVATES TEMPORAL + PATTERN NOTIFICATION APPLIANCES THROUGHOUT THE BUILDING	SHUTS DOWN INDIVIDUAL HVAC UNITS	RELEASES AFFECTED DOOR-HOLD OPEN DEVICES										
FIRE SPRINKLER SYSTEMS																				
- WATERFLOW SWITCH	●	●																		
- CONTROL VALVE TAMPER SWITCH			●	●																
MANUAL PULL STATIONS																				
- EXITS	●	●																		
SMOKE DETECTION DEVICES																				
- SPOT TYPE	●	●																		
- ADJACENT TO FACP	●	●																		
- DOOR HOLD OPEN	●	●																		
HEAT DETECTION DEVICES																				
- SPOT TYPE	●	●																		
CARBON MONOXIDE DETECTION DEVICES																				
- SPOT TYPE	●	●																		
LOSS OF PRIMARY POWER AT THE FACP						●	●													
ABNORMAL CIRCUIT OR DEVICE						●	●													

NOTIFICATION CIRCUIT VOLTAGE DROP CALCULATIONS											
SIGNAL CIRCUIT DESCRIPTION	APS / CIRCUIT LOCATION	MAXIMUM DISTANCE TO LAST APPLIANCE					VOLTAGE DROP CALCULATIONS				
		ALARM CURRENT (AMPS)	12 AWG (FEET)	14 AWG (FEET)	16 AWG (FEET)	18 AWG (FEET)	CIRCUIT LENGTH (FEET)	12 AWG (VOLTS)	V-DROP (12 AWG)	14 AWG (VOLTS)	V-DROP (14 AWG)
FACP	MAIN ELECTRICAL ROOM										
AV01	APARTMENT A	1.410	808	508	319	201	170	19.47	0.93	18.93	1.47
AV02	APARTMENT A	1.220	934	587	369	232	220	19.36	1.04	18.75	1.65
AV03	SPARE	0.000						20.40	0.00	20.40	0.00
AV04	SPARE	0.000						20.40	0.00	20.40	0.00
NOTES:											
1. NOTIFICATION APPLIANCE CIRCUITS (NAC) DESIGNED FOR A MAXIMUM 1.5 AMPS, A MAXIMUM 4.4 VDC DROP, AND MINIMUM OPERATING VOLTAGE OF 16 VDC.											
2. FIELD VERIFY ALL VOLTAGE DROP AND POWER REQUIREMENTS.											
3. NAC CIRCUITS HAVE BEEN DESIGNED BASED UPON THE ABOVE CIRCUIT CURRENT AND VOLTAGE CRITERIA USING SYSTEM SENSOR LED APPLIANCE CRITERIA. IF ALTERNATE NOTIFICATION APPLIANCES ARE INSTALLED, PROVIDE REVISED POWER AND VOLTAGE DROP CALCULATIONS FOR ALL CIRCUITS.											



1FA-601

APARTMENT A FIRE ALARM SYSTEM RISER DIAGRAM

NOT TO SCALE

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI

COURTNEY R. OGLE

NUMBER
PE-2015000584

PROFESSIONAL ENGINEER

02-14

COURTNEY R. OGLE
Registered Professional Engineer
MO # 2015000584
Expires 12-31-2026

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DIVISION OF FACILITIES
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DEPARTMENT OF
MENTAL HEALTH

REPLACE FIRE ALARM
SYSTEM & ELECTRICAL
RENOVATION

BELLEFONTAINE
HABILITATION CENTER
10695 BELLEFONTAINE RD.
ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01
SITE # 7356
ASSET # SEE SHT G-002

REVISION:	
DATE:	
REVISION:	
DATE:	
REVISION:	
DATE:	
REVISION:	
DATE:	
REVISION:	
DATE:	
REVISION:	
DATE:	

ISSUE DATE: 02/10/2025
CAD DWG FILE: M2006-01-7356-6517356071-FA-601.DWG
DRAWN BY: MM
CHECKED BY: MLY
DESIGNED BY: JRC

SHEET TITLE:
APARTMENT A
MATRIX, CBE,
CALCULATIONS AND
RISER DIAGRAM

SHEET NUMBER:

FA-601

CONTROL-BY-EVENT PROGRAMMING MATRIX		
ADDRESS	TYPE I.D.	ALPHANUMERIC LABEL OF DEVICE
L01D01	SMOKE	KITCHEN
L01D02	SMOKE	DINING ROOM
L01D03	SMOKE / CO	LIVING ROOM
L01D04	SMOKE	ENTRY FOYER
L01D05	SMOKE / CO	ATTIC - ABOVE FURNACE
L01D06	SMOKE / CO	ATTIC - ABOVE FURNACE
L01D07	SMOKE	BEDROOM
L01D08	SMOKE	BEDROOM
L01D09	SMOKE	BEDROOM
L01D10	SMOKE	BEDROOM
L01D11	SMOKE	HALLWAY
L01D12	SMOKE	BEDROOM
L01D13	SMOKE	BEDROOM
L01D14	SMOKE	BEDROOM
L01D15	SMOKE	BEDROOM
L01D16		
L01D17		
L01D18		
L01D19	HEAT	LAUNDRY
L01D20	HEAT	ATTIC
L01D21	HEAT	ATTIC
L01D22	HEAT	ATTIC
L01D23	HEAT	ATTIC
L01D24	HEAT	ATTIC
L01D25	HEAT	ATTIC
L01D26	HEAT	ATTIC
L01D27	HEAT	ATTIC
L01D28	HEAT	ATTIC
L01D29	HEAT	ATTIC
L01D30	HEAT	ATTIC
L01D31	HEAT	ATTIC
L01D32	HEAT	ATTIC
L01D33	HEAT	ATTIC
L01D34	HEAT	ATTIC
L01D35	HEAT	ATTIC
L01D36	HEAT	ATTIC
L01D37	HEAT	ATTIC
L01D38	HEAT	ATTIC
L01D39		
L01D40		
L01D41		
L01D42		
L01D43		
L01D44	CARBON MONOXIDE	MECHANICAL CLOSET
L01D45	CARBON MONOXIDE	RISER ROOM
L01D46	CARBON MONOXIDE	SOUTHWEST BEDROOMS HALL
L01D47	CARBON MONOXIDE	NORTHEAST BEDROOMS HALL
L01D48		
L01D49		
L01D50		

NOTES:

- NO SLC DEVICE OR MODULE LOOP SHALL BE ASSIGNED MORE THAN EIGHTY (80) PERCENT OF ITS POINT CAPACITY UNLESS APPROVED IN WRITING BY THE ENGINEER OF RECORD (COT).
- CONTROL-BY-EVENT PROGRAMMING IS PROVIDED FOR GENERAL INFORMATION PURPOSES ONLY. SPECIFIC SYSTEM PROGRAMMING SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR IN THE SHOP DRAWING SUBMITTAL.

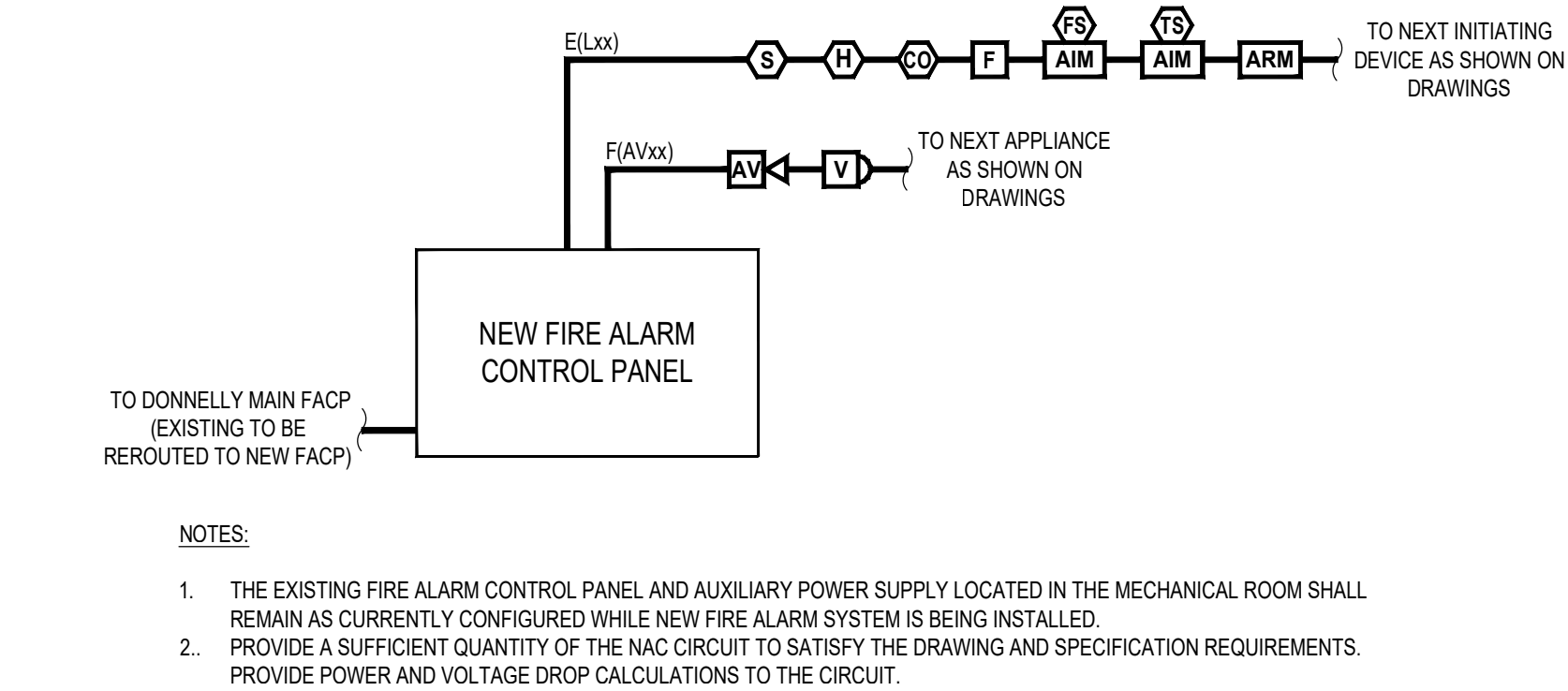
CONTROL-BY-EVENT PROGRAMMING MATRIX		
ADDRESS	TYPE I.D.	ALPHANUMERIC LABEL OF DEVICE
L01M01	PULL	MAIN ENTRANCE
L01M02	PULL	HALLWAY
L01M03		
L01M04		
L01M05		
L01M06	MONITOR	EXTERIOR PIV - TAMPER SWITCH
L01M07	MONITOR	MECHANICAL - SPRINKLER FLOW SWITCH
L01M08		
L01M09		
L01M10		
L01M11	RELAY	FACP - AHJ SHUTDOWN
L01M12	RELAY	HALLWAY - DOOR HOLDER
L01M13		
L01M14		
L01M15		
L01M16		
L01M17		
L01M18		
L01M19		
L01M20		
L01M21		
L01M22		
L01M23		
L01M24		
L01M25		
L01M26		
L01M27		
L01M28		
L01M29		
L01M30		

NOTES:

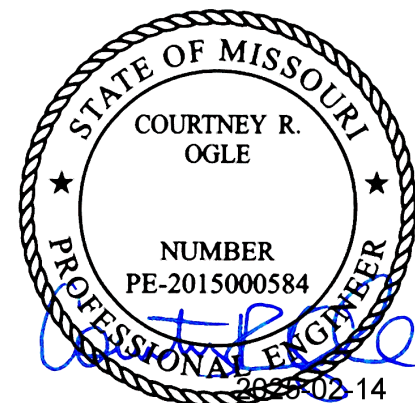
- NO SLC DEVICE OR MODULE LOOP SHALL BE ASSIGNED MORE THAN EIGHTY (80) PERCENT OF ITS POINT CAPACITY UNLESS APPROVED IN WRITING BY THE ENGINEER OF RECORD (CIC).
- CONTROL-BY-EVENT PROGRAMMING IS PROVIDED FOR GENERAL INFORMATION PURPOSES ONLY. SPECIFIC SYSTEM PROGRAMMING SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR IN THE SHOP DRAWING SUBMITTAL.

	ACTUATES ALARM CONDITION AT FIRE ALARM CONTROL PANEL	TRANSMITS ALARM SIGNAL TO DOWNWELLY BLDG FACP AS CURRENTLY CONFIGURED	ACTUATES SUPERVISORY CONDITION AT FIRE ALARM CONTROL PANEL	TRANSMITS SUPERVISORY SIGNAL TO DOWNWELLY BLDG FACP AS CURRENTLY CONFIGURED	ACTUATES TROUBLE CONDITION AT FIRE ALARM CONTROL PANEL	TRANSMITS TROUBLE SIGNAL TO DOWNWELLY BLDG FACP AS CURRENTLY CONFIGURED	ACTUATES INTERIOR NOUABLE VISUAL BUILDING	ACTUATES TEMPORAL PATTERN THROUGH NOTIFICATION APPLIANCES THROUGHOUT THE	SHUTS DOWN INDIVIDUAL HVAC UNITS	RELEASES AFFECTED DOOR HOLD OPEN DEVICES
FIRE SPRINKLER SYSTEMS										
- WATERFLOW SWITCH	●	●					●			
- CONTROL VALVE TAMPER SWITCH			●	●						
MANUAL PULL STATIONS										
- EXITS	●	●					●			
SMOKE DETECTION DEVICES										
- SPOT TYPE	●	●					●			
- ADJACENT TO FACP	●	●					●			
- DOOR HOLD OPEN	●	●						●		
HEAT DETECTION DEVICES										
- SPOT TYPE	●	●					●			
CARBON MONOXIDE DETECTION DEVICES										
- SPOT TYPE	●	●					●			
LOSS OF PRIMARY POWER AT THE FACP					●	●				
ABNORMAL CIRCUIT OR DEVICE					●	●				

NOTIFICATION CIRCUIT VOLTAGE DROP CALCULATIONS											
SIGNAL CIRCUIT DESCRIPTION	APS / CIRCUIT LOCATION	MAXIMUM DISTANCE TO LAST APPLIANCE					VOLTAGE DROP CALCULATIONS				
		ALARM CURRENT (AMPS)	12 AWG (FEET)	14 AWG (FEET)	16 AWG (FEET)	18 AWG (FEET)	CIRCUIT LENGTH (FEET)	12 AWG (VOLTS)	V-DROP (12 AWG)	14 AWG (VOLTS)	V-DROP (14 AWG)
FACP	MAIN ELECTRICAL ROOM										
AV01	APARTMENT B	1.030	1,107	696	437	275	240	19.45	0.95	18.88	1.52
AV02	APARTMENT B	1.030	1,107	696	437	275	270	19.33	1.07	18.69	1.71
AV03	SPARE	0.000						20.40	0.00	20.40	0.00
AV04	SPARE	0.000						20.40	0.00	20.40	0.00
<u>NOTES:</u>											
1. NOTIFICATION APPLIANCE CIRCUITS (NAC) DESIGNED FOR A MAXIMUM 1.5 AMPS, A MAXIMUM 4.4 VDC DROP, AND MINIMUM OPERATING VOLTAGE OF 16 VDC.											
2. FIELD VERIFY ALL VOLTAGE DROP AND POWER REQUIREMENTS.											
3. NAC CIRCUITS HAVE BEEN DESIGNED BASED UPON THE ABOVE CIRCUIT CURRENT AND VOLTAGE CRITERIA USING SYSTEM SENSOR LED APPLIANCE CRITERIA. IF ALTERNATE NOTIFICATION APPLIANCES ARE INSTALLED, PROVIDE REVISED POWER AND VOLTAGE DROP CALCULATIONS FOR ALL CIRCUITS.											

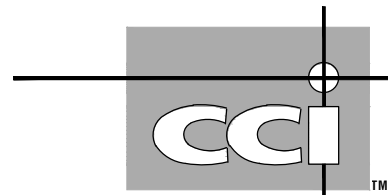


APARTMENT B FIRE ALARM SYSTEM RISER DIAGRAM FA-602 NOT TO SCALE



COURTNEY R. OGLE
Registered Professional Engineer
MO # 2015000584
Expires 12-31-2026

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DEPARTMENT OF
MENTAL HEALTH

REPLACE FIRE ALARM SYSTEM & ELECTRICAL RENOVATION

BELLEFONTAINE
HABILITATION CENTER
10695 BELLEFONTAINE RD.
ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01

SITE # 7356

ASSET # SEE SHT G-002

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 02/10/2025

CAD DWG FILE: M2006-01-7356-
6517356071-FA-602.DWG

DRAWN BY: MM
CHECKED BY: MLY
DESIGNED BY: JRC

SHEET TITLE:

APARTMENT B MATRIX, CBE, CALCULATIONS AND RISER DIAGRAM

SHEET NUMBER:

FA-602

39 OF 45 SHEETS
FEBRUARY 10, 2025

FIRE ALARM MATRIX		FIRE ALARM SYSTEMS												
		ACTIVATES ALARM CONDITION AT FIRE-ALARM CONTROL PANEL	TRANSMITS ALARM SIGNAL TO DONNELLY BLDG FIRE-ALARM CONTROL PANEL	ACTIVATES SUPERVISORY CONDITION AT FIRE-ALARM CONTROL PANEL	TRANSMITS SUPERVISORY SIGNAL TO DONNELLY BLDG FIRE-ALARM CONTROL PANEL	ACTIVATES TROUBLE CONDITION AT FIRE-ALARM CONTROL PANEL	TRANSMITS TROUBLE SIGNAL TO DONNELLY BLDG FIRE-ALARM CONTROL PANEL	ACTIVATES INTERIOR AUDIBLE VISUAL NOTIFICATION APPLIANCES THROUGHOUT THE BUILDING	TRANSMITS TEMPORAL PATTERN THROUGH SOUNDER BASE	SHUTS DOWN INDIVIDUAL HVAC UNITS				
FIRE SPRINKLER SYSTEMS		●	●		●				●			●		
- WATERFLOW SWITCH														
- CONTROL VALVE TAMPER SWITCH				●	●									
MANUAL PULL STATIONS		●	●						●			●		
- EXITS														
SMOKE DETECTION DEVICES		●	●						●	●		●		
- SPOT TYPE														
- ADJACENT TO FACP		●	●						●			●		
- AIR HANDLING UNIT - SUPPLY				●	●				●			●		
HEAT DETECTION DEVICES		●	●						●			●		
- SPOT TYPE														
CARBON MONOXIDE DETECTION DEVICES		●	●							●		●		
- SPOT TYPE														
LOSS OF PRIMARY POWER AT THE FACP						●	●							
ABNORMAL CIRCUIT OR DEVICE						●	●							

NOTIFICATION CIRCUIT VOLTAGE DROP CALCULATIONS											
SIGNAL CIRCUIT DESCRIPTION	APS / CIRCUIT LOCATION	MAXIMUM DISTANCE TO LAST APPLIANCE					VOLTAGE DROP CALCULATIONS				
		ALARM CURRENT (AMPS)	12 AWG (FEET)	14 AWG (FEET)	16 AWG (FEET)	18 AWG (FEET)	CIRCUIT LENGTH (FEET)	12 AWG (VOLTS)	V-DROP (12 AWG)	14 AWG (VOLTS)	V-DROP (14 AWG)
FACP	MAIN ELECTRICAL ROOM										
AV01	BUILDINGS 1601-1610, 1908	1.415	806	506	318	200	280	18.87	1.53	17.97	2.43
AV02	SPARE	0.000						20.40	0.00	20.40	0.00
AV03	SPARE	0.000						20.40	0.00	20.40	0.00
AV04	SPARE	0.000						20.40	0.00	20.40	0.00
NOTES:											
1. NOTIFICATION APPLIANCE CIRCUITS (NAC) DESIGNED FOR A MAXIMUM 1.5 AMPS, A MAXIMUM 4.4 VDC DROP, AND MINIMUM OPERATING VOLTAGE OF 16 VDC.											
2. FIELD VERIFY ALL VOLTAGE DROP AND POWER REQUIREMENTS.											
3. NAC CIRCUITS HAVE BEEN DESIGNED BASED UPON THE ABOVE CIRCUIT CURRENT AND VOLTAGE CRITERIA USING SYSTEM SENSOR LED APPLIANCE CRITERIA. IF ALTERNATE NOTIFICATION APPLIANCES ARE INSTALLED, PROVIDE REVISED POWER AND VOLTAGE DROP CALCULATIONS FOR ALL CIRCUITS.											

CONTROL-BY-EVENT PROGRAMMING MATRIX		
ADDRESS	TYPE I.D.	ALPHANUMERIC LABEL OF DEVICE
L01D01	SMOKE / CO	ABOVE FACP
L01D02	SMOKE / CO	CORRIDOR
L01D03	SMOKE	BEDROOM
L01D04	SMOKE	BEDROOM
L01D05	SMOKE	CORRIDOR
L01D06	SMOKE	BEDROOM
L01D07	SMOKE	BEDROOM
L01D08	SMOKE / CO	CORRIDOR
L01D09	SMOKE	OFFICE
L01D10	SMOKE	RECREATION/LIVING ROOM
L01D11	SMOKE / CO	DINING AREA
L01D12	SMOKE	DINING AREA
L01D13		
L01D14		
L01D15		
L01D16	HEAT	BATHROOM
L01D17	HEAT	LAUNDRY
L01D18	HEAT	STORAGE
L01D19	HEAT	KITCHEN
L01D20	HEAT	BATHROOM
L01D21	HEAT	STORAGE
L01D22		
L01D23		
L01D24		
L01D25	DUCT	MECHANICAL ROOM - SUPPLY SIDE
L01D26	DUCT	MECHANICAL ROOM - SUPPLY SIDE
L01D27		
L01D28		
L01D29		
L01D30		

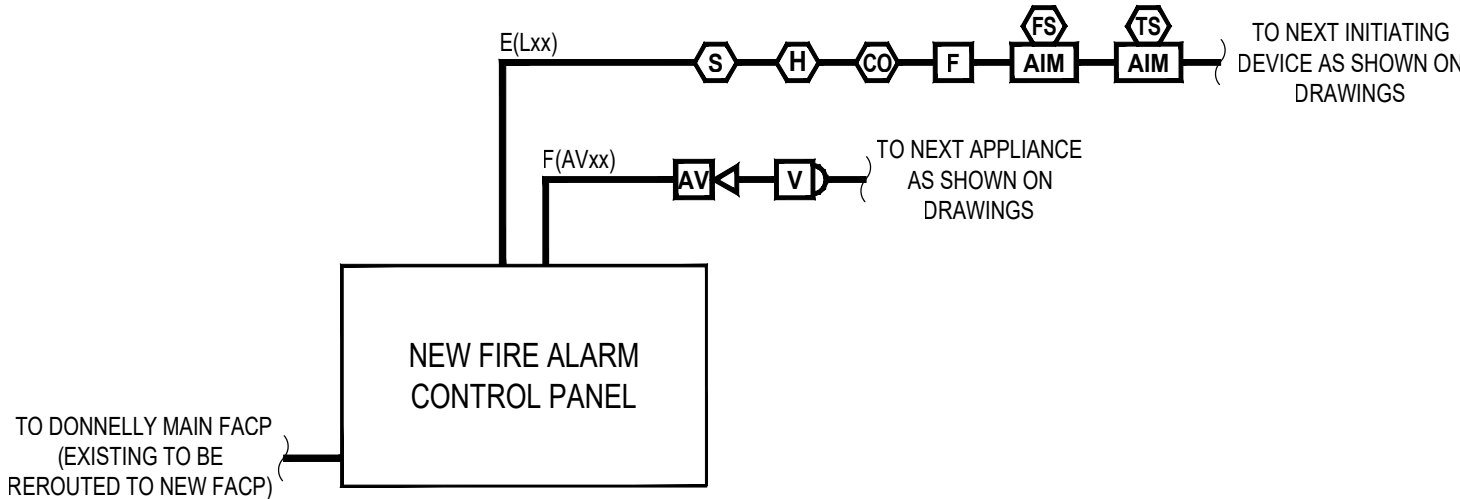
NOTES:

- NO SLC DEVICE OR MODULE LOOP SHALL BE ASSIGNED MORE THAN EIGHTY (80) PERCENT OF ITS POINT CAPACITY UNLESS APPROVED IN WRITING BY THE ENGINEER OF RECORD (CIC).
- CONTROL-BY-EVENT PROGRAMMING IS PROVIDED FOR GENERAL INFORMATION PURPOSES ONLY. SPECIFIC SYSTEM PROGRAMMING SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR IN THE SHOP DRAWING SUBMITTAL.

CONTROL-BY-EVENT PROGRAMMING MATRIX		
ADDRESS	TYPE I.D.	ALPHANUMERIC LABEL OF DEVICE
L01M01	PULL	CORRIDOR
L01M02	PULL	OFFICE
L01M03	PULL	FRONT ENTRANCE
L01M04	PULL	DINING AREA
L01M05	PULL	DINING AREA
L01M06		
L01M07		
L01M08		
L01M09		
L01M10		
L01M11		
L01M12		
L01M13		
L01M14		
L01M15		
L01M16		
L01M17		
L01M18	RELAY	MECHANICAL - AHU SHUT DOWN
L01M19		
L01M20		
L01M21		
L01M22	MONITOR	EXTERIOR PIV - TAMPER SWITCH
L01M23	MONITOR	MECHANICAL - SPRINKLER FLOW SWITCH
L01M24	MONITOR	MECHANICAL - SPRINKLER TAMPER SWITCH
L01M25		
L01M26		
L01M27		
L01M28		
L01M29		
L01M30		

NOTES:

- NO SLC DEVICE OR MODULE LOOP SHALL BE ASSIGNED MORE THAN EIGHTY (80) PERCENT OF ITS POINT CAPACITY UNLESS APPROVED IN WRITING BY THE ENGINEER OF RECORD (CIC).
- CONTROL-BY-EVENT PROGRAMMING IS PROVIDED FOR GENERAL INFORMATION PURPOSES ONLY. SPECIFIC SYSTEM PROGRAMMING SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR IN THE SHOP DRAWING SUBMITTAL.



- NOTES:
1. THE EXISTING FIRE ALARM CONTROL PANEL AND AUXILIARY POWER SUPPLY LOCATED IN THE MECHANICAL ROOM SHALL REMAIN AS CURRENTLY CONFIGURED WHILE NEW FIRE ALARM SYSTEM IS BEING INSTALLED.
 2. PROVIDE A SUFFICIENT QUANTITY OF THE NAC CIRCUIT TO SATISFY THE DRAWING AND SPECIFICATION REQUIREMENTS. PROVIDE POWER AND VOLTAGE DROP CALCULATIONS TO THE CIRCUIT.

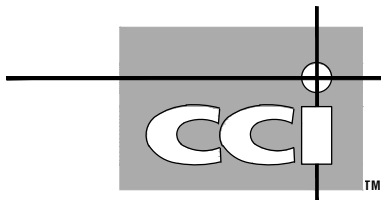
1 BUILDINGS 1601-1610 FIRE ALARM SYSTEM RISER DIAGRAM

FA-603 NOT TO SCALE



COURTNEY R. OGLE
Registered Professional Engineer
MO # 2015000584
Expires 12-31-2026

**ROGERS-SCHMIDT
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CONSULTING ENGINEERS**
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10695 BELLEFONTAINE RD.
ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01

SITE # 7356

ASSET # SEE SHT G-002

REVISION: _____
DATE: _____
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DATE: _____
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DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 02/10/2025

CAD DWG FILE: M2006-01-7356-
6517356071-FA-603.DWG

DRAWN BY: MM
CHECKED BY: MLY
DESIGNED BY: JRC

SHEET TITLE:

BUILDINGS 1601-1610, 1908
MATRIX, CBE,
CALCULATIONS AND
RISER DIAGRAM

SHEET NUMBER:

FA-603

40 OF 45 SHEETS

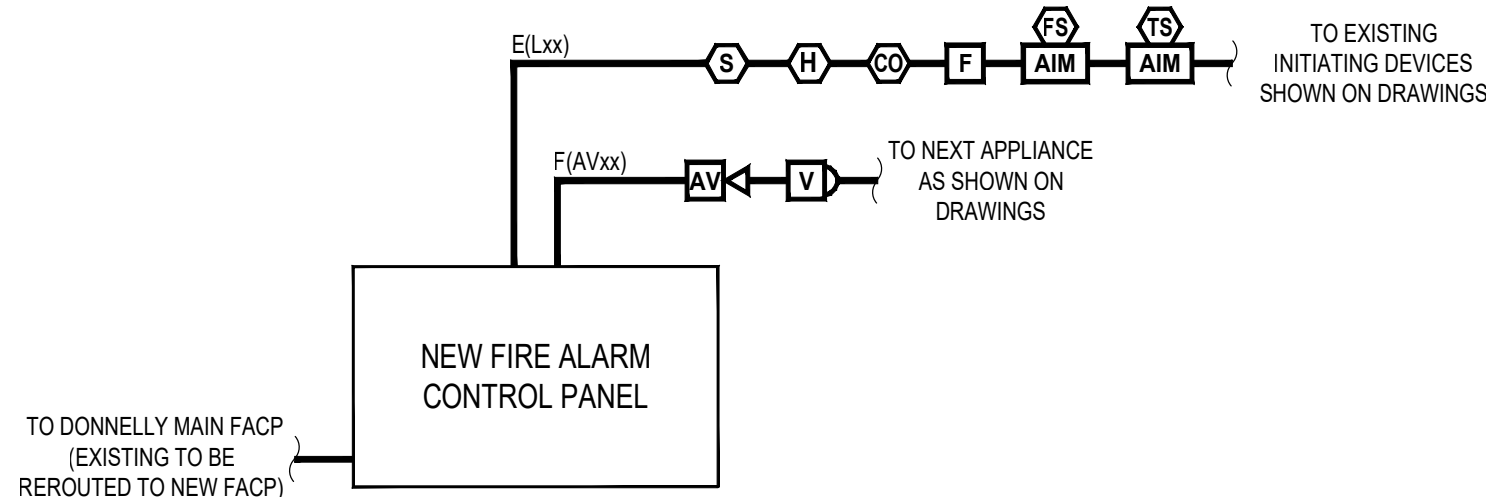
FEBRUARY 10, 2025

	ACTUATES ALARM CONDITION AT FIRE ALARM CONTROL PANEL	TRANSMITS ALARM SIGNAL TO DONNELLY BLDG FACP AS CURRENTLY CONFIGURED	ACTUATES SUPERVISORY CONDITION AT FIRE ALARM CONTROL PANEL	TRANSMITS SUPERVISORY SIGNAL TO DONNELLY BLDG FACP AS CURRENTLY CONFIGURED	ACTUATES TROUBLE CONDITION AT FIRE ALARM CONTROL PANEL	TRANSMITS TROUBLE SIGNAL TO DONNELLY BLDG FACP AS CURRENTLY CONFIGURED	ACTUATES INTERIOR NOUDBE/INDIVIDUAL NOTIFICATION APPLIANCES THROUGHOUT THE BUILDING	ACTUATES TEMPORAL-I PATTERN THROUGH SOUNDER BASE	SHUTS DOWN INDIVIDUAL HVAC UNITS
FIRE SPRINKLER SYSTEMS									
- WATERFLOW SWITCH	●	●				●		●	
- CONTROL VALVE TAMPER SWITCH			●	●					
MANUAL PULL STATIONS									
- EXITS	●	●				●		●	
SMOKE DETECTION DEVICES									
- SPOT TYPE	●	●				●	●	●	
- ADJACENT TO FACP	●	●				●	●	●	
- AIR HANDLING UNIT - SUPPLY			●	●		●		●	
HEAT DETECTION DEVICES									
- SPOT TYPE	●	●				●		●	
CARBON MONOXIDE DETECTION DEVICES									
- SPOT TYPE	●	●					●	●	
LOSS OF PRIMARY POWER AT THE FACP					●	●			
ABNORMAL CIRCUIT OR DEVICE					●	●			

SIGNAL CIRCUIT DESCRIPTION	APS / CIRCUIT LOCATION	MAXIMUM DISTANCE TO LAST APPLIANCE					VOLTAGE DROP CALCULATIONS				
		ALARM CURRENT (AMPS)	12 AWG (FEET)	14 AWG (FEET)	16 AWG (FEET)	18 AWG (FEET)	CIRCUIT LENGTH (FEET)	12 AWG (VOLTS)	V-DROP (12 AWG)	14 AWG (VOLTS)	V-DROP (14 AWG)
FACP	MAIN ELECTRICAL ROOM BUILDINGS 1801-1810	1.415	806	506	318	200	280	18.87	1.53	17.97	2.43
AV01	SPARE	0.000						20.40	0.00	20.40	0.00
AV02	SPARE	0.000						20.40	0.00	20.40	0.00
AV03	SPARE	0.000						20.40	0.00	20.40	0.00
AV04	SPARE	0.000						20.40	0.00	20.40	0.00

NOTES:

- NOTIFICATION APPLIANCE CIRCUITS (NAC) DESIGNED FOR A MAXIMUM 1.5 AMPS, A MAXIMUM 4.4 VDC DROP, AND MINIMUM OPERATING VOLTAGE OF 16 VDC.
- FIELD VERIFY ALL VOLTAGE DROP AND POWER REQUIREMENTS.
- NAC CIRCUITS HAVE BEEN DESIGNED BASED UPON THE ABOVE CIRCUIT CURRENT AND VOLTAGE CRITERIA USING SYSTEM SENSOR LED APPLIANCE CRITERIA. IF ALTERNATE NOTIFICATION APPLIANCES ARE INSTALLED, PROVIDE REVISED POWER AND VOLTAGE DROP CALCULATIONS FOR ALL CIRCUITS.



- NOTES:
1. THE EXISTING FIRE ALARM CONTROL PANEL AND AUXILIARY POWER SUPPLY LOCATED IN THE MECHANICAL ROOM SHALL REMAIN AS CURRENTLY CONFIGURED WHILE NEW FIRE ALARM SYSTEM IS BEING INSTALLED.
 2. PROVIDE A SUFFICIENT QUANTITY OF THE NAC CIRCUIT TO SATISFY THE DRAWING AND SPECIFICATION REQUIREMENTS. PROVIDE POWER AND VOLTAGE DROP CALCULATIONS TO THE CIRCUIT.

BUILDINGS 1801-1810 FIRE ALARM SYSTEM RISER DIAGRAM

NOT TO SCALE

CONTROL-BY-EVENT PROGRAMMING MATRIX		
ADDRESS	TYPE I.D.	ALPHANUMERIC LABEL OF DEVICE
L01D01	SMOKE / CO	ABOVE FACP
L01D02	SMOKE	CORRIDOR
L01D03	SMOKE	BEDROOM
L01D04	SMOKE	BEDROOM
L01D05	SMOKE	CORRIDOR
L01D06	SMOKE	BEDROOM
L01D07	SMOKE	BEDROOM
L01D08	SMOKE	OFFICE
L01D09	SMOKE	RECREATION/LIVING ROOM
L01D10	SMOKE	CORRIDOR
L01D11	SMOKE	LIVING ROOM
L01D12	SMOKE	DINING ROOM
L01D13		
L01D14		
L01D15		
L01D16	HEAT	STORAGE
L01D17	HEAT	LAUNDRY
L01D18	HEAT	KITCHEN
L01D19	HEAT	TOILET
L01D20	HEAT	STORAGE
L01D21		
L01D22		
L01D23		
L01D24	CARBON MONOXIDE	CORRIDOR
L01D25	CARBON MONOXIDE	CORRIDOR
L01D26		
L01D27		
L01D28		
L01D29	DUCT	MECHANICAL ROOM - SUPPLY SIDE
L01D30		

NOTES:

1. NO SLC DEVICE OR MODULE LOOP SHALL BE ASSIGNED MORE THAN EIGHTY (80) PERCENT OF ITS POINT CAPACITY UNLESS APPROVED IN WRITING BY THE ENGINEER OF RECORD (CCI).
2. CONTROL-BY-EVENT PROGRAMMING IS PROVIDED FOR GENERAL INFORMATION PURPOSES ONLY. SPECIFIC SYSTEM PROGRAMMING SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR IN THE SHOP DRAWING SUBMITTAL.

ADDRESS	TYPE I.D.	ALPHANUMERIC LABEL OF DEVICE
L01M01	PULL	CORRIDOR
L01M02	PULL	OFFICE
L01M03	PULL	FRONT ENTRANCE
L01M04	PULL	LIVING ROOM
L01M05		
L01M06		
L01M07		
L01M08		
L01M09		
L01M10		
L01M11		
L01M12		
L01M13		
L01M14		
L01M15		
L01M16		
L01M17		
L01M18		
L01M19		
L01M20	RELAY	MECHANICAL - AHU SHUT DOWN
L01M21		
L01M22	MONITOR	EXTERIOR PIV - TAMPER SWITCH
L01M23	MONITOR	MECHANICAL - TAMPER SWITCH
L01M24	MONITOR	MECHANICAL - FLOW SWITCH
L01M25	MONITOR	KITCHEN - ANSUL SYSTEM
L01M26		
L01M27		
L01M28		
L01M29		
L01M30		

NOTES:

1. NO SLC DEVICE OR MODULE LOOP SHALL BE ASSIGNED MORE THAN EIGHTY (80) PERCENT OF ITS POINT CAPACITY UNLESS APPROVED IN WRITING BY THE ENGINEER OF RECORD (CCI).
2. CONTROL-BY-EVENT PROGRAMMING IS PROVIDED FOR GENERAL INFORMATION PURPOSES ONLY. SPECIFIC SYSTEM PROGRAMMING SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR IN THE SHOP DRAWING SUBMITTAL.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



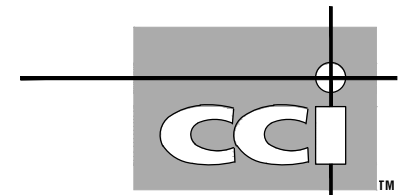
COURTNEY R. OGLE
Registered Professional Engineer
MO # 2015000584
Expires 12-31-2026

ROGERS-SCHMIDT
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MISSOURI STATE CERTIFICATE
OF AUTHORITY #000408

**2043 WOODLAND PKWY, SUITE 300
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**OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION**

DEPARTMENT OF
MENTAL HEALTH

REPLACE FIRE ALARM SYSTEM & ELECTRICAL RENOVATION

BELLEFONTAINE
HABILITATION CENTER
10695 BELLEFONTAINE RD.
ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01

SITE # 7356

ASSET # SEE SHT G-002

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 02/10/2025

CAD DWG FILE: M2006-01-7356-6517356071-FA-604.DWG

DRAWN BY: MM
CHECKED BY: MLY
DESIGNED BY: JRC

SHEET TITLE:

BUILDINGS 1801-1810 MATRIX, CBE, CALCULATIONS AND RISER DIAGRAM

SHEET NUMBER

FA-604

41 OF 45 SHEETS

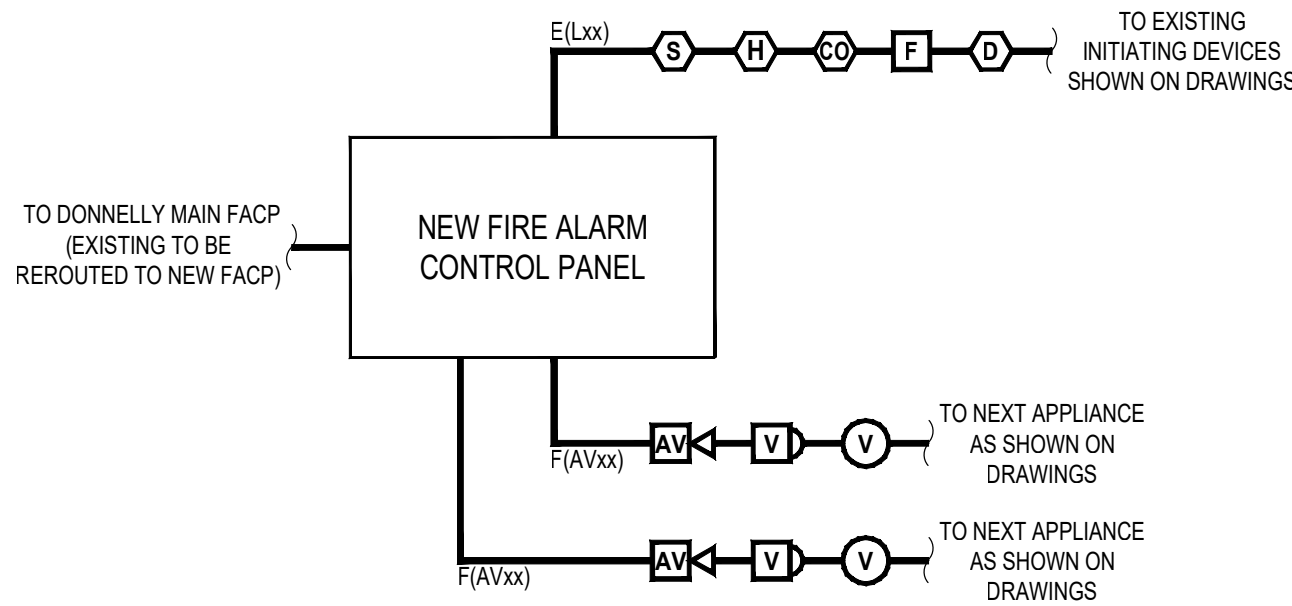
FEBRUARY 10, 2025

FIRE ALARM MATRIX		FACILITY									
		1	2	3	4	5	6	7	8	9	10
		ACTIVATES ALARM CONDITION AT FIRE-ALARM CONTROL PANEL TRANSMITS ALARM SIGNAL TO DOWNELL BLDG FACD AS CURRENTLY CONFIGURED ACTUATES TROUBLE CONDITION AT FIRE-ALARM CONTROL PANEL TRANSMITS TROUBLE SIGNAL TO DOWNELL BLDG FACD AS CURRENTLY CONFIGURED ACTIVATES INTERIOR AUDIBLE/VISUAL BUILDING ACTUATES TEMPORAL-4 PATTERN NOTIFICATION APPLIANCES THROUGHOUT THE SHOTS DOWN ALL HVAC UNITS RELEASES AFFECTED DOOR HOLD OPEN DEVICES									
MANUAL PULL STATIONS											
- EXITS		●	●				●			●	
SMOKE DETECTION DEVICES											
- SPOT TYPE		●	●				●	●		●	
- ADJACENT TO FACP		●	●				●			●	
- DOOR HOLD OPEN		●	●				●			●	
- AIR HANDLING UNIT - SUPPLY				●	●		●			●	
HEAT DETECTION DEVICES											
- SPOT TYPE		●	●				●			●	
CARBON MONOXIDE DETECTION DEVICES											
- SPOT TYPE		●	●				●			●	
LOSS OF PRIMARY POWER AT THE FACP				●	●						
ABNORMAL CIRCUIT OR DEVICE				●	●						

SIGNAL CIRCUIT DESCRIPTION	APS / CIRCUIT LOCATION	MAXIMUM DISTANCE TO LAST APPLIANCE					VOLTAGE DROP CALCULATIONS				
		ALARM CURRENT (AMPS)	12 AWG (FEET)	14 AWG (FEET)	16 AWG (FEET)	18 AWG (FEET)	CIRCUIT LENGTH (FEET)	12 AWG (VOLTS)	V-DROP (12 AWG)	14 AWG (VOLTS)	V-DROP (14 AWG)
FACP	MAIN ELECTRICAL ROOM										
AV01	BUILDINGS 1901-1906	1.530	745	468	294	185	380	18.16	2.24	16.83	3.57
AV02	BUILDINGS 1901-1906	1.415	806	506	318	200	300	18.76	1.64	17.79	2.61
AV03	SPARE	0.000						20.40	0.00	20.40	0.00
AV04	SPARE	0.000						20.40	0.00	20.40	0.00

NOTES:

- NOTIFICATION APPLIANCE CIRCUITS (NAC) DESIGNED FOR A MAXIMUM 1.5 AMPS, A MAXIMUM 4.4 VDC DROP, AND MINIMUM OPERATING VOLTAGE OF 16 VDC.
- FIELD VERIFY ALL VOLTAGE DROP AND POWER REQUIREMENTS.
- NAC CIRCUITS HAVE BEEN DESIGNED BASED UPON THE ABOVE CIRCUIT CURRENT AND VOLTAGE CRITERIA USING SYSTEM SENSOR LED APPLIANCE CRITERIA. IF ALTERNATE NOTIFICATION APPLIANCES ARE INSTALLED, PROVIDE REVISED POWER AND VOLTAGE DROP CALCULATIONS FOR ALL CIRCUITS.



- NOTES:
1. THE EXISTING FIRE ALARM CONTROL PANEL AND AUXILIARY POWER SUPPLY LOCATED IN THE MECHANICAL ROOM SHALL REMAIN AS CURRENTLY CONFIGURED WHILE NEW FIRE ALARM SYSTEM IS BEING INSTALLED.
 2. PROVIDE A SUFFICIENT QUANTITY OF THE NAC CIRCUIT TO SATISFY THE DRAWING AND SPECIFICATION REQUIREMENTS. PROVIDE POWER AND VOLTAGE DROP CALCULATIONS TO THE CIRCUIT.

1 BUILD
FA-605 NOT TO SCALE

NOT TO SCALE

CONTROL-BY-EVENT PROGRAMMING MATRIX		
ADDRESS	TYPE I.D.	ALPHANUMERIC LABEL OF DEVICE
L01D01	SMOKE	DINING AREA
L01D02	SMOKE	BEDROOM
L01D03	SMOKE	BEDROOM
L01D04	SMOKE	BEDROOM
L01D05	SMOKE / CO	RECREATION/LIVING ROOM
L01D06	SMOKE	BEDROOM
L01D07	SMOKE	BEDROOM
L01D08	SMOKE	BEDROOM
L01D09	SMOKE	DINING AREA
L01D10	SMOKE	BEDROOM
L01D11	SMOKE	BEDROOM
L01D12	SMOKE	BEDROOM
L01D13	SMOKE / CO	RECREATION/LIVING ROOM
L01D14	SMOKE	BEDROOM
L01D15	SMOKE	BEDROOM
L01D16	SMOKE	BEDROOM
L01D17		
L01D18		
L01D19	HEAT	MECHANICAL
L01D20	HEAT	LAUNDRY
L01D21	HEAT	LAUNDRY
L01D22	HEAT	KITCHEN
L01D23	HEAT	DINING AREA
L01D24	HEAT	DINING AREA
L01D25	HEAT	CLOSET
L01D26	HEAT	CLOSET
L01D27	HEAT	CLOSET
L01D28	HEAT	TOILET
L01D29	HEAT	CLOSET
L01D30	HEAT	CLOSET
L01D31	HEAT	BEDROOM
L01D32	HEAT	CLOSET
L01D33	HEAT	CLOSET
L01D34	HEAT	CLOSET
L01D35	HEAT	TOILET
L01D36	HEAT	BEDROOM
L01D37	HEAT	CLOSET
L01D38	HEAT	CLOSET
L01D39	HEAT	CLOSET
L01D40	HEAT	CLOSET
L01D41	HEAT	CLOSET
L01D42	HEAT	TOILET
L01D43	HEAT	BEDROOM
L01D44	HEAT	CLOSET
L01D45	HEAT	CLOSET
L01D46	HEAT	CLOSET
L01D47	HEAT	KITCHEN
L01D48	HEAT	DINING AREA
L01D49	HEAT	DINING AREA
L01D50	HEAT	CLOSET
L01D51	HEAT	CLOSET
L01D52	HEAT	CLOSET
L01D53	HEAT	TOILET
L01D54	HEAT	CLOSET
L01D55	HEAT	CLOSET
L01D56	HEAT	BEDROOM
L01D57	HEAT	CLOSET
L01D58	HEAT	CLOSET
L01D59	HEAT	CLOSET
L01D60	HEAT	BEDROOM
L01D61	HEAT	TOILET
L01D62	HEAT	CLOSET
L01D63	HEAT	CLOSET
L01D64	HEAT	CLOSET
L01D65	HEAT	CLOSET
L01D66	HEAT	CLOSET
L01D67	HEAT	TOILET
L01D68	HEAT	CLOSET
L01D69	HEAT	CLOSET
L01D70	HEAT	CLOSET
L01D71		
L01D72		
L01D73	CARBON MONOXIDE	MECHANICAL ROOM
L01D74		
L01D75		
L01D76	DUCT	MECHANICAL ROOM - SUPPLY SIDE
L01D77		
L01D78		
L01D79		
L01D80		

NOTES:

- NO SLC DEVICE OR MODULE LOOP SHALL BE ASSIGNED MORE THAN EIGHTY (80) PERCENT OF ITS POINT CAPACITY UNLESS APPROVED IN WRITING BY THE ENGINEER OF RECORD (CIC).
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ADDRESS	TYPE I.D.	ALPHANUMERIC LABEL OF DEVICE
L01M01	PULL	LAUNDRY
L01M02	PULL	KITCHEN
L01M03	PULL	DINING AREA
L01M04	PULL	RECREATION/LIVING ROOM
L01M05	PULL	KITCHEN
L01M06	PULL	DINING AREA
L01M07	PULL	RECREATION/LIVING ROOM
L01M08		
L01M09		
L01M10	RELAY	FACP - AHU SHUTDOWN
L01M11	RELAY	DINING AREA - DOOR HOLDER
L01M12		
L01M13		
L01M14		
L01M15		
L01M16		
L01M17		
L01M18		
L01M19		
L01M20		
L01M21		
L01M22		
L01M23		
L01M24		
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L01M71		
L01M72		
L01M73		
L01M74		
L01M75		
L01M76		
L01M77		
L01M78		
L01M79		
L01M80		

NOTES:

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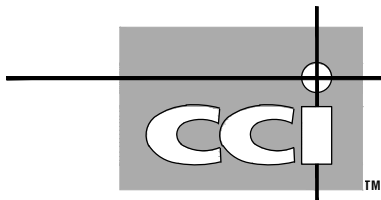
STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR



COURTNEY R. OGLE
Registered Professional Engineer
MO # 2015000584
Expires 12-31-2026

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REPLACE FIRE ALARM SYSTEM & ELECTRICAL RENOVATION

BELLEFONTAINE
HABILITATION CENTER
10695 BELLEFONTAINE RD.
ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01

SITE # 7356

ASSET # SEE SHT G-002

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 02/10/2025

CAD DWG FILE: M2006-01-7356-6517356071-FA-605.DWG

DRAWN BY: MM
CHECKED BY: MLY
DESIGNED BY: JRC

SHEET TITLE:

BUILDINGS 1901-1906 MATRIX, CBE, CALCULATIONS AND RISER DIAGRAM

SHEET NUMBER

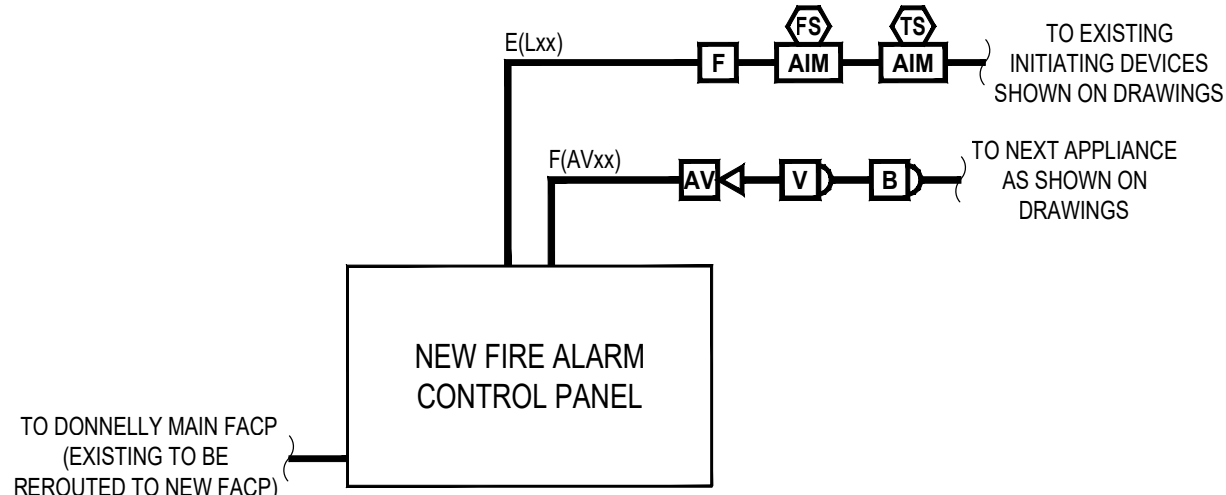
FA-605

FIRE ALARM MATRIX									
	ACTUATES ALARM CONDITION AT FIRE ALARM CONTROL PANEL	TRANSMITS ALARM SIGNAL TO DONNELLY BLDG FACP AS CURRENTLY CONFIGURED	ACTUATES SUPERVISORY CONDITION AT FIRE ALARM CONTROL PANEL	TRANSMITS SUPERVISORY SIGNAL TO DONNELLY BLDG FACP AS CURRENTLY CONFIGURED	ACTUATES TROUBLE CONDITION AT FIRE ALARM CONTROL PANEL	TRANSMITS TROUBLE SIGNAL TO DONNELLY BLDG FACP AS CURRENTLY CONFIGURED	ACTUATES INTERIOR AUDIBLE VISUAL NOTIFICATION APPLIANCES THROUGHOUT THE BUILDING		
FIRE SPRINKLER SYSTEMS									
- WATERFLOW SWITCH	●	●		●	●		●		
- CONTROL VALVE TAMPER SWITCH									
MANUAL PULL STATIONS									
- EXITS	●	●					●		
LOSS OF PRIMARY POWER AT THE FACP					●	●			
ABNORMAL CIRCUIT OR DEVICE					●	●			

NOTIFICATION CIRCUIT VOLTAGE DROP CALCULATIONS											
SIGNAL CIRCUIT DESCRIPTION	APS / CIRCUIT LOCATION	MAXIMUM DISTANCE TO LAST APPLIANCE					VOLTAGE DROP CALCULATIONS				
		ALARM CURRENT (AMPS)	12 AWG (FEET)	14 AWG (FEET)	16 AWG (FEET)	18 AWG (FEET)	CIRCUIT LENGTH (FEET)	12 AWG (VOLTS)	V-DROP (12 AWG)	14 AWG (VOLTS)	V-DROP (14 AWG)
FACP	MAIN ELECTRICAL ROOM										
AV01	FOOD DISTRIBUTION	1.145	996	626	393	247	210	19.47	0.93	18.92	1.48
AV02	SPARE	0.000						20.40	0.00	20.40	0.00
AV03	SPARE	0.000						20.40	0.00	20.40	0.00
AV04	SPARE	0.000						20.40	0.00	20.40	0.00
NOTES:											
1. NOTIFICATION APPLIANCE CIRCUITS (NAC) DESIGNED FOR A MAXIMUM 1.5 AMPS, A MAXIMUM 4.4 VDC DROP, AND MINIMUM OPERATING VOLTAGE OF 16 VDC.											
2. FIELD VERIFY ALL VOLTAGE DROP AND POWER REQUIREMENTS.											
3. NAC CIRCUITS HAVE BEEN DESIGNED BASED UPON THE ABOVE CIRCUIT CURRENT AND VOLTAGE CRITERIA USING SYSTEM SENSOR LED APPLIANCE CRITERIA. IF ALTERNATE NOTIFICATION APPLIANCES ARE INSTALLED, PROVIDE REVISED POWER AND VOLTAGE DROP CALCULATIONS FOR ALL CIRCUITS.											

CONTROL-BY-EVENT PROGRAMMING MATRIX		
ADDRESS	TYPE I.D.	ALPHANUMERIC LABEL OF DEVICE
L01D01		
L01D02		
L01D03		
L01D04		
L01D05		
L01D06		
L01D07		
L01D08		
L01D09		
L01D10		
L01D11		
L01D12		
L01D13		
L01D14		
L01D15		
L01D16		
L01D17		
L01D18		
L01D19		
L01D20		
L01D21		
L01D22		
NOTES:		
1. NO SLC DEVICE OR MODULE LOOP SHALL BE ASSIGNED MORE THAN EIGHTY (80) PERCENT OF ITS POINT CAPACITY UNLESS APPROVED IN WRITING BY THE ENGINEER OF RECORD (CCI).		
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CONTROL-BY-EVENT PROGRAMMING MATRIX		
ADDRESS	TYPE I.D.	ALPHANUMERIC LABEL OF DEVICE
L01M01	PULL	BASEMENT STAIRWELL
L01M02	PULL	MAIN LEVEL STAIRWELL
L01M03		
L01M04		
L01M05		
L01M06	MONITOR	EXTERIOR PIV - TAMPER SWITCH
L01M07	MONITOR	MECHANICAL - TAMPER SWITCHES
L01M08	MONITOR	MECHANICAL - FLOW SWITCH
L01M09		
L01M10		
L01M11		
L01M12	RELAY	FACP - AHU SHUTDOWN
L01M13		
L01M14		
L01M15		
L01M16		
L01M17		
L01M18		
L01M19		
L01M20		
L01M21		
L01M22		
NOTES:		
1. NO SLC DEVICE OR MODULE LOOP SHALL BE ASSIGNED MORE THAN EIGHTY (80) PERCENT OF ITS POINT CAPACITY UNLESS APPROVED IN WRITING BY THE ENGINEER OF RECORD (CCI).		
2. CONTROL-BY-EVENT PROGRAMMING IS PROVIDED FOR GENERAL INFORMATION PURPOSES ONLY. SPECIFIC SYSTEM PROGRAMMING SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR IN THE SHOP DRAWING SUBMITTAL.		



- NOTES:
- THE EXISTING FIRE ALARM CONTROL PANEL AND AUXILIARY POWER SUPPLY LOCATED IN THE MECHANICAL ROOM SHALL REMAIN AS CURRENTLY CONFIGURED WHILE NEW FIRE ALARM SYSTEM IS BEING INSTALLED.
 - PROVIDE A SUFFICIENT QUANTITY OF THE NAC CIRCUIT TO SATISFY THE DRAWING AND SPECIFICATION REQUIREMENTS. PROVIDE POWER AND VOLTAGE DROP CALCULATIONS TO THE CIRCUIT.

1
FA-606

NOT TO SCALE

WAREHOUSE/FOOD DISTRIBUTION CENTER FIRE ALARM SYSTEM RISER DIAGRAM

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

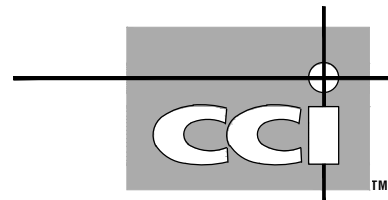


COURTNEY R. OGLE
Registered Professional Engineer
MO # 2015000584
Expires 12-31-2026

ROGERS-SCHMIDT
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HABILITATION CENTER
10695 BELLEFONTAINE RD.
ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01

SITE # 7356

ASSET # SEE SHT G-002

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ISSUE DATE: 02/10/2025

CAD DWG FILE: M2006-01-7356-
6517356071-FA-606.DWG
DRAWN BY: MM
CHECKED BY: MLY
DESIGNED BY: JRC

SHEET TITLE:
WAREHOUSE/FOOD
DISTRIBUTION CENTER
MATRIX, CBE, CALCULATIONS
AND RISER DIAGRAM

SHEET NUMBER:

FA-606

43 OF 45 SHEETS
FEBRUARY 10, 2025

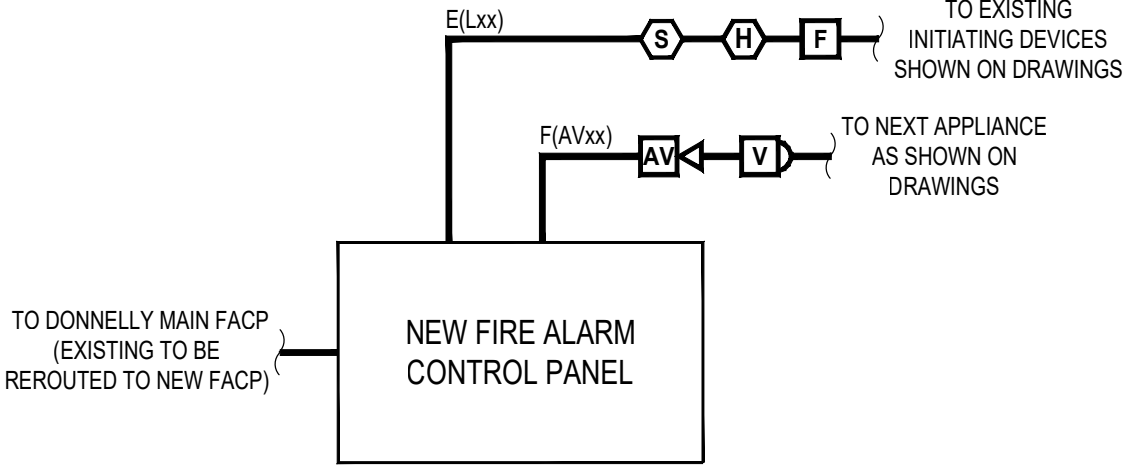
FIRE ALARM MATRIX

FIRE ALARM MATRIX		ACTIVATES ALARM CONDITION AT FIRE ALARM CONTROL PANEL		TRANSMITS ALARM SIGNAL TO DONNELLY BLDG FACP AS CURRENTLY CONFIGURED		ACTIVATES TROUBLE CONDITION AT FIRE ALARM CONTROL PANEL		TRANSMITS TROUBLE SIGNAL TO DONNELLY BLDG FACP AS CURRENTLY CONFIGURED		ACTIVATES INTERIOR AUDIBLE/VISUAL NOTIFICATION APPLIANCES THROUGHOUT THE BUILDING	
MANUAL PULL STATIONS											
- EXITS		●	●						●		
SMOKE DETECTION DEVICES											
- SPOT TYPE		●	●						●		
- ADJACENT TO FACP		●	●						●		
HEAT DETECTION DEVICES											
- SPOT TYPE		●	●						●		
LOSS OF PRIMARY POWER AT THE FACP					●	●					
ABNORMAL CIRCUIT OR DEVICE					●	●					

NOTIFICATION CIRCUIT VOLTAGE DROP CALCULATIONS											
SIGNAL CIRCUIT DESCRIPTION	APS / CIRCUIT LOCATION	MAXIMUM DISTANCE TO LAST APPLIANCE					VOLTAGE DROP CALCULATIONS				
		ALARM CURRENT (AMPS)	12 AWG (FEET)	14 AWG (FEET)	16 AWG (FEET)	18 AWG (FEET)	CIRCUIT LENGTH (FEET)	12 AWG (VOLTS)	V-DROP (12 AWG)	14 AWG (VOLTS)	V-DROP (14 AWG)
FACP	MAIN ELECTRICAL ROOM										
AV01	MAINTENANCE BUILDING	0.800	1,425	896	562	354	210	19.75	0.65	19.37	1.03
AV02	MAINTENANCE BUILDING	0.875	1,303	819	514	324	530	18.61	1.79	17.55	2.85
AV03	SPARE	0.000						20.40	0.00	20.40	0.00
AV04	SPARE	0.000						20.40	0.00	20.40	0.00
NOTES:											
1. NOTIFICATION APPLIANCE CIRCUITS (NAC) DESIGNED FOR A MAXIMUM 1.5 AMPS, A MAXIMUM 4.4 VDC DROP, AND MINIMUM OPERATING VOLTAGE OF 16 VDC.											
2. FIELD VERIFY ALL VOLTAGE DROP AND POWER REQUIREMENTS.											
3. NAC CIRCUITS HAVE BEEN DESIGNED BASED UPON THE ABOVE CIRCUIT CURRENT AND VOLTAGE CRITERIA USING SYSTEM SENSOR LED APPLIANCE CRITERIA. IF ALTERNATE NOTIFICATION APPLIANCES ARE INSTALLED, PROVIDE REVISED POWER AND VOLTAGE DROP CALCULATIONS FOR ALL CIRCUITS.											

CONTROL-BY-EVENT PROGRAMMING MATRIX		
ADDRESS	TYPE I.D.	ALPHANUMERIC LABEL OF DEVICE
L01D01	HEAT	CONTRACT ROOM ABOVE FACP
L01D02	HEAT	HALLWAY
L01D03	HEAT	HALLWAY
L01D04	HEAT	1608
L01D05	HEAT	1807
L01D06	HEAT	CONFERENCE ROOM
L01D07	HEAT	ELECTRICAL
L01D08	HEAT	HALLWAY
L01D09	HEAT	STORAGE CLOSET
L01D10	HEAT	RESTROOM
L01D11	HEAT	MEZZANINE SOUTH
L01D12	HEAT	HALLWAY
L01D13	HEAT	MEZZANINE NORTH
L01D14	HEAT	HALLWAY
L01D15	HEAT	BOILER ROOM
L01D16	HEAT	O/A MAINTENANCE
L01D17	HEAT	HALLWAY
L01D18	HEAT	1606
L01D19	HEAT	CONFERENCE ROOM
L01D20	HEAT	1606
L01D21	HEAT	OFFICE
L01D22	HEAT	OFFICE
L01D23	HEAT	OFFICE
L01D24		
L01D25		
L01D26		
L01D27	SMOKE	RESTROOM
L01D28		
L01D29		
L01D30		
NOTES:		
1. NO SLC DEVICE OR MODULE LOOP SHALL BE ASSIGNED MORE THAN EIGHTY (80) PERCENT OF ITS POINT CAPACITY UNLESS APPROVED IN WRITING BY THE ENGINEER OF RECORD (CCI).		
2. CONTROL-BY-EVENT PROGRAMMING IS PROVIDED FOR GENERAL INFORMATION PURPOSES ONLY. SPECIFIC SYSTEM PROGRAMMING SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR IN THE SHOP DRAWING SUBMITTAL.		

CONTROL-BY-EVENT PROGRAMMING MATRIX		
ADDRESS	TYPE I.D.	ALPHANUMERIC LABEL OF DEVICE
L01M01	PULL	HALLWAY
L01M02	PULL	MAIN ENTRANCE
L01M03	PULL	GARAGE MAN DOOR SOUTH
L01M04	PULL	GARAGE MAN DOOR NORTH
L01M05	PULL	EXIT DOOR
L01M06	PULL	OFFICE AREA
L01M07	PULL	NORTH EXIT DOOR
L01M08		
L01M09		
L01M10		
L01M11	MONITOR	HEAT
L01M12	MONITOR	HEAT
L01M13		
L01M14		
L01M15		
L01M16	RELAY	FACP - AHU SHUTDOWN
L01M17		
L01M18		
L01M19		
L01M20		
L01M21		
L01M22		
L01M23		
L01M24		
L01M25		
L01M26		
L01M27		
L01M28		
L01M29		
L01M30		
NOTES:		
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- NOTES:
- THE EXISTING FIRE ALARM CONTROL PANEL AND AUXILIARY POWER SUPPLY LOCATED IN THE MECHANICAL ROOM SHALL REMAIN AS CURRENTLY CONFIGURED WHILE NEW FIRE ALARM SYSTEM IS BEING INSTALLED.
 - PROVIDE A SUFFICIENT QUANTITY OF THE NAC CIRCUIT TO SATISFY THE DRAWING AND SPECIFICATION REQUIREMENTS. PROVIDE POWER AND VOLTAGE DROP CALCULATIONS TO THE CIRCUIT.

1
FA-607
NOT TO SCALE

MAINTENANCE BUILDING FIRE ALARM SYSTEM RISER DIAGRAM

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

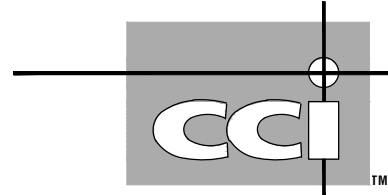


COURTNEY R. OGLE
Registered Professional Engineer
MO # 2015000584
Expires 12-31-2026

ROGERS-SCHMIDT
ENGINEERING CO., P.C.
CONSULTING ENGINEERS

1736 WEST PARK CENTER DR.
SUITE 204
ST. LOUIS, MO 63026
PHONE: 636-600-1551
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MISSOURI STATE CERTIFICATE
OF AUTHORITY #000408



2043 WOODLAND PKWY, SUITE 300
ST. LOUIS, MISSOURI 63146-4235
314-991-2633
www.codeconsultants.com

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
MENTAL HEALTH

REPLACE FIRE ALARM
SYSTEM & ELECTRICAL
RENOVATION

BELLEFONTAINE
HABILITATION CENTER
10695 BELLEFONTAINE RD.
ST. LOUIS, MISSOURI 63137

PROJECT # M2006-01

SITE # 7356

ASSET # SEE SHT G-002

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
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DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 02/10/2025

CAD DWG FILE: M2006-01-7356-
6517356071-FA-607.DWG

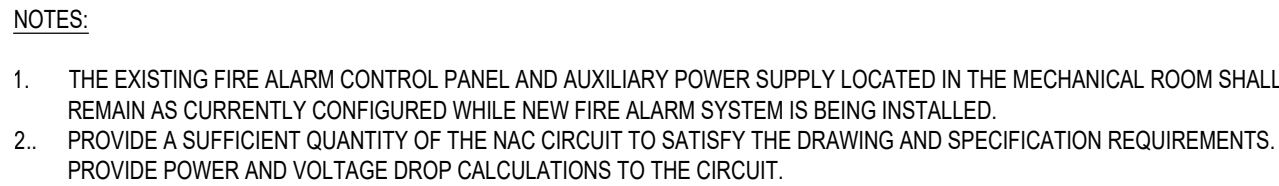
DRAWN BY: MM
CHECKED BY: MLY
DESIGNED BY: JRC

SHEET TITLE:

MAINTENANCE
BUILDING MATRIX, CBE,
CALCULATIONS AND
RISER DIAGRAM

SHEET NUMBER:

FA-607

[illegible]

1
FA-608

ADDRESS	TYPE I.D.	ALPHANUMERIC LABEL OF DEVICE
L01D01	SMOKE	LOBBY - MULTIPURPOSE BUILDING
L01D02	SMOKE	LOBBY - MULTIPURPOSE BUILDING
L01D03	SMOKE	CLASSROOM CORRIDOR - MULTIPURPOSE BUILDING
L01D04	SMOKE	CLASSROOM CORRIDOR - MULTIPURPOSE BUILDING
L01D05	SMOKE	CLASSROOM CORRIDOR - MULTIPURPOSE BUILDING
L01D06	SMOKE	CLASSROOM CORRIDOR - MULTIPURPOSE BUILDING
L01D07	SMOKE	LOBBY - MULTIPURPOSE BUILDING
L01D08	SMOKE	LOBBY - MULTIPURPOSE BUILDING
L01D09	SMOKE	LOBBY - MULTIPURPOSE BUILDING
L01D10	SMOKE	RECREATION ROOM CLOSET - MULTIPURPOSE BUILDING
L01D11	SMOKE	TREATMENT OFFICE CORRIDOR - MULTIPURPOSE BUILDING
L01D12	SMOKE	TREATMENT OFFICE CORRIDOR - MULTIPURPOSE BUILDING
L01D13	SMOKE	TREATMENT OFFICE CORRIDOR - MULTIPURPOSE BUILDING
L01D14	SMOKE	TREATMENT OFFICE CORRIDOR - MULTIPURPOSE BUILDING
L01D15	SMOKE	CORRIDOR - MULTIPURPOSE BUILDING
L01D16	SMOKE	CORRIDOR - MULTIPURPOSE BUILDING
L01D17	SMOKE	CORRIDOR - MULTIPURPOSE BUILDING
L01D18	SMOKE	CORRIDOR - MULTIPURPOSE BUILDING
L01D19	SMOKE	CORRIDOR - MULTIPURPOSE BUILDING
L01D20	SMOKE	CORRIDOR - MULTIPURPOSE BUILDING
L01D21	SMOKE	CORRIDOR - MULTIPURPOSE BUILDING
L01D22	SMOKE	CORRIDOR - MULTIPURPOSE BUILDING
L01D23	SMOKE	CORRIDOR - MULTIPURPOSE BUILDING
L01D24	SMOKE	CORRIDOR - MULTIPURPOSE BUILDING
L01D25	SMOKE	CORRIDOR - PHYSICAL THERAPY BUILDING
L01D26	SMOKE	CORRIDOR - PHYSICAL THERAPY BUILDING
L01D27	SMOKE	CORRIDOR - PHYSICAL THERAPY BUILDING
L01D28	SMOKE	CORRIDOR - PHYSICAL THERAPY BUILDING
L01D29	SMOKE	CORRIDOR - PHYSICAL THERAPY BUILDING
L01D30	SMOKE	CORRIDOR - PHYSICAL THERAPY BUILDING
L01D31	SMOKE	CORRIDOR - PHYSICAL THERAPY BUILDING
L01D32		
L01D33		
L01D34	HEAT	CLOAK ROOM - MULTIPURPOSE BUILDING
L01D35	HEAT	STORAGE - MULTIPURPOSE BUILDING
L01D36	HEAT	STORAGE - MULTIPURPOSE BUILDING
L01D37	HEAT	CONTROL ROOM - MULTIPURPOSE BUILDING
L01D38	HEAT	RECREATION ROOM CLOSET - MULTIPURPOSE BUILDING
L01D39	HEAT	STORAGE - MULTIPURPOSE BUILDING
L01D40	HEAT	STORAGE - MULTIPURPOSE BUILDING
L01D41	HEAT	ATTIC - MULTIPURPOSE BUILDING
L01D42	HEAT	ATTIC - MULTIPURPOSE BUILDING
L01D43	HEAT	STORAGE - MULTIPURPOSE BUILDING
L01D44	HEAT	MAINTENANCE - MULTIPURPOSE BUILDING
L01D45	HEAT	STORAGE - MULTIPURPOSE BUILDING
L01D46	HEAT	BASEMENT - MULTIPURPOSE BUILDING
L01D47	HEAT	WHAT'S COOKING KITCHEN - PHYSICAL THERAPY BUILDING
L01D48		
L01D49		
L01D50	DUCT	AHU-1 - SUPPLY SIDE - MULTIPURPOSE BUILDING
L01D51	DUCT	AHU-2 - SUPPLY SIDE - MULTIPURPOSE BUILDING
L01D52	DUCT	AHU-3 - SUPPLY SIDE - MULTIPURPOSE BUILDING
L01D53	DUCT	AHU-4 - SUPPLY SIDE - MULTIPURPOSE BUILDING
L01D54		
L01D55		
L01D56	CARBON MONOXIDE	ATTIC - MULTIPURPOSE BUILDING
L01D57	CARBON MONOXIDE	ATTIC - MULTIPURPOSE BUILDING
L01D58	CARBON MONOXIDE	BASEMENT - MULTIPURPOSE BUILDING
L01D59		
L01D60		

NOTES:

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STATE OF MISSOURI
COURTNEY R. OGLE
NUMBER
PE-2015000584
PROFESSIONAL ENGINEER
02-14

MISSOURI STATE CERTIFICATE
OF AUTHORITY #000408

ASSET # SEE SHT G-002

ISSUE DATE: 02/10/2025

CAD DWG FILE: M2006-01-7356-6517356071-FA-608.DWG

DRAWN BY: MM
CHECKED BY: MLY
DESIGNED BY: JRC

SHEET NUMBER:

45 OF 45 SHEETS
FEBRUARY 10, 2025