Install Fire Alarm & Suppression Systems
Langsford House Youth Center
Lee Summit, Missouri

BID DOCUMENTS

CLARK & ENERSEN

OWNER: **STATE OF MISSOURI**
MICHAEL L. PARSON, GOVERNOR

DEPARTMENT OF SOCIAL SERVICES

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

DESIGNER: **CLARK & ENERSEN**

PROJECT NUMBER: **H2203-01**
A/E PROJECT NUMBER: **050-017-22**

SITE NUMBER: **7717**
ASSET NUMBER: **8877717001**

SHEET NUMBER:
G-000
2/2/2023

REFERENCE SYMBOLS

SIM / 1 / A101 — DETAIL OR SECTION NUMBER; SHEET ON WHICH IT IS FOUND

1 VIEW NAME — SCALE: 1/8" = 1'-0" — DETAIL REFERENCE NUMBER

SIM / 1 / A101 — SECTION REFERENCE

SIM / 1 / A101 — DETAIL REFERENCE

A101 / 1 / A101 / SIM 1 — ELEVATION REFERENCE

SIM / 1 / A101 — CROSS SECTION REFERENCE

SIM / 1/ A101 — DETAIL SECTION REFERENCE

CLASSROOM 101 — ROOM IDENTIFIER

101 — DOOR/OPENING IDENTIFIER

1t — WINDOW/OPENING IDENTIFIER

0 — GRID LINE

FIN. FLR. 100'-0" — ELEVATION REFERENCE

1) — WALL TYPE REFERENCE

(1) — KEY NOTE

MATCH LINE

DEMOLITION INDICATOR

A / 001 — REVISION TAG & CLOUD INDICATOR

REVISION TAG INFORMATION:

TOP indicates the instrument type.
- A = Addendum
- B = Bid Package
- D = Construction Change Directive or Change Directive
- F = Field Order
- G= Guaranteed Maximum Price
- I = Architects Supplemental Instructions or Architects Supplemental Information
- L = Limited Permit
- P = Proposal Request, Proposal Request Order or Change Proposal Request
- R = Request For Information

BOTTOM indicates consecutive number assigned to instrument type.

GENERAL NOTES

1. ALL DISCIPLINES SHALL BE RESPONSIBLE FOR THEIR SCOPE OF WORK. THIS WORK IS TO BE SCHEDULED AND COMPLETED WITH THE GENERAL CONTRACTOR'S FULL KNOWLEDGE.
2. ALL DIMENSIONS LOCATING PLUMBING FIXTURES ARE FROM FINISH MATERIAL NOT FROM GPDW SHEATHING.
3. FINAL CLEANING - REMOVE OR REPAIR DAMAGED OR SOILED SPOTS ON NEWLY PAINTED WALLS AND ON ALL NEWLY INSTALLED WORK. REMOVE DUST AND DEBRIS FROM ALL NEW WORK.

STANDARD ABBREVIATIONS

A/E	ARCHITECT/ENGINEER
AB	ANCHOR BOLT
ABBR	ABBREVIATE
ABV	ABOVE
AC	AIR CONDITIONING
ACID RES	ACID-RESISTANT
ACOUS	ACOUSTICAL
ACOUS INSUL	ACOUSTICAL INSULATION
ACOUS PNL	ACOUSTICAL PANEL
ACOUS PLAS	ACOUSTICAL PLASTER
ACOUS TILE	ACOUSTICAL TILE
ACT	ACTUAL
AD	AREA DRAIN
ADC	AUTOMATIC DOOR CLOSER
ADDL	ADDITIONAL
ADDM	ADDENDUM
ADJ	ADJUSTABLE
ADJC	ADJACENT
AF	ACCESS FLOOR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFS	ABOVE FINISHED SLAB
AGGR	AGGREGATE
AHR	ANCHOR
AHU	AIR HANDLING UNIT
ALD	ALUMINUM DOOR
ALM	ALARM
ALT	ALTERNATE
ALUM	ALUMINUM
AMB	AMBIENT
AMPL	AMPLIFIER
AMT	AMOUNT
ANN	ANNUNCIATOR
ANOD	ANODIZED
ANT	ANTENNA
AP	ACCESS PANEL
APC	ACOUSTICAL PANEL CEILING
APPX	APPENDIX
ARCH	ARCHITECT (URAL)
ASB	ASBESTOS
ASC	ABOVE SUSPENDED CEILING
ASPH	ASPHALT
ASYM	ASYMMETRICAL
AV	AUDIO VISUAL
AVE	AVENUE
AWC	ACOUSTICAL WALL COVERING
AWP	ACOUSTICAL WALL PANEL
B&B	BALLED AND BURLAPPED
BAF	BAFFLE
BAL	BALANCE
BB	BULLETIN BOARD
BC	BOTTOM OF CURB
BD	BOARD
BEV	BEVEL
BF	BOTH FACES
BFF	BELOW FINISH FLOOR
BFP	BACKFLOW PREVENTER
BITUM	BITUMINOUS
BJT	BED JOINT
BL	BASE LINE
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BLKHD	BULKHEAD
BLST	BALLAST
BM	BEAM
BO	BOTTOM OF
BOC	BACK OF CURB
BOW	BOTTOM OF WALL
BP	BASE PLATE
BRCG	BRACING
BRDG JST	BRIDGING JOIST
BRDG	BRIDGING
BRG	BEARING
BRG PL	BEARING PLATE
BRK	BRICK
BRKT	BRACKET
BRS	BRASS
BRZ	BRONZE
BS	BOTH SIDES
BSMT	BASEMENT
BTM	BOTTOM
BUR	BUILT-UP ROOF
BW	BOTH WAYS
C/C	CENTER TO CENTER
C&G	CURB AND GUTTER
CAB	CABINET
CAV	CAVITY
CB	CATCH BASIN
CCTV	CLOSED CIRCUIT TELEVISION
CEM	CEMENT
CEM PLAS	CEMENT PLASTER
CER	CERAMIC
CER TILE	CERAMIC TILE
CFLG	COUNTER FLASHING
CG	CORNER GUARD
CH BD	CHALKBOARD
CHAN	CHANNEL
CHFR	CHAMFER
CHK	CHECK
CI	CAST IRON
CIP	CAST IN PLACE
CIR	CIRCLE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLG DIFF	CEILING DIFFUSER
CLG HT	CEILING HEIGHT
CLL	CONTRACT LIMIT LINE
CLOS	CLOSET
CLR	CLEAR
CLSR	CLOSURE
CMPST	COMPOSITE
CMU	CONCRETE MASONRY UNIT
CNR	CORNER
CNTR	COUNTER
CO	CLEANOUT
COL	COLUMN
COMM	COMMERCIAL
COMPL	COMPLETE
CONC	CONCRETE
CONC FL	CONCRETE FLOOR
CONF	CONFERENCE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
COV PL	COVER PLATE
CPRS	COMPRESSIBLE
CPT	CARPET
CRCMF	CIRCUMFERENCE
CRS	COLD ROLLED STEEL
CSG	CASING
CSK	COUNTERSUNK
CSMT	CASEMENT
CSWK	CASEWORK
CT	CERAMIC TILE
CTV	CABLE TELEVISION
CUB	CUBICLE
CUR	CURRENT
CW	COLD WATER
DBL GLZ	DOUBLE GLAZING
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DF	DRAPERY FABRIC
DFR	DOOR FRAME
DH	DOUBLE HUNG
DIA	DIAMETER
DIM	DIMENSION
DIST	DISTANCE
DIV	DIVIDER
DIW	DEIONIZED WATER
DJ	DOUBLE JOIST
DL	DEAD LOAD
DL	DRAPERY LINER
DMPF	DAMPPROOFING
DN	DOWN
DO	DITTO
DR	DOOR
DR	DRAIN
DRCLSR	DOOR CLOSURE
DS	DOWNSPOUT
DST	DOOR STOP
DT	DRAIN TILE
DUPL	DUPLICATE
DVTL	DOVETAIL
DW	DISHWASHER
DWG	DRAWING
DWL	DOWEL
DWR	DRAWER
DWTR	DUMBWAITER
E	EAST
EA	EACH
EF	EACH FACE
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
EMER SHR	EMERGENCY SHOWER
ENAM	ENAMEL
ENCL	ENCLOSURE
ENGR	ENGINEER
ENTR	ENTRANCE
EO	ELECTRICAL OUTLET
EP	ELECTRICAL PANEL
EPS	EXPANDED POLYSTYRENE
EPX	EPOXY FLOOR
EQL SP	EQUALLY SPACED
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ERECT	ERECTION
ESCAL	ESCALATOR
ESMT	EASEMENT
EST	ESTIMATE
EW	EACH WAY
EXC	EXCAVATE
EXG	EXISTING
EXH HD	EXHAUST HOOD
EXH FN	EXHAUST FAN
EXP	EXPANSION
EXSP	EXPOSED
EXST	EXISTING
EXST GR	EXISTING GRADE
EXT	EXTERIOR
EXTN	EXTENSION
F BRK	FIRE BRICK
F/F	FACE TO FACE
FBD	FIBERBOARD
FC	FIRE COATED
FD	FLOOR DRAIN
FDN	FOUNDATION
FEC	FIRE EXTINGUISHER CABINET
FF	FACTORY FINISH
FFE	FINISH FLOOR ELEVATION
FGL	FIBERGLASS
FIN GR	FINISH GRADE
FIN FL	FINISH FLOOR
FIN	FINISH
FL	FLASHING
FL	FLOWLINE
FLDG	FOLDING
FLG	FLANGE
FLR	FLOOR
FLR SK	FLOOR SINK
FLR PL	FLOOR PLATE
FLR FIN	FLOOR FINISH
FLT GL	FLOAT GLASS
FLUOR	FLUORESCENT
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FPL	FIREPLACE
FPRF	FIREPROOFING
FRM	FRAME
FRNT	FRONT
FS	FAR SIDE
FS	FLAT SCREEN
FS	FULL SIZE
FSP	FIRE STANDPIPE
FSTNR	FASTENER
FTG	FOOTING
FURR	FURRING
FUT	FUTURE
FXTR	FIXTURE
GALV	GALVANIZED
GB	GRAB BAR
GDRL	GUARD RAIL
GENL	GENERAL
GENL CONTR	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
GL	GLASS
GL BLK	GLASS BLOCK
GLU LAM	GLUE LAMINATED
GLZ	GLAZING
GLZ CMU	GLAZED CONCRETE MASONRY UNIT
GND	GROUND
GPDW	GYPSUM DRY WALL
GR BM	GRADE BEAM
GR	GRADE
GRTG	GRATING
GUT	GUTTER
GYP	GYPSUM
GYP PLAS	GYPSUM PLASTER
H	HIGH
H&CW	HOT AND COLD WATER
HB	HOSE BIBB
HC	HANDICAP
HC	HOLLOW CORE
HCMU	HOLLOW CONCRETE MASONRY UNIT
HD	HEAVY DUTY
HDJT	HEAD JOINT
HDBD	HARDBOARD
HDR	HEADER
HDWD	HARDWOOD
HGT	HEIGHT
HLB	HORIZONTAL LOUVER BLINDS
HM	HOLLOW METAL
HMD	HOLLOW METAL DOOR
HMF	HOLLOW METAL FRAME
HNDRL	HAND RAIL
HO	HOLD-OPEN
HORIZ	HORIZONTAL
HR	HOUR
HS	HIGH STRENGTH
HSB	HIGH STRENGTH BOLT
HTG	HEATING
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HW	HOT WATER
HYD	HYDRANT
ID	INSIDE DIAMETER
IF	INSIDE FACE
INCAND	INCANDESCENT
INL	INLET
INSTL	INSTALLATION
INSUL	INSULATION
INTR	INTERIOR
INV	INVERT
INV EL	INVERT ELEVATION
JAN	JANITOR
JC	JANITOR'S CLOSET
JST	JOIST
JT	JOINT
KB	KNEE BRACE
KO	KNOCKOUT
KOP	KNOCKOUT PANEL
KPL	KICK PLATE
KWY	KEYWAY
L	LEFT
LAB	LABORATORY
LAV	LAVATORY
LB	POUND
LBR	LUMBER
LCMU	LIGHTWEIGHT CONCRETE MASONRY UNIT
LD BRG	LOAD BEARING
LDG	LANDING
LF	LINEAR FOOT
LG	LENGTH
LH	LEFT HAND
LHR	LEFT HAND REVERSE
LIN	LINEAR
LIN	LINOLEUM
LIQ	LIQUID
LKR	LOCKER
LKR RM	LOCKER ROOM
LL	LIVE LOAD
LNTL	LINTEL
LOC	LOCATION
LONG	LONGITUDINAL
LRG	LARGE
LS	LUMP SUM
LT	LIGHT
LT WT	LIGHTWEIGHT
LTG	LIGHTING
LVL	LEVEL
LVR	LOUVER
LW PLAS	LIGHTWEIGHT PLASTER
LWC	LIGHTWEIGHT CONCRETE
M	METER
MAINT	MAINTENANCE
MARB	MARBLE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKERBOARD
MBR	MEMBER
MC	METAL CLAD
MC	MOMENT CONNECTION
MDF	MEDIUM DENSITY FIBERBOARD
MDO	MEDIUM DENSITY OVERLOAD
ME	MATCH EXISTING
ME	MISCELLANEOUS EQUIPMENT
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFG	MANUFACTURING
MFR	MANUFACTURER
MH	MANHOLE
MIL	MILLIMETER
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MK	MARK
ML	MATCH LINE
ML	METAL LATH
MLC	METAL LABORATORY CASEWORK
MLDG	MOLDING
MLWK	MILLWORK
MO	MASONRY OPENING
MOD	MODULE
MTD	MOUNTED
MTG	MEETING
MTL	METAL
MTR	MORTAR
MULL	MULLION
MULT	MULTIPLE
MVBL	MOVABLE
N	NORTH
N/A	NOT APPLICABLE
NEG	NEGATIVE
NF	NEAR FACE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
O/O	OUT TO OUT
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OD	OVERFLOW DRAIN
OF	OUTSIDE FACE
OFCI	OWNER FURNISHED/CONTRACTOR INSTALL
OFF	OFFICE
OFOI	OWNER FURNISHED-OWNER INSTALLED
OHD	OVERHEAD DOOR
OPER	OPERABLE
OPNG	OPENING
OPP	OPPOSITE
OPT	OPTIONAL
ORIG	ORIGINAL
OTA	OPEN TO ABOVE
OTFA	OPEN TO FLOOR ABOVE
OTS	OPEN TO STRUCTURE
OVHD	OVERHEAD
OXY	OXYGEN
OZ	OUNCE
P/C	PRECAST
PAR	PARALLEL
PARG	PARGING
PB	PANIC BAR
PBD	PARTICLE BOARD
PC	PORTLAND CEMENT
PCP	PORTLAND CEMENT PLASTER
PED	PEDESTAL
PERF	PERFORATED
PERIM	PERIMETER
PERM	PERMANENT
PERP	PERPENDICULAR
PF	PANEL FABRIC
PFP	PRE-FINISHED PANEL
PGBD	PEGBOARD
PH	PHASE
PL	PLATE
PL	PLASTIC LAMINATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLAT	PLATFORM
PLBG	PLUMBING
PLYWD	PLYWOOD
POL	POLISHED
POLY	POLYSTYRENE
POLYISO	POLYISOCYANURATE
POS	POSITIVE
PR	PAIR
PREFAB	PREFABRICATED
PRELIM	PRELIMINARY
PRKG	PARKING
PROJ	PROJECT
PS	PROJECTION SCREEN
PT	PAINT
PCT	PORCELAIN TILE
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
PVG	PAVING
PVMT	PAVEMENT
PWR	POWER
QT	QUARRY TILE
QTY	QUANTITY
QUAL	QUALITY
R	RISER
RAD	RADIUS
RB	RUBBER BASE
RBR	RUBBER
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REC	RECESSED
RECD	RECEIVED
RECPT	RECEPTACLE
RECT	RECTANGULAR
REF	REFERENCE
REINF	REINFORCEMENT
REM	REMOVABLE
REQD	REQUIRED
RESIL	RESILIENT
RFM	RECESSED FLOOR MAT
RFG	ROOFING
RH	RIGHT HAND
RHR	RIGHT HAND REVERSE
RND	ROUND
RO	ROUGH OPENING
RST	RUBBER STAIR TREAD
RT	RUBBER TILE
RV	ROOF VENT
RVS	REVERSE
S	SOUTH
S	SEATING
SALV	SALVAGE
SB	SPLASH BLOCK
SC	SOLID CORE
SCH	SCHEDULE
SCMU	SOLID CONCRETE MASONRY UNIT
SCRN	SCREEN
SD	STORM DRAIN
SECT	SECTION
SF	SYSTEMS FURNITURE
SGL	SINGLE
SHR	SHOWER
SHTHG	SHEATHING
SHVL	SHELVES
SIM	SIMILAR
SJ	SLIP JOINT
SK	SINK
SLA	SLATE
SLP	SLOPE
SLS	SUB-FLOOR LEVELING SYSTEM
SLV	SLEEVE
SM	SHEET METAL
SMLS	SEAMLESS
SP	SPACING
SPCL	SPECIAL
SPEC	SPECIFICATION
SPKLR	SPRINKLER
SPKR	SPEAKER
SPRT	SUPPORT
SQFT	SQUARE FOOT
SQ	SQUARE
SQIN	SQUARE INCH
SQYD	SQUARE YARD
SSK	SERVICE SINK
SS	STAINLESS STEEL
SSM	SOLID SURFACING MATERIAL
ST	STAIN
ST	STREET
STAG	STAGGERED
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STIR	STIRRUP
STL JST	STEEL JOIST
STL PL	STEEL PLATE
STL	STEEL
STN	STONE
STOR	STORAGE
STRUCT	STRUCTURAL
STRUCT STL	STRUCTURAL STEEL
SUPPL	SUPPLEMENT
SURF	SURFACE
SUSP	SUSPENDED
SUSP CLG	SUSPENDED CEILING
SVB	SHEET VINYL BASE
SVF	SHEET VINYL FLOOR
SYM	SYMBOL
SYMM	SYMMETERICAL
SYST	SYSTEM
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
T	TABLE
TB	TACKBOARD
TB-xx	TEST BORING-xx(E.G. TB-1)
TC	TOP OF CURB
TD	TRENCH DRAIN
TE	TRANSITION EDGE
TECH	TECHNICAL
TEMP	TEMPORARY
TER	TERRAZZO
TFTL	TENANT FURNISHED-TENANT INSTALLED
THK	THICK
THRES	THRESHOLD
THRU	THROUGH
TKBD	TACKBOARD
TLT	TOILET
TMPD	TEMPERED
TMPD GL	TEMPERED GLASS
TNL	TUNNEL
TO	TOP OF
TOF	TOP OF FLANGE
TOFF	TOP OF FINISH FLOOR
TOJ	TOP OF JOIST
TOL	TOLERANCE
TOS	TOP OF STEEL
TOT	TOTAL
TOW	TOP OF WALL
TRNBKL	TURNBUCKLE
TS	TENSILE STRENGTH
TS	TUBE STEEL
TV	TELEVISION
TYP	TYPICAL
UDR	UNDER
UDRLMNT	UNDERLAYMENT
UF	UPHOLSTERY FABRIC
UFD	UNDER FLOOR DUCT
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
ULT	ULTIMATE
UNEX	UNEXCAVATED
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
UR	URINAL
UTIL	UTILITY
V	VOLT
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VB	VAPOR BARRIER
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VDB	VISUAL DISPLAY BOARD
VERT	VERTICAL
VEST	VESTIBULE
VIB	VIBRATION
VNR	VENEER
VOL	VOLUME
VR	VAPOR RETARDER
VT	VINYL TILE
VWC	VINYL WALL COVERING
W	WITH
W/W	WALL TO WALL
W/O	WITHOUT
W	WEST
WC	WATER CLOSET
WC	WALL COVERING
WCPT	WALL CARPET
WD	WOOD
WDD	WOOD DOOR
WDW	WINDOW
WF	WIDE FLANGE
WF	WOOD FLOORING
WGL	WIRE GLASS
WH	WALL HUNG
WH	WATER HEATER
WHSE	WAREHOUSE
WL	WIND LOAD
WLD	WELDED
WR	WATER RESISTANT
WS	WEATHERSTRIPPING
WSCT	WAINSCOT
WT	WEIGHT
WTR	WATER
WTRPRF	WATERPROOFING
WWM	WELDED WIRE MESH
X SECT	CROSS SECTION

SHEET INDEX

STATE OF MISSOURI
MICHAEL L. PARSON, GOVERNOR

STATE OF MISSOURI — JEAN STOVERINK — NUMBER A-2017006811 — ARCHITECT — 2/2/23

PROFESSIONAL SEAL

CLARK & ENERSEN

2020 Baltimore Ave.
Suite 300
Kansas City, MO 64108
p. 816-474-8237

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

DEPARTMENT OF SOCIAL SERVICES

INSTALL FIRE ALARM & SUPPRESSION SYSTEMS

LANGSFORD HOUSE YOUTH CENTER

525 SE SECOND
LEE'S SUMMIT, MO 64063

PROJECT #: H2203-01

SITE #: 7717

ASSET #: 8877717001

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

ISSUE DATE: 2/2/23

DRAWN BY: AO
CHECKED BY: RW
DESIGNED BY: AO

SHEET TITLE:

General Notes, Symbols & Abbreviations and Drawing Index

SHEET NUMBER:

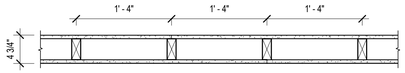
G-001

BID DOCUMENTS
2/2/23

CODE SYMBOL LEGEND

SYMBOL	DESCRIPTION	PROTECTION ELEMENTS
	CLEAR WIDTH MAX EGRESS LOAD ASSUMED EGRESS LOAD	
	FIRE EXTINGUISHER	
	FIRE DEPARTMENT CONNECTION (FDC)	
	PUBLIC FIRE HYDRANT	
	SMOKE BARRIER	1-hour resistive rated walls. 20-minute door assembly. Smoke dampers.

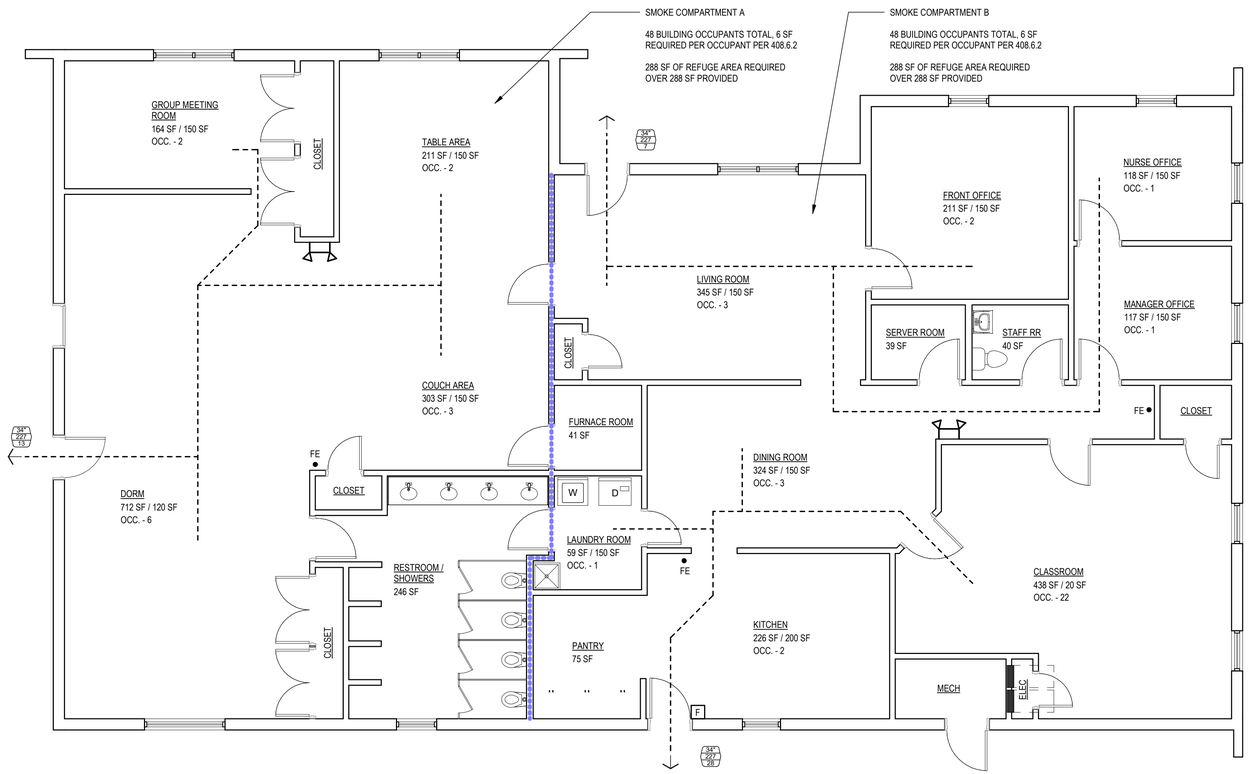
FIRE RATING: 1 HOUR
SYSTEM THICKNESS: 4 3/4"



ASSEMBLY:
GYPSUM BOARD: ONE LAYER 5/8" THICK GYPSUM BOARD (UL TYPE ULIX™)
WOOD STUDS: 2X4 WOOD STUDS, 16" O.C.
GYPSUM BOARD: ONE LAYER 5/8" THICK GYPSUM BOARD (UL TYPE ULIX™)

UL DESIGN NO. U305

SCALE: 1" = 1'-0"



TRUE NORTH PLAN NORTH

FIRST FLOOR CODE COMPLIANCE PLAN

SCALE: 3/16" = 1'-0"

GENERAL INFORMATION

LOCATION: Langsford House Youth Center
525 SE Second Street
Lees Summit, MO 64063

AGENCY INFORMATION: State of Missouri, Facilities Management
730 Truman Building, 301 West High Street, PO Box 809
Jefferson City, MO 65102

AUTHORITY HAVING JURISDICTION:
Missouri Office of the State Fire Marshal

REASON FOR SUBMITTAL: Renovation

PROJECT DESCRIPTION

Update an existing youth center to ensure the fire alarm and suppression system is installed to provide life safety and complies with all current codes. The current youth center is a 24/7 facility that houses fewer than 16 juveniles with support staff.

APPLICABLE CODES

2018 - International Building Code (IBC)
2018 - International Plumbing Code (IPC)
2018 - International Mechanical Code (IMC)
2018 - International Fire Code (IFC)
2017 - National Electrical Code (NEC)
2010 - NFPA 72 - National Fire Alarm Code
2010 - NFPA 13 Installation of Fire Sprinkler Systems

OCCUPANCY/ STRUCTURAL CLASSIFICATION

One story building with concrete and wood structure. Exterior walls are masonry veneer with wood framed bearing walls. Interior walls are wood framed with gypsum board. Floors are concrete slab on grade. Roof structure is wood framed.

ACTIVE LIFE SAFETY SYSTEMS:

Fire Alarm:	Required/Provided: Per NFPA 72
Smoke Detection:	Required/Provided: Per NFPA 72
Exit Signs:	Required/Provided: Battery Backup
Emergency Lighting:	Required/Provided: Battery Backup
Suppression-Automatic:	Required/Provided: Wet System
Fire Extinguishers:	Required/Provided: Per NFPA 10

CODE ITEM			
OCCUPANCY CLASSIFICATION:	INSTITUTIONAL I-3, Condition 5	**TOTAL BUILDING SQUARE FOOTAGE:**	
		FIRST FLOOR	4,292 SF
CONSTRUCTION TYPE:	TYPE VB	TOTAL	4,292 SF
BUILDING HEIGHT: (2018 IBC TABLE 504.4)		**EXIT ACCESS TRAVEL DISTANCE:**	(IBC 2018 TABLE 1017.2)
ALLOWABLE	2 STORY	"I-3" OCCUPANCY	200 feet
ACTUAL	1 STORY		
		COMMON PATH OF EGRESS TRAVEL	(IBC 2018 TABLE 1006.2.1)
BLDG. SQ. FT. : (2018 IBC TABLE 506.2)		"I-3" OCCUPANCY	100 feet
ALLOWABLE PER FLOOR	20,000 sf		
ACTUAL	4,292 sf	**MAXIMUM DEAD-END CORRIDOR**	(IBC 2018 1020.4)
		"I-3" OCCUPANCY	50 feet
FIRE RESISTIVE REQUIREMENTS:			
(2018 IBC TABLE 601)		**EGRESS WIDTH:**	(IBC 2018 1005)
STRUCTURAL FRAME	0	OTHER COMPONENTS	0.15 inches per occupant
EXT. BEARING WALLS	0		
INT. BEARING WALLS	0	**INTERIOR WALL & CEILING FINISH**	(2018 IBC TABLE 803.13)
EXT. NON-BEARING WALLS	0		"I-3" OCCUPANCY
INT. NON-BEARING WALLS	0	Exit Enclosures & Passageways	CLASS A
FLOORS	0	Corridors	CLASS A
ROOFS	0	Rooms & Enclosed Spaces	CLASS C

308.4 Institutional Group I-3.
Institutional Group I-3 occupancy shall include buildings and structures that are inhabited by more than five persons who are under restraint or security. A Group I-3 facility is occupied by persons who are generally incapable of self-preservation due to security measures not under the occupants' control. This group shall include, but not be limited to, the following:

308.4.5 Condition 5.
This occupancy condition shall include buildings in which free movement is restricted from an occupied space. Staff-controlled manual release is provided to permit movement from sleeping units, activity spaces and other occupied areas within the smoke compartment to other smoke compartments.

Section 408.6 Smoke Barrier.
Occupancies in Group I-3 shall have smoke barriers complying with Sections 408.6 and 709 to divide every story occupied by residents for sleeping, or any other story having an occupant load of 50 or more persons, into not fewer than two smoke compartments.

Exception: Spaces having a direct exit to one of the following, provided that the locking arrangement of the doors involved complies with the requirements for doors at the smoke barrier for the use condition involved:

1. A public way.
2. A building separated from the resident housing area by a 2-hour fire-resistance-rated assembly or 50 feet (15 240 mm) of open space.
3. A secured yard or court having a holding space 50 feet (15 240 mm) from the housing area that provides 6 square feet (0.56 m2) or more of refuge area per occupant, including residents, staff and visitors.

408.6.1 Smoke compartments.
The number of residents in any smoke compartment shall be not more than 200. The distance of travel to a door in a smoke barrier from any room door required as exit access shall be not greater than 150 feet (45 720 mm). The distance of travel to a door in a smoke barrier from any point in a room shall be not greater than 200 feet (60 960 mm).

408.6.2 Refuge area.
Not less than 6 net square feet (0.56 m2) per occupant shall be provided on each side of each smoke barrier for the total number of occupants in adjoining smoke compartments. This space shall be readily available wherever the occupants are moved across the smoke barrier in a fire emergency.

408.6.3 Independent egress.
A means of egress shall be provided from each smoke compartment created by smoke barriers without having to return through the smoke compartment from which means of egress originates.

Table 509 Incidental Uses
Laundry Rooms over 100 square feet: 1 hour or provide automatic sprinkler system.
Furance room where any piece of equipment is over 400,000 btu per hour input: 1 hour or provide automatic sprinkler system.

903.2.6 Group I.
An automatic sprinkler system shall be provided throughout buildings with a Group I fire area.

907.2.6.3 Group I-3 Occupancies.
Group I-3 occupancies shall be equipped with a manual fire alarm system and automatic smoke detection system installed for alerting staff.

907.2.6.3.1 System initiation.
Actuation of an automatic fire-extinguishing system, automatic sprinkler system, a manual fire alarm box or a fire detector shall initiate an approved fire alarm signal that automatically notifies staff.

907.2.6.3.2 Manual fire alarm boxes.
Manual fire alarm boxes are not required to be located in accordance with Section 907.4.2 where the fire alarm boxes are provided at staff-attended locations having direct supervision over areas where manual fire alarm boxes have been omitted.

907.2.6.3.2.1 Manual fire alarm boxes in detainee areas.
Manual fire alarm boxes are allowed to be locked in areas occupied by detainees, provided that staff members are present within the subject area and have keys readily available to operate the manual fire alarm boxes.

907.2.6.3.3 Automatic smoke detection system.
An automatic smoke detection system shall be installed throughout resident housing areas, including sleeping units and contiguous day rooms, group activity spaces and other common spaces normally open to residents.

Exceptions:

1. Other approved smoke detection arrangements providing equivalent protection, including, but not limited to, placing detectors in exhaust ducts from cells or behind protective guards listed for the purpose, are allowed where necessary to prevent damage or tampering.
2. Sleeping units in Use Conditions 2 and 3 as described in Section 308.
3. Smoke detectors are not required in sleeping units with four or fewer occupants in smoke compartments that are equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1.

STATE OF MISSOURI
MICHAEL L. PARSON, GOVERNOR

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JEAN STOVERINK
NUMBER A-2017006811
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2/2/23

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

DEPARTMENT OF SOCIAL SERVICES

INSTALL FIRE ALARM & SUPPRESSION SYSTEMS

LANGSFORD HOUSE YOUTH CENTER

525 SE SECOND
LEE'S SUMMIT, MO 64063

PROJECT #: H2203-01

SITE #: 7717
ASSET #: 8877717001

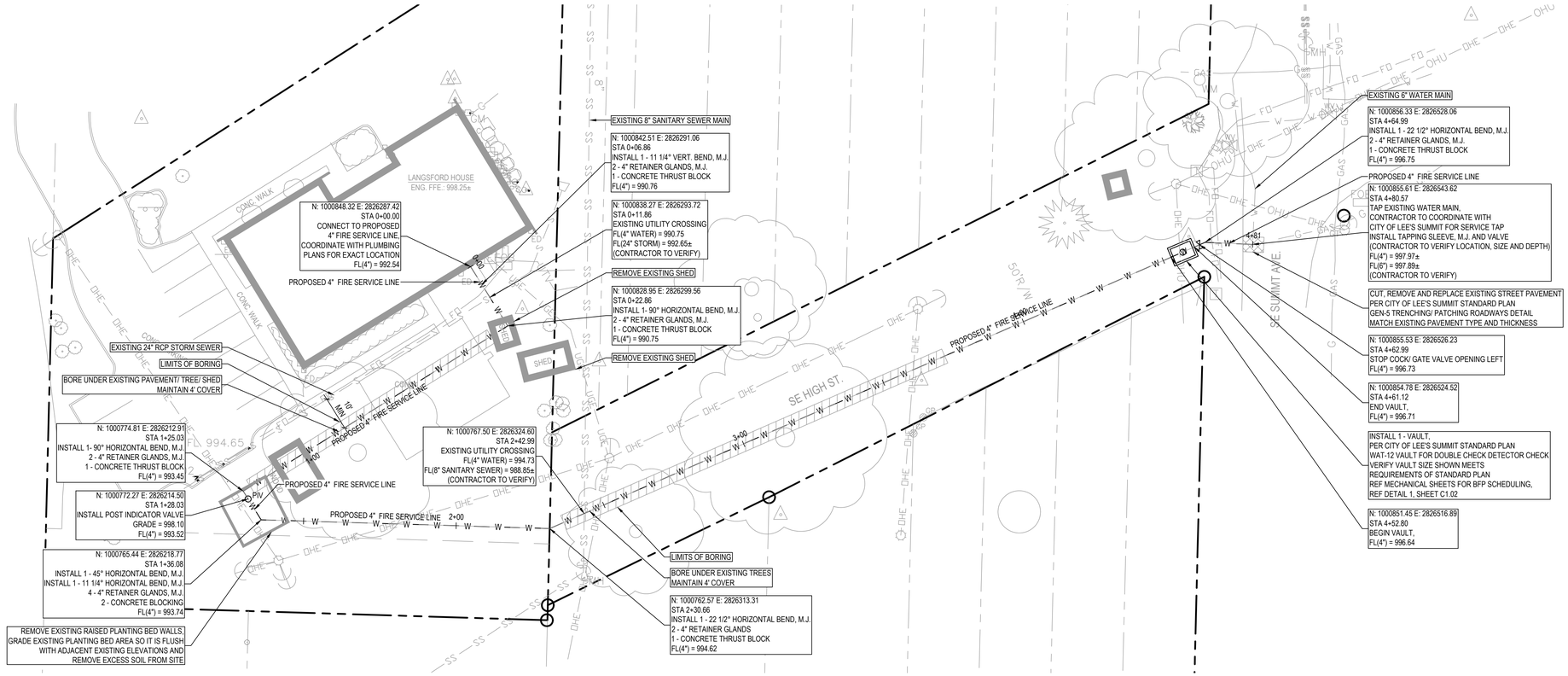
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 2/2/23

DRAWN BY: AO
CHECKED BY: RW
DESIGNED BY: AO

SHEET TITLE:
Code Compliance Plan

SHEET NUMBER:
G-010

BID DOCUMENTS
2/2/23

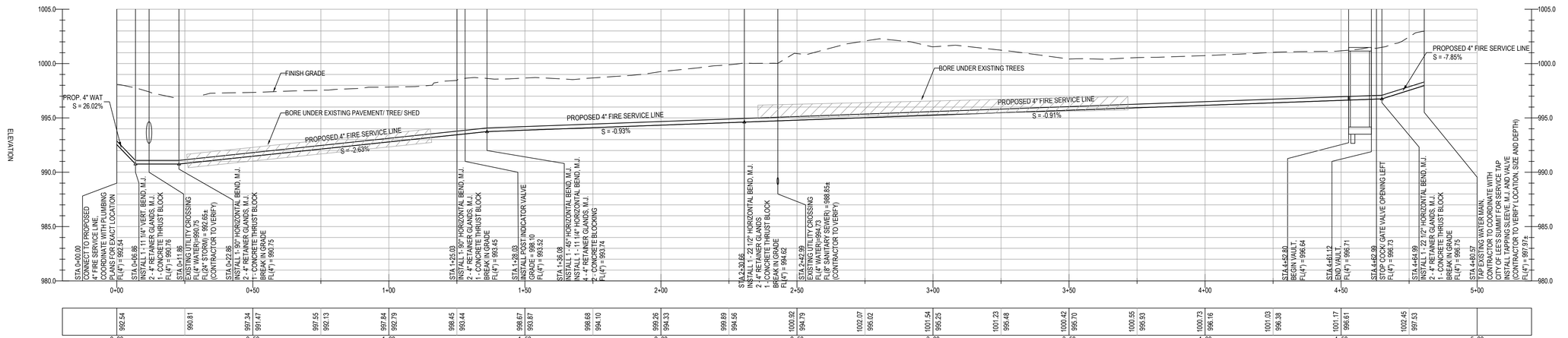


UTILITIES LEGEND

- PROPOSED WATER LINE
- PROPOSED POST INDICATOR VALVE
- EXISTING PROPERTY LINE
- EXISTING WATER LINE
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING UNDERGROUND ELECTRIC
- EXISTING OVERHEAD ELECTRIC
- EXISTING GAS LINE
- EXISTING FIBER OPTIC LINE
- REMOVE AND REPLACE EXISTING PAVEMENT
- LIMITS OF BORING

SITE FIRE SERVICE LINE PLAN

SCALE: 1"=20'-0"



GENERAL NOTES

1. THE CONTRACTOR SHALL MAINTAIN STRICT LATERAL CLEARANCE AS SHOWN ON THE PLANS FOR ALL UTILITY LINES.
2. IN ANY OF THE MAIN OR SERVICE ROUTES ARE ADJUSTED IN THE FIELD BY THE CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TO THE ENGINEER A RECORD OF THE EXACT LOCATIONS, AT THE CONTRACTOR'S EXPENSE, A LICENSED SURVEYOR SHALL BE RETAINED TO LOCATE THE UTILITY ROUTES. THE CONTRACTOR SHALL PROVIDE THE SURVEYED LOCATIONS TO THE ENGINEER IN ELECTRONIC FORMAT.
3. ALL TRENCHES SHALL BE BACKFILLED AND COMPACTED.
4. THE CONTRACTOR SHALL RESTORE ANY DISTURBED AREA TO ITS PREVIOUS CONDITION.
5. THE CONTRACTOR SHALL VERIFY ALL VERTICAL AND HORIZONTAL CROSSINGS OF ALL PROPOSED AND EXISTING UTILITIES PRIOR TO INSTALLATION OF UTILITY. CONTACT THE ENGINEER WITH ANY CONFLICTS.

TRAFFIC CONTROL NOTES

1. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL DURING CONSTRUCTION.
2. TRAFFIC CONTROL SHALL BE PER CITY OF LEE'S SUMMIT STANDARD SPECIFICATIONS "SECTION 3000 - TRAFFIC CONTROL".
3. ALL TRAFFIC CONTROL DEVICES SHALL BE LOCATED ACCORDING TO AND MEET THE REQUIREMENTS PRESCRIBED IN THE MUTCD.

WATER SERVICE NOTES

1. PRIOR TO FINAL ACCEPTANCE ALL WATER MAIN PIPE SHALL BE PRESSURE TESTED BY THE CONTRACTOR.
2. PRIOR TO FINAL ACCEPTANCE ALL WATER MAIN PIPE SHALL BE DISINFECTED BY THE CONTRACTOR.
3. WHERE THE WATER MAIN IS TO BE CONSTRUCTED BELOW OR WITHIN 18 INCHES OF ANY SEWER PIPE, THE CONTRACTOR SHALL LAY A FULL LENGTH OF WATER MAIN PIPE CENTERED ON THE SEWER OR SUCH LENGTH AS WILL PROVIDE THE MAXIMUM POSSIBLE SEPARATION OF THE JOINTS IN THE WATER MAIN FROM THE SEWER LINE.
4. ALL WATER MAIN CONSTRUCTION TO BE DONE UNDER A PLUMBERS PERMIT AND SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES.
5. WATER SERVICE PIPE SHALL HAVE A 4.0' MINIMUM BURY DEPTH AS MEASURED FROM FINISHED GROUND TO TOP OF PIPE.
6. SITE SHALL BE TO FINISHED GRADE PRIOR TO INSTALLATION OF WATER SERVICE.
7. REFER TO PLUMBING PLANS FOR WATER SERVICE TIE-INS WITH BUILDING.

STATE OF MISSOURI
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TIMOTHY A. GERGEN
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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES, MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF SOCIAL SERVICES

INSTALL FIRE ALARM & SUPPRESSION SYSTEMS

LANGSFORD HOUSE YOUTH CENTER

525 SE SECOND LEE'S SUMMIT, MO 64063

PROJECT # H2203-01

SITE #: 7717

ASSET #: 8877717001

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

ISSUE DATE: 2/2/23

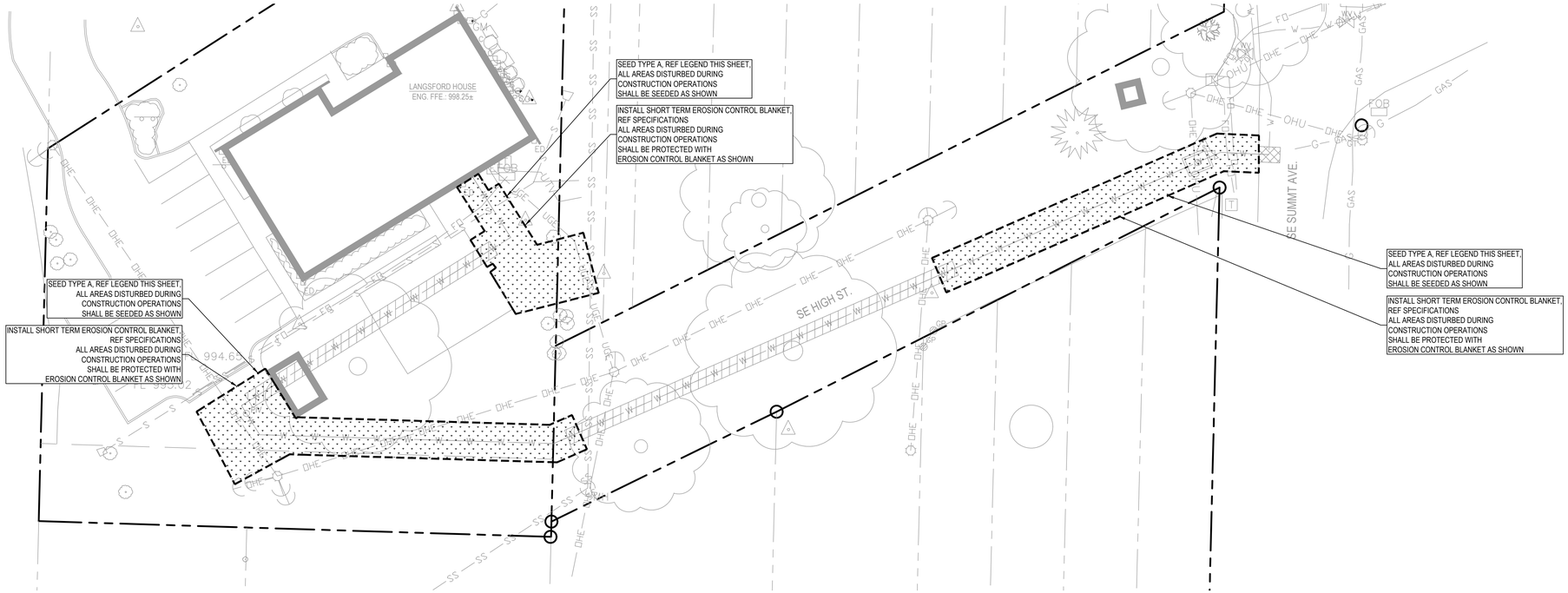
DRAWN BY: JS
CHECKED BY: TG
DESIGNED BY: TG

SHEET TITLE:
SITE FIRE SERVICE LINE PLAN

SHEET NUMBER:

C-101

BID DOCUMENTS
2/2/23



SITE RESTORATION PLAN

SCALE: 1"=20'-0"

SEED TYPE A

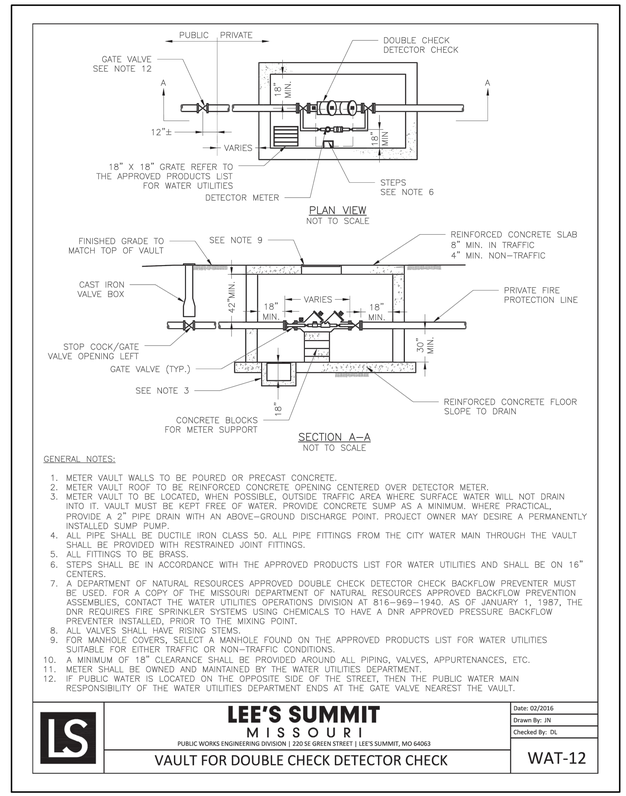
SEED TYPE A:

MATCH EXISTING, BLEND (AS INDICATED BELOW) OF THE TOP PERFORMERS OF THE FOLLOWING SPECIES

GRASSES	% OF MIX
FESCUE	50%
BLUEGRASS	50%

SEEDING RATE: PER MANUFACTURER'S RECOMMEDATIONS

- SEED TYPE A SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION



GENERAL NOTES:

1. METER VAULT WALLS TO BE POURED OR PRECAST CONCRETE.
2. METER VAULT ROOF TO BE REINFORCED CONCRETE OPENING CENTERED OVER DETECTOR METER.
3. METER VAULT TO BE LOCATED, WHEN POSSIBLE, OUTSIDE TRAFFIC AREA WHERE SURFACE WATER WILL NOT DRAIN INTO IT. VAULT MUST BE KEPT FREE OF WATER. PROVIDE CONCRETE SUMP AS A MINIMUM. WHERE PRACTICAL, PROVIDE A 2" PIPE DRAIN WITH AN ABOVE-GROUND DISCHARGE POINT. PROJECT OWNER MAY DESIRE A PERMANENTLY INSTALLED SUMP PUMP.
4. ALL PIPE SHALL BE DUCTILE IRON CLASS 50. ALL PIPE FITTINGS FROM THE CITY WATER MAIN THROUGH THE VAULT SHALL BE PROVIDED WITH RESTRAINED JOINT FITTINGS.
5. ALL FITTINGS TO BE BRASS.
6. STEPS SHALL BE IN ACCORDANCE WITH THE APPROVED PRODUCTS LIST FOR WATER UTILITIES AND SHALL BE ON 16" CENTERS.
7. A DEPARTMENT OF NATURAL RESOURCES APPROVED DOUBLE CHECK DETECTOR CHECK BACKFLOW PREVENTER MUST BE USED. FOR A COPY OF THE MISSOURI DEPARTMENT OF NATURAL RESOURCES APPROVED BACKFLOW PREVENTION ASSEMBLIES, CONTACT THE WATER UTILITIES OPERATIONS DIVISION AT 816-969-1940. AS OF JANUARY 1, 1987, THE DNR REQUIRES FIRE SPRINKLER SYSTEMS USING CHEMICALS TO HAVE A DNR APPROVED PRESSURE BACKFLOW PREVENTER INSTALLED, PRIOR TO THE MIXING POINT.
8. ALL VALVES SHALL HAVE RISING STEMS.
9. FOR MANHOLE COVERS, SELECT A MANHOLE FOUND ON THE APPROVED PRODUCTS LIST FOR WATER UTILITIES SUITABLE FOR EITHER TRAFFIC OR NON-TRAFFIC CONDITIONS.
10. A MINIMUM OF 18" CLEARANCE SHALL BE PROVIDED AROUND ALL PIPING, VALVES, APPURTENANCES, ETC.
11. METER SHALL BE OWNED AND MAINTAINED BY THE WATER UTILITIES DEPARTMENT.
12. IF PUBLIC WATER IS LOCATED ON THE OPPOSITE SIDE OF THE STREET, THEN THE PUBLIC WATER MAIN RESPONSIBILITY OF THE WATER UTILITIES DEPARTMENT ENDS AT THE GATE VALVE NEAREST THE VAULT.

LEE'S SUMMIT MISSOURI PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063	Date: 02/2016 Drawn By: JN Checked By: DL
VAULT FOR DOUBLE CHECK DETECTOR CHECK	WAT-12

1 **VAULT**

NOT TO SCALE

STATE OF MISSOURI
MICHAEL L. PARSON, GOVERNOR

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DEPARTMENT OF SOCIAL SERVICES

INSTALL FIRE ALARM & SUPPRESSION SYSTEMS

LANGSFORD HOUSE YOUTH CENTER

525 SE SECOND LEE'S SUMMIT, MO 64063

PROJECT # H2203-01

SITE #: 7717

ASSET #: 8877717001

REVISION: _____
DATE: _____
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DATE: _____

ISSUE DATE: 2/2/23

DRAWN BY: JS
CHECKED BY: TG
DESIGNED BY: TG

SHEET TITLE:
SITE RESTORATION PLAN & DETAILS

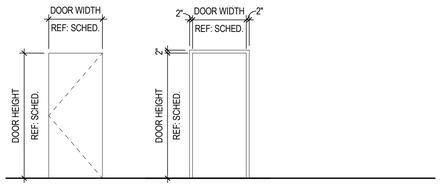
SHEET NUMBER:

C-102

BID DOCUMENTS
2/2/23

DOOR & FRAME TYPE GENERAL NOTES

1. ALL DIMENSIONS ARE NOMINAL. ACTUAL DIMENSIONS TO BE PROVIDED BY SUPPLIER W/ ADJUSTMENTS MADE FOR INSTALLATION TOLERANCES REQUIRED. VERIFY ALL EXISTING OPENINGS PRIOR TO ORDER OF ALL NEW DOORS, DOOR FRAMES AND WINDOW FRAMES.
2. SEE FLOOR PLANS FOR DIRECTION OF DOOR SWINGS.
3. REFER TO WALL TYPE THICKNESS FOR THROAT DEPTHS OF HOLLOW METAL DOOR AND WINDOW FRAMES INSTALLED IN STEEL STUD WALLS W/ GYPSUM.

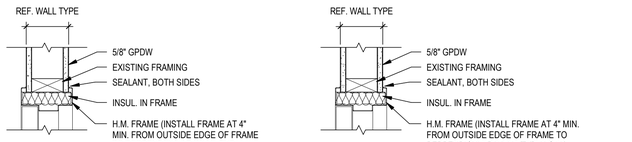


HOLLOW METAL DOOR AND FRAME TYPES

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

DOOR SCHEDULE

DOOR NO.	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME FINISH	FRAME HEAD	FRAME JAMB	FIRE RATING	HARDWARE	REMARKS
125	3' - 0"	7' - 0"	HMD-1	PT	HMF-1	PT	5/A1.11	5/A1.11	20	03	
126	3' - 0"	7' - 0"	HMD-1	PT	HMF-1	PT	5/A1.11	5/A1.11	20	02	
130	3' - 0"	7' - 0"	HMD-1	PT	HMF-1	PT	5/A1.11	5/A1.11	20	01	



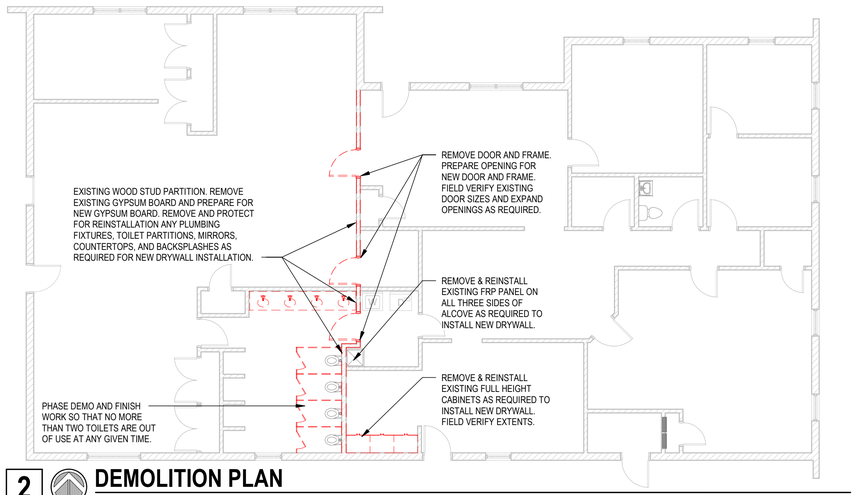
5 TYP. DOOR DETAILS

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

0 3" 6" 1'

GENERAL DEMOLITION NOTES

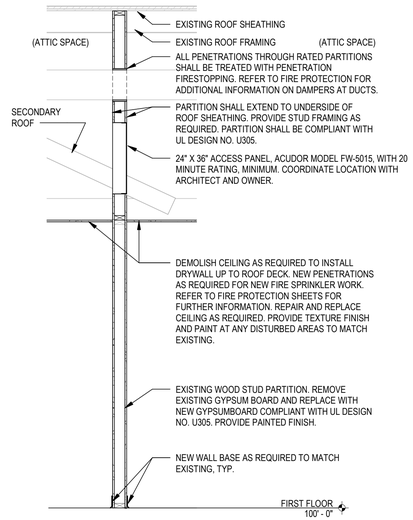
1. PROTECT ITEMS NOT BEING REMOVED FROM DAMAGE DURING CONSTRUCTION.
2. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO BIDDING TO DETERMINE THE TOTAL QUANTITIES AND SCOPE OF WORK THAT IS TO OCCUR AND COORDINATE ANY DISCREPANCIES WITH THE ARCHITECT.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE INSTALLATION OF NEW WORK WITHIN EXISTING CONDITIONS.
4. REMOVE ALL SURFACE MOUNTED OBJECTS IN AREA OF WORK THAT ARE ABANDONED AND NOT INTENDED FOR REUSE. PREPARE SURFACE FOR NEW FINISH.
5. COORDINATE ALL DEMOLITION WORK BETWEEN TRADES.
6. CONTRACTOR SHALL NOTIFY THE ARCHITECT IF DEMOLITION WORK APPEARS TO AFFECT THE STRUCTURAL INTEGRITY OF THE EXISTING BUILDING BEFORE PROCEEDING WITH DEMOLTION ACTIVITIES.
7. REFER TO REFLECTED CEILING PLANS, MECHANICAL SHEETS, & ELECTRICAL SHEETS FOR ADDITIONAL DEMOLITION INFORMATION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING MATERIALS TO REMAIN RESULTING FROM WORK UNDER THIS CONTRACT, AND SHALL RESTORE SUCH DAMAGE TO IT'S ORIGINAL CONDITION.
9. BEFORE DEMOLITION BEGINS, CONTRACTOR SHALL CONFER WITH THE OWNER AND/OR BUILDING USERS TO SCHEDULE DISRUPTION OF DAILY ACTIVITIES.
10. ALL PRODUCTS AND EQUIPMENT SHALL BE KEPT CLEAN AND SAFE. DISPOSE OF DEBRIS DAILY AND CLEAN AREAS OF WORK UPON COMPLETION.
11. CONSTRUCTION AREA SHALL BE KEPT CLEAN AND SAFE. DISPOSE OF DEBRIS DAILY AND CLEAN AREAS OF WORK UPON COMPLETION.



2 DEMOLITION PLAN

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

0 4' 8' 16'

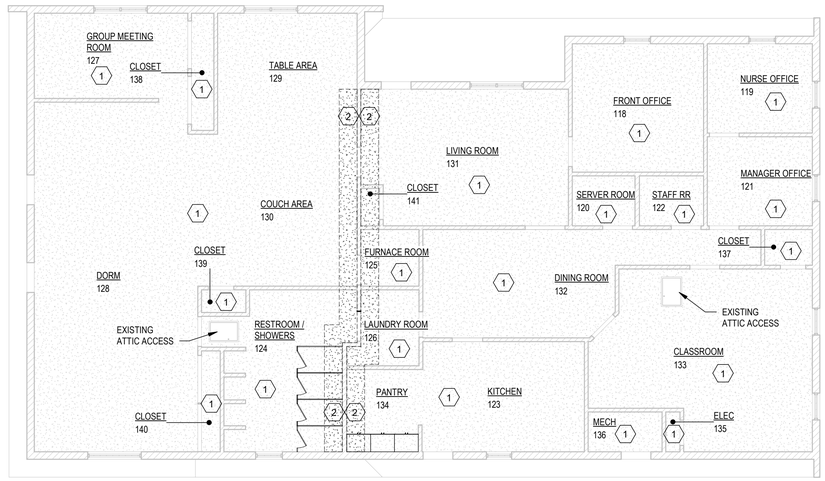


NOTE: REFER TO SHEET G0.10 FOR EXTENTS OF SMOKE BARRIER AND UL DESIGN NO. U305

6 SECTION @ SMOKE BARRIER

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

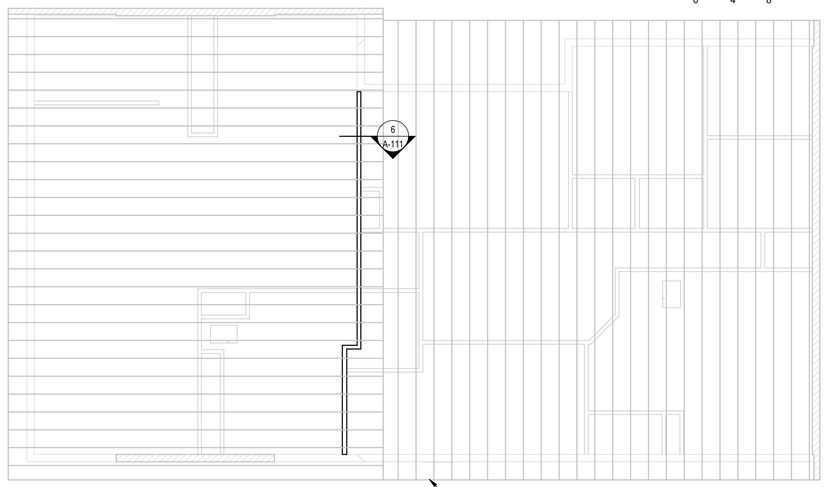
0 1' 2' 4'



4 REFLECTED CEILING PLAN

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

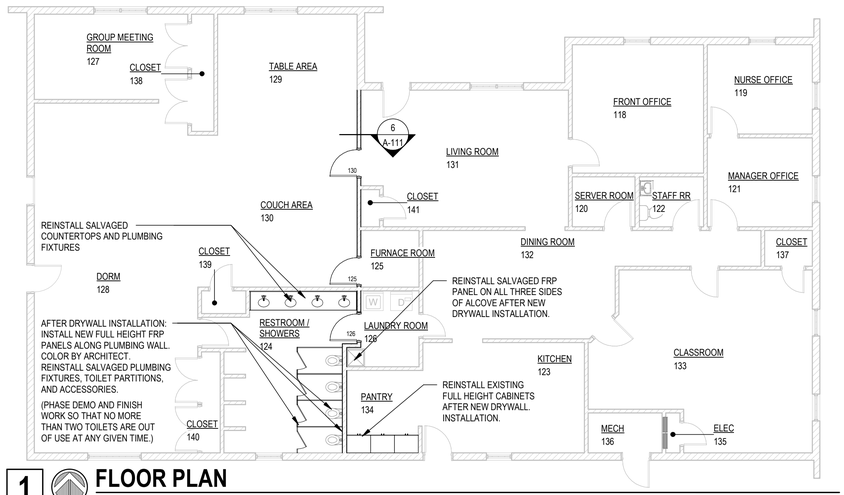
0 4' 8' 16'



3 ATTIC PLAN

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

0 4' 8' 16'



1 FLOOR PLAN

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

0 4' 8' 16'

RCP GENERAL NOTES:

1. NEW CEILINGS IN EXISTING BUILDING SHALL BE INSTALLED AT EXISTING HEIGHT, FIELD VERIFY PRIOR TO DEMOLITION.
2. GPDW BULKHEADS SHALL BE FRAMED WITH 25 GAUGE 3 5/8" STEEL STUDS @ 16" O.C. AND 5/8" TYPE 'X' GPDW TO 6" ABOVE FINISH CEILING. BRACE AS REQUIRED.
3. LIGHTING FIXTURES AND MECHANICAL DIFFUSERS / GRILLES ARE SHOWN FOR REFERENCE ONLY, SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR EXACT LOCATIONS
4. ELEVATION TAGS ARE IN REFERENCE TO ARCHITECTURAL ELEVATIONS
5. WHERE CEILINGS ARE EXPOSED TO STRUCTURE ABOVE, PAINT ALL UNFINISHED MATERIALS OVERHEAD INCLUDING, BUT NOT LIMITED TO ROOF DECKING, DUCTS, PIPES, CONDUITS & JUNCTION BOXES; SEE FINISH SHEETS FOR PAINT.
6. PROVIDE ACCESS PANELS AS REQUIRED IN HARD LID CEILINGS. COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTORS.

REFLECTED CLG LEGEND

	5/8" GPDW CEILING SYSTEM

RCP ABBREVIATIONS

GPDW - GYPSUM DRY WALL

KEY NOTES (CEILING PLANS ONLY)

1	EXISTING CEILING AND FRAMING TO REMAIN. PROVIDE NEW PENETRATIONS AS REQUIRED FOR NEW FIRE SPRINKLER WORK. REFER TO FIRE PROTECTION SHEETS FOR FURTHER INFORMATION. REPAIR AND REPLACE CEILING AS REQUIRED. PROVIDE TEXTURE FINISH AND PAINT AT ANY DISTURBED AREAS TO MATCH EXISTING.
2	DEMOLISH CEILING AS REQUIRED TO INSTALL DRYWALL UP TO ROOF DECK. REPAIR AND REPLACE CEILING AS REQUIRED. PROVIDE TEXTURE FINISH AND PAINT AT ANY DISTURBED AREAS TO MATCH EXISTING.

GENERAL PLAN NOTES

1. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS SHOWN ON THE PLANS PRIOR TO COMMENCEMENT OF THE WORK. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE INSTALLATION OF NEW WORK WITHIN THESE EXISTING CONDITIONS. ANY DEVIATIONS IN EXISTING CONDITIONS OR DIMENSIONS INDICATED SHALL BE COORDINATED WITH THE ARCHITECT AND OWNER.
2. ALL WALL / GENERAL PLAN DIMENSIONS ARE TO FACE OF MASONRY, FACE OF CONCRETE, AND TO FACE OF GYP. BOARD, TYP.
3. CONSTRUCTION OF WALLS ARE DESIGNATED STARTING ON TAG SIDE OF WALL.
4. ALL INTERIOR WALL FRAMING NOTED IN WALL TYPE SCHEDULE EXTENDS TO STRUCTURAL DECKING, BRACE AS REQUIRED. PROVIDE DEEP LEG SLP TRACK AT TOP OF ALL INTERIOR WALLS / STUDS EXTENDING TO STRUCTURE TO ALLOW FOR DEFLECTION OF STRUCTURE.
5. INTERIOR DOOR FRAMES SHALL BE INSTALLED WITH THE HINGE SIDE OF DOOR FRAME 4" FROM ADJACENT WALL, UNLESS OTHERWISE DIMENSIONED.
6. ALL STEEL STUDS ARE MIN. 25 GA. UNLESS NOTED OTHERWISE. 20 GA STEEL STUDS REQUIRED AT ALL CEMENTITIOUS BACKER BOARD AND ABUSE RESISTANT GYPSUM BOARD AS SPECIFIED.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR PRICING AND INSTALLATION OF APPROPRIATE FRAMING NEEDED FOR WALLS HEIGHT. REFER TO INTERIOR STEEL STUD FRAMING GAUGE TABLE (1)' ON SHEET A0.00 FOR FRAMING GAGES AND STUD SIZING REQUIREMENTS.
8. REFER TO CODE COMPLIANCE PLANS FOR LOCATION OF FIRE RATED WALLS AND SMOKE SEPARATION WALL LOCATIONS AND REQUIREMENTS.
9. ALL OPENINGS IN RATED ASSEMBLIES SHALL BE SEALED WITH FIRE / SMOKE RATED MATERIALS AND ASSEMBLIES. INSTALL RATED JOINT SEALANTS AT BOTH FACES OF PARTITIONS, AT PERIMETERS, AND THROUGH FIRE RATED ASSEMBLIES. REFERENCE CODE COMPLIANCE PLANS FOR LOCATION OF RATED ASSEMBLIES.
10. GENERAL CONTRACTOR SHALL COORDINATE REPAINTING OF WALLS BETWEEN SUBCONTRACTORS AFTER EXISTING FIXTURES ARE SCHEDULED TO BE REMOVED AND PRIOR TO FIXTURES BEING REINSTALLED. REFER TO ELECTRICAL & MECHANICAL PLANS.

STATE OF MISSOURI
MICHAEL L. PARSON, GOVERNOR

STATE OF MISSOURI
JEAN STOVERINK
NUMBER A-2017006811
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2/2/23

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OFFICE OF ADMINISTRATION
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DEPARTMENT OF SOCIAL SERVICES

INSTALL FIRE ALARM & SUPPRESSION SYSTEMS

LANGSFORD HOUSE YOUTH CENTER

525 SE SECOND
LEE'S SUMMIT, MO 64063

PROJECT #: H2203-01

SITE #: 7717

ASSET #: 8877717001

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

ISSUE DATE: 2/2/23

DRAWN BY: AO
CHECKED BY: RW
DESIGNED BY: AO

SHEET TITLE:
Floor Plans, Demolition Plan, Reflected Ceiling Plan, Doors, and Details

SHEET NUMBER:
A-111

BID DOCUMENTS
2/2/23

FIRE SUPPRESSION ABBREVIATIONS AND SYMBOLS LEGEND

ABBREVIATIONS

A	COMPRESSED AIR	OA	OUTSIDE AIR
AD	AREA DRAIN	OAT	OUTSIDE AIR TEMPERATURE
AFF	ABOVE FINISHED FLOOR	OBD	MANUAL OPPOSED BLADE BALANCING DAMPER
AI	ANALOG INPUT	PC	PLUMBING CONTRACTOR
AO	ANALOG OUTPUT	PIV	POST INDICATOR VALVE
BFP	BACK FLOW PREVENTER	PVC	POLY VINYL CHLORIDE
BHP	BRAKE HORSEPOWER	RA	RETURN AIR
BTU	BRITISH THERMAL UNIT	PW	PURE WATER
CD	CONDENSATE DRAIN	RCP	REINFORCED CONCRETE PIPE
CI	CAST IRON	REL A	RELIEF AIR
CO	CLEAN OUT	RG	REFRIGERANT HOT GAS
CW	DOMESTIC COLD WATER	RL	REFRIGERANT LIQUID
DB	DRY BULB	RS	REFRIGERANT SUCTION
DCI	DUCTILE CAST IRON	S	STORM
DI	DIGITAL INPUT	SA	SUPPLY AIR
DO	DIGITAL OUTPUT	SAN	SANITARY WASTE PIPING (OUTSIDE BUILDING)
DW	DOMESTIC WATER	SD	SMOKE DAMPER
DWV	DRAINAGE/WASTE/VENT	SP	STATIC PRESSURE
EC	ELECTRICAL CONTRACTOR	SP	SUMP PUMP
EWT	ENTERING WATER TEMPERATURE	SS	SUB SOIL DRAIN
F	FIRE SUPPRESSION PIPING	TAB	TEST, ADJUST AND BALANCE
FCO	FLOOR CLEAN OUT	TC	TEMPERATURE CONTROL CONTRACTOR
FD	FIRE DAMPER	TD	TRANSFER DUCT
FD	FLOOR DRAIN	TOD	TOP OF DUCT
FH	FIRE HYDRANT	T/P	TEMPERATURE/PRESSURE
FL	FLOW LINE	TSP	TOTAL STATIC PRESSURE
FSD	FIRE/SMOKE DAMPER	TW	DOMESTIC TEMPERED WATER
G	GAS	TWC	DOMESTIC TEMPERED WATER CIRCULATING
GC	GENERAL CONTRACTOR	V	VENT
GCO	GRADE CLEANOUT	VTR	VENT THROUGH ROOF
GPM	GALLONS PER MINUTE	VUF	VENT UNDER FLOOR
HP	HORSEPOWER	W	SANITARY WASTE PIPING (INSIDE BUILDING)
HR	HOUR	W	WATER SERVICE PIPING (OUTSIDE BUILDING)
HW	DOMESTIC HOT WATER	WB	WET BULB
HW 180	DOMESTIC HOT WATER, 180 DEG. F. SERVICE	WCO	WALL CLEAN OUT
HWC	DOMESTIC HOT WATER CIRCULATION	WPD	WATER PRESSURE DROP
HWC 180	DOMESTIC HOT WATER CIRCULATION 180 DEG. F. SERVICE	X^E	RELOCATED EQUIPMENT, DEVICE, ETC.
IE	INVERT ELEVATION	XFR	TRANSFER
KW	KILOWATT	XFMR	TRANSFORMER
LIT	LAY IN TILE	X^N	NEW EQUIPMENT, DEVICE, ETC.
LWT	LEAVING WATER TEMPERATURE	X^R	EXISTING CONDITION TO BE REMOVED OR RELOCATED
MBH	1000 BTU/HR	XXX-1	EQUIPMENT MARK - SEE MECHANICAL OR PLUMBING EQUIPMENT SCHEDULES (E.G., AHU-1 - AIR HANDLING UNIT)
MC	MECHANICAL CONTRACTOR		
MCC	MOTOR CONTROL CENTER	VB	VARIABLE AIR VOLUME BOX
MD	MOTORIZED DAMPER	VBR	VARIABLE AIR VOLUME BOX WITH REHEAT
MH	MAN HOLE	VBF	FAN POWERED VARIABLE AIR VOLUME BOX
NC	NOISE CRITERIA	VBRF	FAN POWERED VARIABLE AIR VOLUME BOX WITH REHEAT
NIC	NOT IN CONTRACT		

FIRE SUPPRESSION

	SPRINKLER BRANCH WITH HEADS
	SIAMESE CONNECTION
FHC	FIRE HOSE CABINET
F.H.	FIRE HYDRANT
P.I.V.	POST INDICATOR VALVE
	O.S. & Y. VALVE
FS	FLOW SWITCH
F	FIRE PROTECTION PIPING

GENERAL

	CONNECTION - NEW TO EXISTING
	PIPE OR ROUND DUCT RISER
	PIPE OR ROUND DUCT DROP
	DIRECTION OF FLOW
	DOWNWARD PIPE OR DUCT PITCH
	SECTION IDENTIFICATION: SECTION NUMBER / SHEET NUMBER
	DETAIL IDENTIFICATION: SECTION NUMBER / SHEET NUMBER
M	ELECTRICAL MOTOR
100'-0"	ARCHITECTURAL ELEVATION
100.00	ENGINEER ELEVATION
	ELECTRICAL PANEL
VFD-1	VARIABLE FREQUENCY DRIVE PANEL - EQUIP. MARK
(E)	EXISTING PIPING, DUCTWORK, EQUIPMENT, ETC.

GENERAL NOTES:

1. GENERAL

1.1 THESE NOTES SHALL APPLY TO ALL FIRE SUPPRESSION PLANS.

1.2 NOTE THAT THE PLANS ARE TO A GREAT EXTENT SCHEMATIC IN NATURE AND THAT THE INFORMATION PRESENTED IS EXACT AS COULD BE SECURED. THE CONTRACTOR SHALL OBTAIN EXACT LOCATIONS, MEASUREMENTS, LEVELS, ETC., AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO THE ACTUAL CONDITIONS AT THE PROJECT SITE.

1.3 THE CONTRACTOR IS RESPONSIBLE FOR PROPER SUPPORT OF ALL EQUIPMENT, PIPING, DUCTWORK, ETC. COORDINATE INSTALLATION OF ALL EQUIPMENT, PIPING, DUCTWORK, ETC. WITH OTHER BUILDING TRADES.

1.4 SEE SPECIFICATION SECTIONS 21 05 00 FOR OTHER GENERAL REQUIREMENTS.

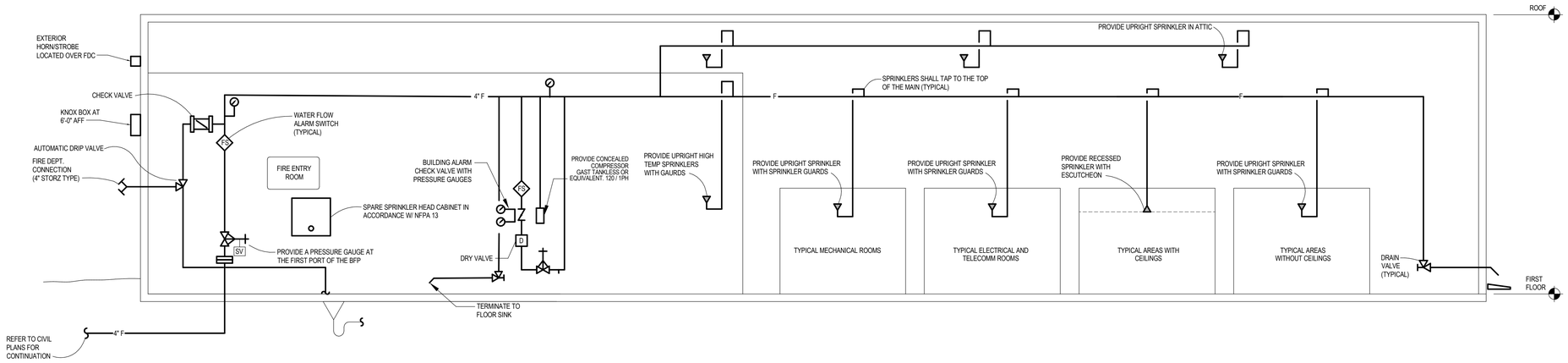
1.5 THE LOCATION AND SIZE OF ALL ITEMS SHOWN AS EXISTING WERE OBTAINED FROM PREVIOUS DRAWINGS AND SITE VISITS, AND ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR. ACCURACY OF THE INFORMATION SHOWN IS NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING THE PROJECT BID. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CHANGES WHICH OCCUR AFTER BIDS ARE SUBMITTED WHICH ARE A RESULT OF EXISTING CONDITIONS. SITE VISITS PRIOR TO SUBMISSION OF BIDS MUST BE FULLY COORDINATED WITH THE OWNER.

1.6 ALL EXPOSED MECHANICAL ITEMS WILL BE FIELD-PAINTED. ALL ITEMS SHALL BE PROPERLY ORDERED AND PREPARED TO ACCEPT PAINT. COORDINATE EXACT REQUIREMENTS WITH PAINTING CONTRACTOR. SEE ARCHITECTURAL AND FINISH DRAWINGS AND SPECIFICATIONS FOR AREAS AND ITEMS THAT WILL BE PAINTED.

1.7 ALL ACCESS PANELS LOCATIONS SHALL BE COORDINATED WITH THE OWNER PRIOR TO FINAL INSTALLATION. ENSURE FINAL INSTALLATION LOCATION PROVIDES REQUIRED ACCESS TO ALL MECHANICAL EQUIPMENT AND ASSOCIATED COMPONENTS.

2. SITE UTILITIES

2.1 ALL CONNECTIONS TO UTILITY MAINS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE VIA WRITTEN NOTICE GIVEN A MINIMUM OF SEVEN DAYS PRIOR TO WORK.



1 FIRE SUPPRESSION PIPING SCHEMATIC

NO SCALE

GENERAL NOTES:

1. PROVIDE TAMPER-PROOF INSTITUTIONAL SPRINKLER HEADS, TYCO RAVEN QUICK RESPONSE TYPE OR EQUAL, FOR ALL OCCUPIED AREAS, UNLESS NOTED BY PLANS OTHERWISE.
2. BUILDING IS TO REMAIN OCCUPIED. PIPING IS PLANNED TO BE ROUTED IN THE ATTIC SPACE AS MUCH AS POSSIBLE TO MINIMIZE DISRUPTION TO THE SPACE.

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DEPARTMENT OF SOCIAL SERVICES

INSTALL FIRE ALARM & SUPPRESSION SYSTEMS

LANGSFORD HOUSE YOUTH CENTER

525 SE SECOND
LEE'S SUMMIT, MO 64063

PROJECT #: H2203-01

SITE #: 7717
ASSET #: 877717001

REVISION:
DATE:
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ISSUE DATE: 2/2/23

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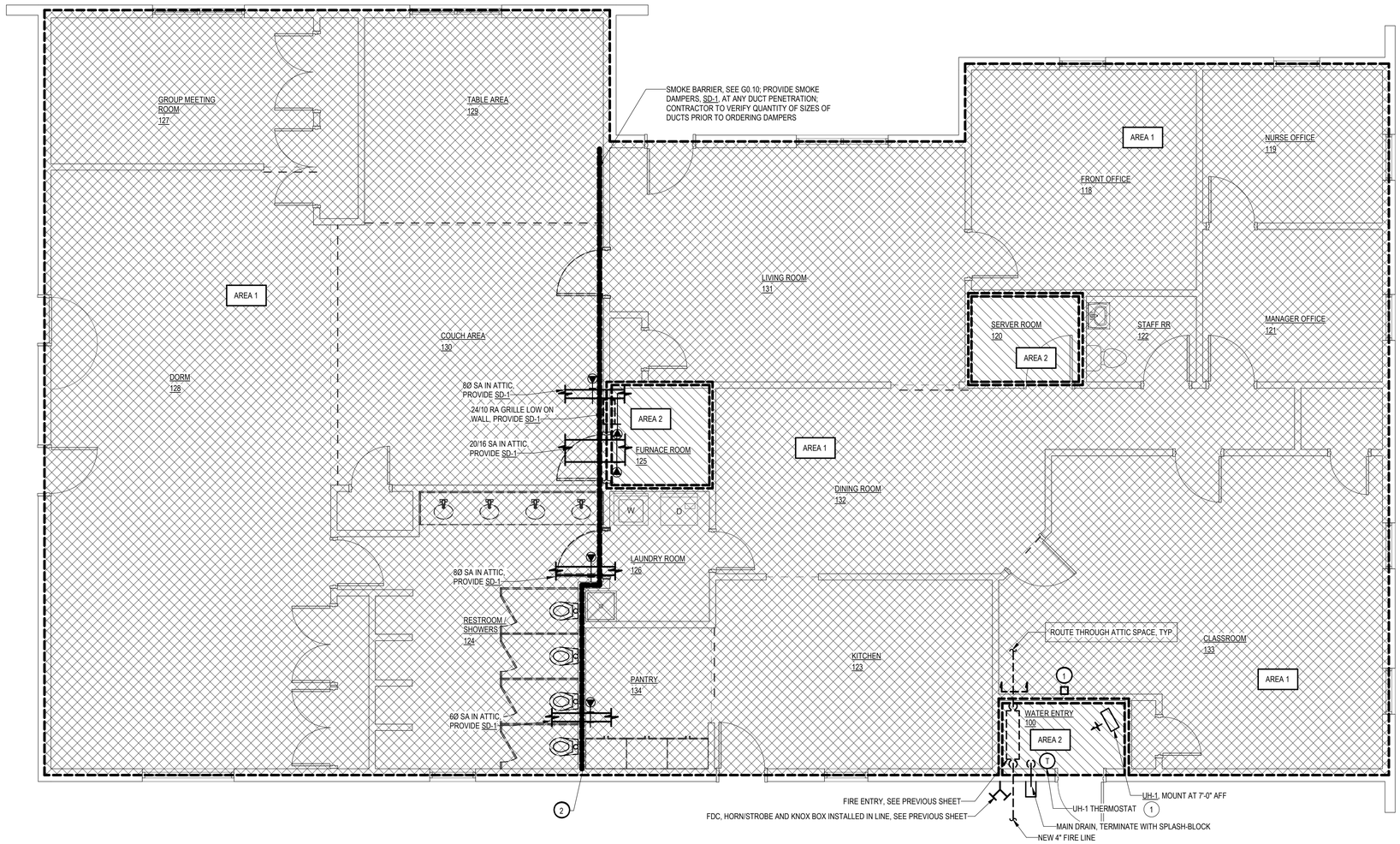
CHECKED BY: JB
DESIGNED BY: JM

SHEET TITLE:
Fire Suppression Abbreviations, Symbols, Notes, and Schematics

SHEET NUMBER:

FS-000

BID DOCUMENTS
2/2/23



FIRST FLOOR FIRE SUPPRESSION PLAN

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

PLAN NOTES:

1. PROVIDE ELECTRIC UNIT HEATER IN WATER ENTRY ROOM. PROVIDE DRY CONTACT SIGNAL FROM THERMOSTAT TO TROUBLE ALARM AUDIO/VISUAL DEVICE IN CLASSROOM AS SHOWN. ALARM SHALL SIGNAL IF TEMPERATURE IS 5 DEGREES BELOW SETPOINT FOR 1 HOUR (ADJ). ALARM DEVICE AND RELAY TO BE PROVIDED BY UNIT HEATER MANUFACTURER.
2. PROVIDE SMOKE DAMPER ON ALL EXISTING DUCT PENETRATIONS IN ATTIC AND IN SPACE ALONG BARRIER AS SHOWN. QUANTITIES AND SIZES OF DUCTS/OPENINGS SHALL BE VERIFIED BY CONTRACTOR PRIOR TO ORDERING DAMPERS. DAMPER TO BE INSTALLED AT THE BARRIER, MAY BE SHOWN OFFSET FOR CLARITY.

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BACKFLOW PREVENTER SCHEDULE

MARK	SERVES	TYPE	OPERATING CONDITIONS			SIZE	INLET VALVE	OUTLET VALVE	STANDARD APPROVAL	MFR. OR EQUIVALENT	MODEL OR EQUIVALENT	REMARKS
			PEAK FLOW GPM	WPD	PRESSSURE							
BFP-1	FIRE SPRINKLER SYSTEM	DOUBLE CHECK FM APPROVED	SEE NOTE 1	SEE NOTE 1	175 PSIG	4"	OS & Y	OS & Y	ASSE STD 1013, AWWA C511-92, UL AND FM	WILKINS	MODEL 350A REDUCED PRESSURE ZONE ASSEMBLY	1, 2

REMARKS:
1. FLOW RATE AND PRESSURE DROP TO BE BASED ON THE FIRE SPRINKLER HYDRAULIC CALCULATIONS FOR THE FIRE PROTECTION SYSTEM, COORDINATE WITH THE FIRE SPRINKLER CONTRACTOR.
2. BACKFLOW PREVENTER TO HAVE NSF APPROVED EPOXY COATED DUCTILE IRON BODY, W/ FULL PORT GATE VALVES, EPDM SEAT RING / DISC, AND CHECK VALVE, STAINLESS STEEL STEM

DAMPER SCHEDULE

MARK:	FUNCTION:	OPERATING CONDITIONS:	SIZE:	AIRFLOW / VELOCITY:	BLADE STYLE:	FRAME CONSTRUCTION:	BLADE CONSTRUCTION	LEAKAGE @ 1" WG PD:	BLADE SEALS:	BEARINGS:	ACTUATOR:	MANUF. OR EQUIVALENT:	MODEL:	REMARKS:
SD-1	SMOKE DAMPER, 1.5-HOUR RATED	SEE PLANS	SEE PLANS	SEE PLANS	PARALLEL	5" x 16-GA GALVANIZED HAT-SHAPED CHANNEL	6" WIDE, 14-GA GALVANIZED STEEL, AIRFOIL SHAPE	4 CFM / S.F. (CLASS 1)	SILICONE	SS	1	RUSKIN	SD-60	1,2,3,4,5,6

ACTUATOR
1. 120-VOLT, 2-POSITION, 350 DEG. F UL555S RATED, FACTORY-PROVIDED, NORMALLY CLOSED. ACTUATOR BY BELIMO, OR EQUIVALENT. PROVIDE WITH HEAT-ACTUATED ELECTRIC RESETTABLE "FUSE" LINK AND SWITCH PACKAGE WITH 165 DEG. F ACTUATION, RUSKIN EFL/SP100 OR EQUIVALENT, WITH AUTOMATIC RESET AFTER TEST, SMOKE DETECTION, OR POWER FAILURE. AFTER EXPOSURE TO ELEVATED TEMPERATURE, THE DAMPER SHALL BE RESET MANUALLY. PROVIDE REOPENABLE FIRESTAT (RUSKIN TS150) AND CONTROL PANEL (RUSKIN MCP1) FOR DAMPER TESTING. INSTALL MCP IN ACCESSIBLE LOCATION ABOVE CEILING.

REMARKS:
1. MATCH DAMPER TO DUCT SIZE.
2. FIELD VERIFY DUCT SIZE PRIOR TO ORDERING AS ACTUAL DUCT SIZE MAY VARY DUE TO FABRICATION.
3. SMOKE DETECTOR PROVIDED BY FIRE ALARM CONTRACTOR. MECHANICAL CONTRACTOR SHALL COORDINATE INSTALLATION OF DETECTOR WITH FIRE ALARM CONTRACTOR. COORDINATE AIRFLOW VELOCITY TO ENSURE PROPER DETECTOR IS PROVIDED.
4. DAMPER TO MEET THE REQUIREMENTS OF UL555S.
5. LABEL ALL FIRE DAMPERS, SMOKE DAMPERS, AND COMBINATION FIRE/SMOKE DAMPERS PER CODE REQUIREMENTS.
6. PROVIDE FACTORY SLEEVE (COORDINATE WITH SPECIFIC WALL CONSTRUCTION). PROVIDE UL-CLASSIFIED AND FM-APPROVED "OUT OF THE WALL OR FLOOR" THROUGH PENETRATION INSULATED SLEEVE AND ACCESS DOOR IF NECESSARY TO SHIFT DAMPER FROM RATED ASSEMBLY FOR ACCESSIBILITY/MAINTENANCE REASONS.

FIRE SPRINKLER REQUIREMENTS

AREA:	AREA(S) SERVED:	SPRINKLER ZONE:	SYSTEM TYPE:	NFPA SPRINKLER HAZARD CLASS.:	APPROX. AREA (SQFT):	DENSITY (GPM / SQFT):	NOMINAL SPRINKLER TEMPERATURE RATING:	SPRINKLER TYPE:	REMARKS:
1	FIRST FLOOR AND ATTIC GENERAL	ZONE 1	DRY PIPE	LIGHT HAZARD	4,000 (FIRST) 4,150 (ATTIC)	SEE NFPA 13 LIGHT HAZARD TABLE	135 DEG. F (175 DEG IN ATTIC)	QUICK-RESPONSE TAMPER-PROOF	1, 4
2	FIRST FLOOR MECH/ELEC ROOMS	ZONE 1	DRY PIPE	ORDINARY HAZARD	150	SEE NFPA 13 ORDINARY HAZARD GROUP 1 TABLE	175 DEG. F (SEE REMARK 3)	QUICK-RESPONSE	2, 3, 4

REMARKS:

1. WHERE LAY-IN CEILING IS INSTALLED, SPRINKLER HEADS ARE TO BE LOCATED IN THE CENTER OF THE LAY-IN CEILING TILES, AND SHALL BE CONCEALED TYPE WITH FINISH TO MATCH CEILING.
2. PROVIDE SPRINKLER HEAD GUARDS IN MECHANICAL, ELECTRICAL, TELECOMM, AND ELEVATOR EQUIPMENT ROOMS. REFER TO MECHANICAL SHEETS FOR DUCT AND PIPING OBSTRUCTIONS.
3. PROVIDE 175 DEG. F SPRINKLERS IN MECHANICAL ROOMS, ELECTRICAL ROOMS, AND EQUIPMENT SERVICE AREAS.
4. REFERENCE 2016 NFPA 13 SECTION 5.1 FOR HAZARD CLASSIFICATION OF OCCUPANCIES.

ELECTRIC UNIT HEATER SCHEDULE

MARK	SERVES	FAN AIRFLOW (CFM)	MOTOR RPM	HEATING CAPACITY (KW)	ELECTRICAL REQUIREMENTS VOLTS/HZ/PH	MANUFACTURER AND MODEL	CONFIGURATION	REMARKS
UH-1	WATER ENTRY CLOSET	400	1550	3.3	230/60/1	TRANE MODEL UHEC-03 OR EQUIVALENT	PROPELLER UNIT HEATER WITH FAN GUARD	1, 2, 3, 4

SCHEDULE NOTES AND REMARKS:

1. PROVIDE ELECTRIC THERMOSTAT WITH MANUAL SETPOINT ADJUSTMENT
2. PROVIDE DISCONNECT SWITCH
3. PROVIDE FIN LOUVER
4. PROVIDE DISPOSABLE FILTER

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ELECTRICAL ABBREVIATIONS AND SYMBOLS LEGEND

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISH GRADE
C	SUBSCRIPT 'C' ADJACENT TO ANY DEVICE INDICATES CEILING.
CATV	CABLE TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
DAS	DISTRIBUTED ANTENNA SYSTEM
(E)	SUBSCRIPT 'E' ADJACENT TO ANY DEVICE INDICATES EXISTING.
EPO	EMERGENCY POWER OFF
(ER)	SUBSCRIPT 'ER' ADJACENT TO ANY DEVICE INDICATES EXISTING TO BE RELOCATED.
EWC	ELECTRIC WATER COOLER
F	SUBSCRIPT 'F' ADJACENT TO ANY DEVICE INDICATES FLOOR.
GFI	GROUND FAULT INTERRUPTER
H	SUBSCRIPT 'H' DENOTES HOSPITAL GRADE
HOA	HAND-OFF-AUTO
N.C.	NORMALLY CLOSED
NF	NON-FUSED
NIC	NOT IN CONTRACT
NL	24 HOUR "NIGHT LIGHT"
N.O.	NORMALLY OPEN
OHE	OVERHEAD ELECTRICAL
OHT	OVERHEAD TELEPHONE
PVC	POLYVINYL CHLORIDE
(R)	SUBSCRIPT 'R' ADJACENT TO ANY DEVICE INDICATES THE RELOCATED POSITION OF AN EXISTING DEVICE.
RGS	RIGID GALVANIZED STEEL
(S)	SUBSCRIPT 'S' ADJACENT TO ANY DEVICE INDICATES THE DEVICE IS TO BE SURFACE MOUNTED.
TR	TAMPER RESISTANT
UGE	UNDERGROUND ELECTRICAL
USB	UNIVERSAL SERIAL BUS
HVE	UNDERGROUND MEDIUM OR HIGH VOLTAGE ELECTRICAL
UGT	UNDERGROUND TELEPHONE
WAP	WIRELESS ACCESS POINT
WG	WIRE GUARD
WP	WEATHERPROOF
WPU	WEATHERPROOF IN-USE TYPE
////	CROSS-HATCHING INDICATES REMOVAL

MOTOR CONTROL & MOTOR CONTROL EQUIPMENT

M	MOTOR - HORSEPOWER AS INDICATED ON DRAWINGS
	NON-FUSED DISCONNECT SWITCH, ASSUME 30A/3P UNLESS OTHERWISE NOTED.
	FUSED DISCONNECT SWITCH, FUSE SIZE AS NOTED ON DRAWINGS, ASSUME 30A/3P UNLESS OTHERWISE NOTED.
	COMBINATION FVNR MAGNETIC MOTOR STARTER WITH HOA SELECTOR SWITCH AND NON-FUSED DISCONNECT SWITCH, ASSUME NEMA SIZE 1 STARTER AND 30A/3P SWITCH UNLESS OTHERWISE NOTED.
	COMBINATION FVNR MAGNETIC MOTOR STARTER WITH HOA SELECTOR SWITCH AND FUSED DISCONNECT SWITCH, ASSUME NEMA SIZE 1 STARTER AND 30A/3P SWITCH UNLESS OTHERWISE NOTED.
	MECHANICAL EQUIPMENT STARTER/DISCONNECT PROVIDED BY OTHERS. INSTALLED AND CONNECTED BY THE ELECTRICAL CONTRACTOR. FULLY COORDINATE ALL INSTALLATION AND CONNECTION DETAILS WITH THE MECHANICAL CONTRACTOR.
	PUSH BUTTON
VFD	VARIABLE FREQUENCY DRIVE PROVIDED BY OTHERS, INSTALLED AND CONNECTED BY THE ELECTRICAL CONTRACTOR. FULLY COORDINATE ALL INSTALLATION AND CONNECTION DETAILS WITH THE MECHANICAL CONTRACTOR.

ELECTRICAL DISTRIBUTION

S	SINGLE POLE SWITCH
S_2	TWO POLE SWITCH
S_3	THREE WAY SWITCH
S_D	DIMMER SWITCH
S_{TE}	THERMAL ELEMENT SWITCH
S_O	OCCUPANCY SENSING SWITCH, WATTSTOPPER #DW-100-G
S_T	LINE VOLTAGE DIGITAL TIMER SWITCH, WATTSTOPPER #TS-400
	20A, 125V DOUBLE DUPLEX CONVENIENCE OUTLET (NEMA 5 - 20R)
	20A, 125V DUPLEX CONVENIENCE OUTLET (NEMA 5 - 20R)
	20A, 125V RED DUPLEX CONVENIENCE OUTLET ON EMERGENCY SYSTEM (NEMA 5 - 20R)
C F	20A, 125V DUPLEX CONVENIENCE OUTLET - CEILING AND FLOOR MOUNTED (NEMA 5 - 20R)
	SPECIAL PURPOSE OUTLET, TYPE AS NOTED ON DRAWINGS.
	20A, 125V SAFETY DUPLEX CONVENIENCE OUTLET (NEMA 5- 20R)
	SURFACE MOUNTED RACEWAY. TYPE AND NUMBER OF DEVICES AS INDICATED, REFER TO SPECIFICATION AND DETAIL.
	SURFACE MOUNTED RACEWAY (RED OUTLETS ON STANDBY SYSTEM). TYPE AND NUMBER OF DEVICES AS INDICATED, REFER TO SPECIFICATION AND DETAIL.
	PIGTAIL DENOTES CONNECTION TO EQUIPMENT
J J J C F J	JUNCTION BOX - CEILING, FLOOR, AND WALL MOUNTING. WALL MOUNTED DEVICES SHALL BE FLUSH MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED.
	2 GANG TELECOMMUNICATIONS/DATA OUTLET BOX WITH SINGLE GANG EXTENSION RING FLUSH MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED. ROUTE (1) 1" CONDUIT, CONCEALED, FROM BOX AND STUB ABOVE THE NEAREST ACCESSIBLE CEILING. BUSH CONDUIT ENDS.
	BRANCH CIRCUIT HOMERUN TO PANEL (NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. NUMBER OF TICK MARKS INDICATES NUMBER OF WIRES) (NUMBER 12AWG, MINIMUM, UNLESS OTHERWISE NOTED). IF NO TICK MARKS ARE SHOWN, ASSUME 3- NUMBER 12 AWG IN 3/4" CONDUIT.
	CONDUIT AND WIRE CONCEALED. NUMBER OF TICK MARKS INDICATES NUMBER OF WIRES (NUMBER 12AWG MINIMUM, UNLESS OTHERWISE NOTED) IF NO TICK MARKS ARE SHOWN, ASSUME 3-NUMBER 12 IN 3/4" CONDUIT.
	PARTIAL CIRCUIT
	CONDUIT RISER UP
	CONDUIT RISER DOWN
	INDICATES BUSH AND CAP
	CONDUIT SEAL FITTING FOR HAZARDOUS AREAS
	CONDUIT STUBBED UP 6" AFF AND CAPPED

ELECTRICAL DISTRIBUTION EQUIPMENT

	LIGHTING AND APPLIANCE PANEL
	(LIGHTING) RELAY PANEL
	MOTOR CONTROL CENTER OR SWITCHBOARD
	POWER PANEL (DISTRIBUTION)
T	TRANSFORMER
M	METER
PNL #	PANELBOARD TAG. SEE THE CORRESPONDING PANELBOARD SCHEDULE AND/OR ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.

FIRE ALARM

F	FIRE ALARM MANUAL PULL STATION
F	FIRE ALARM SPEAKER (OR HORN)/STROBE UNIT (FIELD ADJUSTABLE)
F	FIRE ALARM SPEAKER (OR HORN) UNIT (FIELD ADJUSTABLE)
F	FIRE ALARM FLASHING STROBE LIGHT (FIELD ADJUSTABLE)
F	MAGNETIC DOOR HOLD OPEN DEVICE
F X^P	POST SUPERVISORY VALVE CONTACTS
F X^S	SUPERVISORY VALVE CONTACTS
R	FIRE ALARM RELAY
FS	WATER FLOW SWITCH. COORDINATE EXACT LOCATION WITH FIRE PROTECTION SUPPLIER INSTALLER.
TS	TAMPER SWITCH. COORDINATE EXACT LOCATION WITH FIRE PROTECTION SUPPLIER INSTALLER.
	SMOKE DETECTOR
H	HEAT DETECTOR - COMBINATION RATE OF RISE AND FIXED TEMPERATURE
D	DUCT SMOKE DETECTOR
FACP	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM ANNUNCIATOR PANEL
FASP	FIRE ALARM SUPPLY PANEL

PROJECT GENERAL ELECTRICAL NOTES

GENERAL DEMOLITION NOTES:

1. ALL OF THE DEVICES SHOWN ON THE DEMOLITION PLANS ARE EXISTING. THE LOCATIONS OF EXISTING EQUIPMENT AND DEVICES WERE OBTAINED FROM PREVIOUS DRAWINGS AND SITE VISITS. THE LOCATIONS OF EXISTING EQUIPMENT AND DEVICES ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR. ACCURACY OF THE INFORMATION SHOWN IS NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING THE PROJECT BID. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CHANGES WHICH OCCUR AFTER BIDS ARE SUBMITTED WHICH ARE A RESULT OF EXISTING CONDITIONS. SITE VISITS PRIOR TO SUBMISSION OF BIDS MUST BE FULLY COORDINATED WITH THE OWNER.
2. THE CONTRACTOR MUST FIELD VERIFY EXISTING CIRCUITING PRIOR TO COMMENCING ANY WORK. ALL BIDS MUST INCORPORATE THIS REQUIREMENT.
3. DEVICES SHOWN WITH CROSS HATCHING, DASHED AND/OR SO NOTED SHALL BE REMOVED. ALL OTHER DEVICES SHALL BE RELOCATED, SHALL REMAIN, OR SHALL BE ABANDONED AS SHOWN, OR AS FOLLOWS:
   DEVICES SHALL BE COMPLETELY REMOVED FROM WALLS THAT ARE ALSO SHOWN TO BE REMOVED. DEVICES SHOWN TO BE REMOVED ON DRYWALL OR PLASTER TYPE WALLS THAT ARE TO REMAIN SHALL HAVE THE WALL SURFACE PATCHED TO MATCH THE EXISTING FINISH. FLUSH TYPE DEVICES SHOWN TO BE REMOVED ON CONCRETE OR BRICK TYPE WALLS THAT ARE TO REMAIN SHALL HAVE THE DEVICES REMOVED AND BOXES PROVIDED WITH BLANK COVER PLATES.
4. CONDUITS SHALL BE COMPLETELY REMOVED FROM WALLS THAT ARE ALSO SHOWN TO BE REMOVED. CONCEALED CONDUITS MAY BE ABANDONED IN WALLS THAT ARE TO REMAIN. ALL CONDUITS AND BOXES THAT ARE SURFACE MOUNTED AND NO LONGER REQUIRE ACTIVE CIRCUITS SHALL BE REMOVED.
5. THE CONDUCTORS FOR DEVICES SHOWN TO BE REMOVED SHALL BE DISCONNECTED AND REMOVED BACK TO THE PANEL OR BACK TO THE NEXT DEVICE SHOWN TO REMAIN OR AS REQUIRED BY ACTUAL CIRCUITING. ACTUAL CIRCUITING MUST BE DETERMINED IN THE FIELD. ALL BIDS SHOULD INCORPORATE THIS REQUIREMENT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CHANGES WHICH OCCUR AS A RESULT OF EXISTING CIRCUITING. CONTINUITY OF CIRCUITING SHALL BE MAINTAINED FOR ALL EXISTING CIRCUITS AS REQUIRED. CONTRACTOR SHALL PROVIDE ALL NECESSARY WIRE, CONDUIT, DEVICES AND CONNECTIONS TO ENSURE CIRCUIT CONTINUITY TO ALL NEW AND EXISTING EQUIPMENT.
7. THE OWNER HAS THE RIGHT TO RETAIN ALL SALVAGEABLE MATERIAL. ANY MATERIAL THE OWNER CHOOSES NOT TO ACCEPT SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.
8. THE OWNER WILL OCCUPY PORTIONS OF THE FACILITY THROUGHOUT CONSTRUCTION. ELECTRICAL SYSTEMS TO OCCUPIED PORTIONS OF THE FACILITY MUST REMAIN IN OPERATION. THE ELECTRICAL CONTRACTOR MUST COORDINATE ALL PHASING REQUIREMENTS WITH THE GENERAL CONTRACTOR AND THE OWNER, AND MUST PROVIDE ALL NECESSARY DEVICES, EQUIPMENT, WIRE, CONDUIT, AND CONNECTIONS TO ENSURE PHASING AND OWNER OCCUPANCY REQUIREMENTS ARE SATISFIED. ALL BIDS SHOULD INCORPORATE THIS REQUIREMENT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ISSUES AND CHANGES WHICH OCCUR AS A RESULT OF PHASING AND OWNER OCCUPANCY REQUIREMENTS.
9. FOR DEVICES THAT ARE TO REMAIN, ALL ASSOCIATED CONDUIT THAT IS ATTACHED TO OR SUPPORTED BY OTHER SYSTEMS OR EQUIPMENT SHOWN TO BE REMOVED ON OTHER DISCIPLINES' DRAWINGS IN THIS CONSTRUCTION SET, SHALL BE RE-SUPPORTED OR RE-ROUTED TO ACCOMMODATE THE REMOVAL OF OTHER SYSTEMS.
10. CONTRACTOR SHALL TRACE AND INVENTORY ALL CIRCUITS AND LOW VOLTAGE CABLING WITHIN AREA OF DEMOLITION TO ENSURE THAT NO CONDUIT, CONDUCTORS OR LOW VOLTAGE CABLING ARE REMOVED THAT SERVE DEVICES THAT ARE TO REMAIN. ALL EXISTING TO REMAIN CONDUIT, CONDUCTORS, AND LOW VOLTAGE CABLING SHALL BE PROTECTED DURING THE DURATION OF CONSTRUCTION.
11. FULLY COORDINATE REMOVAL OF ALL LOW VOLTAGE DEVICES AND ASSOCIATED CABLING WITH OWNER'S INFORMATION TECHNOLOGY REPRESENTATIVES.

GENERAL POWER & AUXILIARY SYSTEMS NOTES:

1. FULLY COORDINATE THE INSTALLATION OF ALL ELECTRICAL DEVICES WITH THE WORK OF OTHER TRADES.
2. UNLESS OTHERWISE NOTED, ELECTRICAL DEVICES ARE TO BE FLUSH MOUNTED AND ALL WIRE AND CONDUIT IS TO BE ROUTED CONCEALED. FULLY COORDINATE INSTALLATION WITH EXISTING CONDITIONS, AND INCLUDE PATCHING AND REFINISHING OF EXISTING SURFACES TO ACCOMMODATE THIS REQUIREMENT.
3. FULLY COORDINATE THE LOCATION OF ALL HVAC EQUIPMENT WITH THE MECHANICAL AND CONTROLS CONTRACTORS. PROVIDE ALL DEVICES (I.E. STARTERS, SWITCHES, CONTACTS, ETC.) REQUIRED TO ENSURE SATISFACTORY OPERATION OF ALL SYSTEMS AND EQUIPMENT. (CONTROL WIRING TO BE PROVIDED BY MECHANICAL CONTRACTOR.) COORDINATE DEVICE REQUIREMENTS WITH ACTUAL EQUIPMENT.
4. FOR ALL HVAC CONTROL DEVICES PROVIDED BY THE ELECTRICAL CONTRACTOR, PROVIDE ALL NECESSARY AUXILIARY COMPONENTS AND CONTACTS TO ENSURE PROPER SYSTEM CONTROL FUNCTIONS. FULLY COORDINATE ALL REQUIREMENTS WITH THE MECHANICAL AND CONTROLS CONTRACTORS.
6. SEAL AROUND ALL CONDUIT AND CABLE PENETRATIONS THROUGH WALLS, CEILINGS AND FLOORS TO MAINTAIN CODE REQUIRED RATINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

UNLESS OTHERWISE INDICATED PROVIDE DEDICATED NEUTRAL CONDUCTORS FOR ALL BRANCH CIRCUITS. NEUTRAL CONDUCTORS SHALL NOT BE SHARED BETWEEN CIRCUITS. WHERE THE DRAWINGS INDICATE SHARED NEUTRAL CONDUCTORS FOR A MULTIWIRE BRANCH CIRCUIT, GROUP BREAKERS TOGETHER IN ACCORDANCE WITH CODE.

NEW FIRE ALARM SYSTEM NOTES:

1. PROVIDE A NEW CODE COMPLIANT FIRE ALARM SYSTEM. REFER TO THE ELECTRICAL POWER AND AUXILIARY SYSTEMS PLAN AND THE SPECIFICATION FOR ADDITIONAL DETAILS. PROVIDE ALL NECESSARY NEW EQUIPMENT, WIRE, CONDUIT, AND CONNECTIONS TO ENSURE A COMPLETE, CODE COMPLIANT FIRE ALARM SYSTEM INSTALLATION.
2. INSTALL ALL FIRE ALARM SYSTEM WORK IN CONDUIT.
3. FULLY COORDINATE ALL FIRE ALARM SYSTEM DETAILS WITH THE MECHANICAL AND CONTROLS CONTRACTORS. PROVIDE NECESSARY CONNECTIONS TO AIR HANDLING UNIT CONTROLS TO ALLOW FOR SHUTDOWN OF APPROPRIATE AIR HANDLING EQUIPMENT UPON ALARM CONDITIONS.
4. **PROVIDE ALL NECESSARY DUCT SMOKE DETECTORS AS REQUIRED.** PROVIDE ALL NECESSARY CONNECTIONS AND POWER SUPPLY CIRCUITS (FED FROM THE NEAREST PANELBOARD OF APPROPRIATE VOLTAGE AND SOURCE) TO SMOKE DAMPERS AND SMOKE/FIRE DAMPERS SO THAT UPON FIRE ALARM CONDITIONS OR DUCT SMOKE DETECTOR ACTIVATION, THE DAMPERS CLOSE. COORDINATE DAMPER AND CONTROL LOCATIONS WITH THE MECHANICAL AND CONTROLS CONTRACTORS. REFER TO THE MECHANICAL DRAWINGS.
5. SEAL AROUND ALL CONDUIT AND CABLE PENETRATIONS THROUGH FIRE AND/OR SMOKE RATED WALLS, CEILINGS, AND FLOORS TO ENSURE THAT CODE REQUIRED RATINGS ARE MAINTAINED.
6. STUB 2-1" EMPTY CONDUITS, INTO CEILING SPACE ABOVE PANEL AND BUSH CONDUIT ENDS.
7. PROVIDE NECESSARY CONNECTIONS TO KITCHEN EXHAUST HOOD FIRE SUPPRESSION SYSTEM. CONNECT SYSTEM TO NEAREST FIRE ALARM SYSTEM ZONE SUCH THAT WHEN SUPPRESSION SYSTEM IS ACTIVATED, AN APPROPRIATE ZONE FIRE ALARM LAMP IS LIGHTING AT THE CONTROL PANEL AND THE ANNUNCIATOR. FULLY COORDINATE SYSTEM LOCATION AND CONNECTION REQUIREMENTS WITH THE SUPPRESSION SYSTEM SUPPLIER/INSTALLER.
8. ALL FIRE ALARM WIRING SHALL BE INSTALLED, TESTED AND CERTIFIED PER NFPA 72 AND NFPA 70, ARTICLE 760.
9. FIRE ALARM SHOP DRAWINGS SHALL INCLUDE ALL CALCULATIONS, WIRING DIAGRAMS, FIRE ALARM CIRCUITING, UPDATED FLOOR PLANS SHOWING DEVICE TYPE AND LOCATIONS, SYSTEM/DEVICE CUTSHEETS, AND ALL OTHER NECESSARY DETAILS IN ORDER TO VERIFY A CODE COMPLIANT DESIGN AND INSTALLATION IS PROVIDED BY THE FIRE ALARM CONTRACTOR.
10. PROVIDE AS-BUILT DRAWINGS WITH UPDATED CONDITIONS BASED ON ACTUAL INSTALLATION CONDITION. SUBMIT PDF AND AUTOCAD FILES FOR AS-BUILT DRAWINGS.
11. PROTECT ALL EXISTING SMOKE DETECTORS IN AND AROUND AREA OF RENOVATION FROM CONSTRUCTION DUST/DEBRIS.

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

DEPARTMENT OF SOCIAL SERVICES

INSTALL FIRE ALARM & SUPPRESSION SYSTEMS

LANGSFORD HOUSE YOUTH CENTER

525 SE SECOND LEE'S SUMMIT, MO 64063

PROJECT # H2203-01

SITE #: 7717

ASSET #: 8877717001

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

ISSUE DATE: 2/2/23

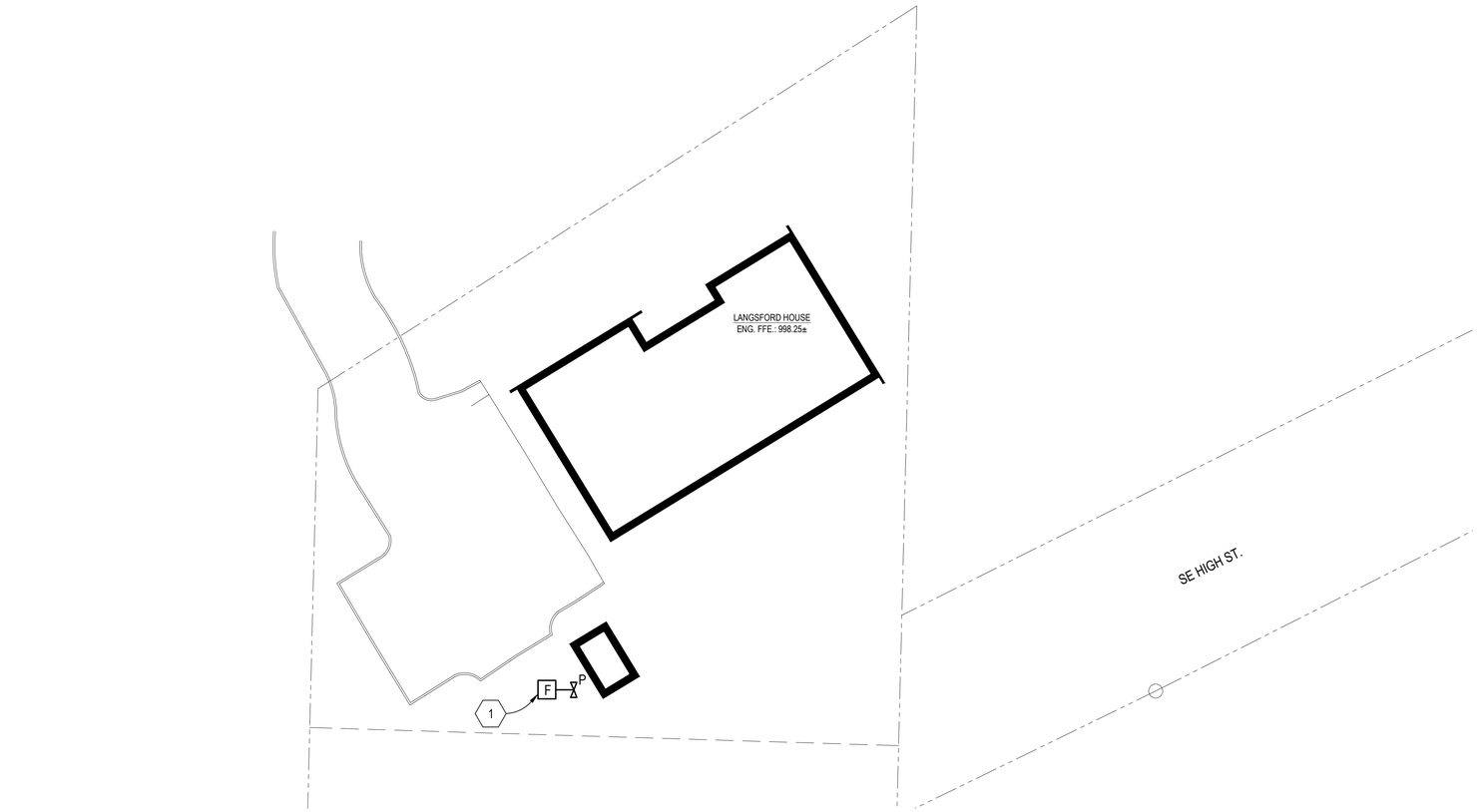
DRAWN BY: BS
CHECKED BY: BA
DESIGNED BY: BS

SHEET TITLE:
Electrical Abbreviations, Symbols Legend, & General Notes

SHEET NUMBER:

E-000

BID DOCUMENTS
2/2/23



FINAL ROUTING OF BELOW GRADE CONDUIT SHALL BE COORDINATED WITH EXISTING TREES AND PLANTS SO AS TO NOT DAMAGE ROOT SYSTEMS. COORDINATE WITH LANDSCAPE ARCHITECT.

CONTRACTOR SHALL IDENTIFY, SUPPORT, AND PROTECT ALL EXISTING UTILITES THROUGHOUT THE DURATION OF CONSTRUCTION. ALL SYSTEM OUTAGES SHALL BE FULLY COORDINATED WITH THE OWNER'S REPRESENTATIVE/LOCAL UTILITY.

ELECTRICAL SITE UTILITIES PLAN

SCALE: 1"=20'-0"

0 10' 20' 40'

ELECTRICAL SITE UTILITIES PLAN NOTES	
KEY NOTE	DESCRIPTION
1	NEW POST SUPERVISORY VALVE. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.

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SHEET TITLE:
Electrical Site Plan

SHEET NUMBER:

E-001

BID DOCUMENTS
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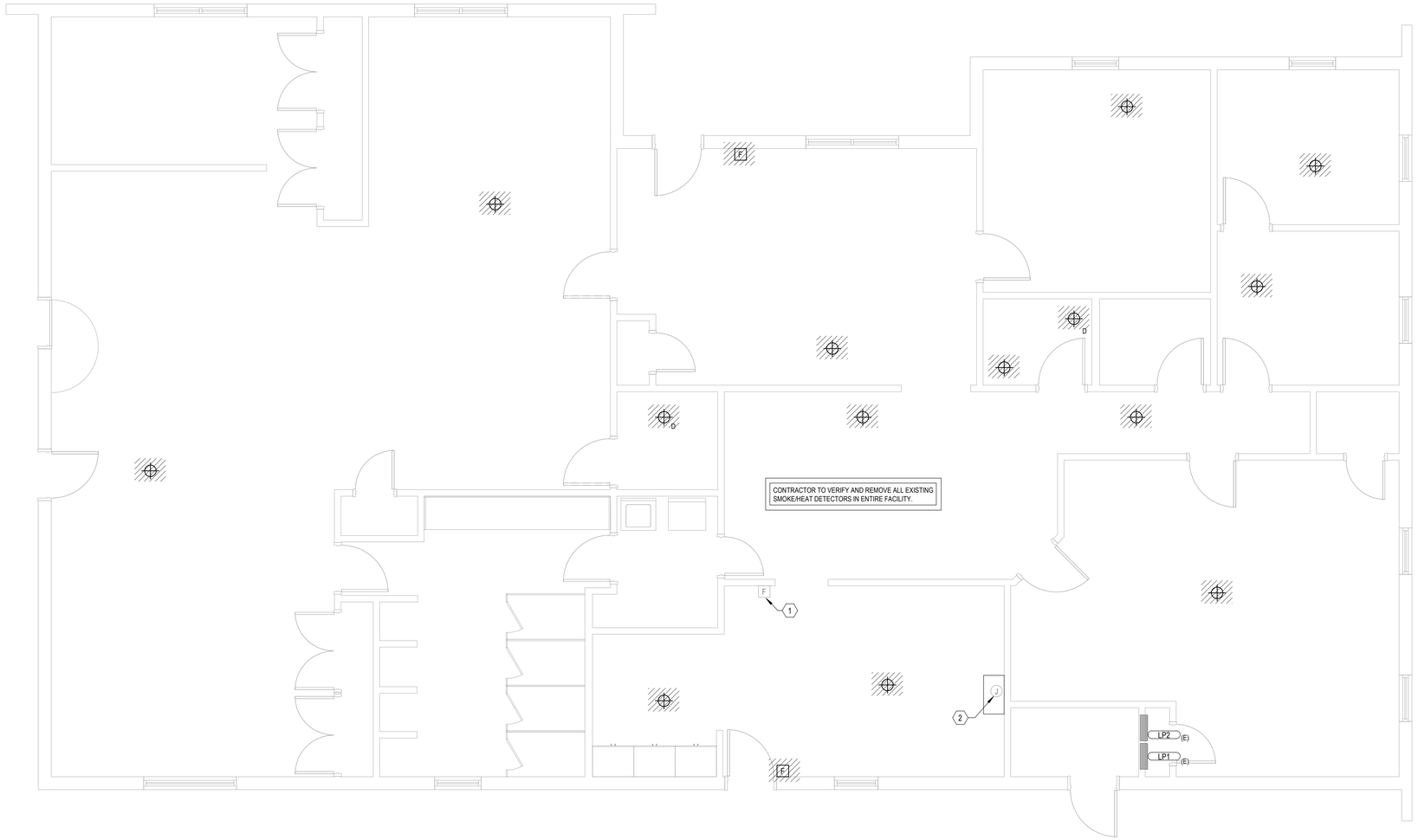

FIRST FLOOR ELECTRICAL DEMOLITION PLAN

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

0 2' 4' 8'

GENERAL DEMOLITION NOTE:
ALL DEVICES SHOWN "LIGHT" ARE EXISTING TO REMAIN. ALL DEVICES SHOWN "DARK" AND/OR HATCHED ARE EXISTING TO BE DEMOLISHED.

ELECTRICAL DEMOLITION PLAN NOTES	
KEY NOTE	DESCRIPTION
1	EXISTING COMMERCIAL KITCHEN HOOD PULL STATION TO REMAIN. PULLSTATION IS UTILIZED FOR MANUALLY ENGAGING KITCHEN HOOD FIRE SUPPRESSION SYSTEM FOR CONNECTION INTO NEW BUILDING FIRE ALARM SYSTEM.
2	EXISTING GUARDIAN G300-B COMMERCIAL KITCHEN HOOD FIRE SUPPRESSION SYSTEM CONTROL PANEL SHALL REMAIN. PREPARE SYSTEM FOR CONNECTION INTO NEW BUILDING FIRE ALARM SYSTEM.

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First Floor Electrical Demolition Plan

SHEET NUMBER:
E-010

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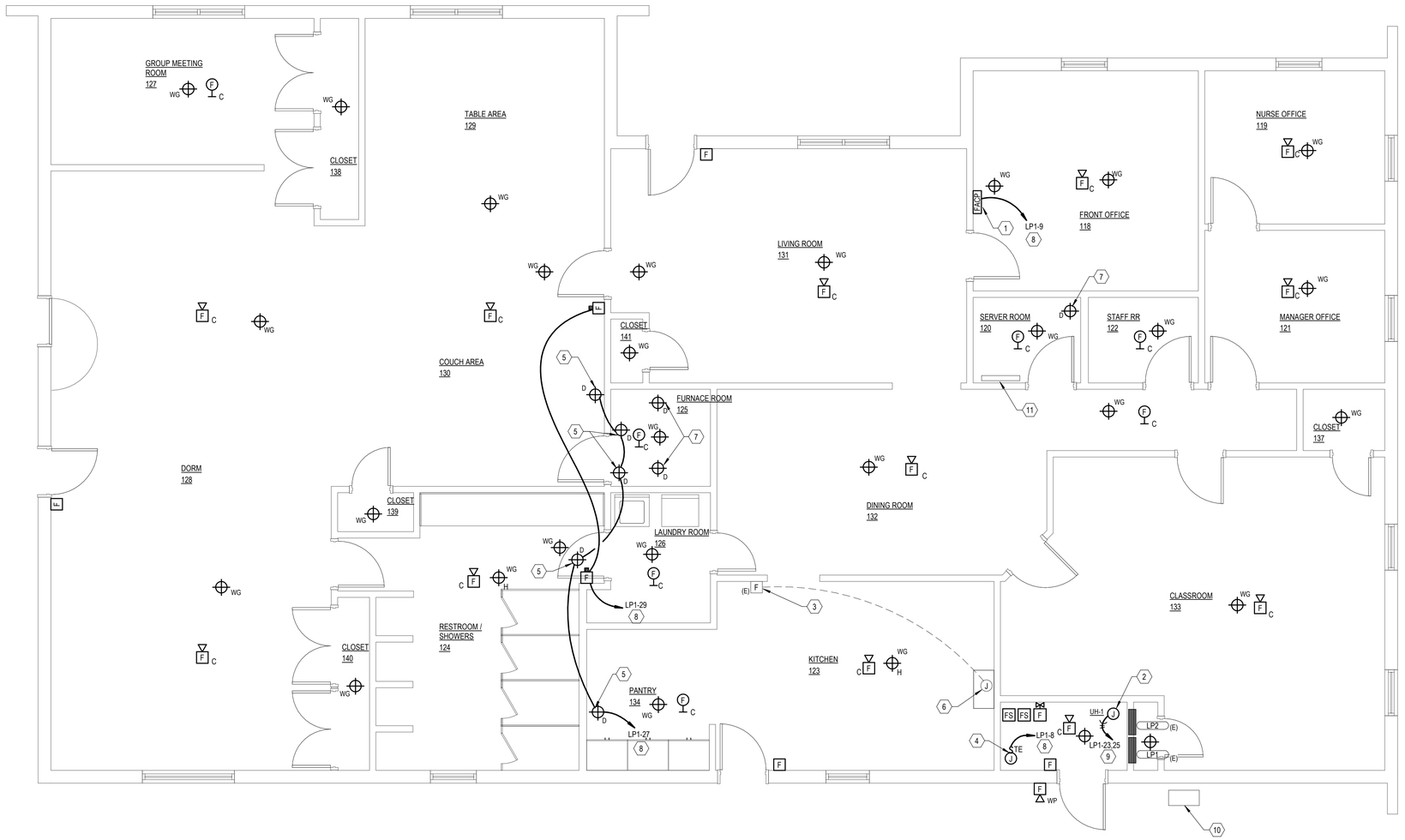

FIRST FLOOR POWER & AUXILIARY SYSTEMS PLAN

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

0 2' 4' 8'

FIRST FLOOR POWER & AUXILIARY SYSTEMS PLAN NOTES	
KEY NOTE	DESCRIPTION
1	PROVIDE 120V POWER TO NEW MAIN FIRE ALARM CONTROL PANEL FLUSH MOUNTED ON WALL AT LOCATION INDICATED. COORDINATE EXACT MOUNTING DETAILS WITH ARCHITECT. ROUTE (4) SPARE 1" CONDUITS CONCEALED UP WALL AND STUB ABOVE THE CEILING. BUSH CONDUIT ENDS.
2	PROVIDE 240V, 1PH ELECTRICAL CONNECTION FOR NEW UNIT HEATER .COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.
3	EXISTING KITCHEN HOOD FIRE ALARM PULL STATION FOR MANUAL ENGAGEMENT OF THE KITCHEN HOOD SUPPRESSION SYSTEM TO REMAIN. PROVIDE ALL INTERCONNECTIONS BETWEEN EXISTING SYSTEM AND NEW BUILDING FIRE ALARM SYSTEM FOR A COMPLETE, CODE COMPLIANT INSTALLATION.
4	PROVIDE 120V CONNECTION FOR NEW COMPRESSOR. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.
5	120V ELECTRICAL CONNECTION TO SMOKE DAMPER/COMBINATION FIRE SMOKE DAMPER. PROVIDE ALL NECESSARY CONNECTIONS TO DAMPER SO THAT UPON FIRE ALARM CONDITION OR DUCT SMOKE DETECTOR ACTIVATION, THE DAMPERS CLOSE. COORDINATE EXACT CONNECTION REQUIREMENTS AND LOCATION WITH MECHANICAL CONTRACTOR.
6	EXISTING GUARDIAN G300-B COMMERCIAL KITCHEN HOOD FIRE SUPPRESSION SYSTEM CONTROL PANEL SHALL REMAIN. PROVIDE ALL INTERCONNECTIONS BETWEEN EXISTING SYSTEM AND NEW BUILDING FIRE ALARM SYSTEM FOR A COMPLETE, CODE COMPLIANT INSTALLATION.

FIRST FLOOR POWER & AUXILIARY SYSTEMS PLAN NOTES	
KEY NOTE	DESCRIPTION
7	INSTALL DUCT DETECTOR WITH DRY CONTACTS FOR INTERCONNECTION WITH MECHANICAL HVAC UNIT IN DUCT NEAR THIS LOCATION. PROVIDE REMOTE TEST SWITCH MOUNTED AT 60" AFF ADJACENT TO THE DETECTOR. LABEL THE DETECTOR WITH THE NAME OF THE UNIT BEING SERVED AND THE AIR FLOW DIRECTION. COORDINATE INSTALLATION AND LOCATION WITH THE MECHANICAL CONTRACTOR.
8	INSTALL NEW 20A/1P CIRCUIT BREAKER IN EXISTING PANEL 'LP1'. NEW CIRCUIT BREAKER SHALL BE FULLY COMPATIBLE WITH EXISTING PANEL AND SHALL MAINTAIN THE PANEL'S UL LISTING AND INTERRUPT RATING.
9	INSTALL NEW 20A/2P CIRCUIT BREAKER IN EXISTING PANEL 'LP1'. NEW CIRCUIT BREAKER SHALL BE FULLY COMPATIBLE WITH EXISTING PANEL AND SHALL MAINTAIN THE PANEL'S UL LISTING AND INTERRUPT RATING. ROUTE (2) #12 & (1) #12G IN 3/4" CONDUIT.
10	PULL (1) CAT5E CABLE IN 3/4" CONDUIT FROM EXISTING AT&T BOX TO FIRE ALARM PANEL. COORDINATE WITH FIRE ALARM SUPPLIER/INSTALLER FOR EXACT REQUIRMENTS. LEAVE CAT5E CABLE COILED UP IN BOX FOR CONNECTION BY AT&T. COORDINATE EXACT CONNECTION REQUIRMENTS WITH AT&T AND PROVIDE LENGTH OF CABLE NECESSARY TO MAKE COMPLETE INSTALLATION.
11	PULL (1) CAT5E CABLE IN 3/4" CONDUIT FROM EXISTING TELEPHONE PUNCH DOWN BLOCK TO FIRE ALARM PANEL FOR REDUDANT TELEPHONE LINE. COORDINATE WITH FIRE ALARM SUPPLIER/INSTALLER FOR EXACT REQUIRMENTS.

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First Floor Power & Auxiliary Systems Plan

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