KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
PHASE 2 - Revised

ARCHITECTURAL MATERIALS LEGEND

▨	CONCRETE
▨	CONCRETE MASONRY UNITS (PLAN) AND (SECTION)
▨	WOOD (ROUGH)
▨	WOOD (FINISH)
▨	RIGID INSULATION
▨	BATT INSULATION
▨	GYPSUM WALLBOARD
▨	GLASS
▨	STEEL/ METAL
▨	PLYWOOD

MISC. ARCHITECTURAL SYMBOLS

PARTITION TYPE P1

DOOR NUMBER 101 DOOR NUMBER

ROOM NAME & NUMBER FLOOR PLAN 101

WINDOW X

WALL SECTION IDENTIFICATION

1 AE301 SECTION NUMBER SHEET NUMBER

DETAIL IDENTIFICATION

1 AE521 DETAIL NUMBER SHEET NUMBER

INTERIOR ELEVATION OR VIEWPOINT IDENTIFICATION

1 AE201 ELEVATION NUMBER SHEET NUMBER

OR

1 2 AE201 3 4 ELEVATION NUMBER SHEET NUMBER

ARCHITECTURAL ABBREVIATIONS

A

A.B.	ANCHOR BOLT
ABV	ABOVE
AC	ACOUSTICAL
A/C	AIR CONDITIONING
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADH	ADHESIVE
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
ALT	ALTERNATE
ANCH	ANCHOR
ANOD	ANODIZED
AP	ACCESS PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL)
ASPH	ASPHALT
AUTO	AUTOMATIC
AVG	AVERAGE
AGG	AGGREGATE

B

BD	BOARD
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BLW	BELOW
BM	BEAM
B.M.	BENCH MARK
B.O.	BOTTOM OF
BRG	BEARING
BSMT	BASEMENT
BTM	BOTTOM
BTWN	BETWEEN
B.U.	BUILT-UP

C

C.,	CHANNEL
CAB	CABINET
CALK	CAULK(ING)
C.B.	CATCH BASIN
CBT	CABINET
C/C	CENTER TO CENTER
CEM	CEMENT
C.F.	CUBIC FEET
CHBD	CHALKBOARD
CI	CAST IRON
CIP	CAST IRON PIPE/ CAST IN PLACE
CJ	CONSTRUCTION JOINT CONTROL JOINT
CL,	CENTER LINE
CLG	CEILING
CL	CLOSET
CLR	CLEAR(ANCE)
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
COND	CONDITION/CONDENSER
CONT	CONTINUE(CONTINUOUS)
CONTR	CONTRACT(OR)
CONSTR	CONSTRUCTION
CORR	CORRUGATED
COR	CONTRACTING OFFICER REPRESENTATIVE
CT	CERAMIC TILE
CTR	COUNTER
CTRL JT	CONTROL JOINT
CU FT	CUBIC FEET
CY	CUBIC YARD
COMp	CUMPUTER
CPT	CARPET
CSCI	CONTRACTOR SUPPLIED CONTRACTOR INSTALLED

D

DBL	DOUBLE
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION/DIVIDER
DL	DEAD LOAD
DN	DOWN
DOC	DOCUMENTS
DP	DEEP
DPR	DAMPER
DR	DOOR
DWG	DRAWING
DTL	DETAIL
DS	DOWNSPOUT

E

EA	EAST
EA	EACH
EB	EXPANSION BOLT
EC	ELECTRICAL CONDUIT OR CONTRACTOR
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
ENC	ENCLOSURE/ENCLOSE
ENT	ENTRANCE
EP	ELECTRICAL PANEL
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXH	EXHAUST
EXIST	EXISTING
EXPD	EXPOSED
EXP	EXPANSION
EXT	EXTERIOR
E.I.F.S.	EXTERIOR INSULATION FINISH SYSTEM

F

FAB	FABRICATE/FABRICATION
FBD	FIBERBOARD
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FH	FIRE HYDRANT
FIN	FINISH
FIN FLR	FINISH FLOOR
FRL, FL	FLOOR
FL	FLOW LINE
FLUOR	FLUORESCENT
FLX	FLEXIBLE
FND	FOUNDATION
F.O.W.	FACE OF WALL
FR	FRAME(ED)(ING)/FIRE RATED
FS	FLOOR SINK (REF PLUMBING)
FT(')	FOOT
FTG	FOOTING
FUR	FURRED/FURRING
FURN	FURNACE
FUTURE	FURNITURE
FV	FIELD VERIFY

G

G	GAS
GA	GAGE, GAUGE
GALV.	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GI	GALVANIZED IRON
GL	GLASS, GLAZING
GYP BD	GYPSUM BOARD

H

H	HIGH
HAC	HOUSEHOLD AIDS CLOSET
HC	HOLLOW CORE
HDBD	HARD BOARD
HDR	HEADER
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HEAT PUMP
HPR	HORSE POWER
HR	HOUR
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HW	HOT WATER
HYD	HYDRANT

I

ID	INSIDE DIAMETER
IGU	INSULATED GLASS UNIT
IN(")	INCH
INCL	INCLUDE
INSUL	INSULATOR
INT	INTERIOR

J

JC	JANITOR'S CLOSET
JST	JOIST
JT	JOINT

K

K	KIP (1000 LBS.)
KW	KILOWATT

L

L	LONG; LENGTH
LAM	LAMINATE
LAV	LAVATORY
lb. #	POUND
LF	LINEAR FOOT
LH	LEFT HAND
LKR	LOCKER
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATION
LT	LIGHT

M

MANUF	MANUFACTURER(S)(ING)
MAS	MASONRY
MAT	MATERIAL
MAX	MAXIMUM
M.B.	MARKER BOARD
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MFD	MANUFACTURED
MFR	MANUFACTURER
M.O.	MASONRY OPENING
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MH	MANHOLE
MOD	MODULAR
MOV	MOVABLE
MTD	MOUNTED
MTL	METAL
MUL	MULLION

N

N	NORTH
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
N.I.C.	NOT IN CONTRACT

O

OA	OVERALL
O.C.	ON CENTER (S)
O.C.C.	OCCUPANT
OD	OUTSIDE DIAMETER
OH DR	OVERHEAD DOOR
OPNG	OPENING
OPP	OPPOSITE
OH	OVERHEAD
OS	OVERFLOW SCUPPER
OSOI	OWNER SUPPLIED OWNER INSTALLED

P

PART BD	PARTICLE BOARD
PC	PIECE
PCF	POUNDS PER CUBIC FOOT
PER	PERIMETER
PERF	PERFORATED
PH	PHASE
PJ	PANEL JOINT
PL	PLATE
P.L.	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
PT/PNT	PAINT(ED)
PR	PAIR
PREFIN	PREFINISHED
PROJ	PROJECT
P.S.	PROJECTION SCREEN
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
PVMNT	PAVEMENT

Q,R

QT	QUARRY TILE
R	RADIUS, RISER
RA	RETURN AIR
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RECP	RECEPTACLE
REF	REFEREMCE/REFRIGERATOR
REG	REGISTER
REINF	REINFORCE(MENT)(ING)
REQ'D	REQUIRE(D)
REV	REVISE(D); REVISION; REVERSE
RM	ROOM
R.O.	ROUGH OPENING
R.O.W.	RIGHT OF WAY
RPM	REVOLUTIONS PER MINUTE
RS	ROUGH SAWN
R.T.U.	ROOF TOP UNIT
RB	RESILIENT BASE

S

S	SOUTH
SAN	SANITARY
SB	SPLASH BLOCK
SC	SOLID CORE
SCH	SCHEDULE
SD	STORM DRAIN
SEAL	SEALANT
SECT	SECTION
SF	SQUARE FOOT
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION
SPK	SPEAKER
SQ	SQUARE
SERV	SERVICE
SS	SANITARY SEWER
SST	STAINLESS STEEL
ST	STREET
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STO	STORAGE
STS	STORM SEWER
STRUCT	STRUCTURAL; STRUCTURE
SUP	SUPPLY
SUSP	SUSPEND(ED)
S&V	STAIN VARNISH
SW	SWITCH
SY	SQUARE YARD
SYM	SYMMETRY; SYMMETRICAL
SYN	SYNTHETIC
SYS	SYSTEM
SWS	STORM WATER SYSTEM

T

T	TREAD
T.B.	TACK BOARD
T.D.	TRAVEL DISTANCE
T.O.C.	TOP OF CURB
TELE	TELEPHONE
TEMP	TEMPORARY
THR	THRESHOLD
T&G	TONGUE & GROOVE
THRU	THROUGH
T.O.	TOP OF
TLT	TOILET
TV	TELEVISION
T.O.W.	TOP OF WALL
TYP	TYPICAL

U, V, W, Y

UG	UNDERGROUND
UH	UNIT HEATER
U.N.O.	UNLESS NOTED OTHERWISE
UR	URINAL
V	VOLT
V/C	VA PROVIDED CONTRACTOR INSTALLED
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
V.I.F.	VERIFY IN FIELD
W	WEST
W	WATER
W	WIDE
W/	WITH
WD	WOOD
WNDW	WINDOW
WH	WATER HEATER
W/O	WITHOUT
WSCT	WAINSCOT
WT	WEIGHT
W.W.F.	WELDER WIRE FABRICATION
W.W.M.	WELDED WIRE MESH
WB	WINDOW BLIND
YD	YARD

ALTERNATES

1. BUILDING EAST WING REMODEL
   - NEW EVIDENCE "115"
   - OFFICE "127"
   - OFFICE "127A"
2. LAB CASEWORK
3. NEW WALL - CHEMICAL STORAGE "110"
4. NEW VENTILATED LOCKERS
5. NEW INTERIOR WINDOW "W2"
6. LAB EQUIPMENT
   - 72" HOOD
   - 48" HOOD
   - 48" BIO HOOD
   - (2) DC-3 - 36" DRYER CABINETS
   - (5) SN - SNORKELS

Sheet List

Sheet Number	Sheet Name
G001	ARCHITECTURAL ABBREVIATIONS & AREA OF WORK - PHASE 2
G002	CODE ANALYSIS - PHASE 2
G003	CODE PLAN - PHASE 2
G004	CODE PLAN - PHASE 2 FULL PLAN
G005	TEMPORARY EGRESS PLAN
S100	EXHAUST FAN SUPPORT FRAMING
AD101	DEMO PLAN - PHASE 2 FULL PLAN
A101	FIRST FLOOR PLAN - PHASE 2 FULL PLAN
A102	SECOND FLOOR PLAN - PHASE 2
A111	REFLECTED CEILING PLAN - PHASE 2 FULL PLAN
A501	DOOR & WINDOW SCHED. & DETAILS - PHASE 2
A502	PARTITION TYPES & DETAILS - PHASE 2
I-101	FLOOR FINISH PLAN & DETAILS - PHASE 2 FULL PLAN
I-401	INTERIOR CASEWORK ELEVATIONS - PHASE 2
I-402	INTERIOR CASEWORK ELEVATIONS - PHASE 2
I-501	CASEWORK SECTIONS - PHASE 2
I-502	CASEWORK SECTIONS - PHASE 2
I-601	FINISH SCHEDULE, LEGEND & NOTES - PHASE 2
IF-101	FURNITURE PLAN - PHASE 2
ME100	MEP SYMBOLS LEGEND
PB00	BASEMENT PLUMBING DEMOLITION PLAN
PB01	BASEMENT PLUMBING IMPROVEMENT PLAN
P100-2	FIRST FLOOR PLUMBING DEMOLITION PLAN - PHASE 2
P101-2	FIRST FLOOR PLUMBING IMPRO. PLAN - PHASE 2
MB00-2	BASEMENT HVAC DEMOLITION PLAN - PHASE 2
MB01-2	BASEMENT HVAC IMPROVEMENT PLAN - PHASE 2
M100-2	FIRST FLOOR HVAC DEMOLITION PLAN - PHASE 2
M101-2	FIRST FLOOR HVAC IMPROVEMENT PLAN - PHASE 2
M201-2	FIRST FLOOR HVAC PIPING IMPROVEMENT PLAN - PHASE 2
M300	MECHANICAL SCHEDULES
M301	MECHANICAL SCHEDULES
M400	MECHANICAL DETAILS
M401	MECHANICAL DETAILS
M402	MECHANICAL DETAILS
EB01-2	BASEMENT ELECTRICAL PLANS - PHASE 2
E100-2	FIRST FLOOR ELECTRICAL DEMO PLAN - PHASE 2
E101-2	FIRST FLOOR LIGHTING IMPROVEMENT PLAN - PHASE 2
E201-2	FIRST FLOOR POWER IMPROVEMENT PLAN - PHASE 2
E301-2	FIRST FLOOR SPECIAL SYSTEMS IMPROV. PLAN - PHASE 2
E302-2	SECOND FLOOR SPECIAL SYSTEMS IMPROV. PLAN - PHASE 2
E400	ELECTRICAL DETAILS
E401	ELECTRICAL RISER DIAGRAM
E500	ELECTRICAL SCHEDULES
E501	ELECTRICAL SCHEDULES
E502	ELECTRICAL SCHEDULES

▨ PHASE 2 AREA OF WORK

▨ PHASE 2 AREA OF WORK - ALTERNATE 1

A **FIRST FLOOR OVERALL PLAN- AREA OF WORK**

0' 2" 4" 6" 8' 12" 1/16" = 1'-0"

NORTH

Project No: 16004R22004

GLMV Architecture
1525 E. Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

SCOTT A. SMITH
LICENSED
[illegible]
4318
08.19.2024
KANSAS
ARCHITECT

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

ISSUE DATE: 08-09-24 DRAWN BY: AAM CHECKED BY: SAS REV:

ARCHITECTURAL ABBREVIATIONS & AREA OF WORK - PHASE 2

A-014835Rev

G001

ORIGINAL CONTRACT DOCUMENTS

CODE NARRATIVE - KBI FORENSIC LAB

BUILDING PROJECT TYPE: INTERIOR RENOVATION

PROJECT DESCRIPTION: THIS PROJECT IS FOR THE RENOVATION OF AN EXISTING LABORATORY ON THE FIRST FLOOR OF A TWO-STORY EXISTING BUILDING. KANSAS BUREAU OF INVESTIGATION, 625 WASHINGTON STREET, GREAT BEND, KANSAS 67530

OWNER REPRESENTATIVE: CARL ANDERSON, ASSISTANT LABORATORY DIRECTOR, FORENSIC SCIENCE LABORATORY, KANSAS BUREAU OF INVESTIGATION

FACILITY NAME: KANSAS BUREAU OF INVESTIGATION GREAT BEND FORENSIC LAB
625 WASHINGTON STREET, GREAT BEND, KANSAS 67530
PHONE: (620) 603-7112 FAX: (620) 792-1850

STATE BUILDING NO.: 08300-00002

ARCHITECT:
GLMV ARCHITECTURE
1525 E. DOUGLAS
WICHITA, KS 67211
TEL: (316) 2659367
FAX: (316) 265-5646

MECHANICAL/ELECTRICAL/PLUMBING ENGINEER:
BRACK & ASSOCIATES CONSULTING ENGINEERS
3501 SW GAGE BLVD,
TOPEKA, KS 66614
TEL: (785) 271-6644

THE INFORMATION REPRESENTED ON THE FOLLOWING DRAWINGS RESPONDS TO THE REQUIREMENTS OF K.A.R. 22-1-7 CODE FOOTPRINT.
- THE DRAWINGS LISTED BELOW RESPOND TO THE K.A.R. 22-1-7 (a) and (b):
  - G-002 CODE ANALYSIS
  - G-003 CODE PLAN - PHASE 2
  - G-004 CODE PLAN - PHASE 2 FULL PLAN
- THE FOLLOWING RESPONDS TO K.A.R. 22-1-7 (c):
  - (1) and (2) THIS PROJECT IS A RENOVATION ON THE FIRST FLOOR OF AN EXISTING TWO STORY BUILDING.
    FIRST FLOOR PROJECT AREA = 3,400 SF
    FIRST FLOOR TOTAL AREA = 10,400 SF
  - (3) APPLICABLE CODES: 2018 INTERNATIONAL BUILDING CODE (IBC)
    2018 INTERNATIONAL FIRE CODE (IFC)
    2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
    2018 INTERNATIONAL PLUMBING CODE (IPC)
    2018 INTERNATIONAL MECHANICAL CODE
    2018 INTERNATIONAL FUEL GAS CODE (IFGC)
    2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)

    2018 NFPA 10 - 2018 ADDITION - PORTABLE FIRE EXTINGUISHERS
    2018 NFPA 45-2015 ADDITION - FIRE PROTECTION FOR LABORATORIES USING CHEMICALS
    NFPA 70 - 2017 EDITION - NATIONAL ELECTRIC CODE (NEC)
    NFPA 72 - 2016 EDITION - NATIONAL FIRE ALARM CODE
    NFPA 101 - 2018 EDITION - LIFE SAFETY CODE
    NFPA 110 – 2016 EDITION – EMERGENCY AND STANDBY POWER SYSTEMS
    2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
  - (4) BUILDING LOCATION: 625 WASHINGTON STREET, GREAT BEND, KANSAS 67530
  - (5) THE PROJECT IS BEING ADMINISTERED BY THE KANSAS BUREAU OF INVESTIGATION
    CARL ANDERSON, ASSISTANT LABORATORY DIRECTOR, FORENSIC SCIENCE LABORATORY, KANSAS BUREAU OF INVESTIGATION
    GREAT BEND OFFICE
    625 WASHINGTON
    GREAT BEND, KANSAS 67530
  - (6) DATES AND REVISIONS ARE SHOWN ON THE SHEET TITLE BLOCK
  - (7) DESIGNERS INFORMATION IS SHOWN AND ON THE SHEET TITLE BLOCK
  - (8) DESIGNER'S SEAL IS AFFIXED TO THE SHEET TITLE BLOCK
  - (9) KANSAS BUREAU OF INVESTIGATION GREAT BEND FORENSIC LAB IS SERVED BY THE CITY OF GREAT BEND FIRE DEPT.
  - (10) KANSAS STATE OFFICE OF FACILITIES & PROPERTY MANAGEMENT WILL ACT AS THE BUILDING INSPECTION DEPT.
  - (11) OCCUPANCY GROUP: B-BUSINESS, S-STORAGE
  - (12) TYPE OF CONSTRUCTION: EXISTING
  - (13) STRUCTURAL CODE REQUIREMENTS: THE STRUCTURE IS EXISTING
  - (14) ACTIVE FIRE SAFETY FEATURES:
    - FIRE ALARM SYSTEM: REQUIRED/PROVIDED
    - FIRE ALARM HORNS / STROBES ARE LOCATED THROUGHOUT THE BUILDING
    - EMERGENCY LIGHTS: REQUIRED / PROVIDE AT ALL CORRIDORS AND EXIT PATHWAYS LEADING TO EXITS, EXIT STAIRS, EXIT DISCHARGE AND NEAR EXIT DOORS.
    - EXIT SIGNS: REQUIRED / PROVIDED
  - (15) THERE ARE NO ALTERNATIVE METHODS FOR DESIGN AND CONSTRUCTION USED.

KANSAS FIRE PREVENTION CODE – SECTION 31-134a: THIS EXISTING BUILDING WILL BE DEEMED COMPLIANT TO THE KANSAS FIRE PREVENTION CODE BY ALSO CONFORMING TO THE 2018 INTERNATIONAL BUILDING CODE LISTED ABOVE.

CODE ANALYSIS

BUILDING USE	LABORATORY	SECTION 304
OCCUPANCY CLASSIFICATION	GROUP B / GROUP S	
CONSTRUCTION TYPE	VB EXISTING	
ALLOWABLE HEIGHT	EXISTING	
ACTUAL HEIGHT	EXISTING	
ALLOWABLE STORIES	EXISTING	
ACTUAL STORIES	2	
ALLOWABLE BUILDING AREA PER FLOOR	EXISTING	
ACTUAL BUILDING AREA –		
FIRST FLOOR	10,400 SF	
PROJECT FIRST FLOOR	3,400 SF	
SECOND FLOOR	4,366 SF	
PROJECT SECOND FLOOR	(NO WORK DOOR ACCESS CONTROLS)	

AREA MODIFICATIONS: NOT APPLICABLE

STRUCTURAL FIRE PROECTION: EXISTING, N/A

COMBUSTABLE MATERIALS: EXISTING, N/A — SECTION 603

SHAFT ENCLOSURES:
- SHAFT NOT REQUIRED AT FLOOR OPENING CONNECTING ONLY 2 STORES — SECTION 712.1.9
- FIRE RESISTANCE RATING: 1 HOUR (CONNECTION LESS THAN 4 STORIES) — SECTION 713.4
- ELEVATOR LOBBY NOT REQUIRED WHEN CONNECTION 3 STORIES OR LESS — SECTION 3006.2

OPENING PROTECTIVES:
- FIRE DOOR PROTECTION RATING FOR SHAFTS: EXISTING — TABLE 716.1(2)

INTERIOR FINISHES:
- GROUP B, NOT SPRINKLERED BLDG: CLASS "C" — SECTION 803, TABLE 803.13

FIRE PROTECTION SYSTEMS:

PORTABLE FIRE EXTINGUISHERS:		IFC SECTION 906
HIGH HAZARD		NFPA 10 SECTION 5.4.1.1
CLASS "A" FIRE HAZARD		NFPA 10 TABLE 6.2.1.1
MINIMUM RATING	4-A	IFC TABLE 906
MAX. FLOOR AREA / UNIT OF "A"	1,000 SF	
MAX. FLOOR AREA/ EXTINGUISHER	11,250 SF	
MAX. TRAVEL DISTANCE TO EXTINGUISHER	75 FEET	
PROVIDED:	4-A	

FIRE ALARM AND PROTECTION SYSTEMS: GROUP B MANUAL ALARM SYSTEM — IFC SECTION 907.2.2

MEANS OF EGRESS — SECTION 1004
OCCUPANT LOAD — TABLE 1004.5

BUSINESS AREAS:
- FIRST FLOOR PROJECT AREA 3,176 SF @ 150 SF GROSS/OCCUPANT = 22 OCCUPANTS
- FIRST FLOOR PROJECT AREA 224 SF @ 500 SF GROSS/OCCUPANT = 1 OCCUPANTS

TOTAL OCCUPANTS = 23 OCCUPANTS

MINIMUM EGRESS WIDTH — TABLE 1005.3.2

EGRESS COMPONENTS 0.2" / OCC. — SECTION 1005.3.2

DOOR WIDTH = SEE CODE PLANS FOR DOOR WIDTHS REQUIREMENTS

COMMON PATH OF EGRESS TRAVEL

GROUP 'B', NOT SPRINKLERED	75 FT. MAX.	TABLE 1006.2.1
ACTUAL WORST CASE	48 FT. (COMPLIES)	

EXIT ARRANGEMENT:

EXIT SEPERATION DISTANCE	1/2 THE DIAGONAL DIMENSION OF THE BUILDING (106' - 4")/2 = 53' -2" MIN. ALLOWED
ACTUAL SEPAREATION DISTANCE	121'-0" (COMPLIES)

EXIT ACCESS TRAVEL DISTANCE:

GROUP 'B' NOT SPRINKLERED	200 FT. MAX	TABLE 1017.2
ACTUAL WORSE CASE	91' - 6"	

NUMBER OF EXITS:

REQUIRED 500 OCCUPANTS OR LESS PER FLOOR = 2 EXITS
PROVIDED: 2 EXITS TOTAL — TABLE 1006.3.2

DEAD END CORRIDORS:

20 FT. MAX (GROUP B) - COMPLIES — SECTION 1020

PLUMBING SYSTEM CODE REQUIREMENTS

EXISTING PLUMBING FIXTURES TO REMAIN. NO CHANGE IN PROVIDED FIXTURE COUNT, RESTROOMS ARE OUTSIDE OF PROJECT AREA.

TEMPORARY EGRESS DURING CONSTRUCTION:

THE WORK IN THE EGRESS CORRIDOR WILL BE LIMITED TO TIMES OUTSIDE OF BUSINESS HOURS WHEN THE FIRST FLOOR WILL NOT BE OCCUPIED. OTHER AREAS OF THE BUILDING DO NOT REQUIRE THIS CORRIDOR FOR EGRESS PURPOSES, AND HAVE TWO INDEPENDENT MEANS OF EGRESS.

OWNER SIGNATURE — 1 Feb 2024 DATE

OFPM SIGNATURE — 24.02.06 DATE

Project No:
16004R22004

GLMV Architecture
1525 E. Douglas, Wichita, KS 67211
Tel: (316) 265-5367
www.glmv.com

SCOTT A. SMITH
LICENSED
4348
01.31.2024
KANSAS
ARCHITECT

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

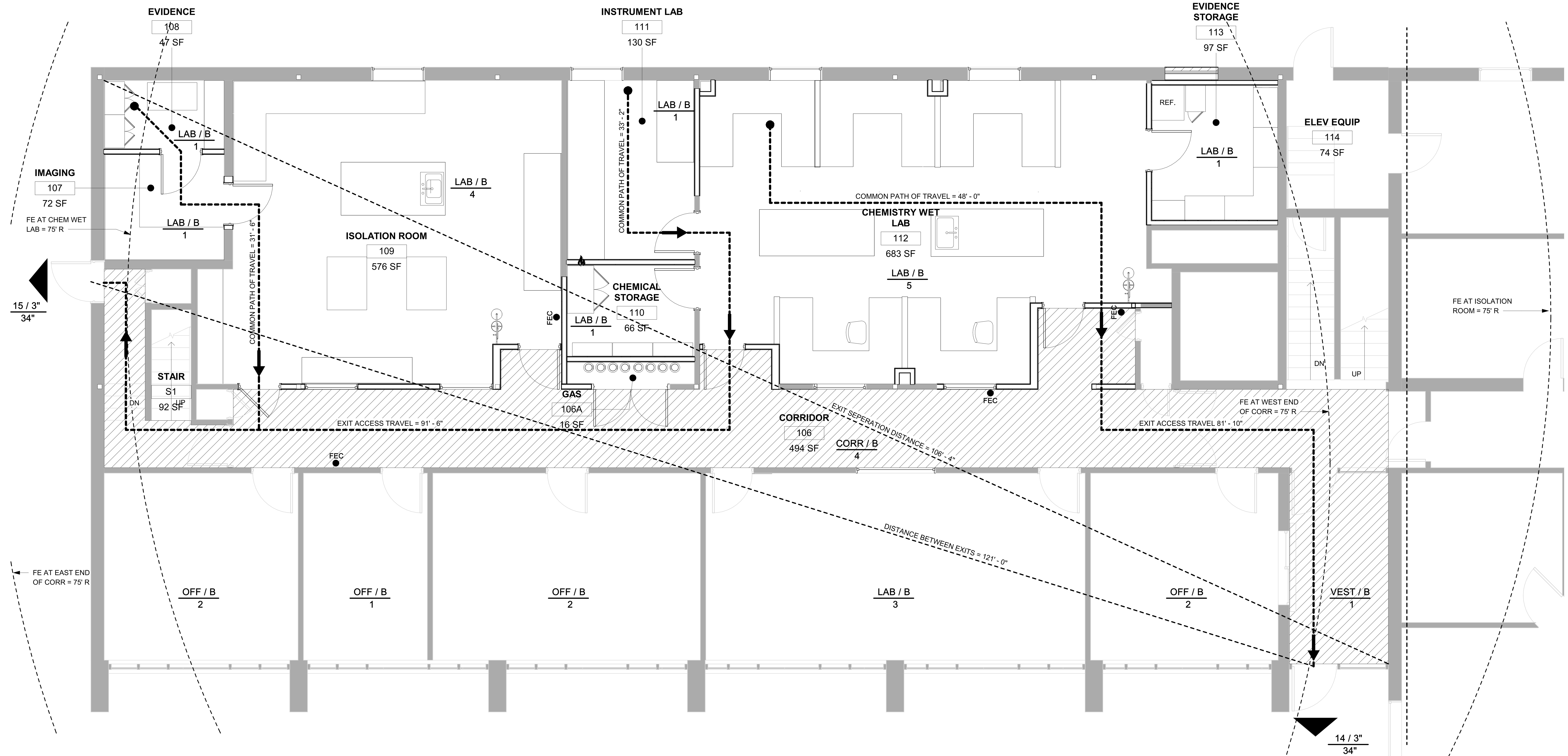
ISSUE DATE: 01-30-24 DRAWN BY: AAM CHECKED BY: SAS REV:

CODE ANALYSIS - PHASE 2

A-014835

G002

ORIGINAL CONTRACT DOCUMENTS



A CODE PLAN- PHASE 2

NORTH

0' 2' 4' 6' 1/4" = 1'-0"

CODE FOOTPRINT GRAPHIC LEGEND

Symbol	Description	Protection Elements
	Required Exit – Exterior	Exit Signs.
	Required Exit or Exit Access– Interior (Assembly over 50 & exits from floors.)	
	Fire Extinguisher	
	Fire Department Connection (FDC)	
	Standpipe	
	Hose Cabinet	
	Hose Cabinet with Extinguisher	
	Fire Extinguisher Spacing (Show radius)	Show radius.
	Non–Protected Exit Path	(Edit as necessary) [None] or [None–per exception of fully sprinklered A, B, E, F, M, S, U occupancy] or [1–2 occupancy smoke partition walls (No fire resistive wall rating). Doors limit transfer of smoke and shall have positive latching.]
P P	Limited Protected Exit Path	Automatic Smoke Detection Throughout Exit Path
	Protected Exit Path	1 hour Fire Partition wall construction. 20–minute rated door assembly. Fire & Smoke Dampers.
½ ½	Protected Exit Path (sprinklered R occupancy)	.5 hour Fire Partition wall construction. 20–minute rated door assembly. Fire & Smoke Dampers.
	Special Coverage	Limited Sprinkler Coverage
1 1	1 Hour Exit Passageway	1–hour Fire Barrier wall construction. No openings other than required exit doors. 1–Hour door assembly.
2 2	2 Hour Exit Passageway	2–hour Fire Barrier wall construction. No openings other than required exit doors. 1½–Hour door assembly.
1 1	1 Hour Exit Enclosure (vertical) (stairwell – 3 stories or less)	1–hour Fire Barrier wall construction. no openings other than required exit doors. 1–Hour door assembly.
2 2	2 Hour Exit Enclosure (vertical) (stairwell – 4 stories or more)	2–hour Fire Barrier wall construction. No openings other than required exit doors. 1½–Hour door assembly.
	1 Hour Fire Barrier (Occupancy and Incidental Use Areas)	1–hour Fire Barrier wall construction. 3/4–hour rated door assembly. Fire Dampers. (Edit Fire Damper requirement as necessary for sprinklered buildings.)

Symbol	Description	Protection Elements
	2 Hour Fire Barrier (Occupancy)	2–hour Fire Barrier wall construction. 1 ½–hour rated door assembly. Fire Dampers.
	3 Hour Fire Barrier (Occupancy)	3–hour Fire Barrier wall construction. 3–hour rated door assembly. Fire Dampers.
	4 Hour Fire Barrier (Occupancy)	4–hour Fire Barrier wall construction. 3–hour rated door assembly. Fire Dampers.
–2–2–	2 Hour Fire Wall (Building Separation)	2–hour Fire Wall construction per IBC 705. 1 ½–hour door assembly. Fire dampers when ductwork is allowed to penetrate wall.
–3–3–	3 Hour Fire Wall (Building Separation)	3–hour Fire Wall construction per IBC 705. 3–hour door assembly. Fire dampers when ductwork is allowed to penetrate wall.
–4–4–	4 Hour Fire Wall (Building Separation)	4–hour Fire Wall construction per IBC 705. 3–hour door assembly. Fire dampers when ductwork is allowed to penetrate wall.
1 1	1 Hour Shaft (3 stories or less)	1–hour Fire Barrier wall construction. 1–Hour door assembly. Fire/Smoke Dampers.
2 2	2 Hour Shaft (4 stories or more)	2–hour Fire Barrier wall construction. 1 ½–Hour door assembly. Fire/Smoke Dampers.
	Sprinklered Incidental Use Areas	Wall construction to resist the passage of smoke from floor to floor to F.R. floor/ceiling assembly. Self–or automatic closing doors with no air transfer grilles.
– – –	Fire Partitions (dwelling/unit separation) (I–1 and R occupancies)	1–hour resistive rated walls. ¾–hour rated door assembly. Fire Damper
–o–o–	Smoke Barriers (1–2 and 1–3 occupancies)	1–hour resistive rated walls. 20–minute door assembly. Smoke Damper
198/39.6" 68"	Accumulated exit width at required exit (clear width)	Occupants / Required width Provided width
	Public Fire Hydrant (show distance from building)	
Conf/A3 65	Room Designation	Room type / Occupancy type Maximum Allowable occupants
40 80 140	Show accumulated occupant loads for complex exit paths (when applicable)	
	Other Symbols as required.	
15 / 3" 34	15 = Number of Ocupants 3" = Door Width Required 34 = Width of Door Opening	

OWNER SIGNATURE — 1 Feb 2024 DATE

Stephen Fenske
OFPM SIGNATURE — 24-02-06 DATE

Project No: 16004R22004

GLMV Architecture
1525 E. Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

SCOTT A. SMITH
LICENSED
4318
01.31.2024
KANSAS
ARCHITECT

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

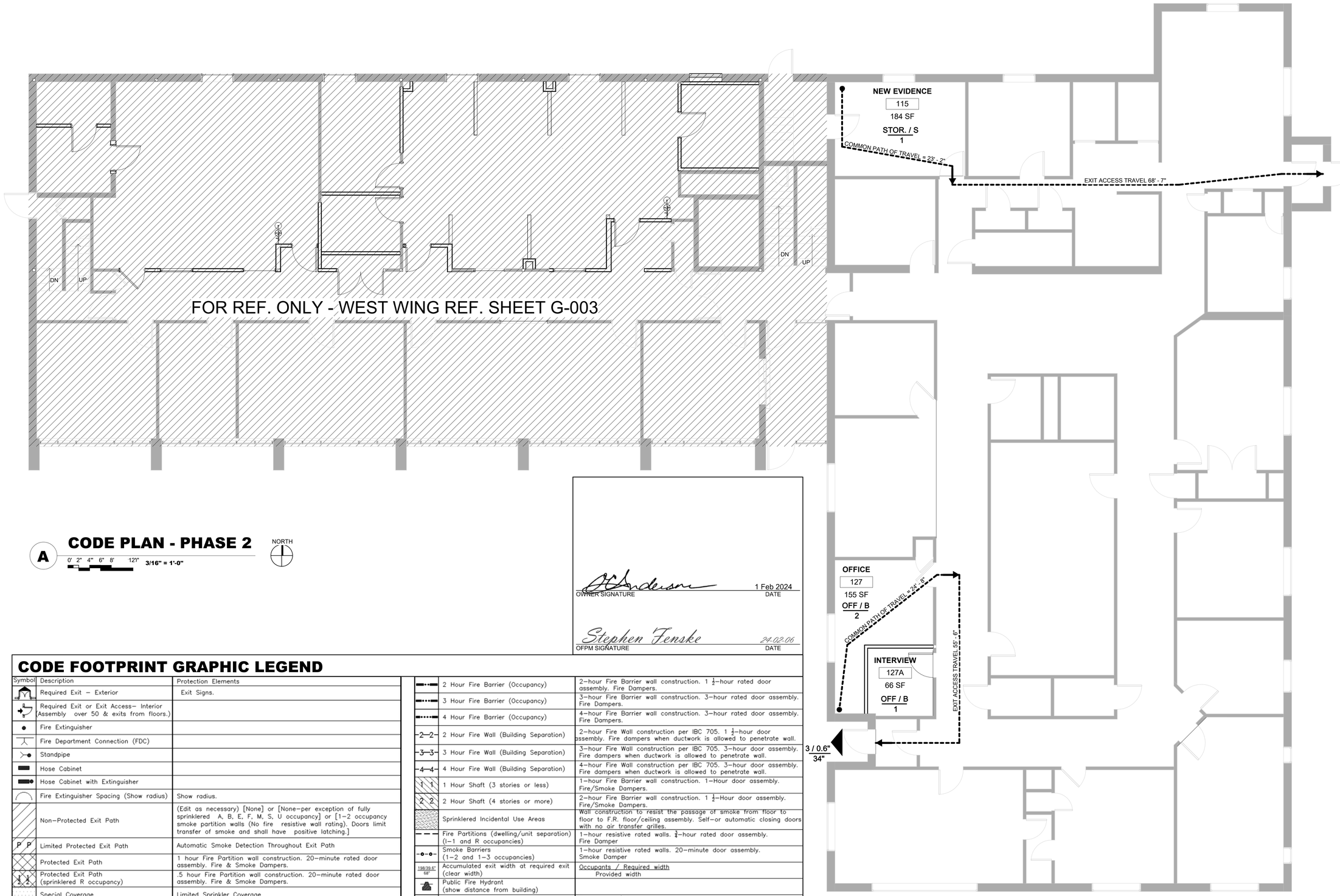
ISSUE DATE: 01-30-24 DRAWN BY: AAM CHECKED BY: SAS REV:

CODE PLAN - PHASE 2

A-014835

G003

ORIGINAL CONTRACT DOCUMENTS



A CODE PLAN - PHASE 2

0' 2" 4" 6" 8' 127"

3/16" = 1'-0"

NORTH

OWNER SIGNATURE — 1 Feb 2024 DATE

OFPM SIGNATURE — 24.02.06 DATE

CODE FOOTPRINT GRAPHIC LEGEND

Symbol	Description	Protection Elements
EXIT	Required Exit – Exterior	Exit Signs.
	Required Exit or Exit Access– Interior (Assembly over 50 & exits from floors.)	
	Fire Extinguisher	
	Fire Department Connection (FDC)	
	Standpipe	
	Hose Cabinet	
	Hose Cabinet with Extinguisher	
	Fire Extinguisher Spacing (Show radius)	Show radius.
	Non–Protected Exit Path	(Edit as necessary) [None] or [None–per exception of fully sprinklered A, B, E, F, M, S, U occupancy] or [1–2 occupancy smoke partition walls (No fire resistive wall rating), Doors limit transfer of smoke and shall have positive latching.]
P P	Limited Protected Exit Path	Automatic Smoke Detection Throughout Exit Path
	Protected Exit Path	1 hour Fire Partition wall construction. 20–minute rated door assembly. Fire & Smoke Dampers.
1 1 2 2	Protected Exit Path (sprinklered R occupancy)	.5 hour Fire Partition wall construction. 20–minute rated door assembly. Fire & Smoke Dampers.
	Special Coverage	Limited Sprinkler Coverage
1 1	1 Hour Exit Passageway	1–hour Fire Barrier wall construction. No openings other than required exit doors. 1–Hour door assembly.
2 2	2 Hour Exit Passageway	2–hour Fire Barrier wall construction. No openings other than required exit doors. 1½–Hour door assembly.
1 1	1 Hour Exit Enclosure (vertical) (stairwell – 3 stories or less)	1–hour Fire Barrier wall construction. no openings other than required exit doors. 1–Hour door assembly.
2 2	2 Hour Exit Enclosure (vertical) (stairwell – 4 stories or more)	2–hour Fire Barrier wall construction. No openings other than required exit doors. 1½–Hour door assembly.
	1 Hour Fire Barrier (Occupancy and Incidental Use Areas)	1–hour Fire Barrier wall construction. 3/4–hour rated door assembly. Fire Dampers. (Edit Fire Damper requirement as necessary for sprinklered buildings.)
	2 Hour Fire Barrier (Occupancy)	2–hour Fire Barrier wall construction. 1 ½–hour rated door assembly. Fire Dampers.
	3 Hour Fire Barrier (Occupancy)	3–hour Fire Barrier wall construction. 3–hour rated door assembly. Fire Dampers.
	4 Hour Fire Barrier (Occupancy)	4–hour Fire Barrier wall construction. 3–hour rated door assembly. Fire Dampers.
2 2	2 Hour Fire Wall (Building Separation)	2–hour Fire Wall construction per IBC 705. 1 ½–hour door assembly. Fire dampers when ductwork is allowed to penetrate wall.
3 3	3 Hour Fire Wall (Building Separation)	3–hour Fire Wall construction per IBC 705. 3–hour door assembly. Fire dampers when ductwork is allowed to penetrate wall.
4 4	4 Hour Fire Wall (Building Separation)	4–hour Fire Wall construction per IBC 705. 3–hour door assembly. Fire dampers when ductwork is allowed to penetrate wall.
1 1	1 Hour Shaft (3 stories or less)	1–hour Fire Barrier wall construction. 1–Hour door assembly. Fire/Smoke Dampers.
2 2	2 Hour Shaft (4 stories or more)	2–hour Fire Barrier wall construction. 1 ½–Hour door assembly. Fire/Smoke Dampers.
	Sprinklered Incidental Use Areas	Wall construction to resist the passage of smoke from floor to floor to F.R. floor/ceiling assembly. Self–or automatic closing doors with no air transfer grilles.
	Fire Partitions (dwelling/unit separation) (I–1 and R occupancies)	1–hour resistive rated walls. ¾–hour rated door assembly. Fire Damper
	Smoke Barriers (1–2 and 1–3 occupancies)	1–hour resistive rated walls. 20–minute door assembly. Smoke Damper
198/39.6" 68"	Accumulated exit width at required exit (clear width)	Occupants / Required width Provided width
	Public Fire Hydrant (show distance from building)	
Conf/A3 65	Room Designation	Room type / Occupancy type Maximum Allowable occupants
40 80 140	Show accumulated occupant loads for complex exit paths (when applicable)	
	Other Symbols as required.	

15 / 3" / 34 — 15 = Number of Ocupants; 3" = Door Width Required; 34 = Width of Door Opening

Project No:
16004R22004

GLMV Architecture
1535 Grand Blvd, Kansas City, MO 64108
Tel: (816) 255-5267
www.glmv.com

SCOTT A. SMITH
LICENSED
4318
01.31.2024
KANSAS
ARCHITECT

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

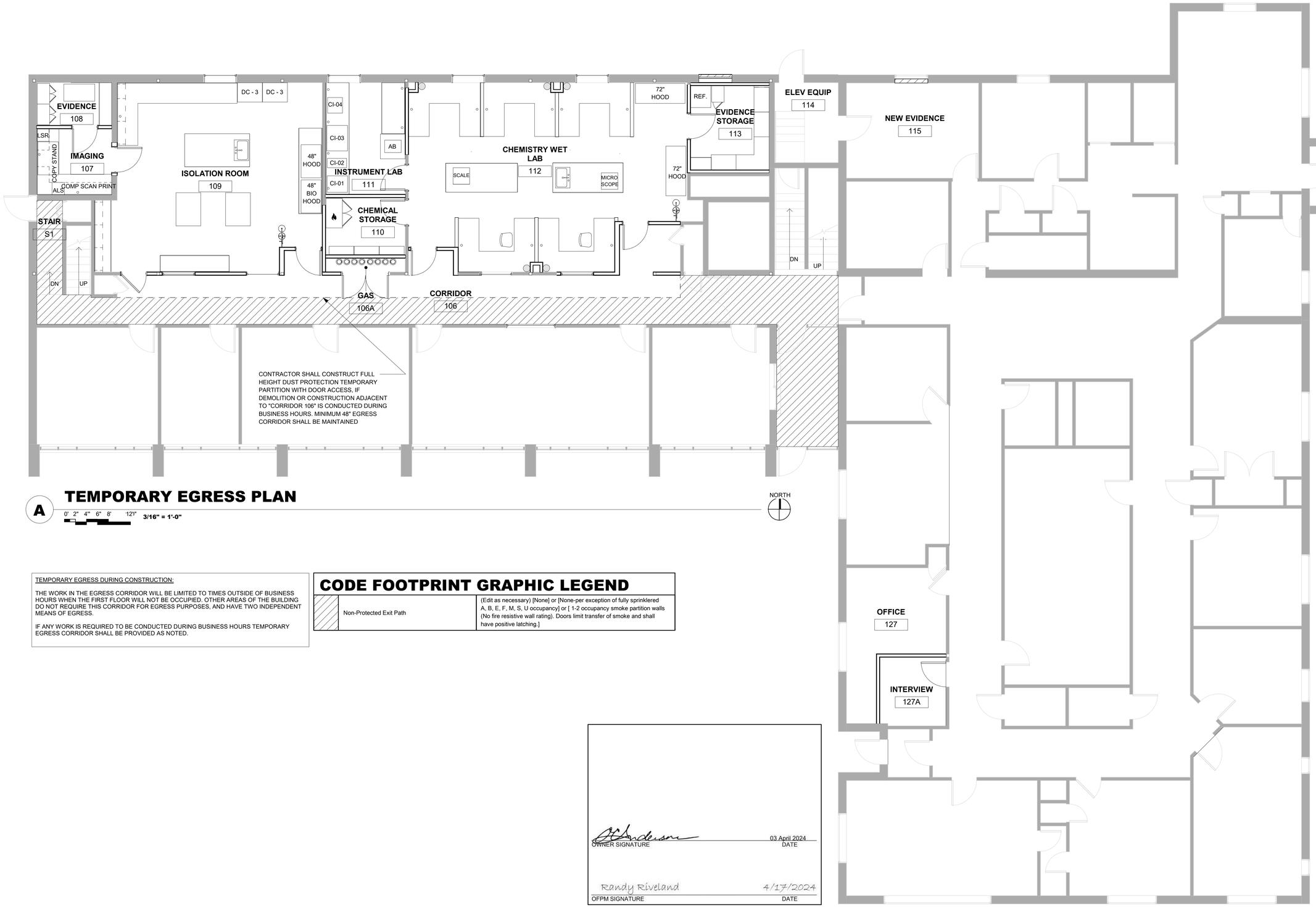
ISSUE DATE: 01-30-24 DRAWN BY: AAM CHECKED BY: SAS REV:

CODE PLAN - PHASE 2
FULL PLAN

A-014835

G004

ORIGINAL CONTRACT DOCUMENTS



A TEMPORARY EGRESS PLAN

0' 2" 4" 6" 8' 12" **3/16" = 1'-0"**

NORTH

TEMPORARY EGRESS DURING CONSTRUCTION:

THE WORK IN THE EGRESS CORRIDOR WILL BE LIMITED TO TIMES OUTSIDE OF BUSINESS HOURS WHEN THE FIRST FLOOR WILL NOT BE OCCUPIED. OTHER AREAS OF THE BUILDING DO NOT REQUIRE THIS CORRIDOR FOR EGRESS PURPOSES, AND HAVE TWO INDEPENDENT MEANS OF EGRESS.

IF ANY WORK IS REQUIRED TO BE CONDUCTED DURING BUSINESS HOURS TEMPORARY EGRESS CORRIDOR SHALL BE PROVIDED AS NOTED.

CODE FOOTPRINT GRAPHIC LEGEND

	Non-Protected Exit Path	(Edit as necessary) [None] or [None-per exception of fully sprinklered A, B, E, F, M, S, U occupancy] or [1-2 occupancy smoke partition walls (No fire resistive wall rating). Doors limit transfer of smoke and shall have positive latching.]

OWNER SIGNATURE — 03 April 2024 DATE

Randy Riveland — 4/17/2024

OFPM SIGNATURE — DATE

Project No:
16004R22004

GLMV Architecture
1535 SW Gage Blvd., Topeka, KS 66604-4021
Tel: (785) 295-5267
www.glmv.com

SCOTT A. SMITH LICENSED 4318 04.02.2024 KANSAS ARCHITECT

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

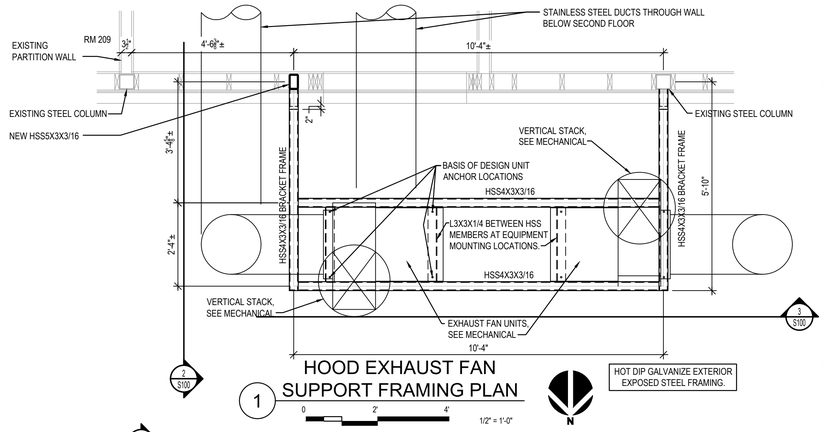
ISSUE DATE: 04-02-24 DRAWN BY: AAM CHECKED BY: SAS REV:

TEMPORARY EGRESS PLAN

A-014835

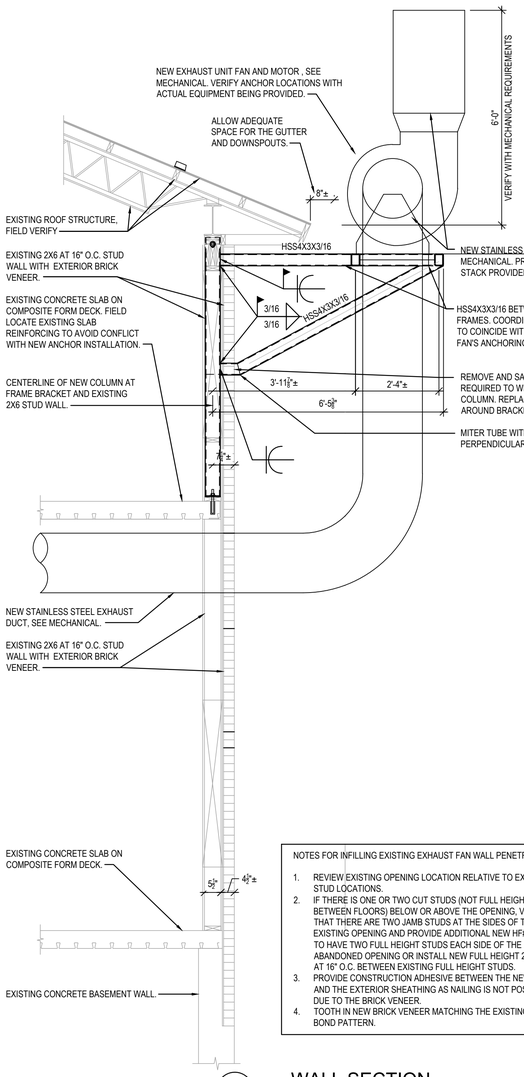
G005

ORIGINAL CONTRACT DOCUMENTS



HOOD EXHAUST FAN SUPPORT FRAMING PLAN

1 — 1/2" = 1'-0"

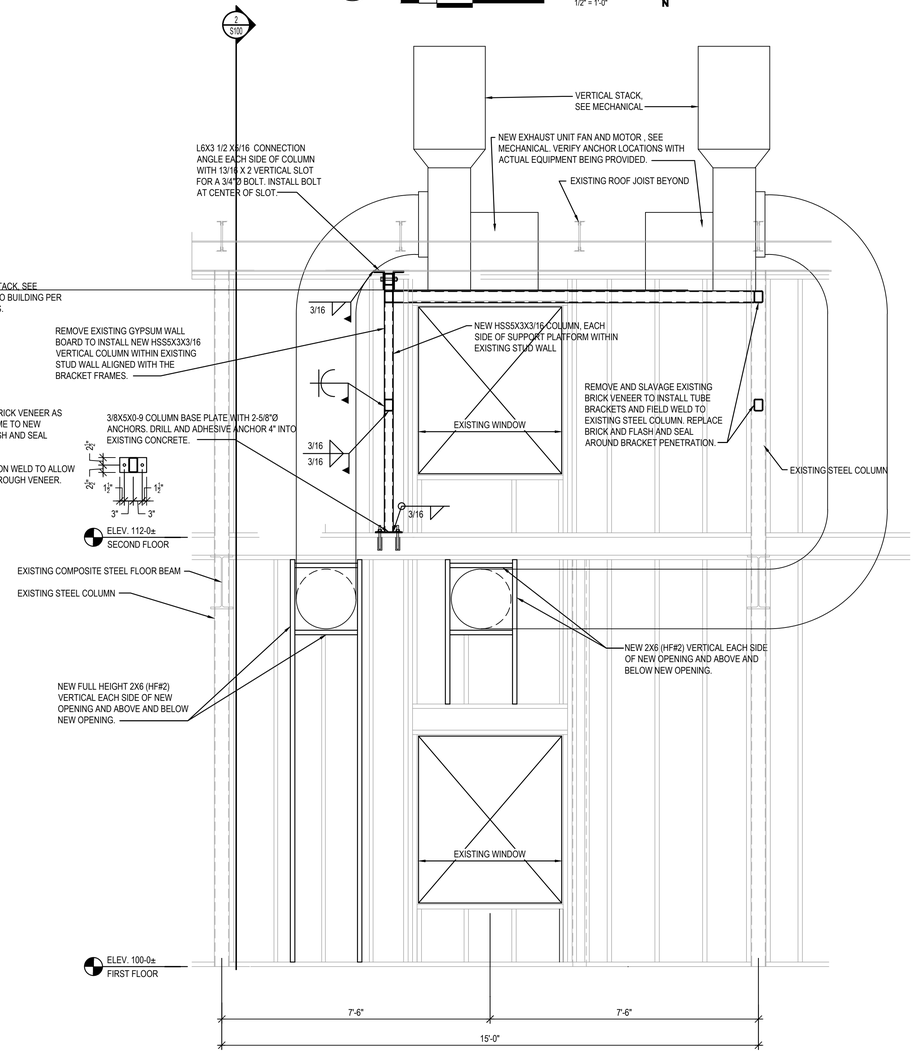


NOTES FOR INFILLING EXISTING EXHAUST FAN WALL PENETRATIONS:

1. REVIEW EXISTING OPENING LOCATION RELATIVE TO EXISTING STUD LOCATIONS.
2. IF THERE IS ONE OR TWO CUT STUDS (NOT FULL HEIGHT BETWEEN FLOORS) BELOW OR ABOVE THE OPENING, VERIFY THAT THERE ARE TWO JAMB STUDS AT THE SIDES OF THE EXISTING OPENING AND PROVIDE ADDITIONAL NEW HF#2 STUDS TO HAVE TWO FULL HEIGHT STUDS EACH SIDE OF THE ABANDONED OPENING OR INSTALL NEW FULL HEIGHT 2X6 (HF#2) AT 16" O.C. BETWEEN EXISTING FULL HEIGHT STUDS.
3. PROVIDE CONSTRUCTION ADHESIVE BETWEEN THE NEW STUDS AND THE EXTERIOR SHEATHING AS NAILING IS NOT POSSIBLE DUE TO THE BRICK VENEER.
4. TOOTH IN NEW BRICK VENEER MATCHING THE EXISTING RUNNING BOND PATTERN.

WALL SECTION

2 — 0, 2', 4' — 1/2" = 1'-0"



EXHAUST FAN FRAME ELEVATION

3 — 0, 2', 4' — 1/2" = 1'-0"

GENERAL STRUCTURAL NOTES

GENERAL CONTRACTOR SHALL REVIEW AND STAMP SHOP DRAWINGS BEFORE SUBMITTING FOR REVIEW.
FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS, AND CONDITIONS. NOTIFY THE ARCHITECT FOR DIRECTION IF THE ACTUAL EXISTING CONDITIONS DIFFER FROM THE CONDITIONS SHOWN OR IMPLIED ON THE DRAWINGS.
VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS.
SEE THE ARCHITECTURAL DRAWINGS FOR THE EXACT DIMENSIONS FOR OPENINGS IN THE WALLS, ROOF, AND FLOOR SYSTEMS.
VERIFY ALL MECHANICAL AND ELECTRICAL OPENING SIZES AND LOCATIONS WITH THE MECHANICAL AND ELECTRICAL CONTRACTORS.
NO PIPES, SLEEVES, OR ETC. SHALL PASS THROUGH THE BEAMS OR COLUMNS UNLESS INDICATED ON THE PLAN.
THE CONTRACTOR SHALL DESIGN, PROVIDE, AND MAINTAIN TEMPORARY BRACING, SHORING, GUYING, ETC. AND OTHER METHODS AS REQUIRED TO PREVENT ANY EXCESSIVE LOADING AND TO STABILIZE THE STRUCTURAL ELEMENTS DURING CONSTRUCTION. THESE METHODS SHALL REMAIN IN PLACE UNTIL ALL MEMBERS AND FINAL CONNECTIONS HAVE BEEN COMPLETED.
THE GENERAL, MECHANICAL, AND ELECTRICAL CONTRACTORS SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL INSERTS, ANCHORS, AND SUPPLEMENTAL FRAMING SYSTEMS REQUIRED FOR THE SUPPORT OF ARCHITECTURAL, MECHANICAL, AND ELECTRICAL SYSTEMS WHICH ARE NOT DETAILED ON THE STRUCTURAL DRAWINGS.
THE NEW EXHAUST FAN SUPPORT FRAME IS DESIGNED PER THE INTERNATIONAL BUILDING CODE - 2018 EDITION.

DESIGN LOADS

THE NEW EXHAUST FAN SUPPORT FRAME IS DESIGNED FOR THE FOLLOWING LOADS AND CRITERIA:

RISK CATEGORY:		II
DEAD:	WEIGHT OF MATERIALS AND CONSTRUCTION PLUS WEIGHT OF FIXED SERVICE EQUIPMENT	
	BASIS OF DESIGN EQUIPMENT WEIGHT:	300 POUNDS EACH FAN 150 POUNDS EACH DUCT STACK
LIVE:	ROOF LIVE LOAD:	20 PSF (NON-REDUCIBLE)
SNOW:	GROUND SNOW LOAD:	Pg = 20 PSF
	SNOW LOAD IMPORTANCE FACTOR:	Is = 1.0
	SNOW EXPOSURE FACTOR:	Ce = 1.0
	THERMAL FACTOR:	Ct = 1.2
	FLAT ROOF SNOW LOAD:	Pf = 17 PSF
	LOW-SLOPE ROOF MINIMUM SNOW LOAD:	Pm = 22 PSF
RAIN:	60 MINUTE INTENSITY:	i = 3.44 IN/HR
	15 MINUTE INTENSITY:	7.26 IN/HR
WIND:	BASIC WIND SPEED (3-SECOND GUST):	V = 110 MPH ULTIMATE Vasd = 85 MPH NOMINAL
	GROUND ELEVATION FACTOR:	Ke = 0.94
	WIND EXPOSURE CATEGORY:	B
	INTERNAL PRESSURE COEFFICIENT:	±0.18
SEISMIC:		SEISMIC IMPORTANCE FACTOR:Ie = 1.0
	SITE CLASS:	D
	MAPPED SPECTRAL RESPONSE ACCELERATIONS:	Ss = 0.083 S1 = 0.045
	SPECTRAL RESPONSE COEFFICIENTS:	Sds = 0.089 Sd1 = 0.073
	SEISMIC DESIGN CATEGORY:	B
	ANALYSIS PROCEDURE:	EQUIVALENT LATERAL FORCE
	BASIC SEISMIC-FORCE RESISTING SYSTEM:	STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
	RESPONSE MODIFICATION FACTOR:	R = 3
	SEISMIC RESPONSE COEFFICIENT:	Cs = .03
	DESIGN BASE SHEAR:	V = Cs X W

STRUCTURAL STEEL

STRUCTURAL STEEL SHALL MEET THE LATEST AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS."
THE TYPICAL STEEL FRAMING CONNECTION DETAILS SHOWN ON THE DRAWINGS REPRESENT THE GENERAL TYPE OF CONNECTION DETAIL EXPECTED TO BE IMPLEMENTED IN THE CONNECTION DESIGN, UNLESS SPECIFICALLY APPROVED OTHERWISE.
THE STEEL FABRICATOR AND DETAILER SHALL BE RESPONSIBLE FOR THE FINAL DETAILING OF ALL STEEL FRAMING CONNECTIONS WHICH ARE NOT EXPLICITLY DETAILED ON THE CONTRACT DOCUMENTS BASED ON THE DEFINED BEAM OR BRACING END REACTIONS OR MEMBER FORCES. THE SUBMITTED SHOP DRAWINGS SHALL CLEARLY SHOW AND NOTE ALL SHOP AND FIELD BOLTING AND WELDING REQUIREMENTS AND THE FINAL CONNECTION DETAILS.
STEEL FRAMING MEMBERS SHALL ONLY BE SPLICED AT LOCATIONS SHOWN ON THE DESIGN DRAWINGS OR AS SHOWN ON AND APPROVED ON THE SHOP DRAWINGS.
STEEL PLATES AND SHAPES SHALL MEET ASTM A36 EXCEPT WIDE FLANGE SECTIONS SHALL MEET ASTM A992, Fy = 50 KSI. STRUCTURAL STEEL TUBING SHALL MEET ASTM A500, GRADE C, Fy = 50 KSI AND STRUCTURAL PIPING SHALL MEET ASTM A53, GRADE B, Fy = 35 KSI.
THREADED STEEL RODS SHALL MEET ASTM A307, GRADE B; ASTM F1554, GRADE 36; OR AN APPROVED EQUAL OR GREATER STRENGTH THREADED ROD. THREADED RODS POST-INSTALLED IN CONCRETE SHALL BE THOROUGHLY CLEANED OF ALL SURFACE OILS.
PROVIDE 3/8" PLATE WASHERS ABOVE ALL OVERSIZED HOLES (HOLE DIAMETERS GREATER THAN 1/16" LARGER THAN ANCHOR DIAMETER) IN THE COLUMN BASE PLATES. PROVIDE STANDARD HOLE SIZE IN PLATE WASHERS.
PROVIDE STANDARD SIZE HOLES FOR ALL BOLTS AND ANCHORS IN STEEL FRAMING MEMBERS UNLESS NOTED OTHERWISE (1/16" LARGER HOLE THAN DIAMETER OF BOLT OR ANCHOR).
WHERE OVERSIZED HOLES ARE REQUIRED OR DESIRED IN STEEL FRAMING MEMBERS TO ACCOMMODATE THE DRILL BIT SIZE ON POST-INSTALLED ANCHORS, PROVIDE A 3/16" THICK PLATE WASHER AT EACH POST-INSTALLED ANCHOR LOCATION WITH A STANDARD HOLE OR 1/16" LARGER HOLE THAN THE ANCHOR DIAMETER IN THE CENTER OF THE PLATE WASHER. AFTER THE ANCHORS AND THE STEEL FRAMING MEMBERS HAVE BEEN INSTALLED, ADD THE PLATE WASHER ON EACH ANCHOR PRIOR TO INSTALLING THE NUT AND TIGHTENING THE ANCHOR. AFTER THE ANCHOR HAS BEEN PROPERLY TIGHTENED, WELD THE PLATE WASHER TO THE STEEL FRAMING MEMBER WITH A 3/16" FILLET WELD ALONG EACH VERTICAL EDGE OF THE PLATE WASHER.
WELDING SHALL CONFORM TO AWS D1.1, "STRUCTURAL WELDING CODE - STEEL". ALL WELDS SHALL BE AWS PREQUALIFIED WELDED JOINTS. NO UNAUTHORIZED WELDS WILL BE ACCEPTED.
E70XX ELECTRODES SHALL BE USED FOR ALL WELDING, UNLESS NOTED OTHERWISE.
HOT-DIP GALVANIZE STEEL FRAMING MEMBERS AS SPECIFIED WHERE SPECIFICALLY NOTED ON THE DRAWINGS. PROVIDE VENTING RELIEF HOLES AS REQUIRED BUT LOCATE ON THE BOTTOM SIDE OR AT SIMILAR NON-VISIBLE LOCATIONS WHERE THE MEMBERS ARE EXPOSED ON THE EXTERIOR OF THE BUILDING. SHOW OR NOTE THE LOCATIONS OF VENTING HOLES ON THE SHOP DRAWING SUBMITTAL.

POST-INSTALLED ANCHORS

POST-INSTALLED ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. HOLES SHALL BE DRILLED WITH THE REQUIRED BIT TYPE AND SIZE TO PROVIDE THE MINIMUM EMBEDMENT LENGTH SPECIFIED IN THE STRUCTURAL DRAWINGS. HOLES SHALL BE CLEANED PRIOR TO INSTALLING THE ANCHOR WITH THE BRUSH AND COMPRESSED AIR METHOD OR WITH THE MANUFACTURER'S PROPRIETARY DRILL BIT AND DUST EXTRACTION SYSTEM.
INSTALLATION OF POST-INSTALLED ANCHORS AND REINFORCING BARS SHALL BE PERFORMED BY PERSONNEL TRAINED AND CERTIFIED BY THE AMERICAN CONCRETE INSTITUTE/CONCRETE REINFORCING STEEL INSTITUTE OR TRAINED BY THE ANCHOR AND/OR ADHESIVE MANUFACTURER FOR THE TYPE BEING USED.
WHERE NEW POST-INSTALLED ANCHORS ARE BEING INSTALLED INTO EXISTING REINFORCED CONCRETE, THE CONTRACTOR SHALL LOCATE REINFORCING BARS USING NON-DESTRUCTIVE MEANS PRIOR TO DRILLING HOLES. NOTIFY THE ARCHITECT/ENGINEER IF CONFLICT EXIST BETWEEN NEW POST-INSTALLED ANCHORS AND EXISTING REINFORCING BARS.
POST-INSTALLED ANCHOR TYPES SHALL BE AS FOLLOWS:
EXPANSION ANCHORS INSTALLED INTO CONCRETE SHALL BE HILTI KWIK BOLT TZ2, SIMPSON STRONG-TIE STRONG-BOLT 2, OR DEWALT POWER-STUD+ SD2 ANCHORS OR AN APPROVED EQUAL.
ADHESIVE ANCHORS INSTALLED INTO CONCRETE SHALL USE HILTI HIT-HY 200 V3 ADHESIVE ANCHORING SYSTEM OR AN APPROVED EQUAL. HILTI HIT-RE 500 V3, SIMPSON STRONG-TIE AT-3G, SIMPSON STRONG-TIE SET-3G, DEWALT AC200+, AND DEWALT PURE 220+ ARE APPROVED EQUAL ANCHORING SYSTEMS FOR ADHESIVE ANCHORS OR REINFORCING BARS INSTALLED INTO CONCRETE.
SCREW ANCHORS INSTALLED INTO CONCRETE SHALL BE HILTI KH-EZ, SIMPSON STRONG-TIE TITEN HD, OR DEWALT SCREW BOLT+ ANCHORS OR AN APPROVED EQUAL.
A PISTON PLUG INJECTION PROCEDURE APPROVED BY THE ADHESIVE MANUFACTURER SHALL BE USED FOR THE INJECTION OF ADHESIVE INTO ALL HOLES GREATER THAN 10 INCHES IN DEPTH.
A PISTON PLUG INJECTION PROCEDURE APPROVED BY THE ADHESIVE MANUFACTURER SHALL BE USED FOR THE INJECTION OF ADHESIVE INTO ALL VERTICAL OVERHEAD HOLES. THE VERTICAL OVERHEAD ANCHORS SHALL BE SUPPORTED BY WEDGES OR OTHER SUITABLE MEANS APPROVED BY THE ADHESIVE MANUFACTURER UNTIL THE ADHESIVE IS FULLY CURED.
POST-INSTALLED EXPANSION ANCHORS MUST BE TIGHTENED TO THE ANCHOR MANUFACTURER'S RECOMMENDED INSTALLATION TORQUE.
THE INSTALLATION OF POST-INSTALLED ANCHORS AND REINFORCING BARS SHALL BE REVIEWED AND ACCEPTED BY THE FIELD TESTING AND INSPECTION AGENCY.

DWA
Dudley Williams and Associates, PA
230 Laura • Suite 200 • Wichita, KS 67211-1514
316-263-7591 • www.dwase.com

DWA Proj: 00000.00

S100 in I:\24-030\S-100 REV 05-30-2024 5/30/2024 [MJH] [1:24]

Project No: 16004R22004

GLMV Architecture
1323 E. 71st Street, Tulsa, OK 74136-5211
Tel: (316) 265-5367
www.glmv.com

MARK JAY HODGES
NUMBER 23007
OCTOBER 31, 2024
KANSAS
PROFESSIONAL ENGINEER

ADDENDUM 3 05-30-24

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

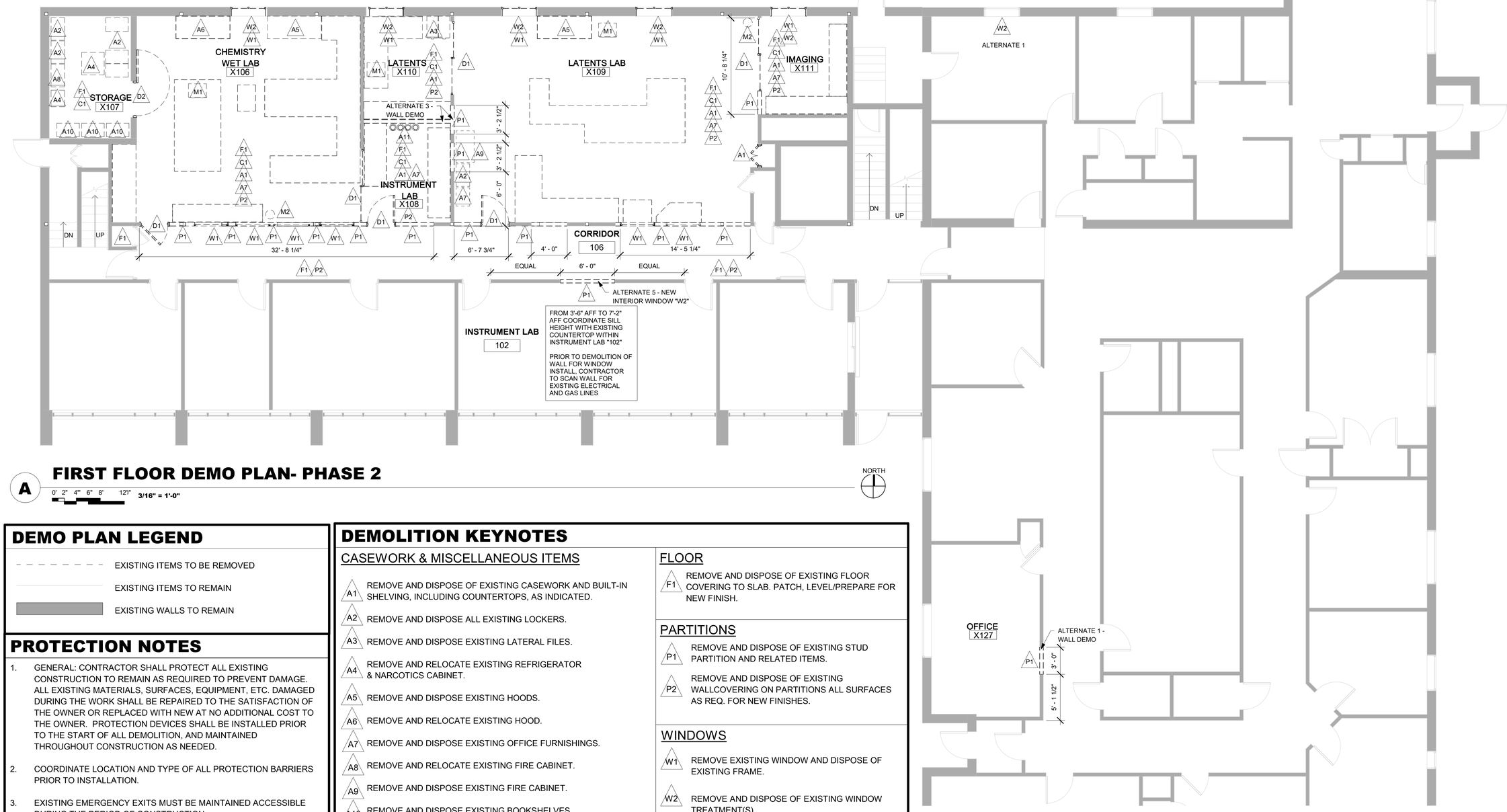
ISSUE DATE: 04-23-24
DRAWN BY: mh
CHECKED BY: bp
REV:

Exhaust Fan Support Framing

A-014835

S100

ORIGINAL CONTRACT DOCUMENTS



A FIRST FLOOR DEMO PLAN- PHASE 2

0' 2" 4" 6" 8" 12" 3/16" = 1'-0"

NORTH

DEMO PLAN LEGEND

- EXISTING ITEMS TO BE REMOVED
- EXISTING ITEMS TO REMAIN
- EXISTING WALLS TO REMAIN

PROTECTION NOTES

1. GENERAL: CONTRACTOR SHALL PROTECT ALL EXISTING CONSTRUCTION TO REMAIN AS REQUIRED TO PREVENT DAMAGE. ALL EXISTING MATERIALS, SURFACES, EQUIPMENT, ETC. DAMAGED DURING THE WORK SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER OR REPLACED WITH NEW AT NO ADDITIONAL COST TO THE OWNER. PROTECTION DEVICES SHALL BE INSTALLED PRIOR TO THE START OF ALL DEMOLITION, AND MAINTAINED THROUGHOUT CONSTRUCTION AS NEEDED.
2. COORDINATE LOCATION AND TYPE OF ALL PROTECTION BARRIERS PRIOR TO INSTALLATION.
3. EXISTING EMERGENCY EXITS MUST BE MAINTAINED ACCESSIBLE DURING THE PERIOD OF CONSTRUCTION.
4. CONTRACTOR SHALL SEAL ALL DOOR OPENINGS AND HVAC OPENINGS IN ALL AREAS OF DEMOLITION AND CONSTRUCTION PRIOR TO CUTTING, SANDING, ETC. TO PREVENT DUST MIGRATION TO ADJACENT ROOMS.
5. EXISTING STEEL COLUMNS AND STRUCTURE SHALL REMAIN. CONTRACTOR SHALL ALERT ARCHITECT IF LOCATIONS CONFLICT WITH PROPOSED NEW WORK.

GENERAL DEMOLITION NOTES

1. OWNER SHALL REMOVE ALL LABORATORY EQUIPMENT, FIXTURES, & MATERIALS PRIOR TO COMMENCEMENT OF DEMOLITION ACTIVITY.
2. OWNER SHALL REMOVE ALL STAFF/ OFFICE EQUIPMENT, MATERIALS, & BELONGINGS PRIOR TO COMMENCEMENT OF DEMOLITION ACTIVITIES.

DEMOLITION KEYNOTES

CASEWORK & MISCELLANEOUS ITEMS

- A1 REMOVE AND DISPOSE OF EXISTING CASEWORK AND BUILT-IN SHELVING, INCLUDING COUNTERTOPS, AS INDICATED.
- A2 REMOVE AND DISPOSE ALL EXISTING LOCKERS.
- A3 REMOVE AND DISPOSE EXISTING LATERAL FILES.
- A4 REMOVE AND RELOCATE EXISTING REFRIGERATOR & NARCOTICS CABINET.
- A5 REMOVE AND DISPOSE EXISTING HOODS.
- A6 REMOVE AND RELOCATE EXISTING HOOD.
- A7 REMOVE AND DISPOSE EXISTING OFFICE FURNISHINGS.
- A8 REMOVE AND RELOCATE EXISTING FIRE CABINET.
- A9 REMOVE AND DISPOSE EXISTING FIRE CABINET.
- A10 REMOVE AND DISPOSE EXISTING BOOKSHELVES.
- A11 REMOVE EXISTING GAS CYLINDERS. SURRENDER TO OWNER.

CEILING

- C1 REMOVE AND DISPOSE OF EXISTING ACOUSTICAL CEILING TILE SYSTEM & EXISTING LIGHT FIXTURES (RE: ELEC)

MECHANICAL/ PLUMBING

- M1 REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURE (SINK, RE: MEP.
- M2 REMOVE AND RELOCATE EXISTING EYE WASH STATION. PROTECT EYE WASH STATION PRIOR TO REINSTALLATION.

FLOOR

- F1 REMOVE AND DISPOSE OF EXISTING FLOOR COVERING TO SLAB. PATCH, LEVEL/PREPARE FOR NEW FINISH.

PARTITIONS

- P1 REMOVE AND DISPOSE OF EXISTING STUD PARTITION AND RELATED ITEMS.
- P2 REMOVE AND DISPOSE OF EXISTING WALLCOVERING ON PARTITIONS ALL SURFACES AS REQ. FOR NEW FINISHES.

WINDOWS

- W1 REMOVE EXISTING WINDOW AND DISPOSE OF EXISTING FRAME.
- W2 REMOVE AND DISPOSE OF EXISTING WINDOW TREATMENT(S).

DOORS/ FRAMES

- D1 REMOVE & DISPOSE OF EXISTING DOOR, FRAME AND HARDWARE.
- D2 REMOVE & SALVAGE EXISTING VAULT DOOR. PREPARE OPENING FOR NEW WORK.

B SECOND FLOOR TEMP. CONSTR. DEMO

0' 2" 4" 6" 8" 12" 3/16" = 1'-0"

WORK TO BE COMPLETED AT END OF THE PROJECT

Project No: 16004R22004

GLMV Architecture
1535 N. Custer, Wichita, KS 67214
Tel: (316) 265-5367
www.glmv.com

SCOTT A. SMITH LICENSED 4318 08.19.2024 KANSAS ARCHITECT

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

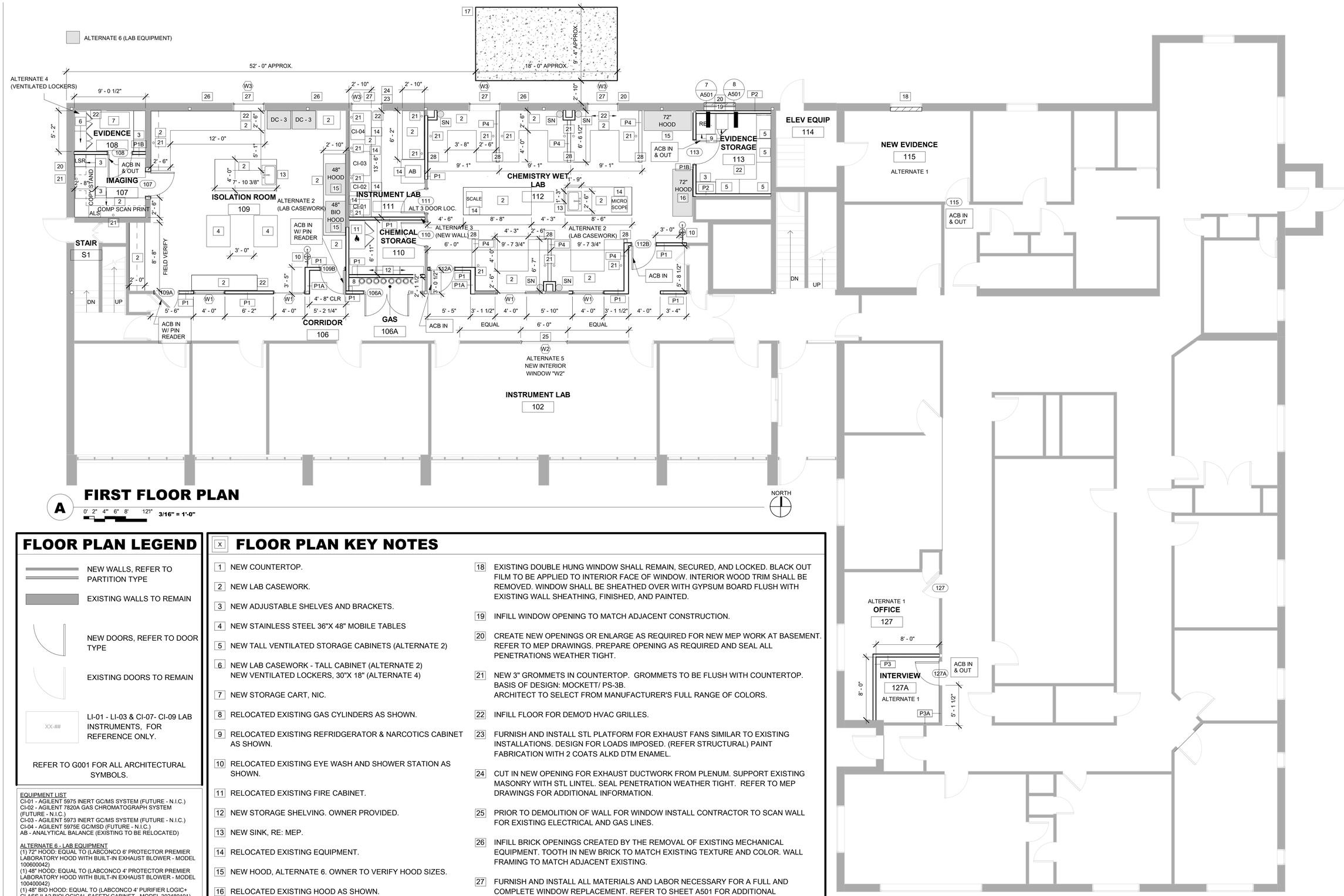
ISSUE DATE: 08-09-24 DRAWN BY: AAM CHECKED BY: SAS REV:

DEMO PLAN - PHASE 2 FULL PLAN

A-014835Rev

AD101

ORIGINAL CONTRACT DOCUMENTS



A FIRST FLOOR PLAN

0' 2" 4" 6" 8" 12" 3/16" = 1'-0"

FLOOR PLAN LEGEND

- NEW WALLS, REFER TO PARTITION TYPE
- EXISTING WALLS TO REMAIN
- NEW DOORS, REFER TO DOOR TYPE
- EXISTING DOORS TO REMAIN
- XX-## — LI-01 - LI-03 & CI-07- CI-09 LAB INSTRUMENTS, FOR REFERENCE ONLY.

REFER TO G001 FOR ALL ARCHITECTURAL SYMBOLS.

EQUIPMENT LIST
CI-01 - AGILENT 5975 INERT GC/MS SYSTEM (FUTURE - N.I.C.)
CI-02 - AGILENT 7820A GAS CHROMATOGRAPH SYSTEM (FUTURE - N.I.C.)
CI-03 - AGILENT 5973 INERT GC/MS SYSTEM (FUTURE - N.I.C.)
CI-04 - AGILENT 5975E GC/MSD (FUTURE - N.I.C.)
AB - ANALYTICAL BALANCE (EXISTING TO BE RELOCATED)

ALTERNATE 6 - LAB EQUIPMENT
(1) 72" HOOD: EQUAL TO (LABCONCO 6' PROTECTOR PREMIER LABORATORY HOOD WITH BUILT-IN EXHAUST BLOWER - MODEL 100600042)
(1) 48" HOOD: EQUAL TO (LABCONCO 4' PROTECTOR PREMIER LABORATORY HOOD WITH BUILT-IN EXHAUST BLOWER - MODEL 100400042)
(1) 48" BIO HOOD: EQUAL TO (LABCONCO 4' PURIFIER LOGIC+ CLASS II A2 BIOLOGICAL SAFETY CABINET - MODEL 302480101)
(2) DC-3 - 36" DRYER CABINETS: EQUAL TO (LABCONCO 3' PROTECTOR EVIDENCE DRYING CABINET WITH UV LIGHT - MODEL 3400000)
(5) SN - SNORKELS: EQUAL TO (MOVEX MB 1650-100)

X FLOOR PLAN KEY NOTES

1. NEW COUNTERTOP.
2. NEW LAB CASEWORK.
3. NEW ADJUSTABLE SHELVES AND BRACKETS.
4. NEW STAINLESS STEEL 36"X 48" MOBILE TABLES
5. NEW TALL VENTILATED STORAGE CABINETS (ALTERNATE 2)
6. NEW LAB CASEWORK - TALL CABINET (ALTERNATE 2)
   NEW VENTILATED LOCKERS, 30"X 18" (ALTERNATE 4)
7. NEW STORAGE CART, NIC.
8. RELOCATED EXISTING GAS CYLINDERS AS SHOWN.
9. RELOCATED EXISTING REFRIDGERATOR & NARCOTICS CABINET AS SHOWN.
10. RELOCATED EXISTING EYE WASH AND SHOWER STATION AS SHOWN.
11. RELOCATED EXISTING FIRE CABINET.
12. NEW STORAGE SHELVING. OWNER PROVIDED.
13. NEW SINK, RE: MEP.
14. RELOCATED EXISTING EQUIPMENT.
15. NEW HOOD, ALTERNATE 6. OWNER TO VERIFY HOOD SIZES.
16. RELOCATED EXISTING HOOD AS SHOWN.
17. MECHANICAL PAD TO BE 12" THICK CONCRETE W/ #5 @ 8" O.C. EACH WAY TOP AND BOTTOM, REFER TO MANUFACTURE'S INFORMATION FOR REQUIRED PAD SIZE AND CLEARANCES. REF MEP DRAWINGS TO COORDINATE LOCATION. PAD SHALL BE PLACED ON 8" PAD OF CRUSHED AGGREGATE (AB-3) OR APPROVED EQUAL).
18. EXISTING DOUBLE HUNG WINDOW SHALL REMAIN, SECURED, AND LOCKED. BLACK OUT FILM TO BE APPLIED TO INTERIOR FACE OF WINDOW. INTERIOR WOOD TRIM SHALL BE REMOVED. WINDOW SHALL BE SHEATHED OVER WITH GYPSUM BOARD FLUSH WITH EXISTING WALL SHEATHING, FINISHED, AND PAINTED.
19. INFILL WINDOW OPENING TO MATCH ADJACENT CONSTRUCTION.
20. CREATE NEW OPENINGS OR ENLARGE AS REQUIRED FOR NEW MEP WORK AT BASEMENT. REFER TO MEP DRAWINGS. PREPARE OPENING AS REQUIRED AND SEAL ALL PENETRATIONS WEATHER TIGHT.
21. NEW 3" GROMMETS IN COUNTERTOP. GROMMETS TO BE FLUSH WITH COUNTERTOP. BASIS OF DESIGN: MOCKETT/ PS-3B. ARCHITECT TO SELECT FROM MANUFACTURER'S FULL RANGE OF COLORS.
22. INFILL FLOOR FOR DEMO'D HVAC GRILLES.
23. FURNISH AND INSTALL STL PLATFORM FOR EXHAUST FANS SIMILAR TO EXISTING INSTALLATIONS. DESIGN FOR LOADS IMPOSED. (REFER STRUCTURAL) PAINT FABRICATION WITH 2 COATS ALKD DTM ENAMEL.
24. CUT IN NEW OPENING FOR EXHAUST DUCTWORK FROM PLENUM. SUPPORT EXISTING MASONRY WITH STL LINTEL. SEAL PENETRATION WEATHER TIGHT. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.
25. PRIOR TO DEMOLITION OF WALL FOR WINDOW INSTALL CONTRACTOR TO SCAN WALL FOR EXISTING ELECTRICAL AND GAS LINES.
26. INFILL BRICK OPENINGS CREATED BY THE REMOVAL OF EXISTING MECHANICAL EQUIPMENT. TOOTH IN NEW BRICK TO MATCH EXISTING TEXTURE AND COLOR. WALL FRAMING TO MATCH ADJACENT EXISTING.
27. FURNISH AND INSTALL ALL MATERIALS AND LABOR NECESSARY FOR A FULL AND COMPLETE WINDOW REPLACEMENT. REFER TO SHEET A501 FOR ADDITIONAL INFORMATION.
28. ELECTRICAL RACEWAY, REF. INTERIOR CASEWORK ELEVATIONS FOR PONY WALL INFORMATION AND ELEC. FOR POWER AND DATA.

Project No:
16004R22004

GLMV Architecture
1525 E. Douglas, Wichita, KS 67211
Tel: (316) 265-5267
www.glmv.com

SCOTT A. SMITH
LICENSED
4318
08.19.2024
KANSAS
ARCHITECT

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

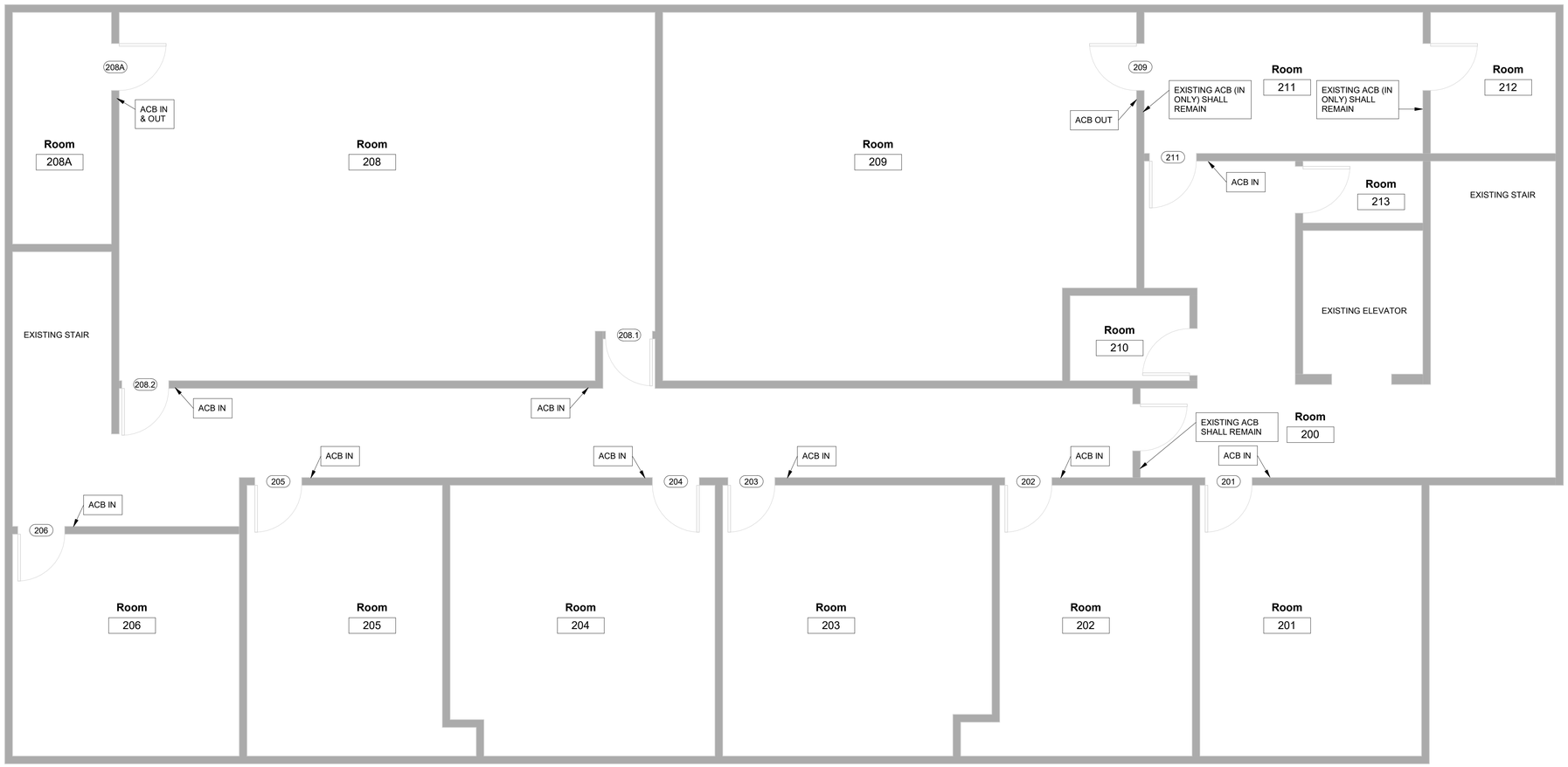
ISSUE DATE: 08-09-24 DRAWN BY: AAM CHECKED BY: SAS REV:

FIRST FLOOR PLAN - PHASE 2 FULL PLAN

A-014835Rev

A101

ORIGINAL CONTRACT DOCUMENTS



SECOND FLOOR PLAN - PHASE 2

A

0' 2" 4" 6" 8' 12"

1/4" = 1'-0"

NORTH

NOTES:
HEAD END LOCATED ON SOUTH WALL OF 212
ACB READERS CURRENTLY EXIST ON 200 (HALLWAY), 209 AND 212 - IN ONLY
ADD "OUT" READER TO 209

CONTACT FOR THE ACB INSTALLATION:

MARK RAU
P1 GROUP INC
CLIENT DEVELOPMENT MANAGER
(913) 529-5000 WORK
(913) 275-5669 WORK
(785) 925-0282 MOBILE
mark.rau@p1group.com
13605 W 96th Terrace
Lenexa, KS 66215
www.p1group.com

Project No:
16004R22004

GLMV Architecture
1535 N. Waterfront Parkway, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

SCOTT A. SMITH
LICENSED
4518
08.19.2024
KANSAS
ARCHITECT

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

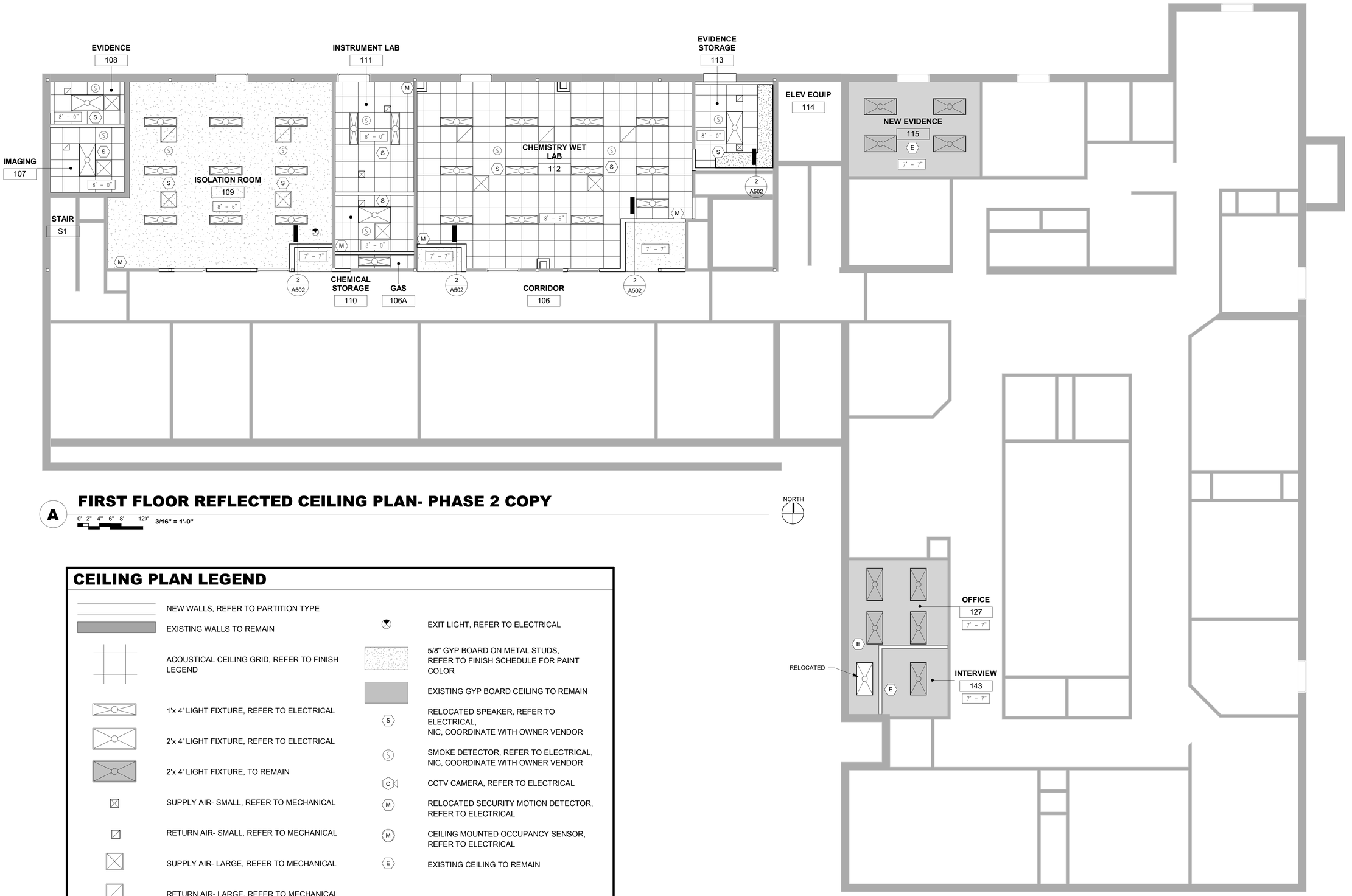
ISSUE DATE: 08-09-24 DRAWN BY: AAM CHECKED BY: SAS REV:

SECOND FLOOR PLAN - PHASE 2

A-014835Rev

A102

ORIGINAL CONTRACT DOCUMENTS



A FIRST FLOOR REFLECTED CEILING PLAN- PHASE 2 COPY

0" 2" 4" 6" 8" 12" 3/16" = 1'-0"

NORTH

CEILING PLAN LEGEND

- NEW WALLS, REFER TO PARTITION TYPE
- EXISTING WALLS TO REMAIN
- ACOUSTICAL CEILING GRID, REFER TO FINISH LEGEND
- 1'x 4' LIGHT FIXTURE, REFER TO ELECTRICAL
- 2'x 4' LIGHT FIXTURE, REFER TO ELECTRICAL
- 2'x 4' LIGHT FIXTURE, TO REMAIN
- SUPPLY AIR- SMALL, REFER TO MECHANICAL
- RETURN AIR- SMALL, REFER TO MECHANICAL
- SUPPLY AIR- LARGE, REFER TO MECHANICAL
- RETURN AIR- LARGE, REFER TO MECHANICAL
- EXIT LIGHT, REFER TO ELECTRICAL
- 5/8" GYP BOARD ON METAL STUDS, REFER TO FINISH SCHEDULE FOR PAINT COLOR
- EXISTING GYP BOARD CEILING TO REMAIN
- (S) RELOCATED SPEAKER, REFER TO ELECTRICAL, NIC, COORDINATE WITH OWNER VENDOR
- (S) SMOKE DETECTOR, REFER TO ELECTRICAL, NIC, COORDINATE WITH OWNER VENDOR
- (C) CCTV CAMERA, REFER TO ELECTRICAL
- (M) RELOCATED SECURITY MOTION DETECTOR, REFER TO ELECTRICAL
- (M) CEILING MOUNTED OCCUPANCY SENSOR, REFER TO ELECTRICAL
- (E) EXISTING CEILING TO REMAIN

REFLECTED CEILING PLAN NOTES

1. REFER TO 2/A502 FOR SOFFIT DETAIL TYPICAL

Project No:
16004R22004

GLMV Architecture
1535 Grand Blvd, Kansas City, MO 64108
Tel: (314) 255-5267
www.glmv.com

SCOTT A. SMITH
LICENSED
4318
08.19.2024
KANSAS
ARCHITECT

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

ISSUE DATE: 08-09-24 DRAWN BY: AAM CHECKED BY: SAS REV:

REFLECTED CEILING PLAN - PHASE 2 FULL PLAN

A-014835Rev

A111

ORIGINAL CONTRACT DOCUMENTS

DOOR SCHEDULE LEGEND:

MATERIAL LEGEND
HM - HOLLOW METAL (STEEL)
WD - SOLID CORE WOOD

FINISH LEGEND
PT - PAINT
ST - STAIN
UNF - UNFINISHED

GENERAL NOTES
A. DOOR OPENING FORCE SHALL COMPLY WITH ANSI A117.86, SECTION 4.13.11.
B. ALL HOLLOW METAL DOORS AND FRAMES TO BE PAINTED.
C. ALL DOOR LEAF THICKNESSES ARE TO BE 1-3/4" U.N.O.

DOOR COMMENTS:

1. CARD READER ACCESS. RE: ELECTRICAL DRAWINGS.
2. NEW DOOR/ FRAME IN EXISTING PARTITION, DETAILS LISTED ARE SIMILAR.
3. NEW DOOR / FRAME - ALTERNATE 1

DOOR HARDWARE SET COMMENTS:

1. BY OTHERS
2. ACTIVATION MOMENTARILY DEACTIVATES ELECTRIC STRIKE FOR A PERIOD OF 10 SECONDS
3. MOUNTED IN CEILING 6" FROM WALL
4. MOUNTED CENTERED ON DOOR FRAME HEAD
5. SHUNT DOOR POSITION SWITCH
6. MONITOR FOR HOLD AND FORCED OPEN STATUS
7. QUANTITY AS REQUIRED
8. LIMIT OPENING TO 90°

WINDOW SCHEDULE LEGEND:

MATERIAL LEGEND
HM - HOLLOW METAL (STEEL)

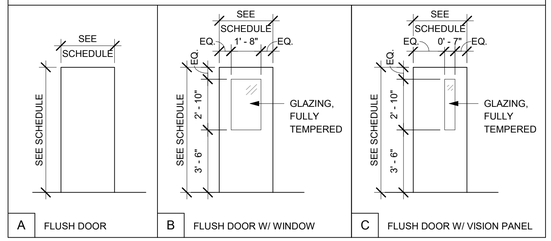
FINISH LEGEND
PT - PAINT

GLASS LEGEND
01 = 1/4" GLASS, FULLY TEMPERED.
02 = 1" INSULATED GLAZING CONSISTING OF A 1/4" THICK FULLY TEMPERED, EXTERIOR PANE AND A 1/4" CLEAR INTERIOR PANE CONSISTING OF (2) 1/8" THICK PANES OF CLEAR PLATE GLAZING WITH A PVB INTERLAYER.

GENERAL NOTES
A. ALL HOLLOW METAL WINDOW FRAMES ARE TO BE PAINTED.

DOOR TYPES

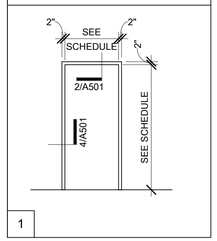
SCALE: 1/4" = 1'-0"



A FLUSH DOOR
B FLUSH DOOR W/ WINDOW
C FLUSH DOOR W/ VISION PANEL

FRAME TYPES

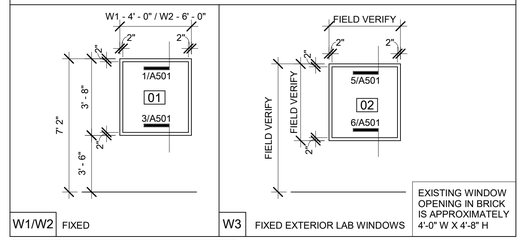
SCALE: 1/4" = 1'-0"



1

WINDOW TYPES

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



W1/W2 FIXED

W3 FIXED EXTERIOR LAB WINDOWS

EXISTING WINDOW OPENING IN BRICK IS APPROXIMATELY 4'-0" W X 4'-8" H

ALTERNATE 5 - NEW INTERIOR WINDOW "W2"

DOOR SCHEDULE

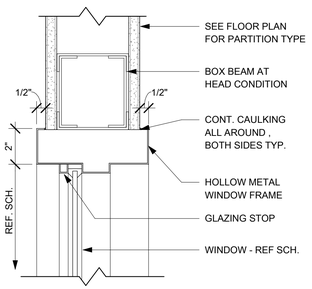
DOOR NO.	DOOR						FRAME			DETAILS			ACCESS CONTROL	HARDWARE	COMMENTS
	DOOR TYPE	PAIR	WIDTH	HEIGHT	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	SILL			
106A	A	Yes	6' 0"	7' 0"	WD	ST	1	HM	PT	2/A501	4/A501	-	1	4	
107	A		3' 0"	7' 0"	WD	ST	1	HM	PT	2/A501	4/A501	-	1	3	
108	A		3' 0"	7' 0"	WD	ST	1	HM	PT	2/A501	4/A501	-	2	1	
109A	B		3' 0"	7' 0"	WD	ST	1	HM	PT	2/A501	4/A501	-	3	1	1
109B	B		3' 0"	7' 0"	WD	ST	1	HM	PT	2/A501	4/A501	-	3	1	1
110	A		3' 0"	7' 0"	WD	ST	1	HM	PT	2/A501	4/A501	-	-	2	2
111	B		3' 0"	7' 0"	WD	ST	1	HM	PT	2/A501	4/A501	-	-	2	2
112A	B		3' 0"	7' 0"	WD	ST	1	HM	PT	2/A501	4/A501	-	1	1	1
112B	B		3' 0"	7' 0"	WD	ST	1	HM	PT	2/A501	4/A501	-	1	1	1
113	A		3' 0"	7' 0"	WD	ST	1	HM	PT	2/A501	4/A501	-	2	1	
115	EXISTING		EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	2	1	1
127	EXISTING		EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	-	EXISTING	EXISTING
127A	C		3' 0"	7' 0"	WD	ST	1	HM	PT	2/A501	4/A501	-	2	1	1,2,3
201	EXISTING		EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	1	EXISTING	EXISTING
202	EXISTING		EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	1	EXISTING	EXISTING
203	EXISTING		EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	1	EXISTING	EXISTING
204	EXISTING		EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	1	EXISTING	EXISTING
205	EXISTING		EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	1	EXISTING	EXISTING
206	EXISTING		EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	1	EXISTING	EXISTING
208.1	EXISTING		EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	1	EXISTING	EXISTING
208.2	EXISTING		EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	1	EXISTING	EXISTING
208A	EXISTING		EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	2	EXISTING	EXISTING
209	EXISTING		EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	4	EXISTING	EXISTING
211	EXISTING		EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	1	EXISTING	EXISTING

ACCESS CONTROL
1 - IN ONLY
2 - IN & OUT
3 - IN W/ LOCKDOWN READER
4 - ADD OUT READER

DOOR HARDWARE SETS

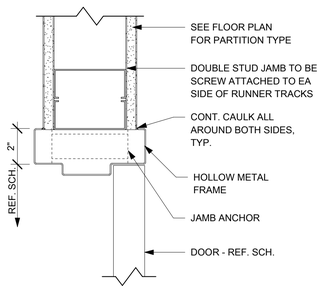
HARDWARE SET	QTY.	DESCRIPTION	MODEL NO.	FINISH	MANUFACTURER	COMMENTS
1	1	ACCESS CONTROL	TBD	BLACK	TBD	1
	3	BUTT HINGE	BB1279-NRP (4.5 x 4.5)	US26D	HAGAR	
	1	CLOSER	4040XP-EDA	689	LCN	
	1	DOOR POSITION SWITCH	1078N-C	BLACK	GE SECURITY	1, 6
	1	ELECTRIC STRIKE	6211	US32D	VON DUPRIN	1
	1	REQUEST TO EXIT SENSOR	DS-160	WHITE	BOSCH	1, 2, 3, 5
	*	SILENCER	SR64	BLACK	IVES	7
	1	STOREROOM LOCKSET	L9080-03A	US26D	SCHLAGE	
	1	WALL STOP	WS406CVX	US26D	IVES	
2	3	BUTT HINGE	BB1279-NRP (4.5 x 4.5)	US26D	HAGAR	
	*	SILENCER	SR64	BLACK	IVES	7
	1	PASSAGE LOCKSET	ND10S-F75-TLR	US26D	SCHLAGE	
	1	WALL STOP	WS406CVX	US26D	IVES	
3	1	ACCESS CONTROL	TBD	BLACK	TBD	1
	3	BUTT HINGE	BB1279-NRP (4.5 x 4.5)	US26D	HAGAR	
	1	CLOSER	4040XP-EDA	689	LCN	
	1	DOOR POSITION SWITCH	1078N-C	BLACK	GE SECURITY	1, 6
	1	ELECTRIC STRIKE	6211	US32D	VON DUPRIN	1
	1	REQUEST TO EXIT SENSOR	DS-160	WHITE	BOSCH	1, 2, 3, 5
	*	SILENCER	SR64	BLACK	IVES	7
	1	STOREROOM LOCKSET	L9080-03A	US26D	SCHLAGE	
	1	OVERHEAD STOP	704S-SB-1	US26D	GLYNN-JOHNSON	
4	1	ACCESS CONTROL	TBD	BLACK	TBD	
	6	BUTT HINGE	BB1279-NRP (4.5 x 4.5)	US26D	HAGAR	
	1	DOOR POSITION SWITCH	1078N-C	BLACK	GE SECURITY	1, 6
	1	ELECTRIC STRIKE	6211	US32D	VON DUPRIN	1
	1	REQUEST TO EXIT SENSOR	DS-160	WHITE	BOSCH	1, 2, 3, 5
	*	SILENCER	SR64	BLACK	IVES	7
	1	STOREROOM LOCKSET	L9080-03A	US26D	SCHLAGE	
	1	DUMMY TRIM	L9176-03A	US26D	SCHLAGE	
	2	FLUSH BOLTS	FB358	US26D	IVES	
	1	DUSTPROOF STRIKE	DP2	US26D	IVES	
	2	OVERHEAD STOP	704S-SB-1	US26D	GLYNN-JOHNSON	

ALL NEW AND/OR EXISTING SECURITY / ACCESS CONTROL DEVICES AND WIRING SHALL BE PROVIDED BY EXISTING BUILDING ACCESS CONTROL VENDOR.
P1 GROUP, INC.
MARK RAU - mark.rau@p1group.com
(913) 529-5000



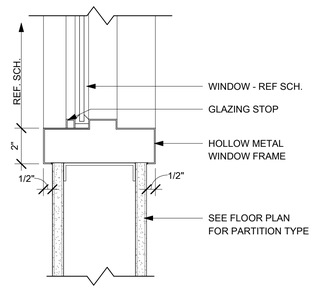
1 WINDOW HEAD DTL

0' 2" 4" 6" 8" 12" 3" = 1'-0"



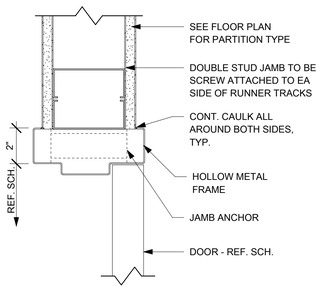
2 DOOR FRAME HEAD DTL

0' 2" 4" 6" 8" 12" 3" = 1'-0"



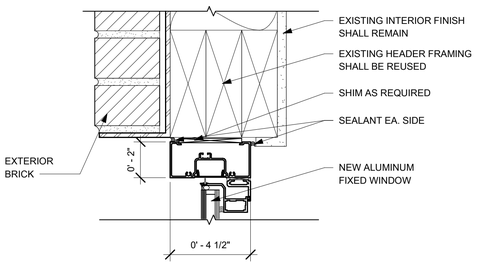
3 WINDOW FRAME SILL DTL

0' 2" 4" 6" 8" 12" 3" = 1'-0"



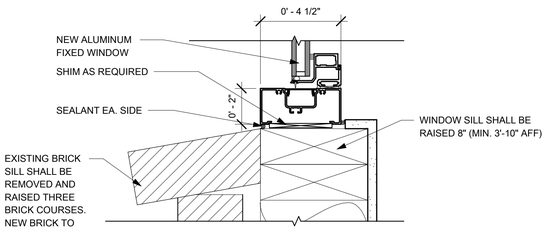
4 DOOR FRAME JAMB DTL

0' 2" 4" 6" 8" 12" 3" = 1'-0"



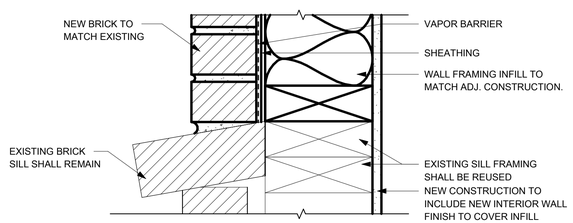
5 GLAZING DETAIL - FIXED HEAD

0' 2" 4" 6" 8" 12" 3" = 1'-0"



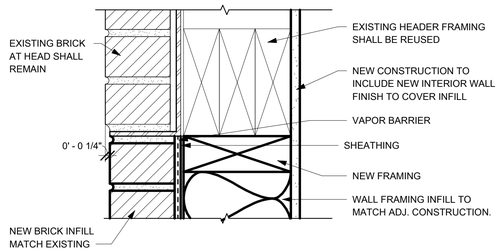
6 GLAZING DETAIL - FIXED SILL

0' 2" 4" 6" 8" 12" 3" = 1'-0"



7 EXISTING WINDOW OPENING INFILL - SILL

0' 2" 4" 6" 8" 12" 3" = 1'-0"



8 EXISTING WINDOW OPENING INFILL - HEAD

0' 2" 4" 6" 8" 12" 3" = 1'-0"

GLMV Architecture
1535 Grand Blvd. Kansas City, MO 64108
Tel: (816) 255-5267
www.glmv.com

Project No:
16004R22004

SCOTT A. SMITH
LICENSED
4318
08.19.2024
KANSAS
ARCHITECT

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

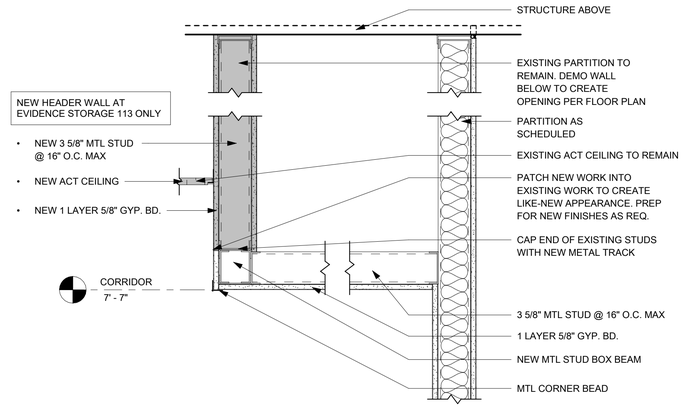
ISSUE DATE: 08-09-24 DRAWN BY: AAM CHECKED BY: SAS REV:

DOOR & WINDOW SCHED. & DETAILS - PHASE 2

A-014835Rev

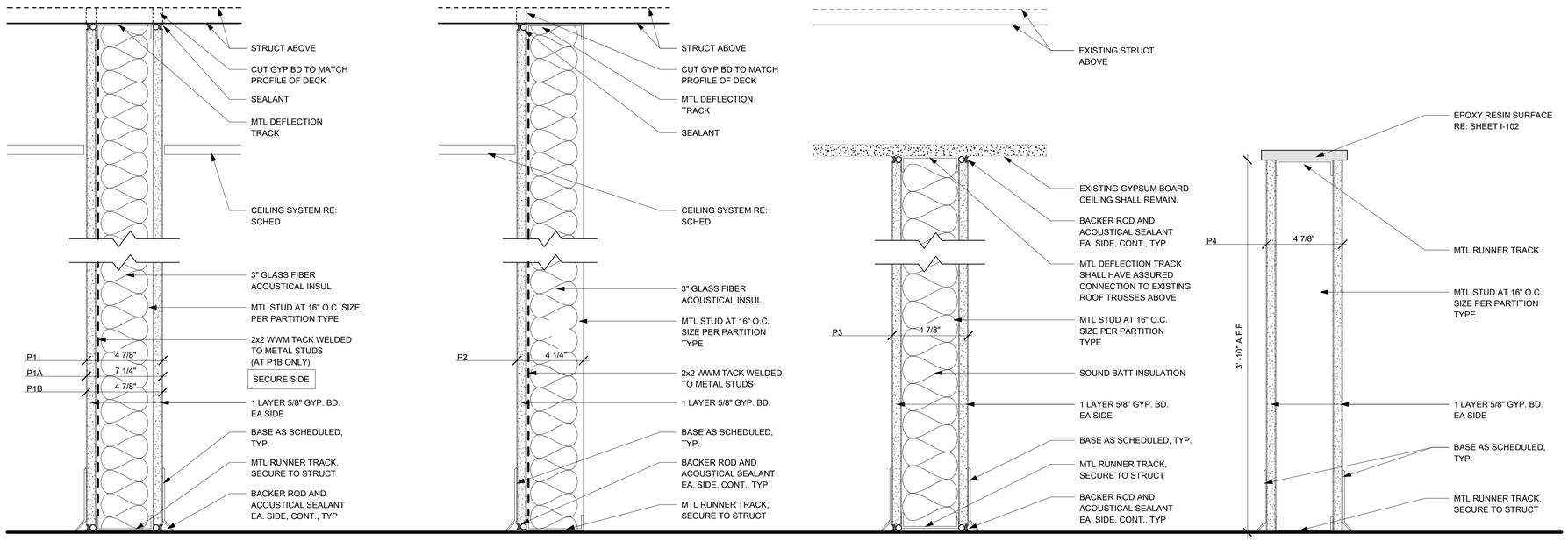
A501

ORIGINAL CONTRACT DOCUMENTS



2 TYP. SOFFIT DETAL

0' 2" 4" 6" 8" 12" **1 1/2" = 1'-0"**



P1 SERIES PARTITION TYPE	
P1	3 5/8" 20 GA. MTL STUDS NOT RATED, W/ INSUL
P1A	6" 20 GA. MTL STUDS NOT RATED, W/ INSUL
P1B	3 5/8" 20 GA. MTL STUDS NOT RATED, W/ INSUL & WWM FOR SECURITY

P2 SERIES PARTITION TYPE	
P2	3 5/8" 20 GA. MTL STUDS NOT RATED W/ INSUL

P3 SERIES PARTITION TYPE	
P3	3 5/8" 20 GA. MTL STUDS NOT RATED, W/ INSUL.
P3A	EXISTING WALL STUDS SHALL REMAIN, SHEATHING ON INSIDE OF WALL IN ROOM "127A SHALL BE REMOVED. NEW SOUND BATT INSULATION SHALL BE INSTALL. NEW GYPSUM BOARD WALL SHEATHING TO BE INSTALLED, TAPED AND FINISHED.

P4 SERIES PARTITION TYPE	
P4	LOW WALL/POWER WALL - 3 5/8" 20 GA STUDS

1 PARTITION TYPES

0' 2" 4" 6" 8" 12" **3" = 1'-0"**

Project No:
16004R22004

GLMV Architecture
1535 Grand Blvd, Kansas City, MO 64108
Tel: (314) 255-5267
www.glmv.com

SCOTT A. SMITH
LICENSED
4318
08.19.2024
KANSAS
ARCHITECT

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

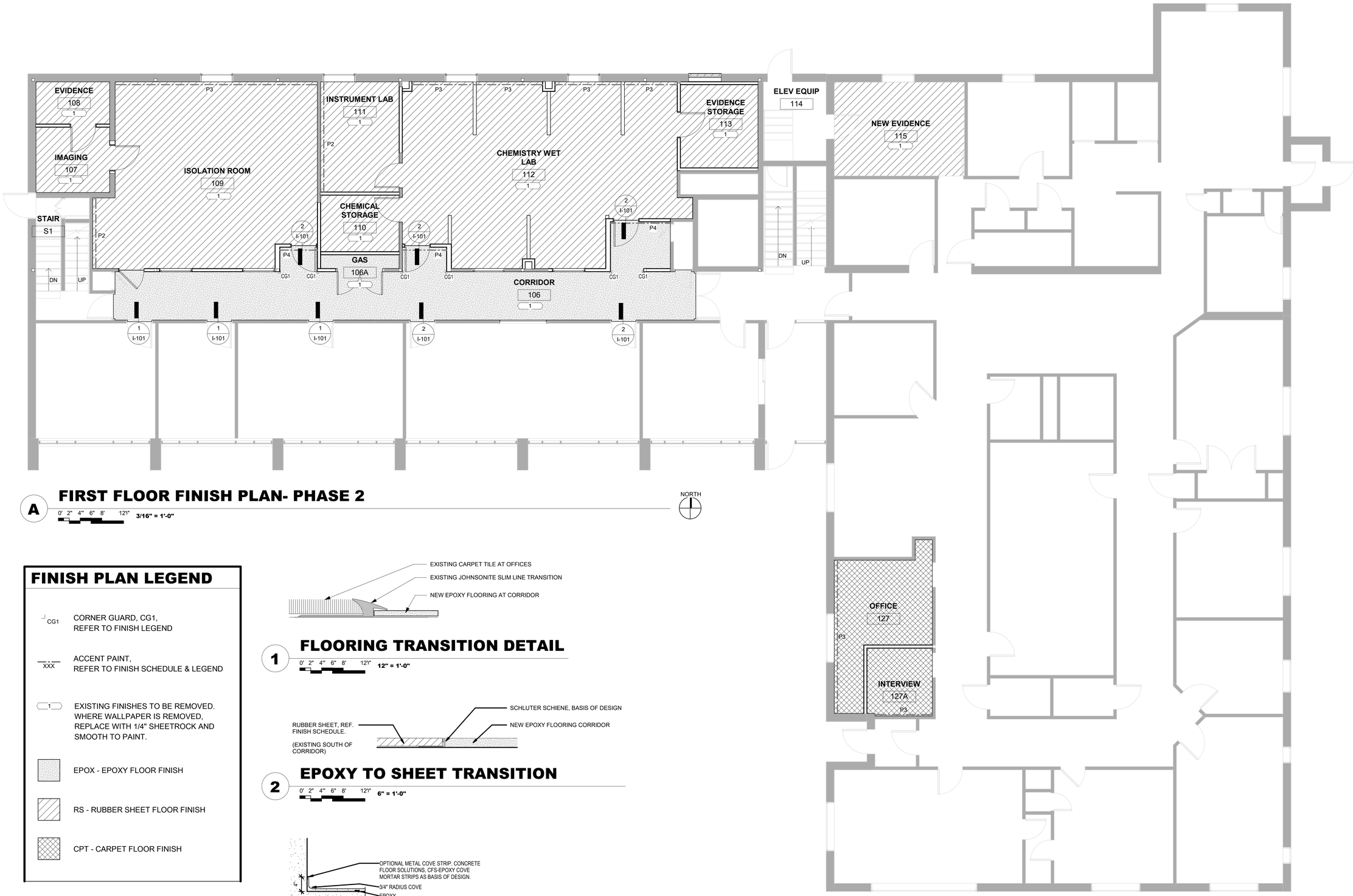
ISSUE DATE: 08-09-24 DRAWN BY: AAM CHECKED BY: SAS REV:

PARTITION TYPES & DETAILS - PHASE 2

A-014835Rev

A502

ORIGINAL CONTRACT DOCUMENTS



A FIRST FLOOR FINISH PLAN- PHASE 2

0' 2" 4" 6" 8" 12" 3/16" = 1'-0"

NORTH

FINISH PLAN LEGEND

- CG1 — CORNER GUARD, CG1, REFER TO FINISH LEGEND
- XXX — ACCENT PAINT, REFER TO FINISH SCHEDULE & LEGEND
- 1 — EXISTING FINISHES TO BE REMOVED. WHERE WALLPAPER IS REMOVED, REPLACE WITH 1/4" SHEETROCK AND SMOOTH TO PAINT.
- EPOX - EPOXY FLOOR FINISH
- RS - RUBBER SHEET FLOOR FINISH
- CPT - CARPET FLOOR FINISH

1 FLOORING TRANSITION DETAIL

0' 2" 4" 6" 8" 12" 12" = 1'-0"

2 EPOXY TO SHEET TRANSITION

0' 2" 4" 6" 8" 12" 6" = 1'-0"

3 EPOXY COVE BASE

0' 2" 4" 6" 8" 12" 1" = 1'-0"

Project No: 16004R22004

GLMV Architecture
1535 Grand Boulevard, Kansas City, MO 64108
Tel: (816) 255-5267
www.glmv.com

SCOTT A. SMITH
LICENSED
4318
08.19.2024
KANSAS
ARCHITECT

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

ISSUE DATE: 08-09-24 DRAWN BY: AM CHECKED BY: KB REV:

FLOOR FINISH PLAN & DETAILS - PHASE 2 FULL PLAN

A-014835Rev

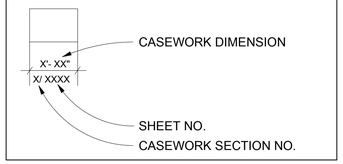
I-101

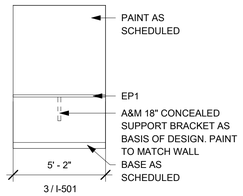
ORIGINAL CONTRACT DOCUMENTS

ELEVATION NOTES:

1. REFER TO A101 FOR EQUIPMENT & INSTRUMENT LIST. COORDINATE LOCATIONS SHOWN ON ELEVATION WITH OWNER.
2. REFER TO IF-101 FOR CASEWORK PLANS AND ELEVATION REFERENCE TAGS.
3. ALL LAB CASEWORK (ALTERNATE 2)

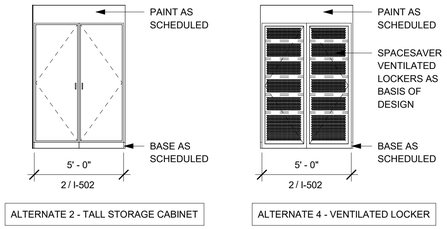
CASEWORK LEGEND





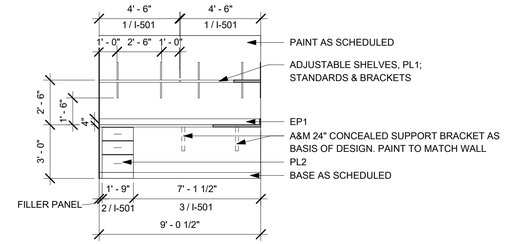
1 EVIDENCE EAST

0' 2" 4" 6" 8" 12" **1/4" = 1'-0"**



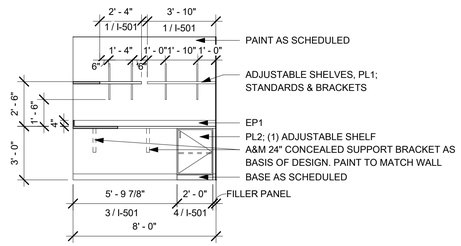
2 EVIDENCE WEST

0' 2" 4" 6" 8" 12" **1/4" = 1'-0"**



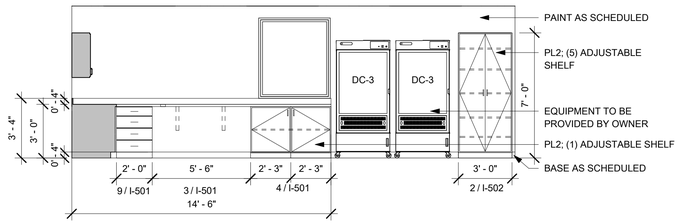
3 IMAGING SOUTH

0' 2" 4" 6" 8" 12" **1/4" = 1'-0"**



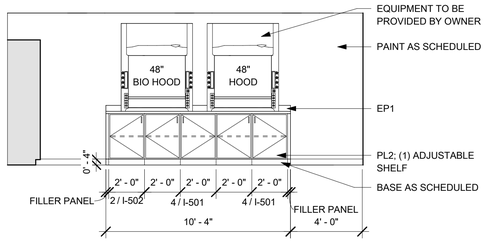
4 IMAGING WEST

0' 2" 4" 6" 8" 12" **1/4" = 1'-0"**



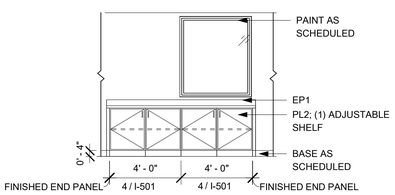
5 ISOLATION ROOM NORTH

0' 2" 4" 6" 8" 12" **1/4" = 1'-0"**



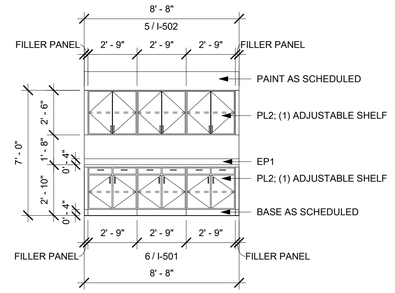
6 ISOLATION ROOM EAST

0' 2" 4" 6" 8" 12" **1/4" = 1'-0"**



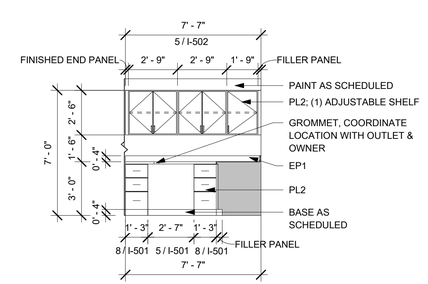
7 ISOLATION ROOM SOUTH

0' 2" 4" 6" 8" 12" **1/4" = 1'-0"**



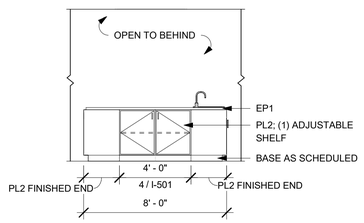
8 ISOLATION ROOM WEST

0' 2" 4" 6" 8" 12" **1/4" = 1'-0"**



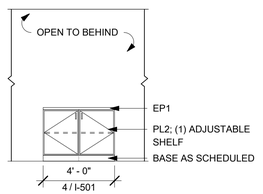
9 ISOLATION ROOM WEST

0' 2" 4" 6" 8" 12" **1/4" = 1'-0"**



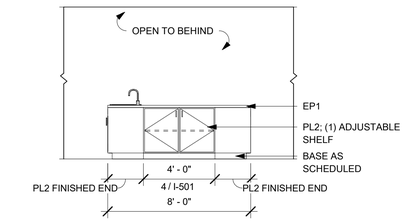
10 ISOLATION ISLAND

0' 2" 4" 6" 8" 12" **1/4" = 1'-0"**



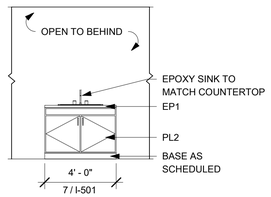
11 ISOLATION ISLAND

0' 2" 4" 6" 8" 12" **1/4" = 1'-0"**



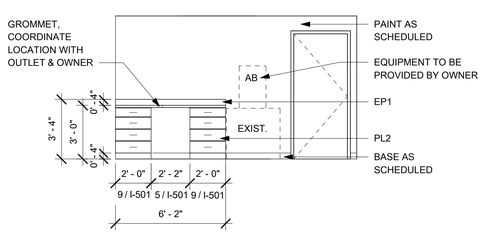
12 ISOLATION ISLAND

0' 2" 4" 6" 8" 12" **1/4" = 1'-0"**



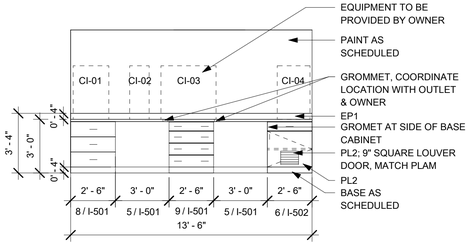
13 ISOLATION ISLAND

0' 2" 4" 6" 8" 12" **1/4" = 1'-0"**



14 INSTRUMENT LAB EAST

0' 2" 4" 6" 8" 12" **1/4" = 1'-0"**



15 INSTRUMENT LAB WEST

0' 2" 4" 6" 8" 12" **1/4" = 1'-0"**

GLMV Architecture
1535 W. Cambridge Circle Dr.
Kansas City, KS 67211
Tel: (316) 265-9367
www.glmv.com

Project No:
16004R22004

SCOTT A. SMITH
LICENSED
4318
08.19.2024
KANSAS
ARCHITECT

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

ISSUE DATE: 08-09-24 DRAWN BY: AM CHECKED BY: KB REV:

INTERIOR CASEWORK ELEVATIONS - PHASE 2

A-014835Rev

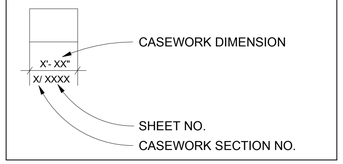
I-401

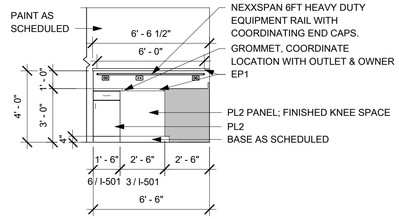
ORIGINAL CONTRACT DOCUMENTS

ELEVATION NOTES:

1. REFER TO A101 FOR EQUIPMENT & INSTRUMENT LIST. COORDINATE LOCATIONS SHOWN ON ELEVATION WITH OWNER.
2. REFER TO IF-101 FOR CASEWORK PLANS AND ELEVATION REFERENCE TAGS.
3. ALL LAB CASEWORK (ALTERNATE 2)

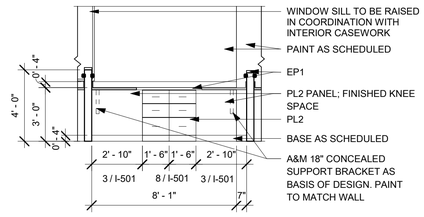
CASEWORK LEGEND





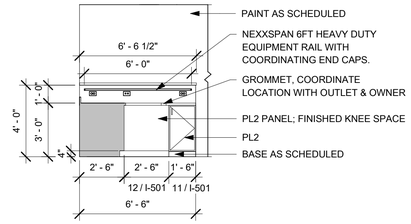
1 CHEMISTRY WET LAB WORKSTATION TYP.

0' 2" 4" 6" 8' 12" **1/4" = 1'-0"**



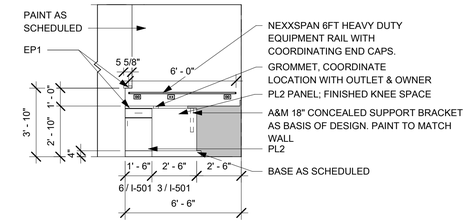
2 CHEMISTRY WET LAB WORKSTATION TYP.

0' 2" 4" 6" 8' 12" **1/4" = 1'-0"**



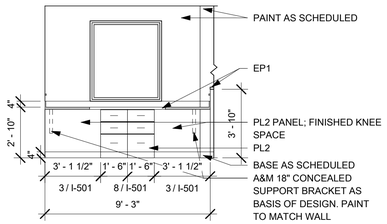
3 CHEMISTRY WET LAB WORKSTATION TYP.

0' 2" 4" 6" 8' 12" **1/4" = 1'-0"**



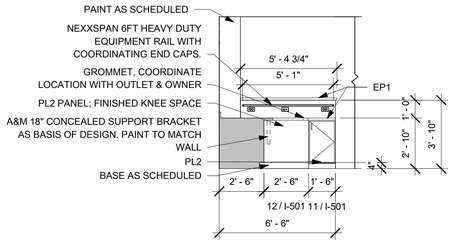
4 CHEMISTRY WET LAB ADA WORKSTATION TYP.

0' 2" 4" 6" 8' 12" **1/4" = 1'-0"**



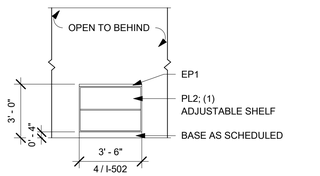
5 CHEMISTRY WET LAB ADA WORKSTATION TYP.

0' 2" 4" 6" 8' 12" **1/4" = 1'-0"**



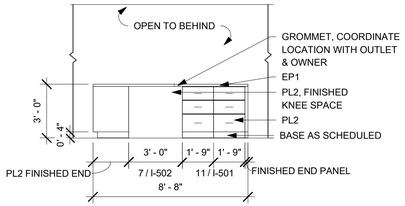
6 CHEMISTRY WET LAB ADA WORKSTATION TYP.

0' 2" 4" 6" 8' 12" **1/4" = 1'-0"**



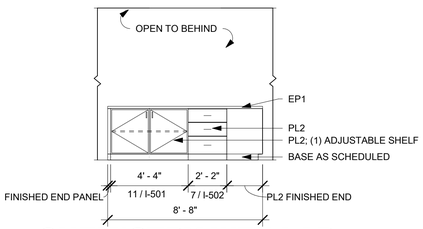
7 CHEMISTRY WET LAB ISLAND

0' 2" 4" 6" 8' 12" **1/4" = 1'-0"**



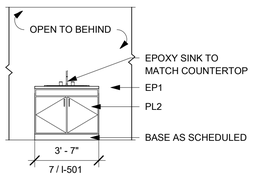
8 CHEMISTRY WET LAB ISLAND

0' 2" 4" 6" 8' 12" **1/4" = 1'-0"**



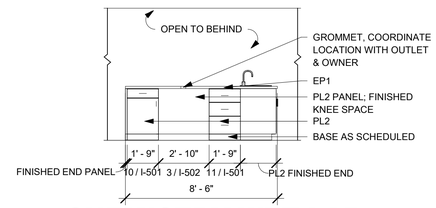
9 CHEMISTRY WET LAB ISLAND

0' 2" 4" 6" 8' 12" **1/4" = 1'-0"**



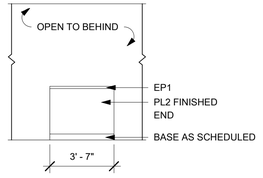
10 CHEMISTRY WET LAB ISLAND

0' 2" 4" 6" 8' 12" **1/4" = 1'-0"**



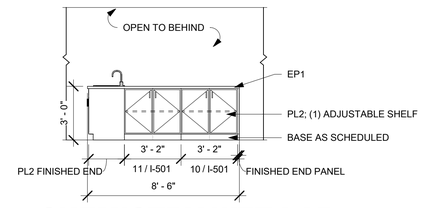
11 CHEMISTRY WET LAB ISLAND

0' 2" 4" 6" 8' 12" **1/4" = 1'-0"**



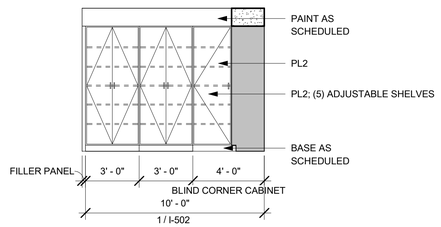
12 CHEMISTRY WET LAB ISLAND

0' 2" 4" 6" 8' 12" **1/4" = 1'-0"**



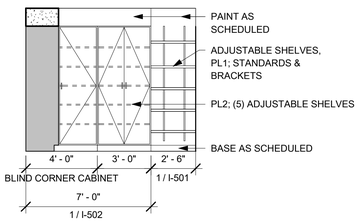
13 CHEMISTRY WET LAB ISLAND

0' 2" 4" 6" 8' 12" **1/4" = 1'-0"**



14 EVIDENCE STORAGE EAST

0' 2" 4" 6" 8' 12" **1/4" = 1'-0"**



15 EVIDENCE STORAGE SOUTH

0' 2" 4" 6" 8' 12" **1/4" = 1'-0"**

Project No:
16004R22004

GLMV Architecture
1535 S. Glenstone, Springfield, MO 65804
Tel: (314) 255-5267
www.glmv.com

SCOTT A. SMITH
LICENSED
4318
08.19.2024
KANSAS
ARCHITECT

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

ISSUE DATE: 08-09-24 DRAWN BY: AM CHECKED BY: KB REV:

INTERIOR CASEWORK ELEVATIONS - PHASE 2

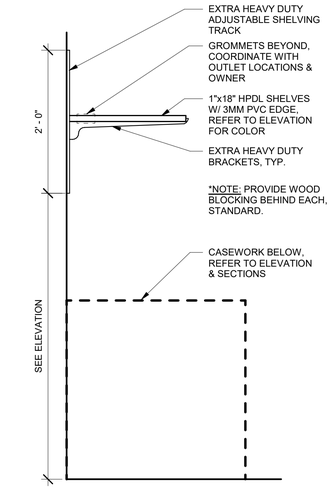
A-014835Rev

I-402

ORIGINAL CONTRACT DOCUMENTS

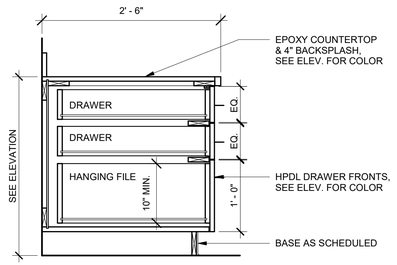
SECTION NOTES:

1. REFER TO A101 FOR EQUIPMENT & INSTRUMENT LIST. COORDINATE LOCATIONS SHOWN ON ELEVATION WITH OWNER.
2. REFER TO IF-101 FOR CASEWORK PLANS AND ELEVATION REFERENCE TAGS.
3. ALL LAB CASEWORK (ALTERNATE 2)



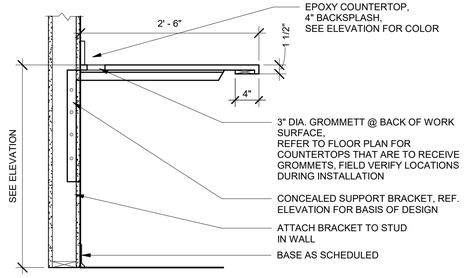
1 ADJUSTABLE SHELF

0' 2" 4" 6" 8" 12" **1" = 1'-0"**



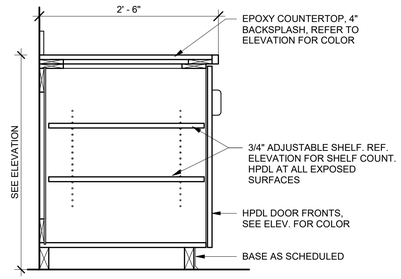
2 BOX BOX FILE

0' 2" 4" 6" 8" 12" **1" = 1'-0"**



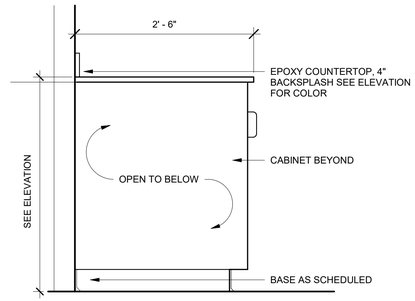
3 WORK COUNTER W/ BRACKET

0' 2" 4" 6" 8" 12" **1" = 1'-0"**



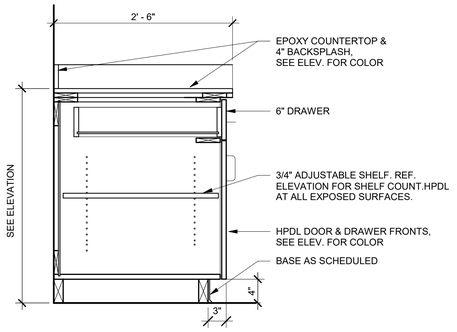
4 BASE NO DRAWER

0' 2" 4" 6" 8" 12" **1" = 1'-0"**



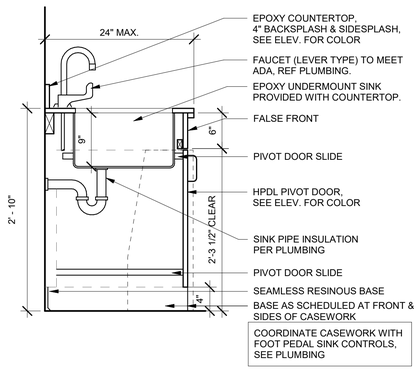
5 COUNTER W/ OPEN BASE

0' 2" 4" 6" 8" 12" **1" = 1'-0"**



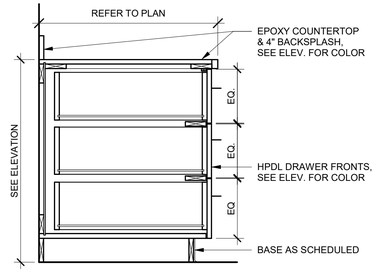
6 BASE W/ DRAWER & DOOR

0' 2" 4" 6" 8" 12" **1" = 1'-0"**



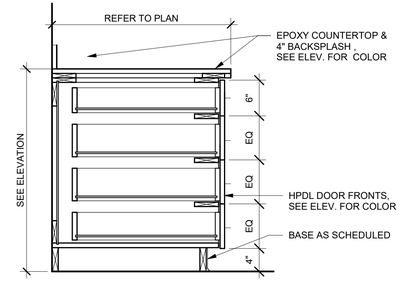
7 ADA SINK PIVOT DOOR

0' 2" 4" 6" 8" 12" **1" = 1'-0"**



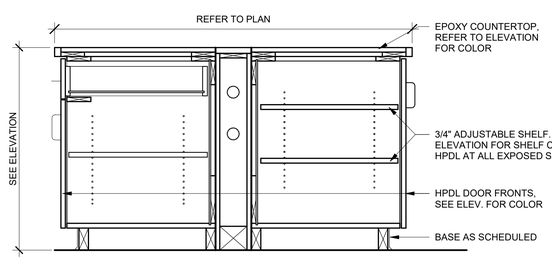
8 3 DRAWER BASE

0' 2" 4" 6" 8" 12" **1" = 1'-0"**



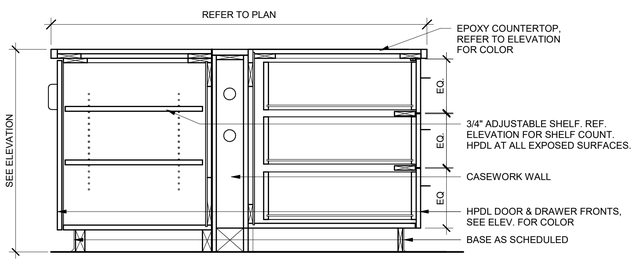
9 4 DRAWER BASE

0' 2" 4" 6" 8" 12" **1" = 1'-0"**



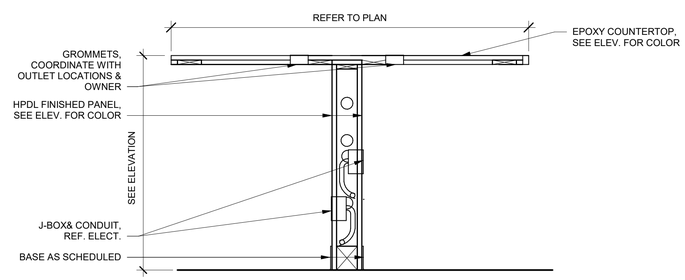
10 DOUBLE SIDED BASE CABINET & BASE W/ DRAWER AND DOOR

0' 2" 4" 6" 8" 12" **1" = 1'-0"**



11 DOUBLE SIDED BASE CABINET & 3 DRAWER

0' 2" 4" 6" 8" 12" **1" = 1'-0"**



12 BASE W/ CASEWORK WALL KNEE SPACE

0' 2" 4" 6" 8" 12" **1" = 1'-0"**

Project No:
16004R22004

GLMV Architecture
1535 Grand Blvd, Kansas City, MO 64141
Tel: (314) 255-5267
www.glmv.com

SCOTT A. SMITH
LICENSED
4318
08.19.2024
KANSAS
ARCHITECT

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

ISSUE DATE: 08-09-24 DRAWN BY: AM CHECKED BY: KB REV:

CASEWORK SECTIONS - PHASE 2

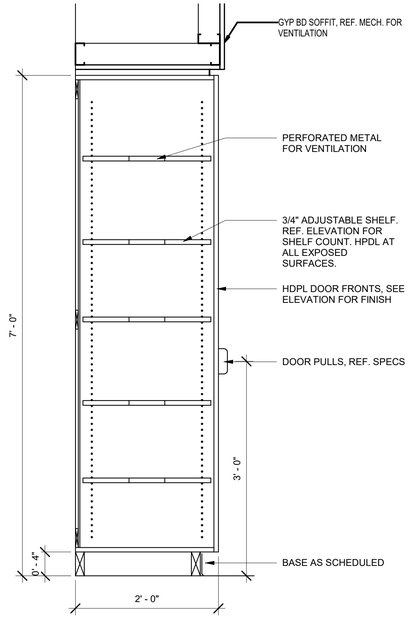
A-014835Rev

I-501

ORIGINAL CONTRACT DOCUMENTS

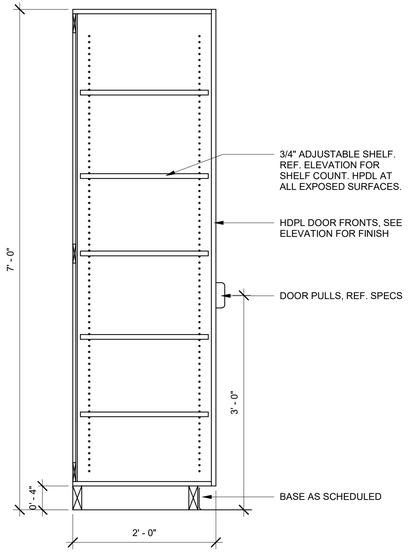
SECTION NOTES:

1. REFER TO A101 FOR EQUIPMENT & INSTRUMENT LIST. COORDINATE LOCATIONS SHOWN ON ELEVATION WITH OWNER.
2. REFER TO IF-101 FOR CASEWORK PLANS AND ELEVATION REFERENCE TAGS.
3. ALL LAB CASEWORK (ALTERNATE 2)



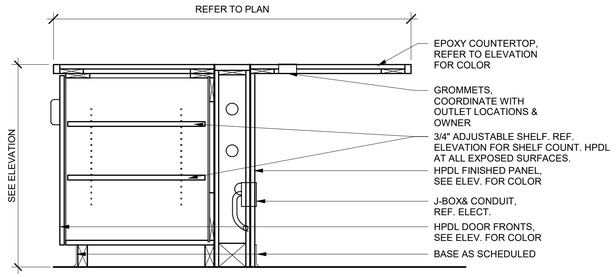
1 VENTED TALL CABINET

0' 2" 4" 6" 8" 12" 1" = 1'-0"



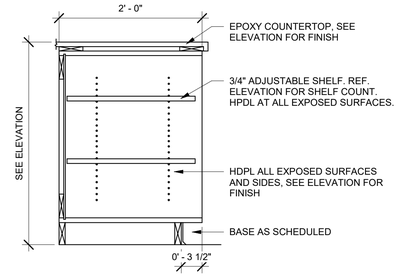
2 TALL CABINET

0' 2" 4" 6" 8" 12" 1" = 1'-0"



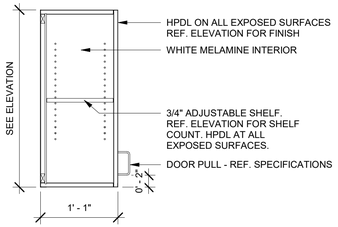
3 BASE CABINET NO DRAWER & KNEE SPACE

0' 2" 4" 6" 8" 12" 1" = 1'-0"



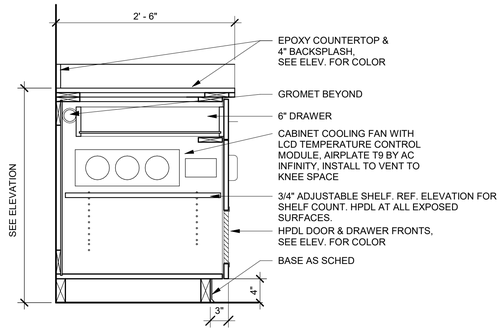
4 SHORT BOOKCASE

0' 2" 4" 6" 8" 12" 1" = 1'-0"



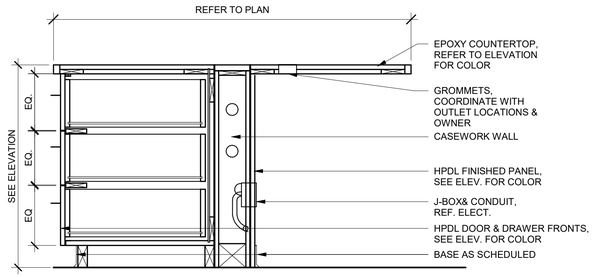
5 UPPER CABINET

0' 2" 4" 6" 8" 12" 1" = 1'-0"



6 COOLING BASE W/ DRAWER & DOOR

0' 2" 4" 6" 8" 12" 1" = 1'-0"



7 BASE CABINET KNEE SPACE AND 3 DRAWERS

0' 2" 4" 6" 8" 12" 1" = 1'-0"

Project No: 16004R22004

GLMV Architecture
1535 Saint Andrews Drive, Lawrence, KS 66047
Tel: (785) 856-3367
www.glmv.com

SCOTT A. SMITH LICENSED 4318 08.19.2024 KANSAS ARCHITECT

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

ISSUE DATE: 08-09-24 DRAWN BY: AM CHECKED BY: KB REV:

CASEWORK SECTIONS - PHASE 2

A-014835Rev

I-502

ORIGINAL CONTRACT DOCUMENTS

FINISH LEGEND

Location	MATERIAL	DESCRIPTION	OTHER
BASE			
BASE	EPOXB	EPOXY BASE	
BASE	RB	RESILIENT BASE	ROPPE/ 4" H/ COVE/ 193 BLACK BROWN
BASE	RSB	RUBBER SHEET INTEGRAL BASE	NORA/ ENVIRONCARE/ SHEET/ INTEGRAL BASE/ 6"/ COLOR TO MATCH RS
CEILING			
CEILING	APC1	ACOUSTICAL PANEL CEILING	ARMSTRONG/ ULTIMA/ 1911/ 24"X24" with 15/16" BEVELED TEGULAR SUSPENSION SYSTEM/ WHITE
CEILING	EXP	EXPOSED STRUCTURE	SHERWIN WILLIAMS / PURE WHITE 7005 / FLAT WHITE
CEILING	GYP	GYPSUM BOARD	SHERWIN WILLIAMS / PURE WHITE 7005 / FLAT WHITE
FLOORS			
FLOORS	CPT	CARPET TILE	TANDUS / CAPTURE 11359 / PRE DAWN 52706 / 9" X 36" / VERTICAL ASHLAR INSTALLATION
FLOORS	EPOX	EPOXY FLOORING	DUR-A-FLEX / DUR-A-GUARD SL / CONCRETE GREY
FLOORS	RS	RUBBER SHEET	NORA/ ENVIRONCARE/ SHEET/ 2MM THICKNESS/ HEAT- WELD/ 7035 SNOW SHOEING
MISCELLANEOUS			
MISCELLANEOUS	WT1	WINDOW TREATMENT	MECHO SHADE/ SOHO COLLECTION/ 1600 SERIES/ 3% OPEN/ 1622 HOWARD
SURFACE			
SURFACE	EP1	EPOXY RESIN SURFACE	DURCON/ CLASSIC TOP WITH LOOSE CURB/ 1" THICK/ GRAPHITE
SURFACE	PL1	PLASTIC LAMINATE (HORIZONTAL)	FORMICA/ STORM 912-58
SURFACE	PL2	PLASTIC LAMINATE (VERTICAL)	WILSONART/ STUDIO TEAK 7960K-18
WALLS			
WALLS	CG1	CORNER GUARD	INPRO/ STAINLESS STEEL CORNER GUARD/ 3" WING
WALLS	P1	PAINT	SHERWIN WILLIAMS/ EGGSHELL/ 7015 RESPOSE GRAY
WALLS	P2	PAINT (ACCENT)	SHERWIN WILLIAMS/ EGGSHELL/ 9126 HONED SOAPSTONE
WALLS	P3	PAINT (ACCENT)	SHERWIN WILLIAMS/ EGGSHELL/ 7650 ELLIE GRAY
WALLS	P4	PAINT (ACCENT)	SHERWIN WILLIAMS/ EGGSHELL/ 7068 GRIZZLE GRAY
WALLS	P5	PAINT (DOOR FRAMES)	SHERWIN WILLIAMS/ SEMI-GLOSS/ 7020 BLACK FOX

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	NORTH WALL FINISH	EAST WALL FINISH	SOUTH WALL FINISH	WEST WALL FINISH	CEILING FINISH	INTERIOR FINISH NOTES
106	CORRIDOR	EPOX	EPOXB	P1,P4	P1	P1	P1	GYP, P4	1, 5, 7
106A	GAS	EPOX	EPOXB	P1	P1	P1	P1	APC1	-
107	IMAGING	RS	RSB	P1	P1	P1	P1	APC1	4
108	EVIDENCE	RS	RSB	P1	P1	P1	P1	APC1	4
109	ISOLATION ROOM	RS	RSB	P3	P1	P1	P2	GYP, P4	2, 3, 5, 6
110	CHEMICAL STORAGE	RS	RSB	P1	P1	P1	P1	APC1	-
111	INSTRUMENT LAB	RS	RSB	P1	P1	P1	P2	APC1	2, 3
112	CHEMISTRY WET LAB	RS	RSB	P3	P1	P1	P1	APC1	2, 3
113	EVIDENCE STORAGE	RS	RSB	P1	P1	P1	P1	APC1	-
115	NEW EVIDENCE	RS	RSB	P1	P1	P1	P1		
127	OFFICE	CPT	RB	P1	P1	P1	P3	GYP, P4	5
127A	INTERVIEW	CPT	RB	P1	P1	P3	P1	GYP, P4	5

INTERIOR FINISH NOTES

1. REFER TO FINISH PLAN FOR CORNER GUARD.
2. EXTERIOR WINDOWS SHALL RECEIVE, WT1, WINDOW TREATMENT.
3. REFER TO ELEVATIONS FOR LAB CASEWORK CONFIGURATIONS.
4. REFER TO ELEVATIONS FOR ADDITIONAL COUNTERTOP INFORMATION.
5. THE GYP CEILING AND SOFFIT SHALL RECEIVE PAINT COLOR AS SCHEDULED. PAINT SHALL BE A FLAT FINISH.
6. INTERIOR WINDOWS TO RECEIVE, WT1, WINDOW TREATMENT.
7. REFERENCE 3 / IN101 FOR EPOXY COVE BASE DETAIL.

GENERAL INTERIOR NOTES

A. ALL NEW WOOD DOORS SHALL MATCH EXISTING WOOD DOORS ON THE SECOND FLOOR.
B. ALL GYPSUM BOARD SOFFITS AND FURR DOWNS TO BE PAINTED THE SAME COLOR ON ALL SIDES, UNLESS NOTED OTHERWISE
C. ALL FLOOR FINISH CHANGES AT DOORWAYS TO OCCUR UNDER CENTERLINE OF DOOR UNLESS NOTED OTHERWISE
D. REFER TO REFLECTED CEILING PLAN FOR CEILING HEIGHTS.
E. RESILIENT BASE CORNERS TO BE FIELD FORMED.
F. RUBBER SHEET INTEGRAL BASE SHALL BE INSTALLED AT BASE OF CASEWORK WHERE SPECIFIED. HEIGHT OF BASE AT THE CASEWORK SHALL BE APPROX. 4".
G ALL EXTERIOR WINDOWS SHALL RECEIVE WINDOW TREATMENT, WT1. WINDOW TREATMENT TO BE MOUNTED TO THE INSIDE OF FRAME.
H. DOOR FRAME TO MATCH RUBBER BASE COLOR. PAINT FINISH TO BE SEMI-GLOSS.
I. REFER TO PAINT SPECIFICATION & FINISH LEGEND FOR ALL PAINT SHEENS & FINISHES.FINISHES MARKED EXIST SHALL REMAIN THE EXISITNG MATERIAL.
J. FURNISH AND INSTALL WALL BASE AROUND ALL STATIONARY CASEWORK & MILLWORK.
K. ALL EXPOSED PIPES UNDER SINKS SHALL RECEIVE 'PIK', PLUMBING INSULATION KIT PER ADA.
L. COUNTER BACKSPLASH HEIGHT SHALL BE 4" UNLESS NOTED OTHERWISE.
M. PROVIDE FINISHED ENDS AT ALL EXPOSED ENDS OF CASEWORK.
N. FIELD VERIFY DIMENSIONS OF LAB CASEWORK LOCATIONS PRIOR TO FABRICATION.
O. PROVIDE JOINT SEALANT AT PERIMETER JOINTS WHERE COUNTERTOPS, BACK & SIDE SPLASHES AND CASEWORK ABUT WALLS.

Project No:
16004R22004

GLMV Architecture
1535 Grand Blvd, Kansas City, MO 64108
Tel: (816) 255-5267
www.glmv.com

SCOTT A. SMITH
LICENSED
4318
08.19.2024
KANSAS
ARCHITECT

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

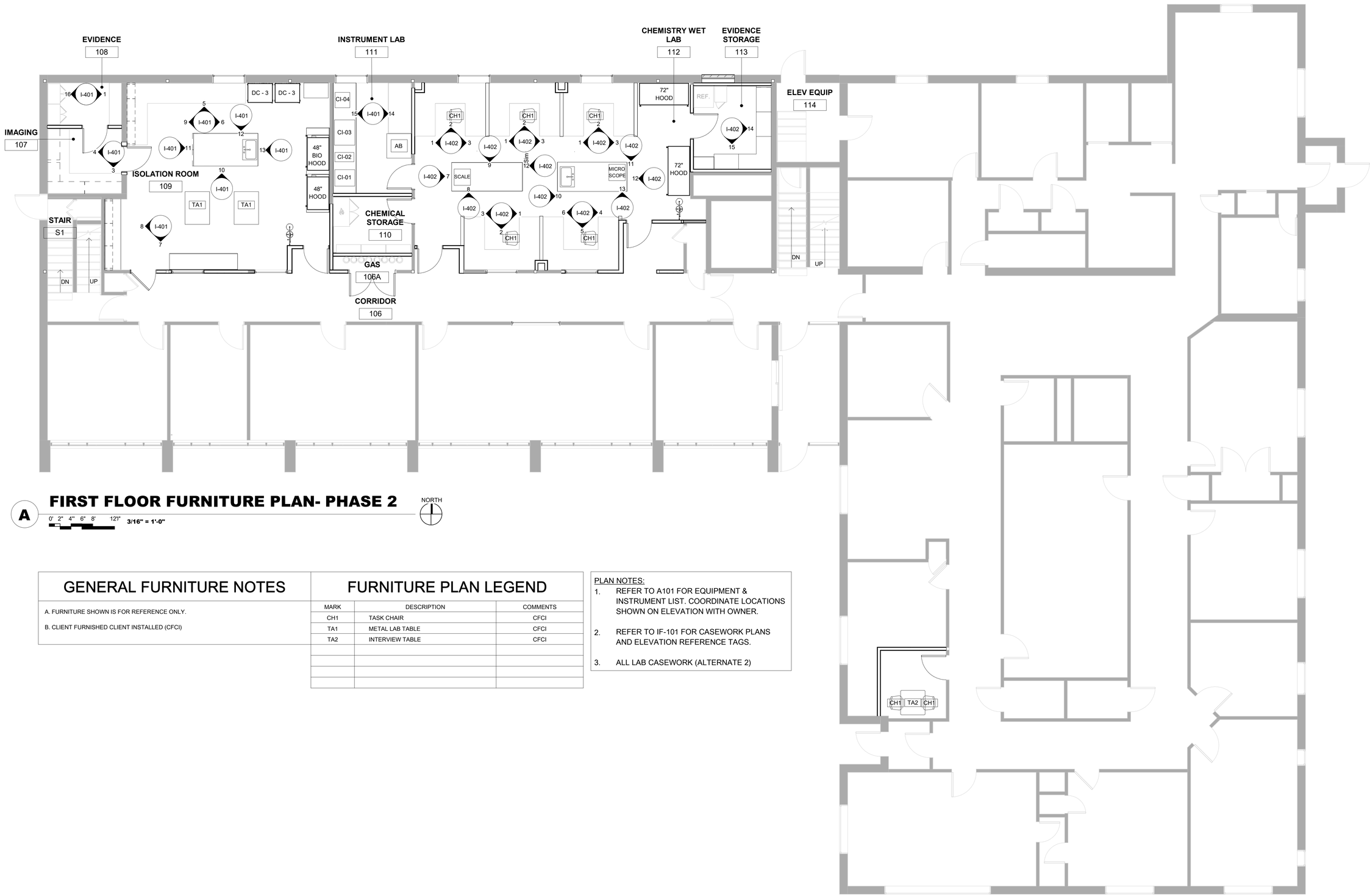
ISSUE DATE: 08-09-24 DRAWN BY: AMI CHECKED BY: KB REV:

FINISH SCHEDULE, LEGEND & NOTES - PHASE 2

A-014835Rev

I-601

ORIGINAL CONTRACT DOCUMENTS



A FIRST FLOOR FURNITURE PLAN- PHASE 2

NORTH

0' 2" 4" 6" 8" 12" 3/16" = 1'-0"

GENERAL FURNITURE NOTES

A. FURNITURE SHOWN IS FOR REFERENCE ONLY.

B. CLIENT FURNISHED CLIENT INSTALLED (CFCI)

FURNITURE PLAN LEGEND

MARK	DESCRIPTION	COMMENTS
CH1	TASK CHAIR	CFCI
TA1	METAL LAB TABLE	CFCI
TA2	INTERVIEW TABLE	CFCI

PLAN NOTES:

1. REFER TO A101 FOR EQUIPMENT & INSTRUMENT LIST. COORDINATE LOCATIONS SHOWN ON ELEVATION WITH OWNER.
2. REFER TO IF-101 FOR CASEWORK PLANS AND ELEVATION REFERENCE TAGS.
3. ALL LAB CASEWORK (ALTERNATE 2)

Project No:
16004R22004

GLMV Architecture
1535 Grand Blvd, Kansas City, MO 64108
Tel: (816) 255-5267
www.glmv.com

SCOTT A. SMITH
LICENSED
4318
08.19.2024
KANSAS
ARCHITECT

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

ISSUE DATE: 08-09-24 DRAWN BY: AM CHECKED BY: KB REV:

FURNITURE PLAN - PHASE 2

A-014835Rev

IF-101

ORIGINAL CONTRACT DOCUMENTS

MECHANICAL SYMBOLS:

PIPING & SPECIALTIES

- DOMESTIC COLD WATER
- DOMESTIC HOT WATER
- DOMESTIC HOT WATER RETURN
- DIS — DEIONIZED WATER SUPPLY
- DIR — DEIONIZED WATER RETURN
- ROS — REVERSE OSMOSIS WATER SUPPLY
- ROR — REVERSE OSMOSIS WATER RETURN
- T — TEMPERED WATER
- T — TEMPERED WATER RETURN
- TW — TREATED WATER
- SW — SOFTENED WATER
- F — FIRE SERVICE
- W — WATER SERVICE
- SP — STANDPIPE
- G — NATURAL GAS
- LPG — LIQUEFIED PETROLEUM GAS
- A — COMPRESSED AIR
- V — VACUUM
- O — OXYGEN
- C — CARBON DIOXIDE
- MA — MEDICAL AIR
- N — NITROGEN
- NO — NITROUS OXIDE
- WAGD — WASTE ANESTHESIA GAS DISPOSAL
- MV — MEDICAL VACUUM
- VENT
- WASTE - ABOVE FLOOR
- WASTE - BELOW FLOOR
- RD — ROOF DRAIN - ABOVE FLOOR
- RD — ROOF DRAIN - BELOW FLOOR
- ORD — OVERFLOW ROOF DRAIN - ABOVE FLOOR
- ORD — OVERFLOW ROOF DRAIN - BELOW FLOOR
- AV — ACID VENT
- AW — ACID WASTE - ABOVE FLOOR
- AW — ACID WASTE - BELOW FLOOR
- D — DRAIN
- CWS — CHILLED WATER SUPPLY
- CWR — CHILLED WATER RETURN
- HWS — HOT WATER SUPPLY
- HWR — HOT WATER RETURN
- HRS — HEAT RECOVERY SUPPLY
- HRR — HEAT RECOVERY RETURN
- LPS — LOW PRESSURE STEAM SUPPLY
- LPR — LOW PRESSURE STEAM RETURN
- HPS — HIGH PRESSURE STEAM SUPPLY
- HPR — HIGH PRESSURE STEAM RETURN
- HPR — HIGH PRESSURE STEAM RETURN
- PUMPED STEAM CONDENSATE RETURN
- FEEDWATER PUMP DISCHARGE
- FOR — FUEL OIL RETURN
- FOG — FUEL OIL GAGE LINE
- FOS — FUEL OIL SUPPLY
- FOV — FUEL OIL VENT
- HTWS — HIGH TEMPERATURE HOT WATER SUPPLY
- HTWR — HIGH TEMPERATURE HOT WATER RETURN
- CHS — CHILLED / HOT WATER SUPPLY
- CHR — CHILLED / HOT WATER RETURN
- CS — CONDENSER WATER SUPPLY
- CR — CONDENSER WATER RETURN
- RL — REFRIGERANT LIQUID
- RD — REFRIGERANT DISCHARGE (HOT GAS)
- RS — REFRIGERANT SUCTION
- RDB — REFRIGERANT DISCHARGE BYPASS
- SMS — SNOW MELT SUPPLY
- SMR — SNOW MELT RETURN
- THREE-WAY CONTROL VALVE
- TWO-WAY CONTROL VALVE
- SHUT-OFF VALVE
- CHECK VALVE
- BALANCING VALVE W/ PRESSURE PORTS
- STRAINER
- TRIPLE DUTY VALVE W/ PRESSURE PORTS
- RELIEF VALVE
- PRESSURE REDUCING VALVE
- MOTORIZED VALVE
- TEMPERATURE REGULATING VALVE
- SOLENOID VALVE
- PA — PIPE ANCHOR
- PIPE SUPPORT
- SPRINKLER HEAD (PENDANT)
- SPRINKLER HEAD (SIDEWALL)
- REDUCER
- PIPE GUIDE
- SLIDING EXPANSION JOINT
- FLOAT & THERMOSTATIC TRAP
- BUCKET TRAP
- THERMOSTATIC TRAP
- IMPULSE TRAP
- F — FLOAT TRAP
- BF — BACKFLOW PREVENTER
- R — REGULATOR
- PRESSURE GAUGE
- THERMOMETER
- UNION
- HB — HOSE BIBB
- WH — WALL HYDRANT
- CO — CLEANOUT
- DS — DOWNSPOUT NOZZLE
- CAP
- FFCO — FLUSH FLOOR CLEANOUT
- FGCO — FLUSH GRADE CLEANOUT

MECHANICAL SYMBOLS:

FIXTURES:

- 1 — TANK WATER CLOSET & TYPE
- 1 — WALL MOUNT WATER CLOSET & TYPE
- 1 — FLOOR MOUNT WATER CLOSET & TYPE
- 1 — URINAL & TYPE
- 1 — WALL MOUNT LAVATORY & TYPE
- 1 — COUNTERTOP LAVATORY & TYPE
- 1 — SINK & TYPE
- 1 — BIDET & TYPE
- 1 — CLINICAL SINK & TYPE
- 1 — SHOWER & TYPE
- 1 — SHOWER & TYPE
- 1 — BATHTUB & TYPE
- 1 — DRINKING FOUNTAIN OR WATER COOLER & TYPE
- 1 — JANITOR'S BASIN & TYPE
- ELBOW UP
- ELBOW DOWN
- LONG SWEEP UP
- LONG SWEEP DOWN
- TEE UP
- TEE DOWN
- ELBOW UP WITH SHUT-OFF VALVE
- ELBOW DOWN WITH SHUT-OFF VALVE
- TEE UP WITH SHUT-OFF VALVE
- TEE DOWN WITH SHUT-OFF VALVE
- SIAMESE CONNECTION - POST
- SIAMESE CONNECTION - WALL
- SHOCK ARRESTOR
- FLOOR SINK (SQUARE TOP) - TYPE & SIZE
- FLOOR DRAIN (ROUND TOP) - TYPE & SIZE
- ROOF DRAIN - TYPE & SIZE
- MEDICAL GAS ALARM PANEL
- MEDICAL GAS ZONE VALVE
- WALL MEDICAL GAS OUTLET & TYPE
- MEDICAL GAS PRESSURE SENSOR FOR ALARM PANEL

MECHANICAL SYMBOLS:

DUCTWORK, FITTINGS, & ACCESSORIES:

- CEILING / OVERHEAD SUPPLY AIR DIFFUSER / GRILLE
- CEILING / OVERHEAD RETURN OR EXHAUST GRILLE
- LINEAR SLOT DIFFUSER
- SIDEWALL REGISTER / GRILLE
- NOZZLE DIFFUSER
- MANUAL BALANCING DAMPER
- INSULATED FLEXIBLE DUCTWORK (MAXIMUM LENGTH = 5'-0")
- BRANCH DUCTWORK WITH 45 TAP & MANUAL VOLUME CONTROL DAMPER
- ELBOW WITH TURNING VANES
- RETURN, EXHAUST, OR FRESH AIR DUCTWORK UP
- RETURN, EXHAUST, OR FRESH AIR DUCTWORK DOWN
- SUPPLY AIR DUCTWORK UP
- SUPPLY AIR DUCTWORK DOWN
- EQUIPMENT WITH FLEXIBLE DUCTWORK CONNECTION
- REGISTER, NECK SIZE, TYPE & CFM (FLEXIBLE DUCT CONNECTION)
- REGISTER, NECK SIZE, TYPE & CFM (HARD DUCT CONNECTION)

NOTE: ALL DUCTWORK DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE DIMENSIONS. SEE SECTION 150250 OF THE SPECIFICATION FOR DUCTWORK TO RECEIVE INSULATION.

- FD — FIRE DAMPER
- SD — SMOKE DAMPER
- FS — COMBINATION FIRE/SMOKE DAMPER
- CD — CONTROL DAMPER
- MD — MOTORIZED DAMPER
- BD — BACKDRAFT DAMPER
- T — PNEUMATIC THERMOSTAT
- H — PNEUMATIC HUMIDISTAT
- T — DDC TEMPERATURE SENSOR
- H — DDC HUMIDITY SENSOR
- CO2 — DDC CARBON DIOXIDE SENSOR
- P — DDC PRESSURE SENSOR

ELECTRICAL SYMBOLS:

LIGHT FIXTURES:

- LIGHT FIXTURE
- LIGHT FIXTURE WITH DUAL LEVEL SWITCHING (REFER TO SPECIFICATION)
- LIGHT FIXTURE POWERED FROM MULTIPLE SOURCES
- EMERGENCY LIGHT FIXTURE
- NL — NIGHT LIGHT - UNSWITCHED
- UNDERCABINET LIGHT FIXTURE
- STRIP LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- RECESSED CEILING LIGHT FIXTURE
- EMERGENCY LIGHT - WALL MOUNTED
- EXIT LIGHT FIXTURE - END MOUNTED (FACE ILLUMINATION AND ARROWS AS INDICATED ON PLAN)
- EXIT LIGHT FIXTURE - WALL MOUNTED (FACE ILLUMINATION AND ARROWS AS INDICATED ON PLAN)
- EXIT LIGHT FIXTURE - CEILING MOUNTED (FACE ILLUMINATION AND ARROWS AS INDICATED ON PLAN)

NOTES:
FIXTURE MARK ADJACENT TO FIXTURE ON PLAN CORRESPONDS TO FIXTURE TYPE AS INDICATED IN THE LIGHT FIXTURE SCHEDULE.

REFER TO PLANS AND/OR FIXTURE SCHEDULE FOR MOUNTING HEIGHTS OF WALL MOUNTED FIXTURES.

ELECTRICAL SYMBOLS:

SWITCHES:

- $ — 20 AMP, SINGLE POLE 120/277V SWITCH
- $3 — 20 AMP, THREE-WAY 120/277V SWITCH
- $4 — 20 AMP, FOUR-WAY 120/277V SWITCH
- $P — 20 AMP, SINGLE POLE 120/277V SWITCH WITH PILOT LAMP
- $D — DIMMER SWITCH
- $2 — 20 AMP, DOUBLE POLE 120/277V SWITCH
- $K — 20 AMP, SINGLE POLE 120/277V SWITCH - KEY OPERATED
- $LV — LOW VOLTAGE SWITCH
- $M — 20 AMP, MOMENTARY CONTACT 120/277V SWITCH
- $T — SPRING WOUND TIMER SWITCH
- $# — 20 AMP, MISC. SWITCH (REFER TO CORRESPONDING ABBREVIATION)
- $HOA — "HAND-OFF-AUTO" SELECTOR SWITCH
- $MO — MANUAL STARTER WITH THERMAL OVERLOAD
- WALL SWITCH OCCUPANCY SENSOR - SINGLE CIRCUIT
- M2 — WALL SWITCH OCCUPANCY SENSOR - DUAL CIRCUIT
- M — OCCUPANCY SENSOR - WALL MOUNTED
- M — OCCUPANCY SENSOR - CEILING MOUNTED

NOTE(S):
ALL SWITCHES SHALL BE INSTALLED AT 48" A.F.F. (TOP) U.O.N.

ELECTRICAL SYMBOLS:

RECEPTACLES:

- SIMPLEX 20 AMP, 125V, 2P, 3W GROUNDING TYPE RECEPTACLE
- EMERGENCY SIMPLEX 20 AMP, 125V, 2P, 3W GROUNDING TYPE RECEPTACLE
- DUPLEX 20 AMP, 125V, 2P, 3W GROUNDING TYPE RECEPTACLE
- EMERGENCY DUPLEX 20 AMP, 125V, 2P, 3W GROUNDING TYPE RECEPTACLE
- 4 — QUADRUPLEX 20 AMP, 125V, 2P, 3W GROUNDING TYPE RECEPTACLE
- 4 — EMERGENCY QUADRUPLEX 20 AMP, 125V, 2P, 3W GROUNDING TYPE RECEPTACLE
- #-#R — SPECIAL RECEPTACLE - REFER TO PLANS FOR SPECIFIC TYPES
- #-#R — EMERGENCY SPECIAL RECEPTACLE - REFER TO PLANS FOR SPECIFIC TYPES
- #-#R — SPECIAL RECEPTACLE - CEILING MOUNTED - REFER TO PLANS FOR SPECIFIC TYPES
- #-#R — EMERGENCY SPECIAL RECEPTACLE - CEILING MOUNTED - REFER TO PLANS FOR SPECIFIC TYPES
- #-#R — SPECIAL RECEPTACLE - FLOOR MOUNTED - REFER TO PLANS FOR SPECIFIC TYPES
- #-#R — EMERGENCY SPECIAL RECEPTACLE - FLOOR MOUNTED - REFER TO PLANS FOR SPECIFIC TYPES
- USB — DUPLEX 20 AMP, 125V, 2P, 3W GROUNDING TYPE RECEPTACLE WITH (2) USB TYPE 2.0, 6 AMP, 5V PORTS

NOTE:
ALL WALL MOUNTED RECEPTACLES SHALL BE INSTALLED AT 18" A.F.F. (CENTERLINE) U.O.N.

ELECTRICAL SYMBOLS:

TELECOMMUNICATIONS / INFO SYSTEMS:

- SINGLE DATA OUTLET — 4" SQUARE DEEP BOX WITH 0.75" C TO ABOVE CEILING.
- SINGLE DATA/PHONE OUTLET — 4" SQUARE DEEP BOX WITH 0.75" C TO ABOVE CEILING.
- DUPLEX DATA/PHONE OUTLET — 4" SQUARE DEEP BOX WITH 1" C TO ABOVE CEILING.
- TRIPLEX DATA OUTLET — 4" SQUARE DEEP BOX WITH 1" C TO ABOVE CEILING.
- W — SINGLE PHONE OUTLET — 4" SQUARE DEEP BOX WITH 0.75" C TO ABOVE CEILING. ROUGH-IN AT 44" A.F.F. - LEAVE 12" CLEARANCE AROUND OUTLET
- SINGLE DATA OUTLET - FLOOR MOUNTED - REFER TO PLANS FOR SPECIFIC TYPES
- DUPLEX DATA/PHONE OUTLET - FLOOR MOUNTED - REFER TO PLANS FOR SPECIFIC TYPES
- SINGLE DATA OUTLET - CEILING MOUNTED — 4" SQUARE DEEP BOX - REFER TO PLANS FOR SPECIFIC TYPES
- DUPLEX DATA/PHONE OUTLET - CEILING MOUNTED — 4" SQUARE DEEP BOX - REFER TO PLANS FOR SPECIFIC TYPES

ELECTRICAL SYMBOLS:

POWER SYSTEMS:

- J — JUNCTION BOX - 4" SQUARE U.O.N.
- J — JUNCTION BOX - STUB-UP
- T — ELECTRIC THERMOSTAT - 48" A.F.F. MOUNTING (CENTERLINE) U.O.N.
- H — ELECTRIC HUMIDISTAT - 48" A.F.F. MOUNTING (CENTERLINE) U.O.N.
- M — MOTOR - USE INDICATED
- TP — TELEPHONE - POWER POLE
- PP — POWER POLE
- RECESSED MOUNTED POWER PANEL
- SURFACE MOUNTED POWER PANEL
- ELECTRICAL DISTRIBUTION PANEL
- DRY-TYPE TRANSFORMER
- TELEPHONE TERMINAL CABINET ("TTC")
- PB — PULL BOX
- WEATHERHEAD
- MAGNETIC MOTOR CONTROLLER
- COMBINATION MAGNETIC MOTOR CONTROLLER / DISCONNECT SWITCH
- DISCONNECT SWITCH
- MANUAL MOTOR CONTOLLER
- VFD — VARIABLE FREQUENCY DRIVE
- T — TIME SWITCH
- L — LIGHTING CONTACTOR
- PC — PHOTOCELL
- R — RELAY
- EPO — EMERGENCY POWER OFF PUSHBUTTON
- GA — REMOTE GENERATOR ANNUNCIATOR

ELECTRICAL SYMBOLS:

ELECTRICAL WIRING

- BRANCH CIRCUIT IN EXPOSED METAL RACEWAY - WIREMOLD
- BRANCH CIRCUIT CONCEALED BELOW FLOOR
- BRANCH CIRCUIT IN CONDUIT CONCEALED IN CEILING OR WALL
- BRANCH CIRCUIT - EMERGENCY POWER
- BRANCH CIRCUIT IN EXPOSED CONDUIT
- BRANCH CIRCUIT HOMERUN TO PANEL
- SYMBOLS INDICATE NUMBER OF CONDUCTORS IF MORE THAN TWO
- GROUND WIRE - INCLUDED IN ALL BRANCH CIRCUITS U.O.N.
- #18 TW WIRE
- #16 WIRE
- #14 TW WIRE
- #12 TW WIRE
- SHEATHED CABLE
- MICROPHONE CABLE
- FLEXIBLE CONDUIT
- 1 — BRANCH CIRCUIT OR FEEDER - SEE SCHEDULE FOR CONDUCTOR & CONDUIT QUANTITY & SIZE
- 1/ — SPECIAL SYSTEMS CONDUIT - SEE SCHEDULE FOR CONDUCTOR & CONDUIT QUANTITY & SIZE

NOTE:
WIRE ALL BRANCH CIRCUITS WITH (2) #12 & (1) #12 GROUND IN CONDUIT UNLESS INDICATED OTHERWISE. WIRE ALL SINGLE PHASE LIGHTING AND POWER BRANCH CIRCUITS WITH SEPARATE NEUTRAL CONDUCTOR. SHARED NEUTRALS BETWEEN BRANCH CIRCUITS OF DIFFERENT PHASES WILL NOT BE ALLOWED. CONDUCTORS FOR MULTIPLE BRANCH CIRCUITS MAY BE ROUTED IN THE SAME CONDUIT IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE CODE.

ELECTRICAL SYMBOLS:

FIRE ALARM:

- P — MANUAL FIRE ALARM PULL STATION - 48" A.F.F. MOUNTING (CENTERLINE)
- R — FIRE ALARM RELAY
- # — AUDIBLE & VISUAL ALARM (CANDELA)
- HORN
- # — VISUAL ALARM (CANDELA)
- FACP — FIRE ALARM CONTROL PANEL
- FAA — FIRE ALARM ANNUNCIATOR PANEL
- ARC — AREA OF RESCUE CALL STATION
- ARA — AREA OF RESCUE ANNUNCIATOR PANEL
- SMOKE DETECTOR - DUCT MOUNT
- SMOKE DETECTOR - CEILING MOUNT - CENTRAL SYSTEM
- SMOKE DETECTOR - BEAM TYPE - CENTRAL SYSTEM
- HEAT DETECTOR
- FLAME DETECTOR
- MAGNETIC DOOR HOLDER
- REMOTE TEST STATION
- BELL
- GONG
- C — ABORT SWITCH
- Z — ZONE ADDRESSABLE MODULE - CONTROL
- Z — M — ZONE ADDRESSABLE MODULE - MONITOR
- DELUGE VALVE
- PREACTION VALVE
- FLOW SWITCH
- TAMPER DETECTOR

ELECTRICAL SYMBOLS:

SECURITY:

- CR — CARD READER ROUGH-IN
- TP — TOUCHLESS WALL PAD
- M — CCTV — CCTV MOTION SENSOR - CEILING MOUNTED
- CTV — CCTV OUTLET
- C — CCTV CAMERA
- SM — MOTION SENSOR - WALL MOUNT
- SM — MOTION SENSOR - CEILING MOUNT
- PIR — PASSIVE INFRARED - CEILING MOUNT
- PIR — S — PASSIVE INFRARED - CEILING MOUNT - WITH SOUNDER
- PIR — PASSIVE INFRARED - WALL MOUNT
- PIR — S — PASSIVE INFRARED - WALL MOUNT - WITH SOUNDER
- PARKING LOT EMERGENCY CALL STATION INDICATOR STROBE
- EP — PARKING LOT EMERGENCY CALL PHONE
- DC — DOOR POSITION CONTACTS
- DC — B — DOOR POSITION SWITCH - BURGLAR SYSTEM
- KP — KEYPAD
- KP — B — KEYPAD - BURGLAR SYSTEM
- PB — PUSHBUTTON - PANIC
- PB — DB — PUSHBUTTON - DOORBELL
- DR — PUSHBUTTON - DOOR RELEASE
- RX — REQUEST TO EXIT
- ML — MAGNETIC LOCK
- ES — ELECTRIC STRIKE
- KO — KEY OVERRIDE
- STROBE LIGHT & HORN - BURGLAR SYSTEM — B
- BLUE LIGHT - CEILING MOUNTED - UNAUTHORIZED STAIRWELL ACCESS / CODE BLUE.

ELECTRICAL SYMBOLS:

AUDIO VISUAL:

- S — CEILING SPEAKER
- WALL SPEAKER
- HORN SPEAKER
- V — REMOTE VOLUME CONTROLLER
- TV — CABLE TELEVISION OUTLET
- WALL CLOCK
- CD — WALL CLOCK - COUNTDOWN
- LCD — LCD DISPLAY - WALL MOUNTED
- ID — INTERCOM - DESK MODEL
- IF — INTERCOM - WALL MODEL (FLUSH MOUNTED)
- IS — INTERCOM - SLAVE STATION
- IJ — INTERCOM SYSTEM JUNCTION BOX (SIZE AS REQUIRED)
- M — MICROPHONE OUTLET

ABBREVIATIONS:

AD	ACCESS DOOR	FTR	FINNED TUBE RADIATION
AFF	ABOVE FINISHED FLOOR	HW	DOMESTIC HOT WATER
AHU	AIR HANDLING UNIT	K.O.	KNOCKOUT
CU	CONDENSING UNIT	MCA	MINIMUM CIRCUIT AMPACITY
CUH	CABINET UNIT HEATER	MOCP	MAXIMUM OVERCURRENT PROTECTION
CW	DOMESTIC COLD WATER	O.C.	ON CENTER
DN	DOWN	TGB	TELECOM GROUND BUS
DX	DIRECT EXPANSION COOLING	TL	TWIST LOCK
EF	EXHAUST FAN	TR	TAMPER RESISTANT
EDF	ELECTRIC DRINKING FOUNTAIN	UH	UNIT HEATER
EWC	ELECTRIC WATER COOLER	U.O.N.	UNLESS OTHERWISE NOTED
FCU	FAN COIL UNIT	UV	UNIT VENTILATOR
FD	FLOOR DRAIN	V	VENT
FFCO	FLUSH FLOOR CLEANOUT	VTR	VENT THROUGH ROOF
FWCO	FLUSH WALL CLEANOUT	W	WASTE

GENERAL NOTES:

"A" THIS SYMBOL ADJACENT TO ANY SYMBOL INDICATES DEVICE BOTTOM TO BE MOUNTED 9" ABOVE COUNTERTOP BACKSPLASH ELEVATION.
LAMINATE COUNTERTOPS HAVE 4" HIGH BACKSPLASHES
SOLID SURFACE COUNTERTOPS HAVE 6" HIGH BACKSPLASHES

"EC" THIS DENOTATION ADJACENT TO ANY SYMBOL INDICATES EXTENDED COVERAGE ON SPRINKLER HEADS.

"GF" THIS DENOTATION ADJACENT TO ANY SYMBOL INDICATES GROUND FAULT INTERRUPTER.

"HC" THIS DENOTATION ADJACENT TO ANY FIXTURE INDICATES HANDICAPPED ACCESSIBLE. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHT.

"IG" THIS DENOTATION ADJACENT TO ANY SYMBOL INDICATES ISOLATED GROUND SERVICE.

"S" THIS DENOTATION ADJACENT TO ANY SYMBOL INDICATES SPARE.

"TR" THIS DENOTATION ADJACENT TO ANY SYMBOL INDICATES TAMPER RESISTANT.

"W" THIS DENOTATION ADJACENT TO ANY SYMBOL INDICATES DEVICE TO BE MOUNTED AT 48" A.F.F. (CENTERLINE).

"WG" THIS DENOTATION ADJACENT TO ANY SYMBOL INDICATES DEVICE TO BE PROVIDED WITH WIRE GUARD.

"WP" THIS DENOTATION ADJACENT TO ANY SYMBOL INDICATES WEATHER-PROOF ENCLOSURE SHALL BE PROVIDED.

"USB" THIS DENOTATION ADJACENT TO ANY SYMBOL INDICATES USB CHARGING DEVICE.

"XP" THIS DENOTATION ADJACENT TO ANY SYMBOL INDICATES EXPLOSION-PROOF ENCLOSURE SHALL BE PROVIDED.

INDICATES CONNECTION TO EXISTING SYSTEM.

DIMENSIONS ADJACENT TO ANY SYMBOL INDICATES MOUNTING HEIGHT TO CENTERLINE OF DEVICE (i.e. 60") U.O.N.

PLAN NOTES:

NORTH — INDICATES DIRECTION OF PLAN NORTH

SHEET — DETAIL REFERENCE:
- UPPER NUMBER INDICATES DETAIL NUMBER
- LOWER NUMBER INDICATES SHEET NUMBER

1 — PLAN NOTE REFERENCE

B&A Project No. G32-005-190

G:\GLMV - (Now Tessere)\KBI - Great Bend\dwgs\KBI - mep-symbols - Phase II-Re-bid.dwg, 8/19/2024 2:07:41 PM, bbrown

Project No:
16004R22004

GLMV Architecture
1525 E. Douglas, Wichita, KS 67211
Tel: (316) 265-9307
www.glmv.com

BRACK ASSOCIATES CONSULTING ENGINEERS
P: (785) 271-0844
Topeka, KS 66604
BAA Project # 1120-036-190

BRUCE A. BROWN LICENSED mechanical # 19099 8/19/24 KANSAS PROFESSIONAL ENGINEER
License -Kansas - 18099

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

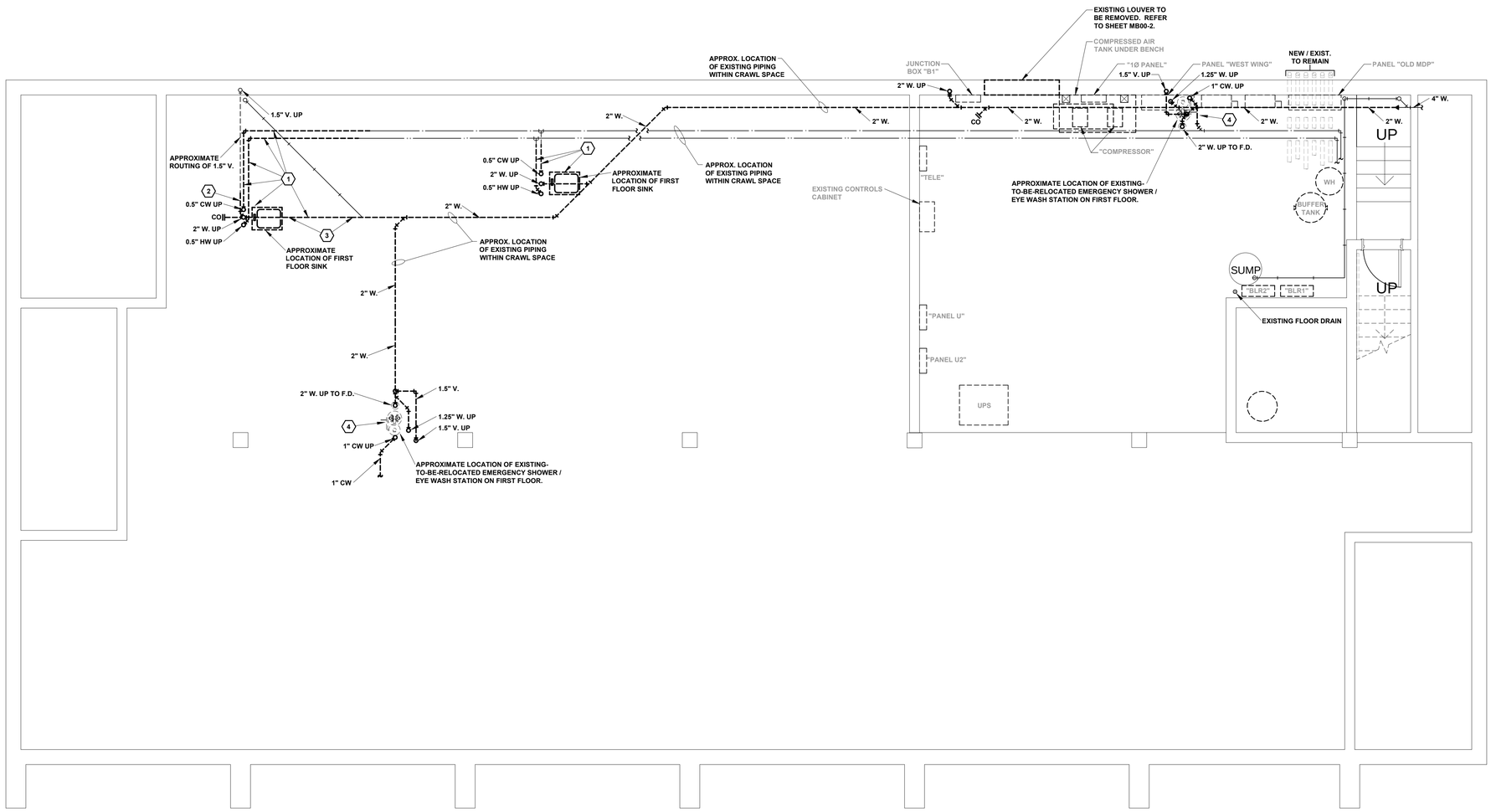
ISSUE DATE: 08/19/24 — DRAWN BY: BAB — CHECKED BY: JLB — REV: 05/08/20

MEP SYMBOLS LEGEND

A-014835Rev

ME100

ORIGINAL CONTRACT DOCUMENTS



NORTH

BASEMENT PLUMBING DEMOLITION PLAN

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

NOTES:

1. REMOVE EXISTING 2" W, 1.5" V, 0.5" CW, 0.5" HW UP TO SERVE ISLAND SINK ON FIRST FLOOR. REMOVE EXISTING 2" W., 1.5" V., 0.5" CW AND 0.5" HW WITHIN FIRST FLOOR CABINET SPACE.
2. REMOVE EXISTING 1.5" V. AS INDICATED AND PREPARE FOR CONNECTION OF NEW VENT PIPING. REFER TO SHEET PB01 FOR ADDITIONAL INFORMATION.
3. REMOVE EXISTING 2" W. AS INDICATED AND PREPARE FOR INSTALLATION OF NEW CLEANOUT. REFER TO SHEET PB01 FOR ADDITIONAL INFORMATION.
4. EXISTING EMERGENCY SHOWER / EYE WASH STATION TO BE RELOCATED. REMOVE EXISTING FLOOR DRAIN, 2"W, 1.25" W, 1.5" V, AND 1" CW PIPING AS INDICATED.

GENERAL NOTES:

1. EXISTING CONDITIONS SHOWN ON THE DRAWINGS WERE TAKEN FROM ORIGINAL DOCUMENTS AND FIELD OBSERVATIONS. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY FOR RESOLUTION.
2. DO NOT REMOVE OR DISCONNECT ANY MAJOR MECHANICAL OR ELECTRICAL ITEMS (PIPES, DUCTS, CONDUITS, DEVICES, EQUIPMENT, ETC.) INDICATED FOR SUCH BEFORE VERIFYING THAT SERVICES TO OTHER AREAS OF THE CAMPUS AND/OR THIS BUILDING WILL NOT BE AFFECTED. CONSULT BUILDING MAINTENANCE PERSONNEL AS NEEDED TO ASSIST IN THE DETERMINATION OF UNANTICIPATED ITEMS LOCATED DURING THE DEMOLITION PROCESS. OTHER AREAS OF THE BUILDING MUST REMAIN 100% OPERATIONAL DURING THE DEMOLITION WORK.
3. ON DEMOLITION DRAWINGS, FIXTURES, PIPING, FITTINGS, EQUIPMENT AND ACCESSORIES SHOWN SOLID ARE INTENDED TO REMAIN. DEVICES, CONDUIT AND CIRCUITS SHOWN BOLD AND DASHED ARE TO BE REMOVED.
4. THE OWNER MAINTAINS RIGHT OF REFUSAL OF ALL ITEMS. IF ITEMS ARE NOT RETAINED BY THE OWNER THEY SHALL BE LEGALLY REMOVED FROM THE SITE AND DISPOSED OF BY THIS CONTRACTOR.
5. CONTRACTOR SHALL REPAIR ALL WALL, FLOOR AND CEILING PENETRATIONS WHERE NECESSARY DUE TO NEW CONSTRUCTION. REPAIRS SHALL MATCH EXISTING SURFACES AND MAINTAIN PROPER FIRE/SMOKE RATING.
5. COORDINATE INSTALLATION OF EQUIPMENT AND SYSTEMS WITH ALL OTHER TRADES AND UTILITIES. ANY VARIANCE IN LAYOUT SHOULD BE COORDINATED WITH OWNER/ENGINEER.
6. ALL PIPING, HANGERS, SUPPORTS, AND ETC. SHALL BE INSTALLED AS HIGH AS POSSIBLE TO MAINTAIN MAXIMUM CLEARANCE. WITH MINIMUM 12" ABOVE ACCESSIBLE CEILINGS.
7. COORDINATE INSTALLATION WITH ALL REQUIRED CLEARANCES SHOWN. ANY VARIANCE IN LAYOUT SHOULD BE COORDINATED WITH OWNER/ENGINEER.
8. COORDINATE WITH G/C AND STRUCTURAL ENGINEER FOR RESTRICTIONS ON FLOOR PENETRATION CORE DRILLING LOCATIONS.

B&A Project No. G32-005-190

Project No: 16004R22004

GLMV Architecture
1023 E. Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

BRACK ASSOCIATES CONSULTING ENGINEERS
P. (785) 271-3444
Topeka, KS 66606
BSA Filing # 1122-000-283

BRUCE A. BROWN LICENSED # 18099 8/19/24 KANSAS PROFESSIONAL ENGINEER
License -Kansas - 18099

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

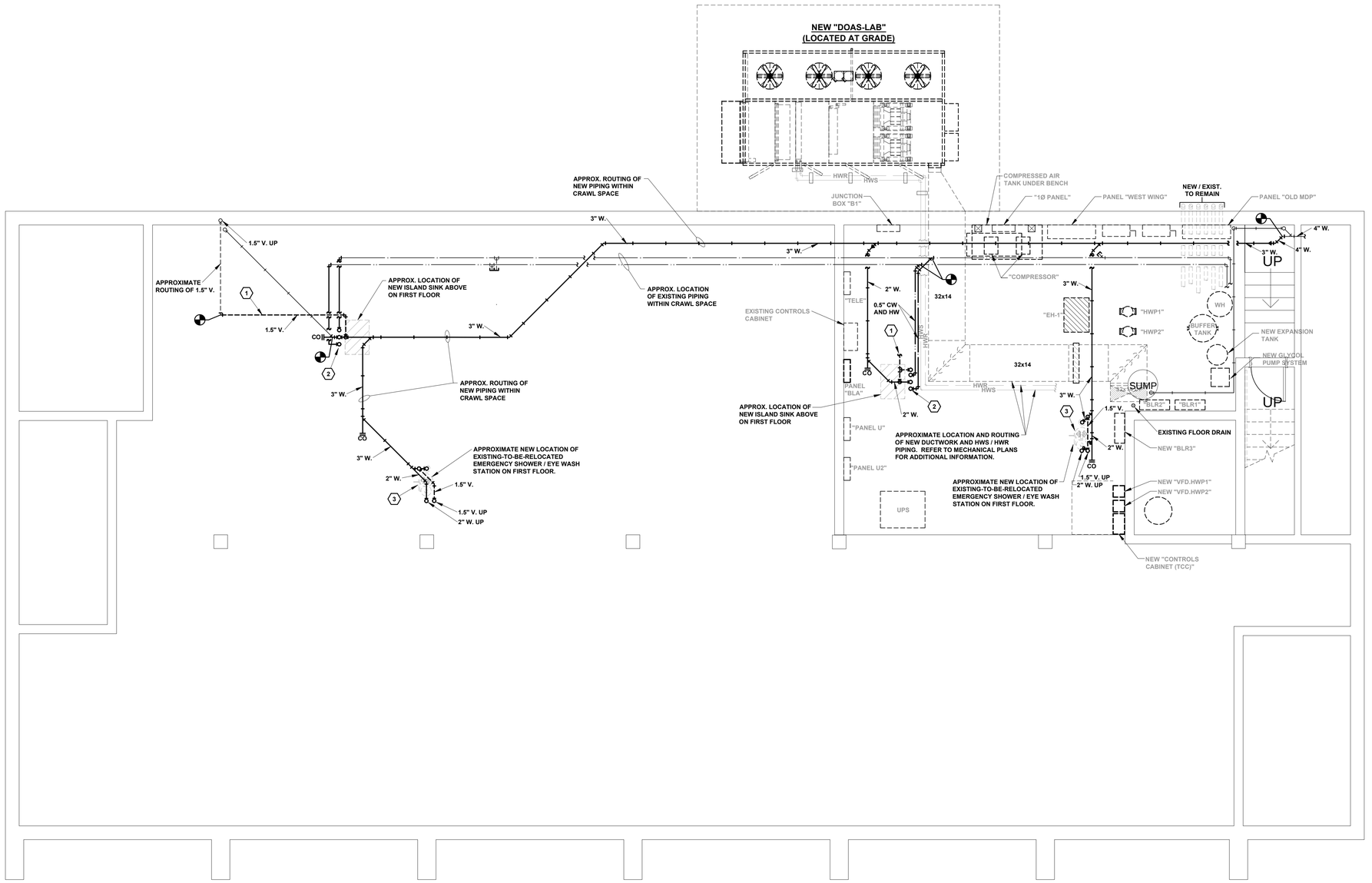
ISSUE DATE: 08/19/24 DRAWN BY: BAB CHECKED BY: JLB REV:

BASEMENT PLUMBING DEMOLITION PLAN

A-014835Rev

PB00

ORIGINAL CONTRACT DOCUMENTS



NORTH

BASEMENT PLUMBING IMPROVEMENT PLAN

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

NOTES:

1. ROUTE NEW 1.5" VENT PIPING TO NEAREST CONNECTION POINT OF EXISTING PROPERLY SIZED PIPING.
2. 2" W, 1.5" V, 0.5" CW, 0.5" HW UP TO SERVE ISLAND SINK ON FIRST FLOOR.
3. APPROXIMATE LOCATION OF EXISTING-TO-BE-RELOCATED EMERGENCY SHOWER / EYE WASH STATION ON FIRST FLOOR. PROVIDE NEW FLOOR DRAIN, 2"W, AND 1.5" V PIPING AS INDICATED.

GENERAL NOTES:

1. EXISTING CONDITIONS SHOWN ON THE DRAWINGS WERE TAKEN FROM ORIGINAL DOCUMENTS AND FIELD OBSERVATIONS. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY FOR RESOLUTION.
2. DO NOT REMOVE OR DISCONNECT ANY MAJOR MECHANICAL OR ELECTRICAL ITEMS (PIPES, DUCTS, CONDUITS, DEVICES, EQUIPMENT, ETC.) INDICATED FOR SUCH BEFORE VERIFYING THAT SERVICES TO OTHER AREAS OF THE CAMPUS AND/OR THIS BUILDING WILL NOT BE AFFECTED. CONSULT BUILDING MAINTENANCE PERSONNEL AS NEEDED TO ASSIST IN THE DETERMINATION OF UNANTICIPATED ITEMS LOCATED DURING THE DEMOLITION PROCESS. OTHER AREAS OF THE BUILDING MUST REMAIN 100% OPERATIONAL DURING THE DEMOLITION WORK.
3. ON DEMOLITION DRAWINGS, FIXTURES, PIPING, FITTINGS, EQUIPMENT AND ACCESSORIES SHOWN SOLID ARE INTENDED TO REMAIN. DEVICES, CONDUIT AND CIRCUITS SHOWN BOLD AND DASHED ARE TO BE REMOVED.
4. THE OWNER MAINTAINS RIGHT OF REFUSAL OF ALL ITEMS. IF ITEMS ARE NOT RETAINED BY THE OWNER THEY SHALL BE LEGALLY REMOVED FROM THE SITE AND DISPOSED OF BY THIS CONTRACTOR.
5. CONTRACTOR SHALL REPAIR ALL WALL, FLOOR AND CEILING PENETRATIONS WHERE NECESSARY DUE TO NEW CONSTRUCTION. REPAIRS SHALL MATCH EXISTING SURFACES AND MAINTAIN PROPER FIRE/SMOKE RATING.
5. COORDINATE INSTALLATION OF EQUIPMENT AND SYSTEMS WITH ALL OTHER TRADES AND UTILITIES. ANY VARIANCE IN LAYOUT SHOULD BE COORDINATED WITH OWNER/ENGINEER.
6. ALL PIPING, HANGERS, SUPPORTS, AND ETC. SHALL BE INSTALLED AS HIGH AS POSSIBLE TO MAINTAIN MAXIMUM CLEARANCE. WITH MINIMUM 12" ABOVE ACCESSIBLE CEILINGS.
7. COORDINATE INSTALLATION WITH ALL REQUIRED CLEARANCES SHOWN. ANY VARIANCE IN LAYOUT SHOULD BE COORDINATED WITH OWNER/ENGINEER.
8. COORDINATE WITH G/C AND STRUCTURAL ENGINEER FOR RESTRICTIONS ON FLOOR PENETRATION CORE DRILLING LOCATIONS.

B&A Project No. G32-005-190

Project No: 16004R22004

GLMV Architecture
1523 E. Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

BRACK ASSOCIATES CONSULTING ENGINEERS
P. (785) 271-3444
Topeka, KS 66614
BSA Firm# # 1122-000-280

BRUCE A. BROWN
LICENSED
18099
8/19/24
KANSAS
PROFESSIONAL ENGINEER
License -Kansas - 18099

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

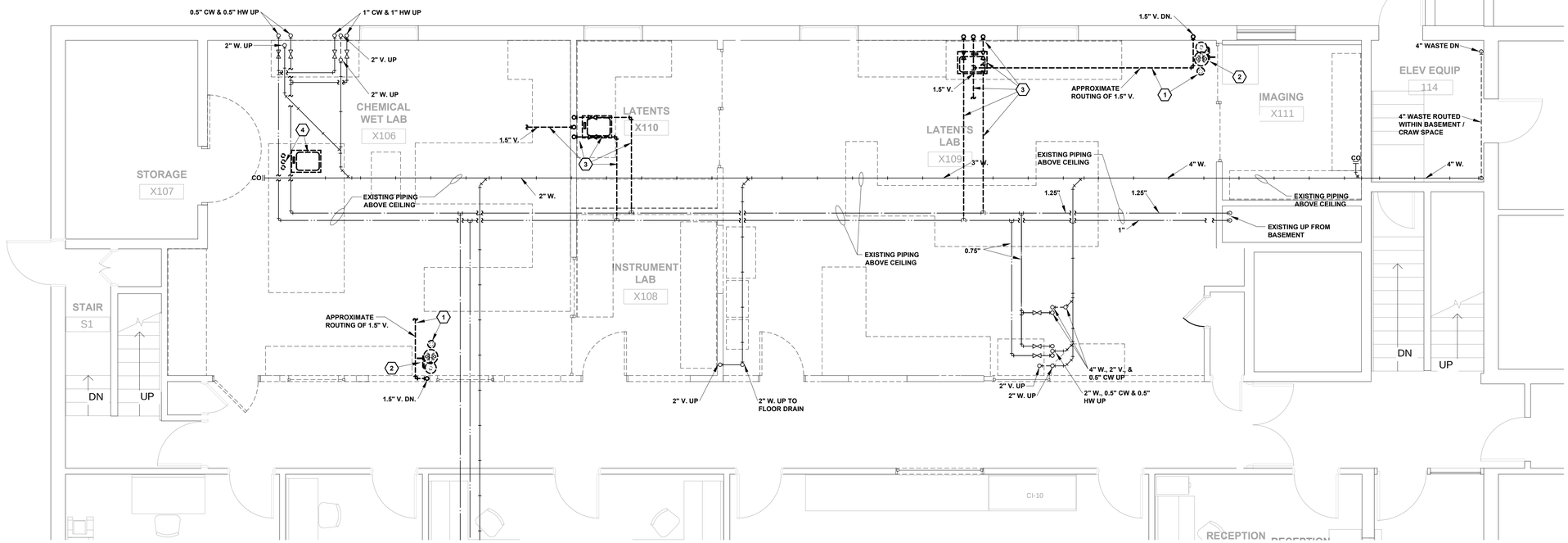
ISSUE DATE: 08/19/24 DRAWN BY: BAB CHECKED BY: JLB REV:

BASEMENT PLUMBING IMPROVEMENT PLAN

A-014835Rev

PB01

ORIGINAL CONTRACT DOCUMENTS



NORTH

FIRST FLOOR PLUMBING DEMOLITION PLAN - PHASE 2

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

NOTES:

1. REMOVE EMERGENCY SHOWER / EYE WASH STATION FLOOR DRAIN, WASTE PIPING, AND VENT PIPING BACK TO MAIN PIPING AND CAP. INFILL CONCRETE FLOOR AND COORDINATE WITH G/C FOR FLOOR PATCH.
2. EXISTING EMERGENCY SHOWER / EYE WASH STATION TO BE RELOCATED. REMOVE EXISTING DOMESTIC HW, CW, AND VENT PIPING BACK TO MAIN(S) AND CAP. REFER TO PLUMBING IMPROVEMENT PLAN FOR NEW LOCATION OF EXISTING STATION.
3. REMOVE EXISTING SINK. REMOVE WASTE, VENT, HW, AND CW PIPING BACK TO MAIN(S) AND CAP. COORDINATE WITH G/C FOR WALL REPAIR.
4. REMOVE EXISTING ISLAND SINK. REMOVE WASTE & VENT AND HW &CW PIPING BACK TO MAIN PIPING AND CAP. INFILL CONCRETE FLOOR AND COORDINATE WITH G/C FOR FLOOR PATCH.

GENERAL NOTES:

1. EXISTING CONDITIONS SHOWN ON THE DRAWINGS WERE TAKEN FROM ORIGINAL DOCUMENTS AND FIELD OBSERVATIONS. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY FOR RESOLUTION.
2. DO NOT REMOVE OR DISCONNECT ANY MAJOR MECHANICAL OR ELECTRICAL ITEMS (PIPES, DUCTS, CONDUITS, DEVICES, EQUIPMENT, ETC.) INDICATED FOR SUCH BEFORE VERIFYING THAT SERVICES TO OTHER AREAS OF THE BUILDING WILL NOT BE AFFECTED. CONSULT BUILDING MAINTENANCE PERSONNEL AS NEEDED TO ASSIST IN THE DETERMINATION OF UNANTICIPATED ITEMS LOCATED DURING THE DEMOLITION PROCESS. OTHER AREAS OF THE BUILDING MUST REMAIN 100% OPERATIONAL DURING THE DEMOLITION WORK.
3. UNLESS NOTED OTHERWISE ON DEMOLITION DRAWINGS, FIXTURES, PIPING, FITTINGS, EQUIPMENT AND ACCESSORIES SHOWN SOLID ARE INTENDED TO REMAIN. FIXTURES, PIPING AND ACCESSORIES SHOWN BOLD AND DASHED ARE TO BE REMOVED.
4. THE OWNER MAINTAINS FIRST RIGHT OF REFUSAL OF ALL ITEMS. IF ITEMS ARE NOT RETAINED BY THE OWNER THEY SHALL BE LEGALLY REMOVED FROM THE SITE AND DISPOSED OF BY THIS CONTRACTOR.
5. CONTRACTOR SHALL REPAIR ALL WALL, FLOOR AND CEILING PENETRATIONS WHERE NECESSARY DUE TO NEW CONSTRUCTION. REPAIRS SHALL MATCH EXISTING SURFACES AND MAINTAIN PROPER FIRE/SMOKE RATING.
6. COORDINATE WITH G/C AND STRUCTURAL ENGINEER FOR RESTRICTIONS ON FLOOR PENETRATION CORE DRILLING LOCATIONS.

B&A Project No. G32-005-190

Project No: 16004R22004

GLMV Architecture
1023 E. Douglas, Wichita, KS 67211
Tel: (316) 265-9307
www.glmv.com

BRACK ASSOCIATES CONSULTING ENGINEERS
P: (785) 271-3444
Topeka, KS 66606
BSA Project # 1122-030-190

BRUCE A. BROWN LICENSED # 18099 8/19/24 KANSAS PROFESSIONAL ENGINEER
License -Kansas - 18099

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

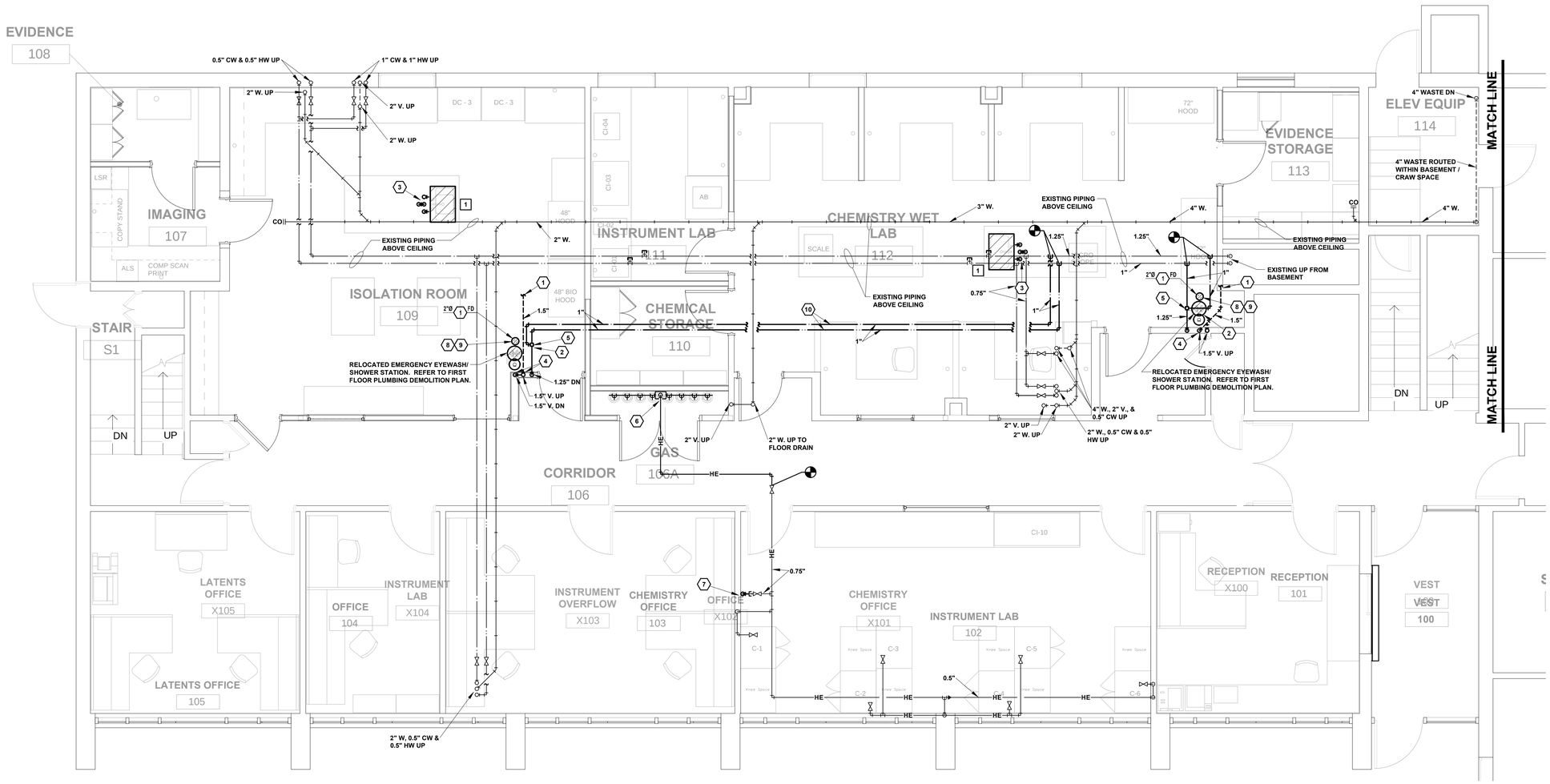
ISSUE DATE: 08/19/24 DRAWN BY: BAB CHECKED BY: JLB REV:

FIRST FLOOR PLUMBING DEMOLITION PLAN - PHASE 2

A-014835Rev

P100-2

ORIGINAL CONTRACT DOCUMENTS



NORTH

FIRST FLOOR PLUMBING IMPROVEMENT PLAN - PHASE 2

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

BRANCH PIPING FIXTURE CONNECTIONS:

ITEM	WASTE	VENT	COLD	HOT
ISLAND LAB SINK	2"	1.5"	0.5"	0.5"
EMERGENCY SHOWER/ EYE WASH	2"	1.5"	1"	1"

WATER HAMMER ARRESTOR SCHEDULE

TYPE	SIOUX CHIEF MODEL
AA	660 SERIES
A	652-A

PLUMBING FIXTURE SCHEDULE:

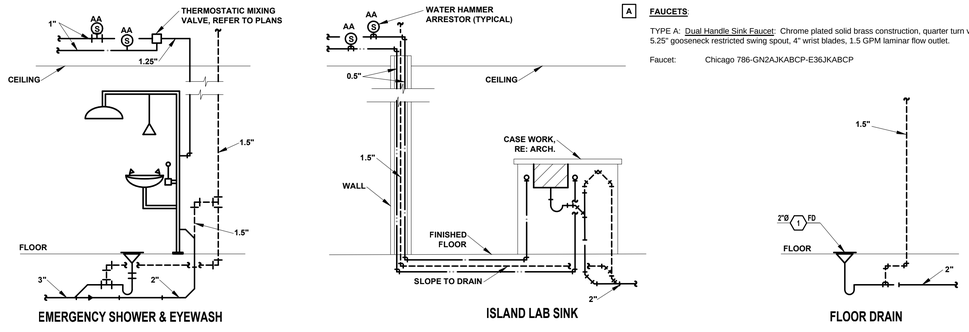
1 TYPE 1: Epoxy Counter Top with Integral Lab Sink : Countertop by General Contractor. Plumbing Contractor shall provide and install faucet, drain and all utility connections. Coordinate the required number and locations of faucet holes in counter top with the General Contractor.

Faucet: TYPE A
Drain: Acid resistant grid drain to match drain hole opening,
Provide Orion Plenum Plus Schedule 40 (PVDF) acid resistant tailpiece, P-trap and all aboveground piping.
Provide compatible fittings for all piping and utilize no-hub mechanical joint with stainless steel bands and 5/16" bolts.

A FAUCETS:

TYPE A: Dual Handle Sink Faucet: Chrome plated solid brass construction, quarter turn valve CERAMIC cartridges with 5.25" gooseneck restricted swing spout, 4" wrist blades, 1.5 GPM laminar flow outlet.

Faucet: Chicago 786-GN2AJKABCP-E36JKABCP



1 P101-2

TYPICAL PLUMBING RISER DIAGRAMS AND SCHEDULE

No Scale:

NOTES:

1. ROUTE NEW 1.5" VENT PIPING TO NEAREST CONNECTION POINT OF EXISTING PROPERLY SIZED PIPING.
2. 1" CW, 1" HW, AND 1.25" TEMPERED PIPING TO RELOCATED EMERGENCY SHOWER / EYE WASH STATION.
3. 2" W, 1.5" V, 0.5" CW, 0.5" HW UP FROM BASEMENT TO SERVE SINK. ROUTE 2" WASTE LINE AND 1.5" ISLAND VENT WITHIN CABINETS TO SERVE SINK. CONNECT TO NEAREST WASTE, VENT, HW, AND CW PIPING BELOW FLOOR.
4. PROVIDE CORE DRILL FOR NEW WASTE AND VENT PIPING.
5. PROVIDE AN ASSE 1071 COMPLIANT MIXING VALVE, LEONARD MODEL# TM-800-LF OR EQUAL, WITH ISOLATION VALVE, SWEAT UNION AND SPRING LOADED RESILIENT SEAT CHECK VALVE ON EACH OF THE HOT AND COLD WATER PIPING CONNECTIONS TO THE MIXING VALVE. LOCATE IN AN ACCESSIBLE LOCATION ABOVE CEILING FOR SERVICING.
6. PROVIDE AUTOMATIC 4X4 CHANGEOVER HELIUM MANIFOLD SYSTEM.
7. REMOVE PIPE DOWN TO TEMPORARY TANK LOCATION AND CAP VALVE ABOVE CEILING IN AN ACCESSIBLE LOCATION.
8. PROVIDE CORE DRILL FOR NEW FLOOR DRAIN. CONTRACTOR SHALL SLOPE / RE-SHAPE EXISTING CONCRETE FLOORING AS REQUIRED TO PROVIDE PROPER SLOPE FROM FINISH FLOOR ELEVATION TO NEW FLOOR DRAIN.
9. PROVIDE 2" W UP FROM BASEMENT TO NEW FLOOR DRAIN. REFER TO SHEET P801 FOR ROUTING NEW WASTE AND VENT LINES TO NEAREST EXISTING WASTE AND VENT PIPING BELOW FLOOR (WITHIN BASEMENT / CRAWLSPACE AREA).
10. ROUTE NEW 1" CW AND 1" HW PIPING FROM NEAREST CONNECTION POINT OF EXISTING PROPERLY SIZED PIPING TO EXISTING EMERGENCY SHOWER / EYE WASH STATION.

GENERAL NOTES:

1. EXISTING CONDITIONS SHOWN ON THE DRAWINGS WERE TAKEN FROM ORIGINAL DOCUMENTS AND FIELD OBSERVATIONS. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY FOR RESOLUTION.
2. DO NOT REMOVE OR DISCONNECT ANY MAJOR MECHANICAL OR ELECTRICAL ITEMS (PIPES, DUCTS, CONDUITS, DEVICES, EQUIPMENT, ETC.) INDICATED FOR SUCH BEFORE VERIFYING THAT SERVICES TO OTHER AREAS OF THE CAMPUS AND/OR THIS BUILDING WILL NOT BE AFFECTED. CONSULT BUILDING MAINTENANCE PERSONNEL AS NEEDED TO ASSIST IN THE DETERMINATION OF UNANTICIPATED ITEMS LOCATED DURING THE DEMOLITION PROCESS. OTHER AREAS OF THE BUILDING MUST REMAIN 100% OPERATIONAL DURING THE DEMOLITION WORK.
3. CONTRACTOR SHALL REPAIR ALL WALL, FLOOR AND CEILING PENETRATIONS WHERE NECESSARY DUE TO NEW CONSTRUCTION. REPAIRS SHALL MATCH EXISTING SURFACES AND MAINTAIN PROPER FIRE/SMOKE RATING.
4. COORDINATE INSTALLATION OF EQUIPMENT AND SYSTEMS WITH ALL OTHER TRADES AND UTILITIES. ANY VARIANCE IN LAYOUT SHOULD BE COORDINATED WITH OWNER/ENGINEER.
5. ALL PIPING, HANGERS, SUPPORTS, AND ETC. SHALL BE INSTALLED AS HIGH AS POSSIBLE TO MAINTAIN MAXIMUM CLEARANCE. WITH MINIMUM 12" ABOVE ACCESSIBLE CEILINGS.
6. COORDINATE INSTALLATION WITH ALL REQUIRED CLEARANCES SHOWN. ANY VARIANCE IN LAYOUT SHALL BE COORDINATED WITH OWNER/ENGINEER.
7. COORDINATE WITH G/C AND STRUCTURAL ENGINEER FOR RESTRICTIONS ON FLOOR PENETRATION CORE DRILLING LOCATIONS.

B&A Project No. G32-005-190

Project No: 16004R22004

GLMV Architecture
1523 E. Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

BRACK ASSOCIATES CONSULTING ENGINEERS
P: (785) 271-0844
Topeka, KS 66604
BAA Project # 112-030-280

License -Kansas - 18099

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

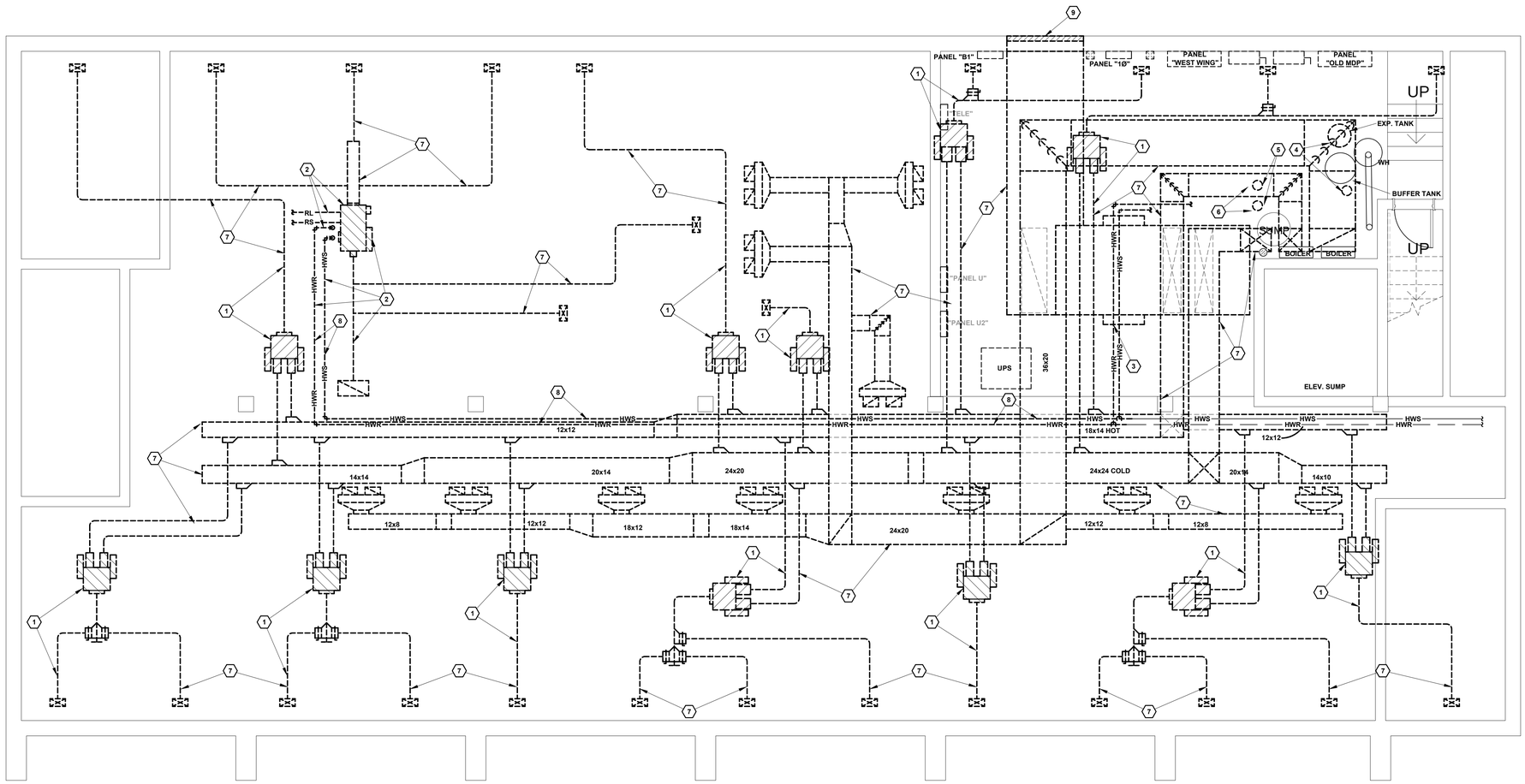
ISSUE DATE: 08/19/24 DRAWN BY: BAB CHECKED BY: JLB REV:

FIRST FLOOR PLUMBING IMPRO. PLAN - PHASE 2

A-014835Rev

P101-2

ORIGINAL CONTRACT DOCUMENTS



NORTH

BASEMENT HVAC DEMOLITION PLAN - PHASE 2

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

NOTES:

1. REMOVE EXISTING DUAL DUCT BOX AND ASSOCIATED DUCTWORK AS SHOWN.
2. REMOVE EXISTING BLOWER COIL AND ASSOCIATED CONDENSING UNIT #4, DUCTWORK, HYDRONIC PIPING, AND REFRIGERANT PIPING.
3. REMOVE EXISTING AIR HANDLER UNIT AND ASSOCIATED DUCTWORK.
4. REMOVE EXISTING EXPANSION TANK, SHOT FEEDER AND ASSOCIATED PIPING.
5. REMOVE HEATING HOT WATER PUMP AND ASSOCIATED ACCESSORIES.
6. M/C TO PROVIDE TESTING AND REPORT OF EXISTING PUMP FLOW RATES PRIOR TO THE START OF ANY DEMOLITION OR NEW INSTALLATION OF THE HEATING HOT WATER SYSTEM. TESTING SHALL BE PROVIDED BY THE TAB CONTRACTOR (REFER TO SPECIFICATION SECTION 230593) AND SHALL PROVIDE AT A MINIMUM THE FOLLOWING INFORMATION:
   - PUMP MANUFACTURER, MODEL NUMBER, SERIES, ETC.
   - PUMP CONSTRUCTION TYPE
   - INLET AND DISCHARGE SIZE
   - FLOW (MIN./MAX. GPM)
   - TOTAL HEAD
   - FLUID TEMPERATURE
   - MOTOR HORSEPOWER, RPM , VOLTAGE, PHASE, AMPERAGE
   - CONTROL SEQUENCE
7. CONTRACTOR SHALL REMOVE ALL EXISTING DUCTWORK AND ASSOCIATED MATERIALS WITHIN THE BASEMENT AND CRAWLSPACE AREAS.
8. REMOVE EXISTING HYDRONIC PIPING.
9. REMOVE EXISTING OUTSIDE AIR LOUVER WITHIN BASEMENT WALL AS INDICATED. CONTRACTOR SHALL PROVIDE WATERTIGHT CMU BLOCK INFILL WITHIN EXISTING BASEMENT WALL AFTER NEW DUCTWORK AND HWS / HWR PIPING HAVE BEEN INSTALLED. REFER TO SHEETS MB01-2 AND M101-2 FOR ADDITIONAL INFORMATION.

GENERAL NOTES:

1. EXISTING CONDITIONS SHOWN ON THE DRAWINGS WERE TAKEN FROM ORIGINAL DOCUMENTS AND FIELD OBSERVATIONS. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY FOR RESOLUTION.
2. DO NOT REMOVE OR DISCONNECT ANY MAJOR MECHANICAL OR ELECTRICAL ITEMS (PIPES, DUCTS, CONDUITS, DEVICES, EQUIPMENT, ETC.) INDICATED FOR SUCH BEFORE VERIFYING THAT SERVICES TO OTHER AREAS OF THE BUILDING WILL NOT BE AFFECTED. CONSULT BUILDING MAINTENANCE PERSONNEL AS NEEDED TO ASSIST IN THE DETERMINATION OF UNANTICIPATED ITEMS LOCATED DURING THE DEMOLITION PROCESS. OTHER AREAS OF THE BUILDING MUST REMAIN 100% OPERATIONAL DURING THE DEMOLITION WORK.
3. DUCTWORK, PIPING EQUIPMENT AND ACCESSORIES SHOWN SOLID ARE INTENDED TO REMAIN. DUCTWORK, PIPING EQUIPMENT AND ACCESSORIES SHOWN BOLD AND DASHED ARE TO BE REMOVED.
4. THE OWNER MAINTAINS FIRST RIGHT OF REFUSAL OF ALL ITEMS. IF ITEMS ARE NOT RETAINED BY THE OWNER THEY SHALL BE LEGALLY REMOVED FROM THE SITE AND DISPOSED OF BY THIS CONTRACTOR.
5. CONTRACTOR SHALL REPAIR ALL WALL, FLOOR AND CEILING PENETRATIONS WHERE NECESSARY DUE TO NEW CONSTRUCTION. REPAIRS SHALL MATCH EXISTING SURFACES AND MAINTAIN PROPER FIRE/SMOKE RATING.
6. OWNER SHALL REMOVE ANY ASBESTOS CONTAINING MATERIAL PRIOR TO STARTING CONSTRUCTION.
7. THIS CONTRACTOR TO COORDINATE REMOVAL OF DUCTWORK WITH ABATEMENT CONTRACTOR.
8. REMOVE ALL EXISTING PNEUMATIC PIPE AND TUBING IN BASEMENT AND FIRST FLOOR.

B&A Project No. G32-005-190

Project No: 16004R22004

GLMV Architecture
1023 E. Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

BRACK ASSOCIATES CONSULTING ENGINEERS
P: (785) 271-3444
F: (785) 271-3445
Topeka, KS 66604
BAA Project # 1122-030-190

BRUCE A. BROWN LICENSED # 18099 8/19/24 KANSAS PROFESSIONAL ENGINEER
License -Kansas - 18099

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

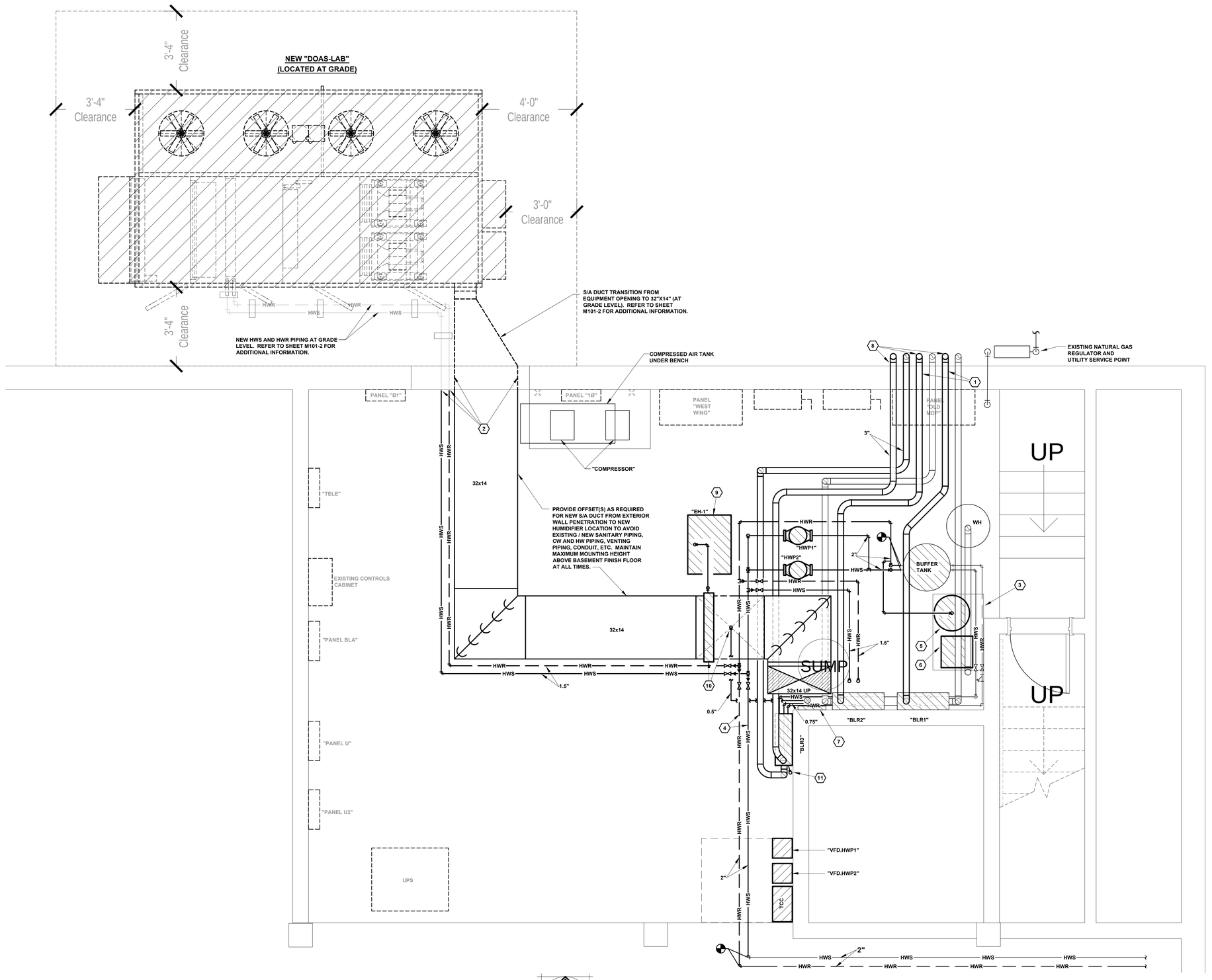
ISSUE DATE: 08/19/24 DRAWN BY: BAB CHECKED BY: JLB REV:

FIRST FLOOR HVAC DEMOLITION PLAN - PHASE 2

A-014835Rev

MB00-2

ORIGINAL CONTRACT DOCUMENTS



NORTH

ENLARGED BASEMENT HVAC IMPROVEMENT PLAN - PHASE 2

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

NOTES:

1. REPLACE EXISTING 3" PVC BOILER FLUE PIPING WITH NEW 3" CPVC PIPING.
2. ROUTE NEW REFRIGERANT PIPING THROUGH BASEMENT.CONTRACTOR SHALL ROUTE NEW INSULATED SUPPLY DUCTWORK AND NEW INSULATED HWS/HWR PIPING WITHIN WITHIN EXISTING LOUVER OPENING IN EXTERIOR WALL. CONTRACTOR SHALL ALLOW APPROX. 3" (ON ALL SIDES) FOR TREATED 2X WOOD TO BE INSERTED AND ANCHORED WITHIN THE WALL OPENING. INSTALL SHEET METAL CLOSURE ANGLES ON ALL FOUR (4) SIDES OF OPENING BETWEEN TREATED WOOD AND DUCTWORK, HWS PIPING, AND HWR PIPING. PROVIDE WEATHERPROOF SEALANT AT SEAM BETWEEN METAL CLOSURE ANGELS AND DUCTWORK AND/OR HWS, HWR PIPING. PROVIDE EXTERIOR AND INTERIOR FINISH TO MATCH ADJACENT MATERIALS. PAINT NEW EXTERIOR AND INTERIOR MATERIALS TO MATCH ADJACENT WALL SURFACES.
3. PROVIDE NEW 4" HIGH CONCRETE EQUIPMENT PAD .
4. ROUTE NEW 2" HWS/HWR PIPING TO EAST WING.
5. NEW HEATING HOT WATER EXPANSION TANK.
6. NEW HEATING HOT WATER GLYCOL PUMP SYSTEM
7. EXISTING HEATING HOT WATER SYSTEM BACKFLOW PREVENTER AND PRESSURE REGULATOR TO REMAIN. REFER TO DETAIL 2/M402 FOR CONNECTION TO NEW HEATING HOT WATER SYSTEM.
8. EXTEND FLUE UP TO A MINIMUM 30" CLEAR ABOVE TOP OF FIRST FLOOR WINDOW OPENING.
9. FREE STANDING HUMIDIFIER GENERATOR. PROVIDE 0.5" CW FROM EXISTING BACKFLOW PREVENTER TO HUMIDIFIER AND AFTER COOLER. EXTEND HUMIDIFIER AND AFTER COOLER DRAINS TO FLOOR DRAIN.
10. MOUNT HUMIDIFIER DISPERSION ASSEMBLY IN SUPPLY DUCTWORK. PROVIDE STAINLESS STEEL SECTION OF DUCT WITH BOTTOM BREAK AND DRAIN. EXTEND 0.5" DRAIN TO FLOOR DRAIN.
11. ROUTE CONDENSATE DRAIN PIPING FROM SECOND FLOOR CEILING CASSETTE DOWN TO BASEMENT FLOOR DRAIN. REFER TO SHEET M101-2 FOR ADDITIONAL INFORMATION.

GENERAL NOTES:

1. EXISTING CONDITIONS SHOWN ON THE DRAWINGS WERE TAKEN FROM ORIGINAL DOCUMENTS AND FIELD OBSERVATIONS. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY FOR RESOLUTION.
2. DO NOT REMOVE OR DISCONNECT ANY MAJOR MECHANICAL OR ELECTRICAL ITEMS (PIPES, DUCTS, CONDUITS, DEVICES, EQUIPMENT, ETC.) INDICATED FOR SUCH BEFORE VERIFYING THAT SERVICES TO OTHER AREAS OF THE BUILDING WILL NOT BE AFFECTED. CONSULT BUILDING MAINTENANCE PERSONNEL AS NEEDED TO ASSIST IN THE DETERMINATION OF UNANTICIPATED ITEMS LOCATED DURING THE DEMOLITION PROCESS. OTHER AREAS OF THE BUILDING MUST REMAIN 100% OPERATIONAL DURING THE DEMOLITION WORK.
3. CONTRACTOR SHALL REPAIR ALL WALL, FLOOR AND CEILING PENETRATIONS WHERE NECESSARY DUE TO NEW CONSTRUCTION. REPAIRS SHALL MATCH EXISTING SURFACES AND MAINTAIN PROPER FIRE/SMOKE RATING.
5. COORDINATE INSTALLATION OF EQUIPMENT AND SYSTEMS WITH ALL OTHER TRADES AND UTILITIES. ANY VARIANCE IN LAYOUT SHOULD BE COORDINATED WITH OWNER/ENGINEER.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING LABELS ON ALL NEW EQUIPMENT. LABELS SHALL BE AS OUTLINED IN THE SPECIFICATIONS.
7. COORDINATE INSTALLATION WITH ALL REQUIRED CLEARANCES SHOWN. ANY VARIANCE IN LAYOUT SHOULD BE COORDINATED WITH OWNER/ENGINEER.

B&A Project No. G32-005-190

Project No: 16004R22004

GLMV Architecture
1023 E. Douglas, Wichita, KS 67211
Tel: (316) 265-9307
www.glmv.com

BRACK ASSOCIATES CONSULTING ENGINEERS
P: (785) 271-0844
Topeka, KS 66614
BSA Project # 112C-050.000

BRUCE A. BROWN
LICENSED
18099
6/19/24
KANSAS
PROFESSIONAL ENGINEER
License -Kansas - 18099

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

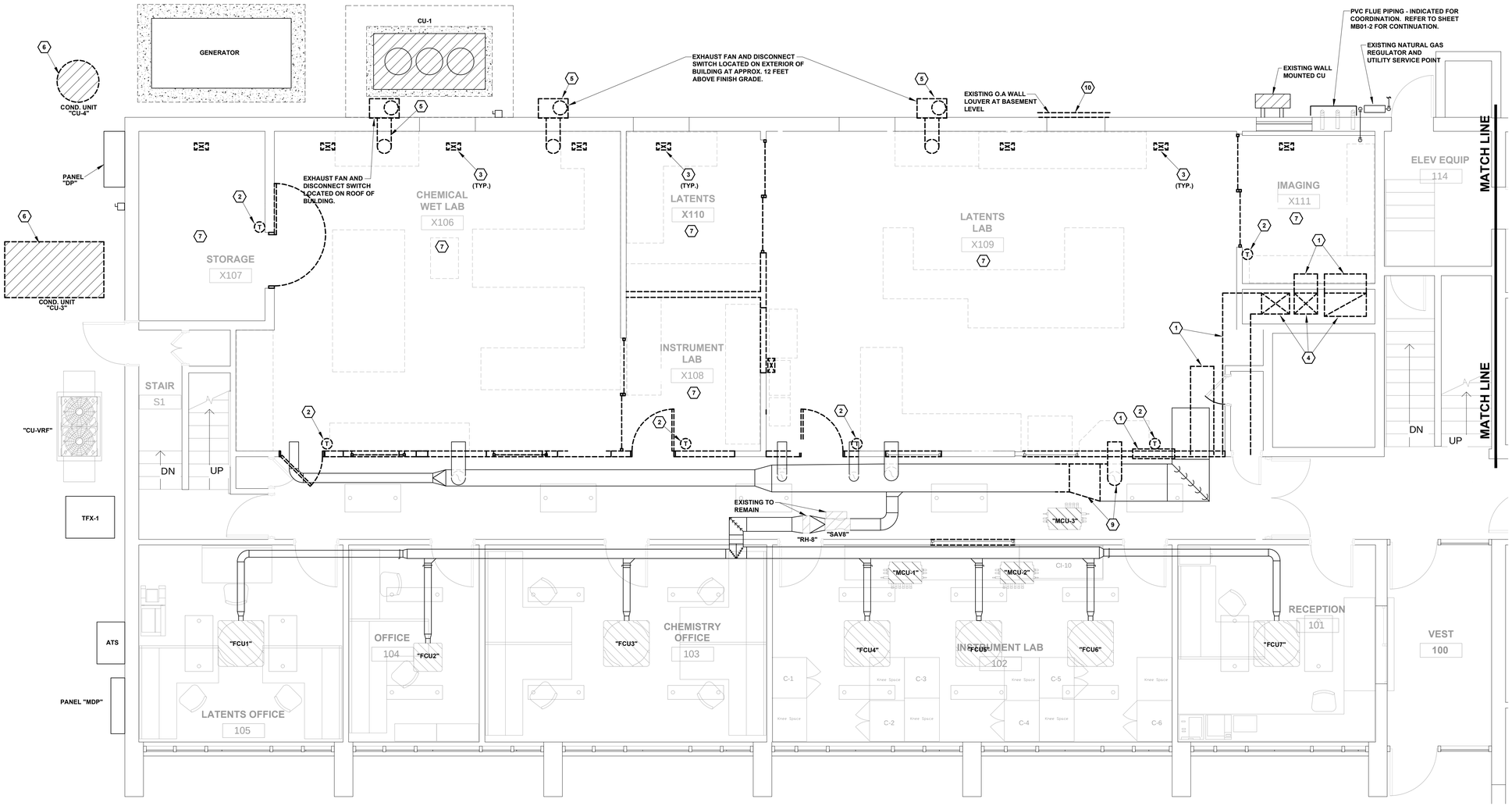
ISSUE DATE: 08/19/24 DRAWN BY: BAB CHECKED BY: JLB REV:

BASEMENT HVAC IMPROVEMENT PLAN - PHASE 2

A-014835Rev

MB01-2

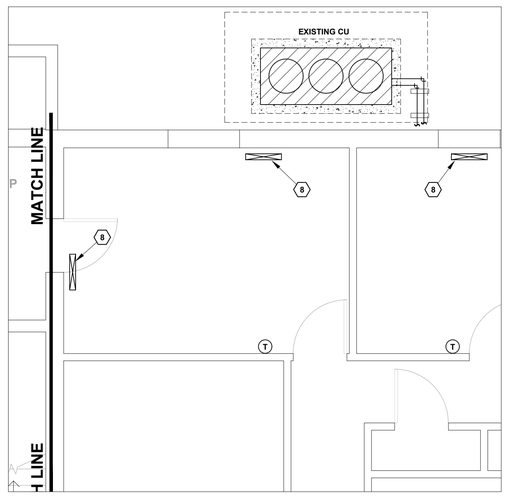
ORIGINAL CONTRACT DOCUMENTS



NORTH

FIRST FLOOR HVAC DEMOLITION PLAN - PHASE 2

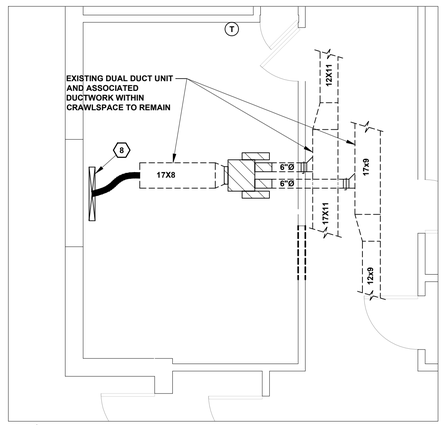
scale: 1/4" = 1'-0"



NORTH

FIRST FLOOR HVAC DEMOLITION PLAN - PHASE 2

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



NORTH

FIRST FLOOR HVAC DEMOLITION PLAN - PHASE 2

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

NOTES:

1. EXISTING DUCTWORK AND ASSOCIATED MATERIALS TO BE REMOVED.
2. REMOVE EXISTING THERMOSTAT.
3. REMOVE EXISTING FLOOR DIFFUSER AND ASSOCIATED DUCTWORK. INFILL CONCRETE FLOOR AND COORDINATE WITH G/C FOR FLOOR PATCH.
4. REMOVE DUCTWORK WITHIN CHASE BACK TO AHU.
5. REMOVE EXISTING WALL/ROOF MOUNTED EXHAUST FAN, MOUNTING HARDWARE AND SUPPORTS, ASSOCIATED DUCTWORK, AND DUCT COLLAR TO FUME HOOD. REPAIR ALL EXISTING WALL AND ROOF PENETRATIONS AS REQUIRED TO PROVIDE A WATER PROOF SEAL.
6. REMOVE CONDENSING UNIT AND ALL ASSOCIATED REFRIGERANT PIPING, ANCHORS, SUPPORTS AND ACCESSORIES. REPAIR ALL EXISTING WALL PENETRATIONS AS REQUIRED TO PROVIDE A WATER PROOF SEAL.
7. REMOVE ALL EXISTING ABANDONED IN PLACE DUCTWORK ABOVE CEILING.
8. EXISTING FLOOR DIFFUSER, UNDER FLOOR DUCTWORK AND ALL ASSOCIATED MATERIALS TO REMAIN.
9. RELOCATE EXISTING TRANSITION AND 12" TAKE-OFF AS REQUIRED FOR CONNECTION OF NEW DUCT AND NEW SUPPLY AIR VALVE ("SA6"). EXTEND / PROVIDE ADDITIONAL NEW DUCTWORK AS REQUIRED. COORDINATE RELOCATION WITH EXISTING ABOVE CEILING MECH., ELEC., AND PLBG. EQUIPMENT, PIPING, HANGERS, ETC. REFER TO SHEET M101-2 FOR ADDITIONAL INFORMATION AND CONNECTION TO NEW SUPPLY AIR VALVE.
10. REMOVE EXISTING OUTSIDE AIR LOUVER WITHIN BASEMENT WALL AS INDICATED. CONTRACTOR SHALL PROVIDE WATERTIGHT CMU BLOCK INFILL WITHIN EXISTING BASEMENT WALL AFTER NEW DUCTWORK AND HWS AND HWR PIPING HAVE BEEN INSTALLED. REFER TO SHEETS MB00-2 AND M101-2 FOR ADDITIONAL INFORMATION.

GENERAL NOTES:

1. EXISTING CONDITIONS SHOWN ON THE DRAWINGS WERE TAKEN FROM ORIGINAL DOCUMENTS AND FIELD OBSERVATIONS. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY FOR RESOLUTION.
2. DO NOT REMOVE OR DISCONNECT ANY MAJOR MECHANICAL OR ELECTRICAL ITEMS (PIPES, DUCTS, CONDUITS, DEVICES, EQUIPMENT, ETC.) INDICATED FOR SUCH BEFORE VERIFYING THAT SERVICES TO OTHER AREAS OF THE BUILDING WILL NOT BE AFFECTED. CONSULT BUILDING MAINTENANCE PERSONNEL AS NEEDED TO ASSIST IN THE DETERMINATION OF UNANTICIPATED ITEMS LOCATED DURING THE DEMOLITION PROCESS. OTHER AREAS OF THE BUILDING MUST REMAIN 100% OPERATIONAL DURING THE DEMOLITION WORK.
3. DUCTWORK, PIPING, EQUIPMENT AND ACCESSORIES SHOWN SOLID ARE INTENDED TO REMAIN. DUCTWORK, PIPING, EQUIPMENT AND ACCESSORIES SHOWN BOLD AND DASHED ARE TO BE REMOVED.
4. THE OWNER MAINTAINS FIRST RIGHT OF REFUSAL OF ALL ITEMS. IF ITEMS ARE NOT RETAINED BY THE OWNER THEY SHALL BE LEGALLY REMOVED FROM THE SITE AND DISPOSED OF BY THIS CONTRACTOR.
5. CONTRACTOR SHALL REPAIR ALL WALL, FLOOR AND CEILING PENETRATIONS WHERE NECESSARY DUE TO NEW CONSTRUCTION. REPAIRS SHALL MATCH EXISTING SURFACES AND MAINTAIN PROPER FIRE/SMOKE RATING.
6. OWNER SHALL REMOVE ANY ASBESTOS CONTAINING MATERIAL PRIOR TO STARTING CONSTRUCTION.
7. REMOVE ALL PNEUMATIC TUBING BACK TO SOURCE AND CAP. CRIMPED ENDS ARE NOT ACCEPTABLE.

B&A Project No. G32-005-190

Project No: 16004R22004

GLMV Architecture
1023 E. Douglas, Wichita, KS 67211
Tel: (316) 265-9307
www.glmv.com

BRACK ASSOCIATES CONSULTING ENGINEERS
P: (785) 271-5844
Topeka, KS 66606
B&A Project # 132-005-190

BRUCE A. BROWN LICENSED # 18099 8/19/24 KANSAS PROFESSIONAL ENGINEER
License -Kansas - 18099

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

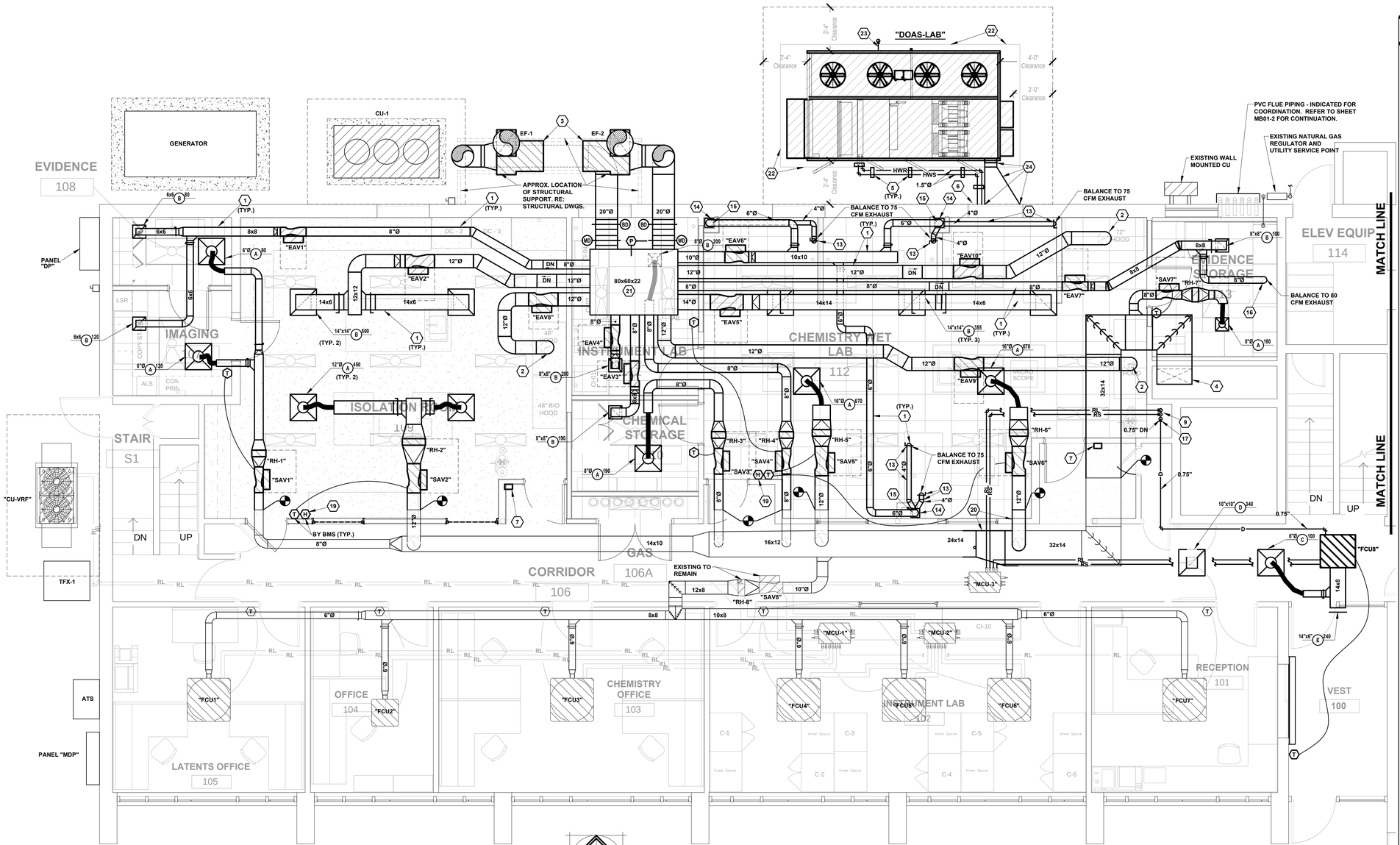
ISSUE DATE: 08/19/24 DRAWN BY: BAB CHECKED BY: JLB REV:

FIRST FLOOR HVAC DEMOLITION PLAN - PHASE 2

A-014835Rev

M100-2

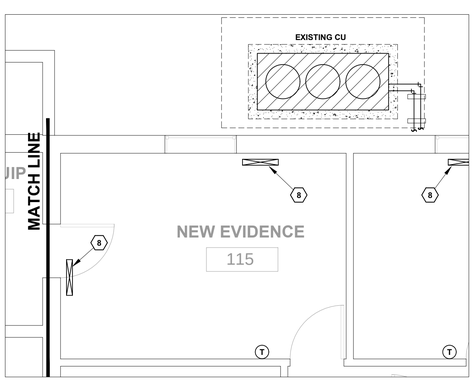
ORIGINAL CONTRACT DOCUMENTS



NORTH

FIRST FLOOR HVAC IMPROVEMENT PLAN - PHASE 2

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

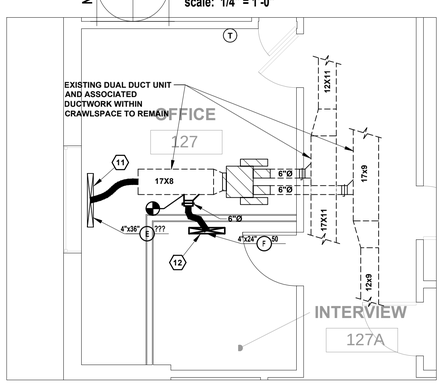


MECHANICAL CONTRACTOR SHALL PROVIDE FIELD MEASUREMENTS OF EXISTING AND NEW VRF SYSTEM PIPING TO ENGINEER PRIOR TO SUBMITTING SHOP DRAWING SUMBITTALS. MECHANICAL CONTRACTOR SHALL UTILIZE A "PIPING LADDER DIAGRAM" AS PROVIDED BY THE EQUIPMENT MANUFACTURER TO MEASURE AND RECORD THE LIQUID PIPE MEASUREMENT(S) FOR THE ENTIRE EXISTING SYSTEM. MECHANICAL CONTRACTOR SHALL THEN RETURN THE COMPLETED "PIPING LADDER DIAGRAM" WITH THE FIELD MEASUREMENTS TO THE VRF EQUIPMENT SUPPLIER TO BE UTILIZED FOR CALCULATION OF THE NEW TOTAL TRIM / ADDED REFRIGERANT CHARGE TO THE SYSTEM.

NORTH

FIRST FLOOR HVAC IMPROVEMENT PLAN - PHASE 2

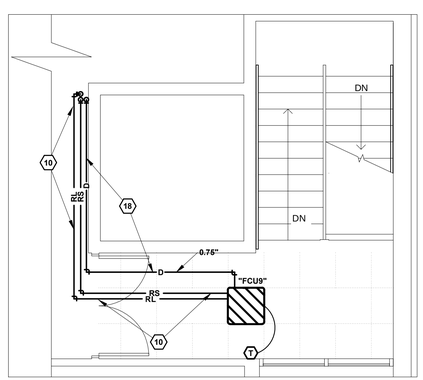
scale: 1/4" = 1'-0"



NORTH

FIRST FLOOR HVAC IMPROVEMENT PLAN - PHASE 2

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



NORTH

SECOND FLOOR HVAC IMPROVEMENT PLAN - PHASE 2

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

NOTES:

1. ALL EXHAUST DUCTWORK AND FITTINGS SHALL BE:
   - TYPE 316 STAINLESS STEEL WITH WELDED JOINTS
   OR
   - TYPE 316 STAINLESS STEEL WITH PRE-MANUFACTURED DUCT SYSTEM, SEALED, LOCK-TIGHT CONNECTION/JOINTS, SIMILAR TO SCHEBLER MODEL SW
   OR
   - TYPE 1 uPVC (UNPLASTICIZED POLYVINYL CHLORIDE) WITH SEALED, LOCK-TIGHT CONNECTION/JOINTS
2. ROUTE 12"Ø STAINLESS STEEL EXHAUST DUCT DOWN TO OWNER-PROVIDED FUME HOOD. CONTRACTOR SHALL MAKE FINAL EXHAUST DUCT CONNECTION PER THE E/M REQUIREMENTS. PROVIDE TRIM/BEAUTY RING AT CEILING PENETRATION.
3. EXHAUST FAN(S) SHALL BE MOUNTED FROM AND SUPPORTED BY A STRUCTURAL PLATFORM. REFER TO DETAIL 3/M402. REFER TO STRUCTURAL FOR EXHAUST FAN PLATFORM SIZE, CONFIGURATION, DIMENSIONS AND CONSTRUCTION MATERIALS AND SIZING.
4. 32x14 SUPPLY DUCT DOWN TO BASEMENT. REFER TO BASEMENT MECHANICAL PLANS.
5. PROVIDE PIPE STANDS WITH PIPE GUIDES FOR HWS AND HWR PIPING. PROVIDE PIPE STAND SPACING PER MANUFACTURER'S RECOMMENDATIONS.
6. CONTRACTOR SHALL ROUTE NEW HWS AND HWR PIPING WITHIN EXISTING-TO-BE-REMOVED OUTSIDE AIR LOUVER LOCATION. COORDINATE EXACT LOCATION OF LOUVER WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION. REFER TO BASEMENT HVAC IMPROVEMENT PLAN - PHASE 2 FOR CONTINUATION OF PIPING.
7. ROOM PRESSURE CONTROLLER.
8. EXISTING FLOOR DIFFUSER AND ALL UNDER FLOOR DUCTWORK, ASSOCIATED MATERIALS TO REMAIN. EXISTING SUPPLY CFM QUANTITY AND THROW TO REMAIN.
9. ROUTE VRF PIPING FROM "MCU3" UP TO SECOND FLOOR AND CONNECT TO CEILING CASSETTE. PIPING SIZED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO SECOND FLOOR MECHANICAL PLAN (THIS SHEET) FOR ADDITIONAL INFORMATION.
10. ROUTE VRF PIPING FROM SECOND FLOOR CEILING CASSETTE TO FIRST FLOOR "MCU3". PIPING SIZED PER MANUFACTURER'S RECOMMENDATIONS.
11. EXISTING FLOOR DIFFUSER AND ALL UNDER FLOOR DUCTWORK, ASSOCIATED MATERIALS TO REMAIN. EXISTING SUPPLY CFM QUANTITY TO BE RE-BALANCED.
12. PROVIDE NEW FLOOR OPENING FOR NEW FLOOR DIFFUSER. CONTRACTOR SHALL REPAIR EXISTING ADJACENT FLOORING AS REQUIRED TO PROVIDE PROPER FINISH FLOOR INSTALLATION.
13. ROUTE 4"Ø STAINLESS STEEL EXHAUST DUCT BELOW COUNTER AND ROUTE WITHIN CABINET SPACE TO OWNER-PROVIDED EXHAUST SNORKEL MOUNTED AT COUNTERTOP/SHORT WALL. CONTRACTOR SHALL MAKE FINAL EXHAUST DUCT CONNECTION PER THE E/M REQUIREMENTS.
14. PROVIDE 8"X8" STAINLESS STEEL EXHAUST DUCT BELOW COUNTER SPACE FOR CONNECTION TO 6"Ø VERTICAL STAINLESS STEEL EXHAUST DUCT AND TO 4"Ø BELOW COUNTER HORIZONTAL STAINLESS STEEL EXHAUST DUCT(S).
15. ROUTE 6"Ø STAINLESS STEEL EXHAUST DUCT DOWN TO 8"X8" STAINLESS STEEL EXHAUST DUCT BELOW COUNTER AND PROVIDE FINAL CONNECTION.
16. ROUTE 6"Ø STAINLESS STEEL EXHAUST DUCT DOWN TO VENTILATED LOCKERS. CONTRACTOR SHALL MAKE FINAL EXHAUST DUCT CONNECTION AND PROVIDE TRIM RING AT ON THE INSIDE OF THE VENTILATED LOCKER OPENING/PENETRATION. COORDINATE EXACT REQUIREMENTS AND PENETRATION LOCATION WITH ARCHITECTURAL DRAWINGS.
17. ROUTE CONDENSATE DRAIN PIPING FROM FIRST AND SECOND FLOOR CEILING CASSETTE DOWN TO BASEMENT FLOOR DRAIN. REFER TO BASEMENT MECHANICAL PLAN (SHEET MB01-2) AND SECOND FLOOR MECHANICAL PLAN (THIS SHEET) FOR ADDITIONAL INFORMATION.
18. ROUTE CONDENSATE DRAIN PIPING FROM SECOND FLOOR CEILING CASSETTE TO BASEMENT FLOOR DRAIN.
19. PROVIDE LOW SELECT HUMIDITY SENSOR.
20. RELOCATE EXISTING TRANSITION AND 12" TAKE-OFF AS REQUIRED FOR CONNECTION OF NEW DUCT AND NEW SUPPLY AIR VALVE ("SAV"). EXTEND / PROVIDE ADDITIONAL NEW DUCTWORK AS REQUIRED. COORDINATE RELOCATION WITH EXISTING ABOVE CEILING MECH., ELEC., AND PLBG. EQUIPMENT, PIPING, HANGERS, ETC. REFER TO SHEET M100-2 FOR ADDITIONAL INFORMATION AND LOCATION OF EXISTING DUCTWORK AND TRANSITION.
21. EXHAUST PLENUM AND FITTINGS SHALL BE STAINLESS STEEL WITH WELDED JOINTS.
22. CONTRACTOR SHALL PROVIDE REINFORCED CONCRETE PAD/SLAB FOR NEW UNIT. CONCRETE SLAB SHALL BE A MINIMUM OF 6" IN DEPTH AND 6" LARGER THAN THE FOOTPRINT OF THE NEW UNIT ON ALL SIDES EXCEPT BUILDING SIDE. BUILDING SIDE OF NEW EQUIPMENT CONCRETE SLAB SHALL EXTEND TO EXISTING BUILDING SLAB/FOUNDATION. REFER TO NOTE #17 ON SHEET A101 FOR ADDITIONAL INFORMATION.
23. PROVIDE CONDENSATE DRAIN PIPE AND CONNECTION TO UNIT. ROUTE DRAIN PIPE TO EDGE OF CONCRETE SLAB AS INDICATED. REFER TO DETAIL 7/M400 FOR ADDITIONAL INFORMATION.
24. PROVIDE TRANSITION FROM UNIT'S SIDEWALL SUPPLY AIR OPENING (APPROX. 11"W x 39"H) TO 32"W x 14"H. SEAL AND PROVIDE AIR TIGHT CONNECTION AT UNIT. PROVIDE WATERTIGHT SEAL AT EXTERIOR WALL. REFER TO SHEET MB01-2 FOR CONTINUATION OF DUCTWORK.

GENERAL NOTES:

1. EXISTING CONDITIONS SHOWN ON THE DRAWINGS WERE TAKEN FROM ORIGINAL DOCUMENTS AND FIELD OBSERVATIONS. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND DRAWNGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY FOR RESOLUTION.
2. DO NOT REMOVE OR DISCONNECT ANY MAJOR MECHANICAL OR ELECTRICAL ITEMS (PIPES, DUCTS, CONDUITS, DEVICES, EQUIPMENT, ETC.) INDICATED FOR SUCH BEFORE VERIFYING THAT SERVICES TO OTHER AREAS OF THE CAMPUS AND/OR THIS BUILDING WILL NOT BE AFFECTED. CONSULT BUILDING MAINTENANCE PERSONNEL AS NEEDED TO ASSIST IN THE DETERMINATION OF UNANTICIPATED ITEMS LOCATED DURING THE DEMOLITION PROCESS. OTHER AREAS OF THE BUILDING MUST REMAIN 100% OPERATIONAL DURING THE DEMOLITION WORK.
3. CONTRACTOR SHALL REPAIR ALL WALL, FLOOR AND CEILING PENETRATIONS WHERE NECESSARY DUE TO NEW CONSTRUCTION. REPAIRS SHALL MATCH EXISTING SURFACES AND MAINTAIN PROPER FIRE/SMOKE RATING.
5. COORDINATE INSTALLATION OF EQUIPMENT AND SYSTEMS WITH ALL OTHER TRADES AND UTILITIES. ANY VARIANCE IN LAYOUT SHOULD BE COORDINATED WITH OWNER/ENGINEER.

GENERAL NOTES: (cont.)

6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING LABELS ON ALL NEW EQUIPMENT. LABELS SHALL BE AS OUTLINED IN THE SPECIFICATIONS.
7. ALL CONDUIT, HANGERS, SUPPORTS, AND ETC. SHALL BE INSTALLED AS HIGH AS POSSIBLE TO MAINTAIN MAXIMUM CLEARANCE. WITH MINIMUM 12" ABOVE ACCESSIBLE CEILINGS.
8. COORDINATE INSTALLATION WITH ALL REQUIRED CLEARANCES SHOWN. ANY VARIANCE IN LAYOUT SHOULD BE COORDINATED WITH OWNER/ENGINEER.
9. REFRIGERANT PIPING SIZES TO BE PROVIDED BY EQUIPMENT MANUFACTURER. PIPING ON DRAWING IS SCHEMATIC ONLY.
10. EXHAUST REGISTERS AND GRILLES SHALL BE HARD DUCTED. DO NOT USE FLEX DUCT.
11. PROVIDE SASH SENSORS AND PROXIMITY SENSORS ON BOTH NEW FUME HOODS AS WELL AS A RETRO KIT FOR THE EXISTING HOOD TO PROVIDE SAME.

B&A Project No. G32-005-190

GLMV Architecture
1523 E. Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

BRACK ASSOCIATES CONSULTING ENGINEERS
P. (785) 271-5844
Topeka, KS 66606
BAA Project # 1122-006-190

BRUCE A. BROWN LICENSED mech # 18099 6/19/24 KANSAS PROFESSIONAL ENGINEER
License -Kansas - 18099

Project No: 16004R22004

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

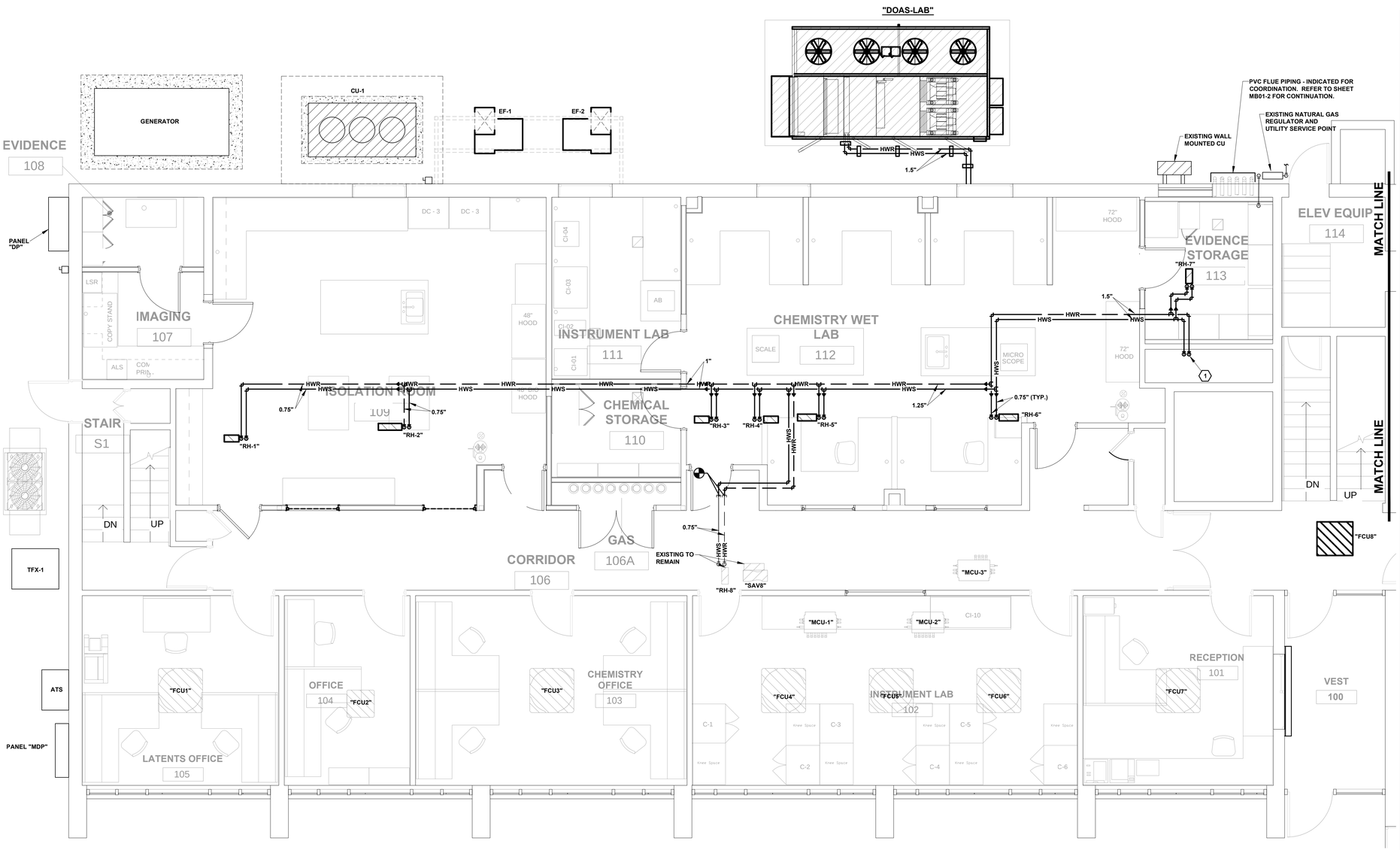
ISSUE DATE: 08/19/24 DRAWN BY: BAB CHECKED BY: JLB REV:

FIRST FLOOR HVAC IMPROVEMENT PLAN - PHASE 2

A-014835Rev

M101-2

ORIGINAL CONTRACT DOCUMENTS



NORTH

FIRST FLOOR HVAC PIPING IMPROVEMENT PLAN - PHASE 2

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

NOTES:

1. 1.5" HWS AND 1.5" HWR PIPING DOWN TO BASEMENT. REFER TO BASEMENT PLAN FOR CONTINUATION.

GENERAL NOTES:

1. EXISTING CONDITIONS SHOWN ON THE DRAWINGS WERE TAKEN FROM ORIGINAL DOCUMENTS AND FIELD OBSERVATIONS. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY FOR RESOLUTION.
2. DO NOT REMOVE OR DISCONNECT ANY MAJOR MECHANICAL OR ELECTRICAL ITEMS (PIPES, DUCTS, CONDUITS, DEVICES, EQUIPMENT, ETC.) INDICATED FOR SUCH BEFORE VERIFYING THAT SERVICES TO OTHER AREAS OF THE CAMPUS AND/OR THIS BUILDING WILL NOT BE AFFECTED. CONSULT BUILDING MAINTENANCE PERSONNEL AS NEEDED TO ASSIST IN THE DETERMINATION OF UNANTICIPATED ITEMS LOCATED DURING THE DEMOLITION PROCESS. OTHER AREAS OF THE BUILDING MUST REMAIN 100% OPERATIONAL DURING THE DEMOLITION WORK.
3. CONTRACTOR SHALL REPAIR ALL WALL, FLOOR AND CEILING PENETRATIONS WHERE NECESSARY DUE TO NEW CONSTRUCTION. REPAIRS SHALL MATCH EXISTING SURFACES AND MAINTAIN PROPER FIRE/SMOKE RATING.
5. COORDINATE INSTALLATION OF EQUIPMENT AND SYSTEMS WITH ALL OTHER TRADES AND UTILITIES. ANY VARIANCE IN LAYOUT SHOULD BE COORDINATED WITH OWNER/ENGINEER.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING LABELS ON ALL NEW EQUIPMENT. LABELS SHALL BE AS OUTLINED IN THE SPECIFICATIONS.
7. ALL PIPING, HANGERS, SUPPORTS, AND ETC. SHALL BE INSTALLED AS HIGH AS POSSIBLE TO MAINTAIN MAXIMUM CLEARANCE. WITH MINIMUM 12" ABOVE ACCESSIBLE CEILINGS.
8. COORDINATE INSTALLATION WITH ALL REQUIRED CLEARANCES SHOWN. ANY VARIANCE IN LAYOUT SHOULD BE COORDINATED WITH OWNER/ENGINEER.

B&A Project No. G32-005-190

Project No: 16004R22004

GLMV Architecture
1023 E. Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

BRACK ASSOCIATES CONSULTING ENGINEERS
P. (785) 271-0444
Topeka, KS 66614
BEA # Ireland # 1132-000-190

BRUCE A. BROWN
LICENSED
18099
8/19/24
KANSAS
PROFESSIONAL ENGINEER
License -Kansas - 18099

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

ISSUE DATE: 08/19/24 DRAWN BY: BAB CHECKED BY: JLB REV:

FIRST FLOOR HVAC PIPING IMPROVEMENT PLAN - PHASE 2

A-014835Rev

M201-2

ORIGINAL CONTRACT DOCUMENTS

GRILLES, REGISTERS AND DIFFUSER SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	APPLICATION			FINISH	FRAME TYPE	VOLUME CONTROL	NOTES:
			SUP.	RET.	EXH.				
A	PRICE	RTD / B12	X			WHITE	LAY-IN	NO	(1)
B	PRICE	730 / F / L / SS			X	SS	SURFACE	NO	(1)
C	PRICE	24x24-SMD-3P-4A-B12	X			WHITE	LAY-IN	NO	(1)
D	PRICE	24x24-PDDR-3-B12		X		WHITE	LAY-IN	NO	(1)
E	EXISTING-TO-REMIAN								
F	PRICE	14x6/540/F/L/B12	X			T.B.D.	SURFACE	NO	(2)

NOTES:

1. REFER TO PLAN FOR DIFFUSER/GRILLE NECK SIZE.
2. COLOR TO BE SELECTED BY ARCHITECT.

Neck size	Max CFM
6"Ø	125
8"Ø	225
10"Ø	350
12"Ø	500

DEDICATED OUTDOOR AIR SYSYTEM (DOAS) AIR UNIT SCHEDULE

UNIT NUMBER	DOAS - LAB	
MANUFACTURER	INNOVENT	
MODEL	CAHU-3400-HW-AC-460	
UNIT WEIGHT (LBS)	5,300	
SUPPLY FAN DATA		
AIRFLOW (CFM)	3,400	
FAN TYPE	AIR FOIL PLENUM	
FAN DRIVE TYPE	DIRECT - FACTORY MOUNTED	
SUPPLY - ESP (IN. W.G.)	2.30	
SUPPLY - TSP (IN. W.G.)	4.80	
MOTOR H.P. (SUPPLY - QNTY / HP)	2 / 5-Hp	
DX COOLING COIL DATA		
MAX. COIL FACE VELOCITY (FPM)	500 (453 OFF COIL)	
TOTAL COOLING CAPACITY (MBH)	236.5 (19.7 TONS)	
SENSIBLE COOLING CAPACITY (MBH)	165.7	
ENTERING AIR TEMP. DB/WB (°F)	100/73.5	
COIL L.A.T. DB/WB (°F)	51.7 / 51.7 (OFF COIL)	
NUMBER OF STAGES - COMPRESSORS: (QTY.) / TYPE	(2) / DIGITAL SCROLL	
HEATING HOT WATER COIL w/ GLYCOL		
TYPE	HEATING HOT WATER	
MAX. COIL FACE VELOCITY (FPM)	355	
ENTERING OUTSIDE AIR TEMP. (°F)	-10	
TOTAL HEATING CAPACITY (MBH)	242	
GPM	25.4	
GLYCOL (%)	30% PG	
ENTERING / LEAVING WATER TEMP. (°F)	180.0 / 160.0	
WPD (Ft)	8.4	
ROWS / FPI	1.0 / 11	
COIL PRESSURE DROP	0.67	
FILTER DATA		
NUMBER OF BANKS	2	
FILTER BANK #1 TYPE - PREFILTER	FARR 30/30 (MERV 8, PLEATED)	
FILTER BANK #1 EFFICIENCY	30%	
MAX. PRESSURE DROP (INITIAL/FINAL)	0.89" / 1.7"	
FILTER BANK #2 TYPE - FINAL FILTER	FARR RIGAFLO 200 (MERV 14, CARTRIDGE)	
FILTER BANK #2 EFFICIENCY	90-95%	
MAX. PRESSURE DROP (INITIAL/FINAL)		
SUPPLY FAN ELECTRICAL DATA:		
VOLTAGE/PHASE	480/3	
MCA (AMPS)	64.8	
MOCP (AMPS)	80.0	
NOTES	(1)(2)(3)(4)(5)(6)(7)(8)(9)(10)(11)(12)	

NOTES:

(1) PROVIDE UNIT WITH DOUBLE WALL CONTRUCTION AND MINIMUM OF R-13 INSULATION VALUE FOR WALLS, CEILINGS, AND FLOORING. PROVIDE 2" THICK DOUBLE WALL THERMAL-BREAK PANELS (WHICH INCLUDE ACCESS DOORS, WALLS, CEILINGS, AND FLOORING), 22-GAUGE HIGH PERFORMANCE POLYESTER PAINTED STEEL OUTER WALL, 22-GAUGE GLAVANIZED STEEL INNER WALL.

(2) PROVIDE UNIT WITH STAINLESS STEEL IAQ DRAIN PAN FOR COOLING COIL SECTION.

(3) PROVIDE MAGNAHELIC PRESSURE GAUGES ACROSS FILTERS.

(4) UNIT SHALL HAVE TWO (2) UNIT MOUNTED VFDS.

(5) UNIT SHALL HAVE A SINGLE POINT 480V, 3 PHASE DISCONNECT TO SUPPLY THE UNIT AND A SINGLE POINT 120V CIRCUIT TO SERVE THE UNIT'S FACTORY MOUNTED CONVENIENCE RECEPTACLE. RECEPTACLE SHALL REMAIN ENERGIZED EVEN IF THE UNIT'S FACTORY MOUNTED MAIN DISCONNECT IS OPEN.

(6) PROVIDE A FACTORY INSTALLED CONVENIENCE RECEPTACLE.

(7) ELECTRICAL GEAR SHALL BE RATED FOR A MINIMUM INTERRUPTING RATING OF 5 kAIC.

(8) PROVIDE A COMPLETE FUNCTIONING DDC CONTROLLER WITH THE UNIT.

(9) DIRTY FILTER PRESSURE DROPS LISTED ABOVE SHALL BE ACCOUNTED FOR IN THE TOTAL STATIC PRESSURE OF THE SUPPLY FAN.

(10) COOLING CAPACITIES DO NOT INCLUDE FAN HEAT. E/M SHALL INCLUDE FAN HEAT IN COIL SELECTION.

(11) PROVIDE HAIL GUARD ON CONDENSER COILS.

(12) PROVIDE 12" HIGH/TALL RAIL SUPPORTS (MIN.).

REHEAT COIL SCHEDULE

UNIT NO.	AIRFLOW (CFM)	MBH	E.W.T (°F)	E.A.T. (°F)	L.A.T. (°F)	SIZE (LxW)	GPM	MAX. APD (IN)	MAX. WPD (FT)	ROW	NOTES
RH-1	200	7.3	120	55	88.7	16x16	1.3	0.30	5.0	1	(1)(2)(3)(4)
RH-2	900	56.9	120	55	113.4	24x23	6.0	0.30	5.0	2	(1)(2)(3)(4)
RH-3	190	7.1	120	55	89.3	16x16	1.2	0.30	5.0	1	(1)(2)(3)(4)
RH-4	200	7.3	120	55	88.6	16x16	1.3	0.30	5.0	1	(1)(2)(3)(4)
RH-5	670	22.5	120	55	86.1	21x21	1.5	0.30	5.0	1	(1)(2)(3)(4)
RH-6	670	22.5	120	55	86.1	21x21	1.5	0.30	5.0	1	(1)(2)(3)(4)
RH-7	180	6.8	120	55	90.1	16x16	1.2	0.30	5.0	1	(1)(2)(3)(4)
RH-8	EXISTING-TO-REMIAN										

NOTES:

(1) SIZE SHOWN ARE ASSOCIATED DUCT DIMENSIONS. TRANSITION DUCT AS REQUIRED TO MATCH SUCCESSFUL MANUFACTURERS COIL DIMENSIONS.

(2) T/C SHALL PROVIDE 2-WAY MODULATING CONTROL VALVE FOR FIELD MOUNTING.

(3) COILS DESIGNED TO SETBACK FROM 180°F DOWN TO 120°F

(4) PROVIDE NEW COIL AS INDICATED WITHIN PHASE-2 SCOPE OF WORK.

VENTURI AIR VALVE SCHEDULE

UNIT NO.	AREA SERVED	MANUFACTURER	SIZE	AIRFLOW MAXIMUM (CFM)	AIRFLOW MINIMUM (CFM)	APPLICATION			MAX DESIGN APD (IN)	NOTES
						SUP.	RET.	EXH.		
SAV-1	Evidence & Imaging (Rooms 107 & 108)	PHOENIX	8	200	-	X			0.3	(1)(4)(5)(7)
SAV-2	Latents Lab (Room 109)	PHOENIX	12	900	-	X			0.3	(1)(4)(5)(7)
SAV-3	Chemical Storage (Room 110)	PHOENIX	8	190	-	X			0.3	(1)(4)(5)(7)
SAV-4	Instrument Lab (Room 111)	PHOENIX	8	200	-	X			0.3	(1)(4)(5)(7)
SAV-5	Chemistry Wet Lab (Room 112)	PHOENIX	12	670	-	X			0.3	(1)(4)(5)(7)
SAV-6	Chemistry Wet Lab (Room 112)	PHOENIX	12	670	-	X			0.3	(1)(4)(5)(7)
SAV-7	Evidence Storage (Room 113)	PHOENIX	8	180	-	X			0.3	(1)(4)(5)(7)
SAV-8	ROOMS 101, 102, 103, 104 & 105	EXISTING -TO -REMAIN								
EAV-1	Evidence & Imaging (Rooms 107 & 108)	PHOENIX	8	200	-			X	0.3	(1)(4)(5)(6)(7)
EAV-2	Latents Lab (Room 109)	PHOENIX	12	1000	-			X	0.3	(1)(4)(5)(6)(7)
EAV-3	Chemical Storage (Room 110)	PHOENIX	8	190	-			X	0.3	(1)(4)(5)(7)
EAV-4	Instrument Lab (Room 111)	PHOENIX	8	200	-			X	0.3	(1)(4)(5)(7)
EAV-5	Chemistry Wet Lab (Room 112)	PHOENIX	14	1440	-			X	0.3	(1)(4)(5)(6)(7)
EAV-6	Chemistry Wet Lab (Room 112)	PHOENIX	10	375	-			X	0.3	(1)(4)(5)(6)(7)
EAV-7	Evidence Storage (Room 113)	PHOENIX	8	180	-			X	0.3	(1)(4)(5)(6)(7)
EAV-8	Exhaust Hood (Room 109)	PHOENIX	12	720	-			X	0.3	(1)(4)(5)(6)(7)
EAV-9	Exhaust Hood (Room 112)	PHOENIX	12	720	-			X	0.3	(1)(4)(5)(6)(7)
EAV-10	Exhaust Hood (Room 112)	PHOENIX	12	720	-			X	0.3	(1)(4)(5)(6)(7)

NOTES:

1. EACH AIR VALVE SHALL HAVE A DIGITAL INPUT FROM THE BMS TO ADJUST THE AIRFLOW SETPOINTS.
2. THE AIR VALVES SHALL BE PROVIDED WITH CRC IRC-TM ROOM PRESSURE MONITORS AS INIDCATED ON THE DRAWINGS. THE AIR VALVES AND ROOM PRESSURE MONITORS SHALL BE INTEGRATED TO THE BMS VIA A BACNET INTERFACE . COORDINATE EXACT REQUIREMENTS WITH CONTROL DETAILS.
3. VALVE SHALL HAVE PRESSURE SWITCH INTERLOCK WITH THE ROOM PRESSURE MONITOR TO ALARM UPON LOSS OF AIRFLOW.
4. AIR VALVE SHALL BE INSTALLED IN HORIZONTAL DUCTWORK.
5. AIR VALVE SHALL FAIL IN LAST POSITION UPON LOSS OF POWER OR COMMUNICATIONS TO MAINTAIN STATE OF ROOM.
6. AIR VALVE SHALL MAINTAIN A CONSTANT VOLUME. THE VOLUME SETPOINT SHALL BE ADJUSTABLE VIA THE BMS.
7. A CONTROLLER PER ZONE SHALL BE PROVIDED TO SERVE ASSOCIATED SUPPLY, RETURN, OR EXHAUST VALVE.
8. VALVE OVERSIZED IN ORDER TO HAVE THE ABILITY TO RETURN AIR FROM POSITIVE PRESSURE RELATIONSHIP IN OTHER ZONES.

B&A Project No. G32-005-190

G:\GLMV - (Now Tessere)\KBI - Great Bend\dwgs\mech\Phase II -Re-Bid\KBI - mech schedules-Phase II.dwg, 8/19/2024 2:20:31 PM, bbrown

Project No:
16004R22004

GLMV Architecture
1523 E. Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

BRACK ASSOCIATES CONSULTING ENGINEERS
P: (785) 271-3464
Topeka, KS 66606
BSA Project # 112-030-190

BRUCE A. BROWN
LICENSED
18099
8/19/24
KANSAS
PROFESSIONAL ENGINEER

License -Kansas - 18099

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

ISSUE DATE: 08/19/24 DRAWN BY: BAB CHECKED BY: JLB REV:

MECHANICAL SCHEDULES

A-014835Rev

M300

ORIGINAL CONTRACT DOCUMENTS

ELECTRIC HUMIDIFIER SCHEDULE

UNIT TAG	MANUF.	MODEL NO.	UNIT SERVED	AIRFLOW (CFM)	ENTERING AIR DB / RH (%)	LEAVING AIR DB / RH (%)	MIN. CAPACITY (LBS/HR)	VOLTAGE / PHASE	INPUT kW	MANIFOLD MODEL #	DUCT SIZE (WxL)	NOTES
EH-1	DRISTEEM	VM-12 (32-2)	AHU-1	3,400	57.3 / 1	59.0 / 57	82	208/3	32.0	ULTRASORB MP	32X14	(1)(2)(3)(4)(5)(6)(7)

GENERAL NOTES:

(1) E/M SHALL PROVIDE ROOM HUMIDISTAT, DUCT HIGH-LIMIT HUMIDISTAT, AND ALL ASSOCIATED CONTROL DEVICES REQUIRED TO OPERATE HUMIDIFIER. T/C SHALL ENABLE/DISABLE TO CONTROL OUTPUT.

(2) E/M SHALL PROVIDE HUMIDIFIER WITH AIRFLOW SWITCH, INTEGRAL AIR-GAP AND DRAIN COOLER.

(3) THE HUMIDIFIER SHALL BE PROVIDED WITH A BACNET CARD TO INTERFACE WITH THE BMS.

(4) REFER TO DETAIL 6/M402

(5) THE SHORT ABSORPTION DISTRIBUTION PANEL SHALL BE INSTALLED IN THE DUCTWORK. COORDINATE SIZE WITH SUCCESSFUL MANUFACTURER.

(6) THE SHORT ABSORPTION DISTRIBUTION PANEL SHALL BE DUCT MOUNTED. COORDINATE WITH DUCT SIZE ABOVE AND INDICATED ON PLAN.

(7) MAXIMUM ABSORPTION DISTANCE 12" AT LEAVING CONDITIONS.

VARIABLE FREQUENCY DRIVE SCHEDULE

UNIT NUMBER	EQUIPMENT SERVED	VOLTAGE/PHASE	HP	NEMA SIZE	ENCLOSURE NEMA TYPE	ACCESSORIES
VFD.EF-1	EXHAUST FAN EF-1	208 / 3	3	0	3R	(1) (2) (3) (4) (5) (6)
VFD.EF-2	EXHAUST FAN EF-2	208 / 3	3	0	3R	(1) (2) (3) (4) (5) (6)
VFD.DOAS-LAB.1	DOAS AIR HANDLING UNIT	480/3	5	0	3R	(1) (2) (3) (5) (6) (7)
VFD.DOAS-LAB.2	DOAS AIR HANDLING UNIT	480/3	5	0	3R	(1) (2) (3) (5) (6) (7)
VFD.HWP1	HEATING HOT WATER PUMP 1	208/3	3	0	1	(1) (2) (3) (4) (5) (6)
VFD.HWP2	HEATING HOT WATER PUMP 2	208/3	3	0	1	(1) (2) (3) (4) (5) (6)

ABBREVIATIONS:

(1) REFER TO SPECIFICATIONS - DESIGN BASED ON ABB ACH-550.

(2) DRIVE SHALL BE PROVIDED WITH AN INTEGRAL DISCONNECT OR CIRCUIT BREAKER.

(3) THE VFD SHALL BE RATED FOR 100% SPEED OUTPUT WHILE LOCATED IN 105°F AMBIENT CONDITIONS.

(4) VFD SHALL BE SUPPLIED BY THE M/C AND INSTALLED BY THE E/C.

(5) VFD SHALL BE PROVIDED WITHIN A SINGLE ENCLOSURE, A SINGLE POINT FOR INCOMING POWER FEED, TERMINAL BLOCKS AND INDIVIDUAL VFD FEEDERS CONFORMING TO THE NEC 10' TAP RULE.

(6) REFER TO SPECIFICATION FOR SPECIFIC ELECTRICAL CONNECTIONS TO MOTORS ON VFD.

(7) VFD TO BE FACTORY INSTALLED WITH ALL INTERNAL TERMINATIONS COMPLETED AT FACTORY.

EXHAUST FAN SCHEDULE

UNIT NO.	MANUFACTURER	MODEL NUMBER	CFM	AIR TEMP (F)	EST. ESP.	MOTOR VOLT/PHASE	MOTOR HP	ACCESSORIES	NOTES
EF1	GREENHECK	USF-18-5-A2	3500	70	3.0	208/3	3.0	ID,BD	1
EF2	GREENHECK	USF-18-5-A2	3500	70	3.0	208/3	3.0	ID,BD	1

ABBREVIATIONS:

BD - BACKDRAFT DAMPER

ID - INTEGRAL DISCONNECT SWITCH

NOTES 1. PROVIDE 2-COAT KYNAR FINISH

VRF FAN COIL UNIT SCHEDULE

UNIT NO.	MANUFACTURER	MODEL	TYPE	DESIGN COOLING TEMP (db/wb)	DESIGN HEATING TEMP (db)	AIRFLOW (CFM)	COOLING CAPACITY SENSIBLE (MBH)	COOLING CAPACITY TOTAL (MBH)	HEATING CAPACITY (MBH)	VOLTAGE VOLT /PH	VOLTAGE MCA	VOLTAGE MOCP	NOTES
FCU-8	SAMSUNG HVAC	AM009ANMDCH/AA	DUCTED UNIT	75 / 67	68	340	2.5	7.8	10.5	208 / 1	0.91	15	1,2,3,5,6,7,8,9
FCU-9	SAMSUNG HVAC	AM005NNNDCH/AA	4-WAY CEILING CASSETTE	75 / 67	68	130	2.8	3.5	6.0	208 / 1	0.24	15	1,2,3,4,5,6,7,8,9

NOTES:

1. FCU Heating capacities are scheduled at full demand corrected capacity. VRF selection must be able to model a full demand corrected capacity for the entire system.
2. Provide fan coil unit with factory mounted condensate pump with integral sensor to interlock with unit for shut-down in case of failed pump
3. Provide a wired, wall mounted, Simple Backlit Controller with dual set-point function, mode & fan speed functions.
4. Install unit in ceiling with framing to match ceiling construction. Support unit with all-thread rod and spring vibration isolation (2" minimum deflection).
5. Provide manufacturers return air temperature sensor built into unit
6. All refrigerant line sizes by Manufacturer.
7. Insulate all refrigerant lins per manufacturer requirements using EPDM refrigerant pipe insulation.
8. Provide MCM-C210N (Multi-Tenant Function Controller) interface for connection of units to building temperature controls systems through BACNet communication.
9. New fan coil unit shall connect to and be compatible with existing VRF system and manufacturer (condensing unit and Multi-Tenant Function Controller(s)). Existing VRF condensing unit is SAMSUNG # AM192HXVAJR2AA and existing Multi-Tenant Function Controller(s) are SAMSUNG # TCMBG1012SJ11N4. Contractor shall verify existing equipment prior to submitting final bid and final installation of new fan coil unit.

PUMP SCHEDULE

UNIT NUMBER	HWP - 1 & 2
MANUFACTURER	TACO
SERIES	KV
MODEL SIZE	1509
INLET	1.5
DISHCHARGE	1.5
FLOW (GPM)	45
TOTAL HEAD (FT)	60
NPSH (FT)	-
TYPE	IN-LINE
WORKING CLASS (PSIG)	125
HORSEPOWER	3
RPM	1750
VOLTS/PHASE	208/3
CONSTRUCTION	-
FLUID PUMPED	HEATING WATER
FLUID TEMP. (°F)	120 / 180
NOTES	1

NOTES:

1. PROVIDE INVERTER DUTY RATED MOTOR FOR PUMPS CONTROLLED BY VARIABLE FREQUENCY DRIVES.

HYDRONIC SPECIALTIES SCHEDULE

SYSTEM	Heating Hot Water
SYSTEM OPERATING TEMP (°F)	120-180
SYSTEM WORKING PRESSURE (PSIG)	150
TRIPLE DUTY VALVE (S)	
MANUFACTURER	B&G
TYPE	Straight
MODEL NO/QUANTITY	3DV-2RFF / 2
FLOW (GPM) / MAX WPD (FT)	45 / 5
SIZE	2"
AIR SEPARATOR (S)	
MANUFACTURER	B&G
MODEL NO/QUANTITY	R-2N / 1
FLOW (GPM) / WPD (FT)	45 / 4.26
SIZE	2"
AIR ELIMINATOR (S)	
MANUFACTURER	-
MODEL NO. / QUANTITY	-
COMPRESSION TANK (S)	
MANUFACTURER	B&G
MODEL NO/QUANTITY	D-40V / 1
MIN TANK VOLUME (GAL)	9
MIN ACCEPTANCE VOLUME (GAL)	3
PRESSURE SETTING (PSIG)	22
SUCTION DIFFUSER (S)	

ABBREVIATIONS:

BOILER AND ACCESSORY SCHEDULE

MARK	BLR3	
TYPE	CONDENSING	
MANUFACTURER	CAMUS	
MODEL NUMBER	DMNH-0201-MST-HLS	
MIN. OUTPUT @ MAX FIRE (MBH)	186	
ALTITUDE (FT. OF SEE LEVEL)	1,850	
MIN. BLR. HORSEPOWER	-	
OPERATING TEMP. EWT/LWT (°F)	150 / 180	
WATER FLOW RATE (GPM)	12.6	
WATER PRESSURE DROP (FT)	7.2	
PIPE CONNECTION SIZE (IN.)	1	
COMBUSTION AIR INTAKE SIZE (IN.)	3	
VENTILATION FLUE SIZE (IN.)	3	
MIN. EFFICIENCY	93%	
NATURAL GAS INPUT (CFH)	199	
GAS PRESSURE (IN. W.C.)	8	
GAS CONNECTION SIZE (IN.)	0.5	
ELECTRICAL		
VOLTAGE/PHASE	120/1	
WATTS	270	

NOTES:

1. THE BOILER SHALL HAVE FULL MODULATION FIRING WITH A MINIMUM 5 TO 1 TURNDOWN.
2. THE BOILER SHALL BE DESIGNED, CONSTRUCTED AND TESTED IN ACCORDANCE WITH ASME BOILER & PRESSURE VESSEL CODE AND SHALL BEAR THE UL LABEL. PROVIDE SAFETY RELIEF VALVES (SET AT 60 PSIG), AND A MANUAL RESET LOW WATER CUTOFF. PROVIDE INTEGRAL PRIMARY PUMP.
3. PROVIDE GAS TRAIN CONFORMING TO THE KANSAS BOILER CODE AND CSD-1. THE GAS TRAIN SHALL INCLUDE A REGULATOR SIZED FOR A MINIMUM 3" W.C. AND MAXIMUM 14" W.C. GAS PRESSURE.
4. THE BOILER SHALL BE PROVIDED WITH A SINGLE POINT ELECTRICAL CONNECTION FOR ALL MOTORS, FACTORY MOUNTED CONTROLS AND OTHER ELECTRICAL DEVICES.
5. BOILER OPERATING TEMPERATURES INDICATED A 30° F deg DELTA BASED ON FULL LOAD AND 180° F deg LWT .
6. TEMPERATURES INDICATED ARE DESIGN CONDITIONS. BOILER INCLUDING BURNER SHALL HAVE NO LOW LIMIT FOR RETURN WATER TEMPERATURE.
7. THE BOILER IS DESIGNED TO OPERATE WITH A PRIMARY/SECONDARY PUMPING SYSTEM. E/M SHALL PROVIDE MINIMUM WATERFLOW REQUIREMENTS THROUGH BOILER. M/C SHALL BE RESPONSIBLE AND COORDINATE ADDITIONAL REQUIREMENTS FROM ALTERNATE MANUFACTURERS.
8. PROVIDE MANUAL RESET HIGH LIMIT THERMOSTAT (200° F ADJUSTABLE), DIFFERENTIAL PRESSURE TYPE AIR FLOW SWITCH, WATER FLOW SWITCH, AND POINT OF CONNECTION FOR AN EMERGENCY SHUTDOWN BUTTON.
9. VENTING SHALL BE SEALED COMBUSTION. COORDINATE LAYOUT AND SIZES OF COMBUSTION AIR INTAKE AND VENTILATION FLUE WITH ALTERNATE MANUFACTURERS.
10. THE BOILER SHALL HAVE A MICROPROCESSOR BASED FACTORY MOUNTED CONTROLLER WITH DIGITAL LCD DISPLAY USER INTERFACE AND COMBINED PID TEMPERATURE CONTROL AND FLAME MANAGEMENT.
11. THE CONTROL PANEL SHALL BE PROVIDED WITH A BACNET INTERFACE TO ALLOW THE BMS TO MONITOR AND CONTROL ALL POINTS AND ALARMS.
12. THE BOILER CONTROL PANEL SHALL BE PROVIDED WITH TERMINALS TO ALLOW THE BMS TO CONTROL THE HOT WATER SUPPLY TEMPERATURE SETPOINT.
13. E/M SHALL PROVIDE A CONDENSATE NEUTRALIZATION KIT TO CONNECT DIRECTLY TO THE BOILER CONDENSATE DRAIN.
14. HEATING CAPACITY SHALL BE BASED ON BOILER AT FULL FIRE WITH 110°F RETURN WATER.
15. BOILER EFFICIENCY INDICATED SHALL BE BASED ON BOILER AT LOW FIRE WITH 110°F RETURN WATER.

Project No:
16004R22004

GLMV Architecture
1523 E. Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

BRACK ASSOCIATES CONSULTING ENGINEERS
P: (785) 271-0844
Topeka, KS 66606
BSA Project # 122-060-180

BRUCE A. BROWN LICENSED # 18099 8/19/24 KANSAS PROFESSIONAL ENGINEER
License -Kansas - 18099

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

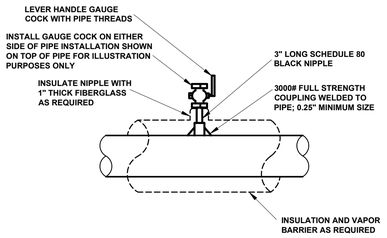
REV:
CHECKED BY: JLB
DRAWN BY: BAB
ISSUE DATE: 08/19/24

MECHANICAL SCHEDULES

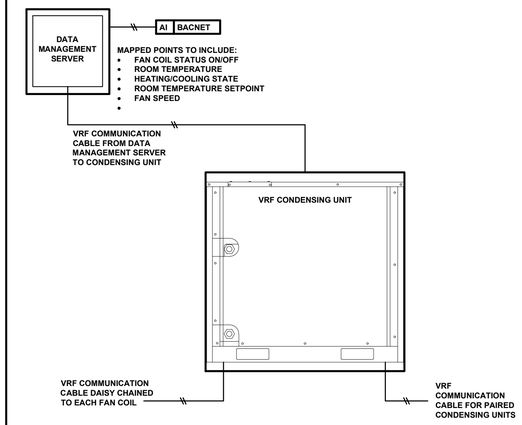
A-014835Rev

M301

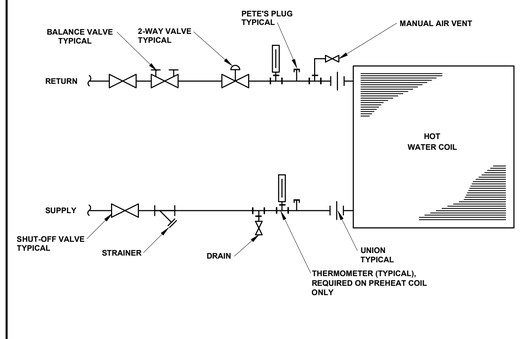
ORIGINAL CONTRACT DOCUMENTS



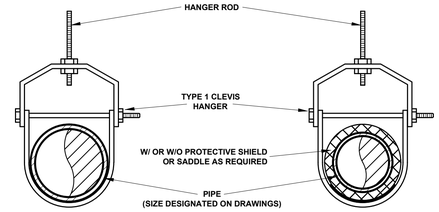
1 M400 **GAUGE COCK INSTALLATION DETAIL**
NO SCALE



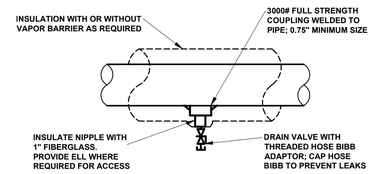
2 M400 **VRF SYSTEM CONTROL DIAGRAM**
NO SCALE



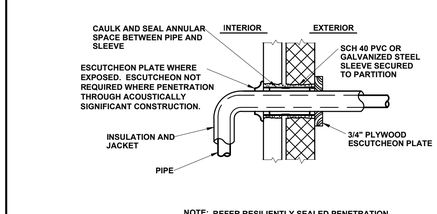
3 M400 **HEATING HOT WATER COIL PIPING DETAIL**
NO SCALE



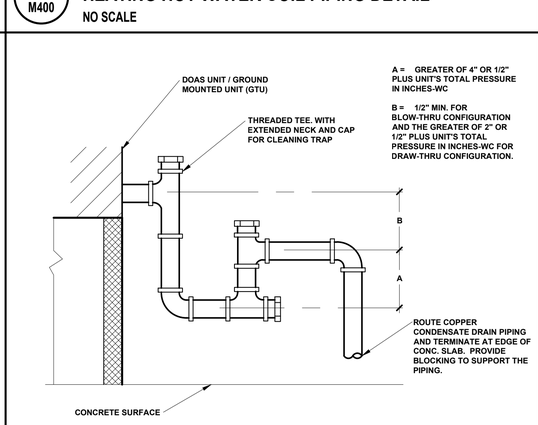
4 M400 **SINGLE PIPE HANGER DETAIL**
NO SCALE



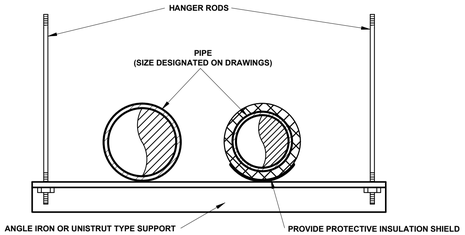
5 M400 **DRAIN VALVE INSTALLATION DETAIL**
NO SCALE



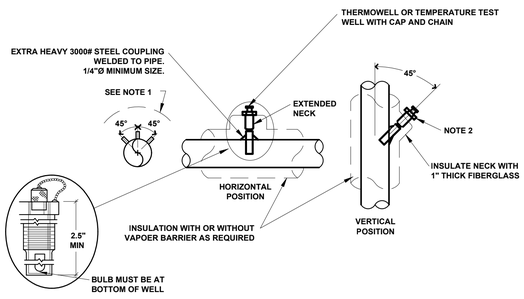
6 M400 **PIPE PENETRATION THRU NON-ACOUSTIC WALLS**
NO SCALE



7 M400 **DOAS / GTU UNIT CONDENSATE DRAIN TRAP DETAIL**
No Scale

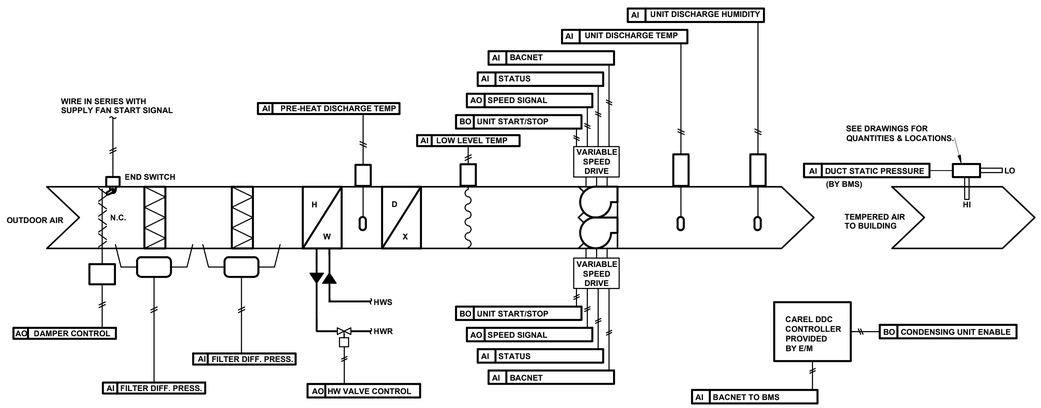


8 M400 **TRAPEZE PIPE HANGER DETAIL**
NO SCALE



NOTES:
1. ALLOW CLEARANCE FOR THERMOMETER REMOVAL.
2. DO NOT INSTALL BELOW POSITION SHOWN.
3. SELECT COUPLING DIAMETER TO ACCOMODATE TEST WELL.
4. TEST WELL TYPICAL TO BOLTON TYPE 600 SERIES OR H.O. TRERICE SERIES 5550 OR 5590 COMPLETE WITH CAP AND CHAIN.
5. TEST WELL ILLUSTRATED; INSTALL THERMOWELL PER SAME CONSTRAINTS. 0.75" MINIMUM SIZE.

9 M400 **TEST WELL INSTALLATION DETAIL**
NO SCALE



10 M400 **DOAS - MAKE-UP AIR HANDLING UNIT CONTROL DIAGRAM**
NO SCALE

SEQUENCE OF OPERATION - DEDICATED OUTSIDE AIR HANDLING UNIT

ALL CONTROL POINTS RELATED TO THE AIR UNIT SHALL BE CONTROLLED BY THE DDC CONTROLLER PROVIDED BY THE E/M WITH THE EXCEPTION OF THE DUCT PRESSURE SENSOR.

THE SYSTEM WILL BE ENABLED AND DISABLED VIA THE BMS. FAN STATUS WILL BE MONITORED THROUGH CURRENT RELAYS. THE SUPPLY FAN VFD SHALL BE OPERATED BY A PRESSURE SENSOR TO PROVIDE A CONSTANT VOLUME INITIALLY, THE SYSTEM SHALL HAVE THE ABILITY TO OPERATE AS A VAV SYSTEM IN THE FUTURE. THE OCCUPIED/UNOCCUPIED MODES SHALL BE SCHEDULED THROUGH THE BMS. THE AIR HANDLING UNIT SHALL RUN CONTINUOUSLY DURING THE OCCUPIED MODE. ANY TIME THE UNIT IS NOT OPERATING, THE OUTSIDE AIR DAMPERS WILL BE CLOSED.

MECHANICAL COOLING MODE WILL BECOME OPERATIONAL WHEN THE OUTSIDE AIR TEMPERATURE IS 55°F OR ABOVE, HEATING MODE WILL BE OPERATIONAL WHEN THE OUTSIDE AIR TEMPERATURE IS 54.7°F OR BELOW. THE UNIT WILL LOAD AND UNLOAD AS NECESSARY TO MAINTAIN DISCHARGE AIR TEMPERATURE OF 55°F (ADJUSTABLE) IN MECHANICAL COOLING MODE.

PROVIDE A LOW LEVEL TEMPERATURE SENSOR (FREEZESTAT). IF THE LOW TEMP SENSOR DROPS BELOW 38°F IN ANY 1 FOOT SEGMENT REGARDLESS IF THE UNIT IS RUNNING OR NOT, THE LOW TEMPERATURE SWITCH WILL SHUT DOWN THE UNIT SUPPLY FAN AND CLOSE THE OUTSIDE AIR DAMPER. THE BMS WILL START THE HOT WATER PUMP (IF NOT ALREADY RUNNING) AND OPEN THE HOT WATER CONTROL VALVE TO ALLOW FLOW ACROSS THE COILS. THIS LOW TEMPERATURE SWITCH SHALL BE MANUAL RESET. A SET OF AUXILIARY CONTACTS ON EACH LOW TEMPERATURE SWITCH WILL INPUT TO BMS AND GENERATE AN ALARM AND A MAINTENANCE MESSAGE TO CHECK THE SYSTEM.

THE FOLLOWING SOFTWARE LIMITS SHALL BE APPLIED TO THE RESPECTIVE SENSORS AND SHALL GENERATE AN ALARM IF EXCEEDED IN THE BMS:
- DISCHARGE AIR TEMP > 80°F OR < 60°F

B&A Project No. G32-005-190

G:\GLMV - (Now Tessere)\KBI - Great Bend\dwgs\mech\Phase II -Re-Bid\KBI - MECH DETAILS-Phase II.dwg, 8/19/2024 2:21:46 PM, bbrown

Project No:
16004R22004

GLMV Architecture
1023 E. Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

BRACK ASSOCIATES CONSULTING ENGINEERS
P: (785) 271-3444
Topeka, KS 66604
BAA Project # 122-000-390

BRUCE A. BROWN LICENSED mcl # 18099 8/19/24 KANSAS PROFESSIONAL ENGINEER
License -Kansas - 18099

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

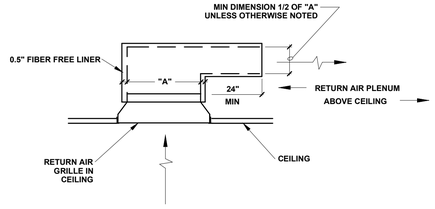
ISSUE DATE: 08/19/24 | DRAWN BY: BAB | CHECKED BY: JLB | REV:

MECHANICAL DETAILS

A-014835Rev

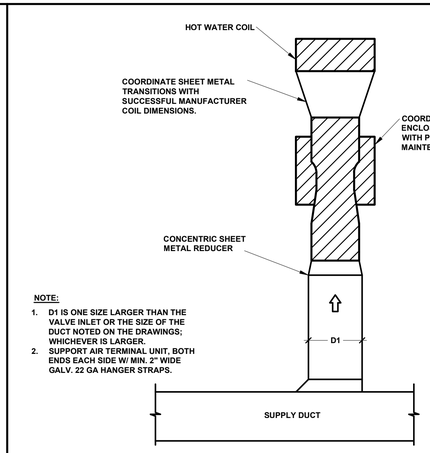
M400

ORIGINAL CONTRACT DOCUMENTS



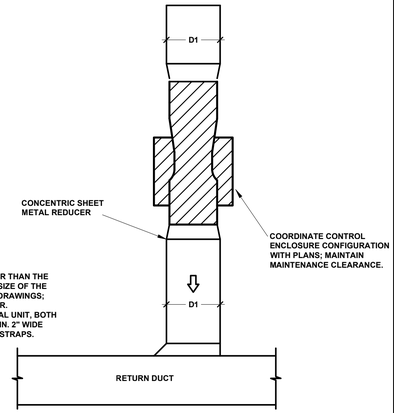
NOTES:
1. FACE RETURN AIR BOOT AWAY FROM THE AIR HANDLING RETURN AIR INLET AND AWAY FROM TRANSFER OPENINGS BETWEEN ROOMS WHERE CONSTRUCTION PERMITS.
2. LOCATE ADJACENT BOOTS AT RIGHT ANGLES TO EACH OTHER.

1 M401 RETURN AIR BOOT DETIAL
No Scale



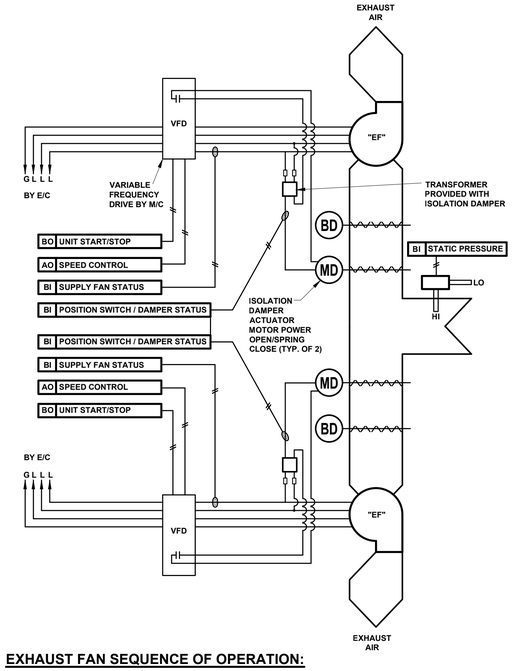
NOTE:
1. D1 IS ONE SIZE LARGER THAN THE VALVE INLET OR THE SIZE OF THE DUCT NOTED ON THE DRAWINGS; WHICHEVER IS LARGER.
2. SUPPORT AIR TERMINAL UNIT, BOTH ENDS EACH SIDE W/ MIN. 2" WIDE GALV. 22 GA HANGER STRAPS.

2 M401 SUPPLY AIR VALVE INSTALLATION DETAIL
NO SCALE



NOTE:
1. D1 IS ONE SIZE LARGER THAN THE VALVE INLET OR THE SIZE OF THE DUCT NOTED ON THE DRAWINGS; WHICHEVER IS LARGER.
2. SUPPORT AIR TERMINAL UNIT, BOTH ENDS EACH SIDE W/ MIN. 2" WIDE GALV. 22 GA HANGER STRAPS.

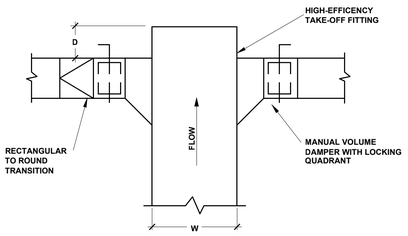
3 M401 EXHAUST AIR VALVE INSTALLATION DETAIL
NO SCALE



EXHAUST FAN SEQUENCE OF OPERATION:

1. THE EXHAUST FANS ARE FULLY REDUNDANT. ONLY ONE OF THE TWO FANS SHALL OPERATE DURING A CALL FOR EXHAUST.
2. THE EXHAUST FAN SHALL RUN CONTINUOUSLY, BUT THE BMS CAN START AND STOP THE UNIT. A CURRENT TRANSFORMER RELAY WILL INDICATE RUN STATUS OF THE UNIT. IF THE STATUS DOES NOT MEET THE COMMAND WITHIN A SPECIFIED TIME, (1-MIN. ADJ.), AN ALARM WILL BE GENERATED.
3. UPON A START COMMAND FROM THE TEMPERATURE CONTROL SYSTEM, THE FAN WILL BE ENERGIZED AND THE VFD WILL BE RAMPED UP TO SETPOINT. THE SETPOINT SHALL BE DETERMINED DURING TEST AND BALANCE.
4. THE TWO FANS SHALL ROTATE WEEKLY THROUGH THE BMS. UPON CHANGE OVER, THE FANS SHALL BE RAMPED UP AND DOWN IN SEQUENCE WITH BOTH ISOLATION DAMPERS OPEN. THE DAMPER ON THE DE-ENERGIZED FAN SHALL CLOSE AS FAN APPROACHED THE END OF RAMP COMMAND.

6 M401 EXHAUST FAN CONTROL DIAGRAM
NO SCALE

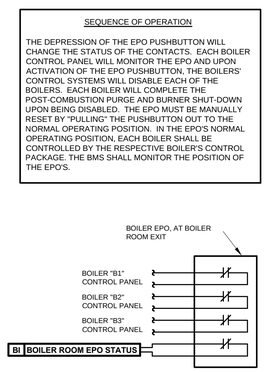


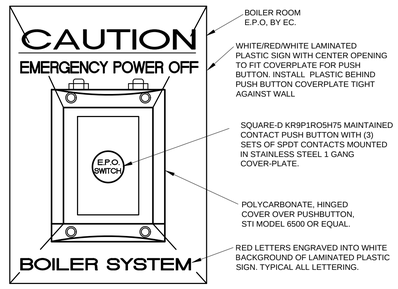
NOTES:
1. AIR CUSHION REQUIRED AT END OF RUN FOR BRANCH TAKE OFFS ILLUSTRATED.
2. CUSHION DEPTH, D, EQUAL TO 1/2 THE GREATER OF H OR W, SUBJECT TO 6" MIN, WHERE H = HEIGHT OF DUCT

4 M401 TYPICAL LOW PRESSURE SUPPLY OR EXHAUST TAKE-OFF DETAIL
NO SCALE

SEQUENCE OF OPERATION

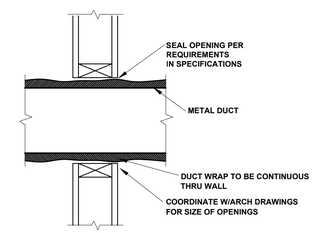
THE DEPRESSION OF THE EPO PUSHBUTTON WILL CHANGE THE STATUS OF THE CONTACTS. EACH BOILER CONTROL PANEL WILL MONITOR THE EPO AND UPON ACTIVATION OF THE EPO PUSHBUTTON, THE BOILERS' CONTROL SYSTEMS WILL DISABLE EACH OF THE BOILERS. EACH BOILER WILL COMPLETE THE POST-COMBUSTION PURGE AND BURNER SHUT-DOWN UPON BEING DISABLED. THE EPO MUST BE MANUALLY RESET BY "PULLING" THE PUSHBUTTON OUT TO THE NORMAL OPERATING POSITION. IN THE EPO'S NORMAL OPERATING POSITION, EACH BOILER SHALL BE CONTROLLED BY THE RESPECTIVE BOILER'S CONTROL PACKAGE. THE BMS SHALL MONITOR THE POSITION OF THE EPO'S.





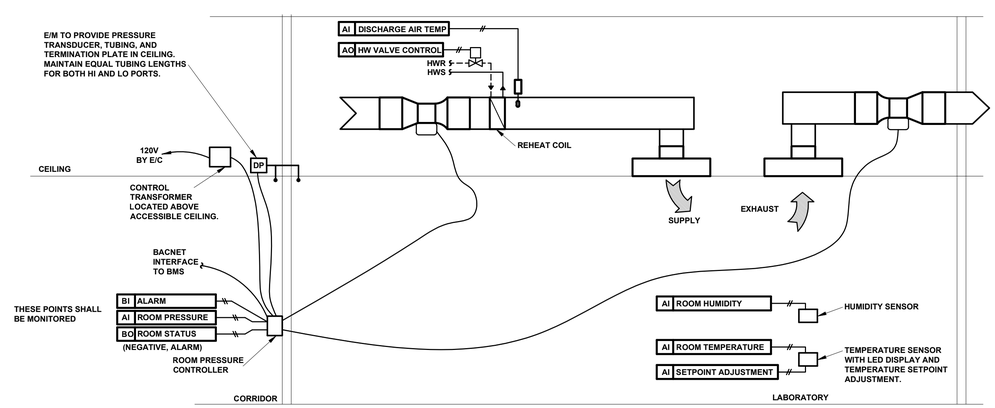
NOTE: EPO SWITCH PROVIDED BY E/C.

5 M401 BOILER EMERGENCY POWER OFF DETAIL
NO SCALE



NOTES:
1. DRYWALL, METAL STUDS OR ANY OTHER RIGID MATERIAL MUST NOT TOUCH DUCT
2. SUPPORT DUCT FROM HANGERS FOR ACOUSTICAL CONTROL
3. REFER TO SPECIFICATION SECTION 150050 FOR DUCT PENETRATIONS THROUGH RATED WALL OPENINGS

7 M401 NON-FIRE RATED WALL PENETRATION
NO SCALE



LABORATORY CONTROL SEQUENCE:

1. THE LABORATORY SHALL MAINTAIN A NEGATIVE PRESSURE BY SETTING AIR VALVES TO AN OFFSET AIRFLOW. THE AIRFLOW SETPOINTS SHALL BE OFFSET AS DETERMINED AT T&B TO ACHIEVE THE REQUIRED AIRFLOWS.
2. SPACE TEMPERATURE SHALL BE MONITORED VIA THE ROOM TEMPERATURE SENSOR AND CONTROL THE HOT WATER REHEAT COIL TO MAINTAIN ROOM TEMPERATURE SETPOINT.
   2.a. THE SPACE TEMPERATURE SETPOINT SHALL BE ADJUSTABLE AT THE SENSOR AS WELL AS THROUGH SOFTWARE AND THE ROOM PRESSURE MONITOR.
   2.b. THE HOT WATER VALVE SERVING THE REHEAT COIL WILL BE MODULATED AS REQUIRED TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. THE DISCHARGE AIR TEMPERATURE SHALL BE MONITORED BY THE BMS.
3. THE DIFFERENTIAL SPACE PRESSURE SHALL BE MONITORED VIA THE ROOM PRESSURE MONITOR BETWEEN THE CORRIDOR AND THE LABORATORY.
4. THE ROOM STATUS SHALL BE "NEGATIVE" UNDER NORMAL CONDITIONS; THE ROOM CONTROLS SHALL BE PROGRAMMED TO ONLY OPERATE IN THIS ONE MODE. THE STATUS SHALL BE MONITORED BY THE BMS. THE STATUS WILL BE "NEGATIVE" OR "ALARM". IF AN "ALARM" IS ISSUED BY THE ROOM PRESSURE CONTROLS, THE BMS SHALL ALSO GENERATE AN ALARM.

NOTES:
1. THE T/C SHALL PROVIDE TEMPERATURE SENSORS, CONTROLS VALVES, CONTROL DEVICES AND ASSOCIATED WIRING, UNLESS NOTED OTHERWISE

8 M401 ISOLATION ROOM AND CHEMISTRY WE LABORATORY CONTROL SCHEMATIC
NO SCALE

B&A Project No. G32-005-190

G:\GLMV - (Now Tessere)\KBI - Great Bend\dwgs\mech\Phase II -Re-Bid\KBI - MECH DETAILS-Phase II.dwg, 8/19/2024 2:22:12 PM, bbrown

Project No: 16004R22004

GLMV Architecture
1523 E. Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

BRACK ASSOCIATES CONSULTING ENGINEERS
P: (785) 271-3444
Topeka, KS 66604
BSA Project # 1122-000-190

BRUCE A. BROWN LICENSED # 18099 8/19/24 KANSAS PROFESSIONAL ENGINEER
License -Kansas - 18099

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

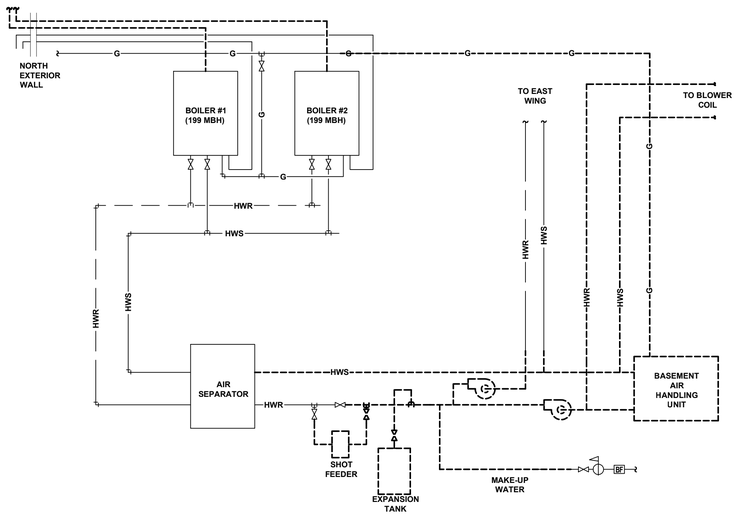
ISSUE DATE: 08/19/24 DRAWN BY: BAB CHECKED BY: JLB REV:

MECHANICAL DETAILS

A-014835Rev

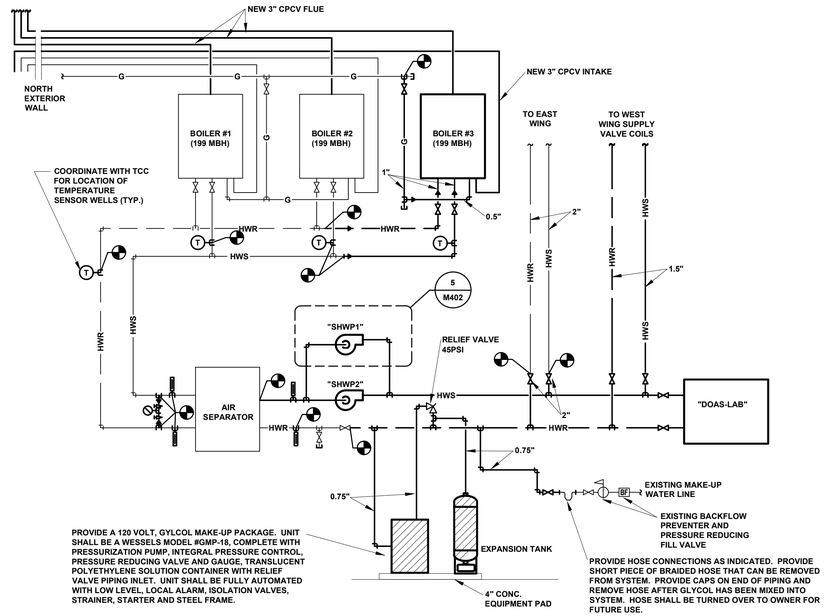
M401

ORIGINAL CONTRACT DOCUMENTS



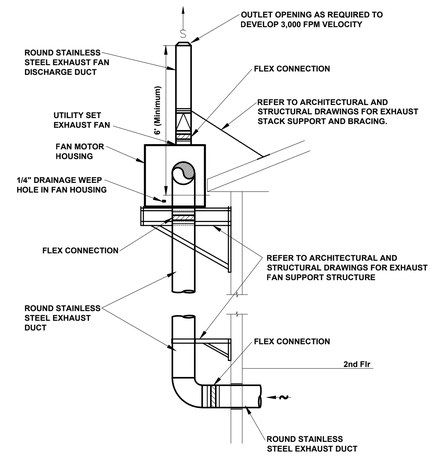
1 M402 HEATING HOT WATER SYSTEM DEMOLITION SCHEMATIC

NO SCALE



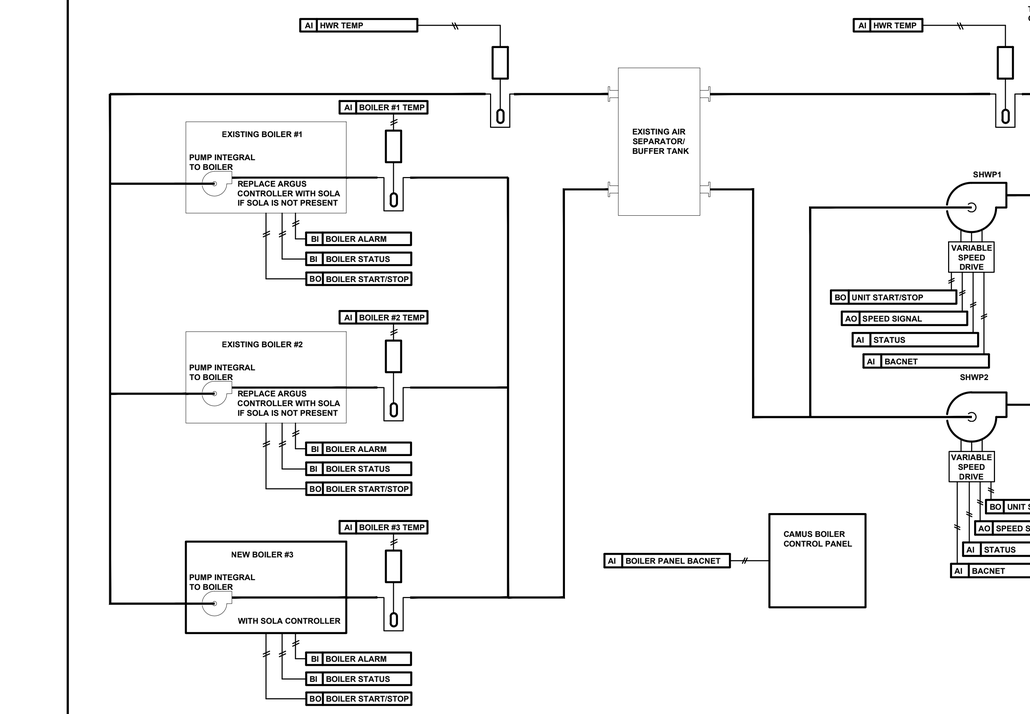
2 M402 HEATING HOT WATER SYSTEM IMPROVEMENT SCHEMATIC

NO SCALE



3 M402 UTILITY SET EXHAUST FAN DETAIL

NO SCALE



4 M402 HEATING HOT WATER SYSTEM CONTROL DIAGRAM

NO SCALE

SEQUENCE OF OPERATION - HEATING HOT WATER SYSTEM

THE HEATING HOT WATER SYSTEM SHALL CONSIST OF THREE CONDENSING, NATURAL GAS, HOT WATER BOILERS, AND REDUNDANT SECONDARY HOT WATER SUPPLY PUMPS SUPPLYING HOT WATER TO A VARIABLE FLOW 30% GLYCOL, HOT WATER SYSTEM.

A BOILER CONTROLLER SHALL BE PROVIDED WITH THE BOILERS. THE CONTROL PANEL SHALL HAVE PRE-PROGRAMMED PID LOOPS TO LOAD/UN-LOAD THE BOILERS, ROTATE THE LEAD/LAG POSITION OF THE BOILERS, AND MONITOR ALL ALARMS, SENSORS, AND CONTROL POINTS FOR ALL OF THE BOILERS CONNECTED TO THE SYSTEM. THE CONTROLLER SHALL BE PROVIDED WITH A BACNET INTERFACE CARD TO ALLOW FOR CONTROL AND MONITORING OF THE ENTIRE SYSTEM BY THE BMS.

EACH BOILER SHALL HAVE A STAND ALONE BOILER MOUNTED CONTROL PANEL THAT IS CAPABLE OF CONTROLLING THAT RESPECTIVE BOILER IN THE CASE OF FAILURE OF THE BOILER CONTROLLER OR THE OTHER BOILERS.

THE BOILER CONTROLLER SHALL ENABLE AND DISABLE EACH BOILER ONCE THE HOT WATER SYSTEM HAS BEEN ENABLED BY THE BMS. THE BOILERS SHALL OPERATE IN UNISON TO MAINTAIN THE HWS TEMPERATURE SETPOINT LOCATED IN SECONDARY SUPPLY LOOP PIPING.

THE BMS SHALL HAVE THE ABILITY TO CHANGETHE HOT WATER SETPOINT VIA A RESET SIGNAL TO THE BOILER CONTROL PANEL. THE HWS TEMPERATURE SETPOINT SHALL BE AS FOLLOWS:

OUTDOOR AIR TEMP.	HWS TEMP. SETPOINT
90°	100°
30°	180°

THERE ARE TWO SECONDARY HOT WATER PUMPS (ONE IS REDUNDANT). THE PUMPS SHALL BE CONTROLLED THRU THE BMS. THE ON-LINE PUMP SHALL RUN CONTINUOUSLY TO CIRCULATE HOT WATER THROUGHOUT THE BUILDING. THE PUMP SPEED SHALL BE CONTROLLED BY THE BMS VIA THE VFD TO MAINTAIN THE DIFFERENTIAL PRESSURE SETPOINTS FOR EACH OF THE SENSORS (SETPOINT TO BE DETERMINED AND ADJUSTED DURING TEST AND BALANCE OF THE SYSTEM). THE PUMPS SHALL BE CONTROLLED INDEPENDENTLY AND SHALL BE ALTERNATED WEEKLY BY THE BMS TO EQUALIZE RUN TIME. THE BMS SHALL MONITOR THE STATUS AND LOG THE RUN-TIME OF EACH PUMP.

ALL BOILER ALARMS SHALL BE ANNUNCIATED AT THE BOILER CONTROLLER UTILIZING ENGLISH LANGUAGE TO DIRECTLY EXPLAIN THE ALARM. ALPHANUMERIC CODES ARE NOT ACCEPTABLE. THE SPECIFIC BOILER ALARMS SHALL BE ANNUNCIATED THRU BACNET INTERFACE TO THE BMS.

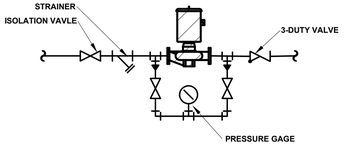
TERMINALS SHALL BE PROVIDED AT EACH BOILER TO INTERLOCK THE EPO SWITCH TO THE BOILERS. REFER TO THE EMERGENCY POWER OFF DETAIL.

AT A MINIMUM THE BOILER CONTROLLER SHALL PROVIDE THE FOLLOWING MONITORING AND CONTROL POINTS TO THE BMS THRU THE BACNET INTERFACE:

- BOILER STATUS FOR EACH BOILER
- BOILER FIRING RATE FOR EACH BOILER
- BOILER ENTERING WATER AND LEAVING WATER TEMPERATURES AT EACH BOILER
- SECONDARY (COMMON) LOOP HWS AND HWR TEMPERATURES
- BOILER ENABLE/DISABLE CONTROL (OVERIDE AUTOMATIC CONTROL)
- FLUE TEMPERATURE FOR EACH BOILER

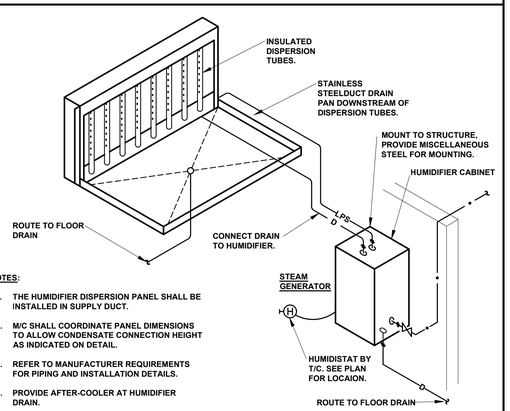
THE FOLLOWING SOFTWARE LIMITS SHALL BE APPLIED TO THE RESPECTIVE SENSORS AND GENERATE AN ALARM IF EXCEEDED IN THE BMS:

- SECONDARY HWS TEMP > HWS SETPOINT + 3°F (FOR 5 MINUTES)
- SECONDARY HWS TEMP < HWS SETPOINT - 3°F (FOR 5 MINUTES)
- "BLR1" HWS TEMP < HWS SETPOINT - 2°F (FOR 5 MINUTES)
- "BLR2" HWS TEMP < HWS SETPOINT - 2°F (FOR 5 MINUTES)
- "BLR3" HWS TEMP < HWS SETPOINT - 2°F (FOR 5 MINUTES)



5 M402 IN-LINE PUMP DETAIL

NO SCALE



NOTES:

1. THE HUMIDIFIER DISPERSION PANEL SHALL BE INSTALLED IN SUPPLY DUCT.
2. M/C SHALL COORDINATE PANEL DIMENSIONS TO ALLOW CONDENSATE CONNECTION HEIGHT AS INDICATED ON DETAIL.
3. REFER TO MANUFACTURER REQUIREMENTS FOR PIPING AND INSTALLATION DETAILS.
4. PROVIDE AFTER-COOLER AT HUMIDIFIER DRAIN.

6 M402 DUCT MOUNTED HUMIDIFIER PIPING DETAIL

NO SCALE

B&A Project No. G32-005-190

Project No: 16004R22004

GLMV Architecture
1523 E. Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

BRACK ASSOCIATES CONSULTING ENGINEERS
P. (785) 271-3444
Topeka, KS 66604
BAA Project # 1122-005-190

BRUCE A. BROWN LICENSED # 18099 6/19/24 KANSAS PROFESSIONAL ENGINEER
License -Kansas - 18099

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

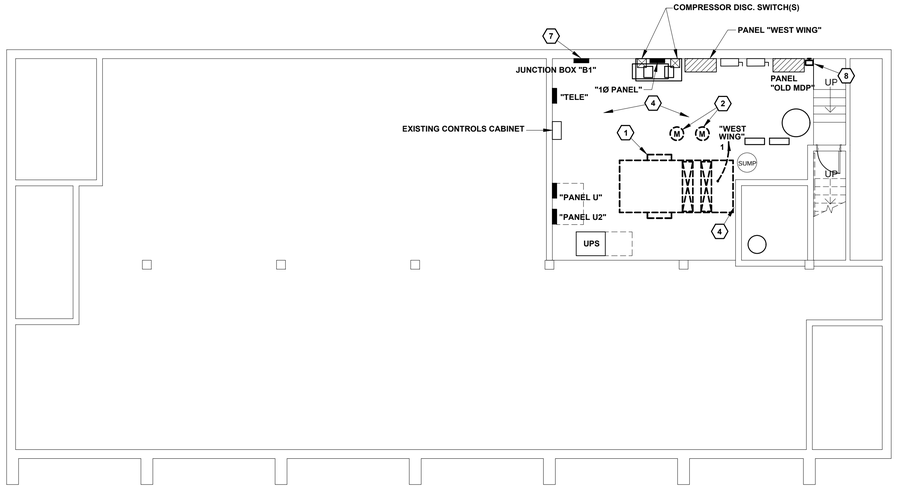
ISSUE DATE: 06/19/24 DRAWN BY: BAB CHECKED BY: JLB REV:

MECHANICAL DETAILS

A-014835Rev

M402

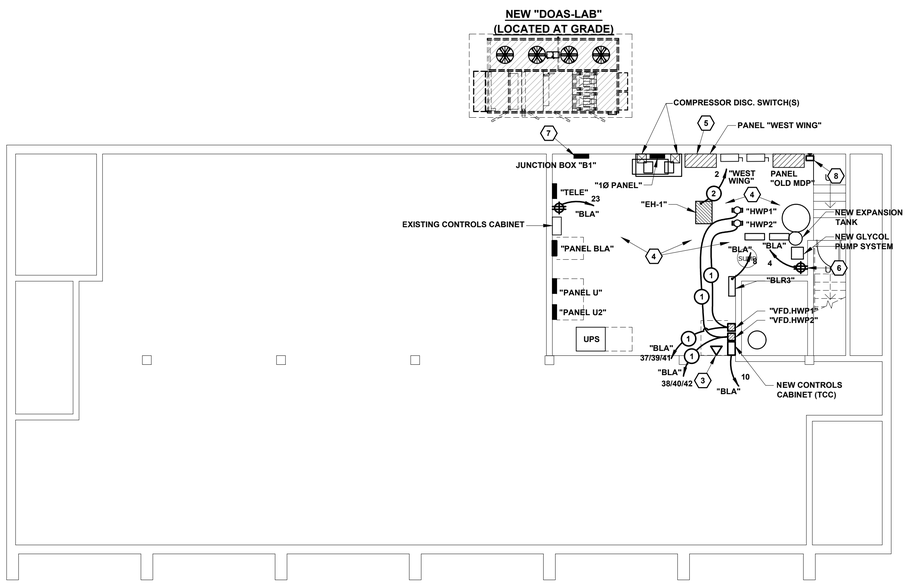
ORIGINAL CONTRACT DOCUMENTS



NORTH

BASEMENT ELECTRICAL DEMOLITION PLAN - PHASE 2

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



NORTH

BASEMENT ELECTRICAL IMPROVEMENT PLAN - PHASE 2

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

NOTES:

1. DISCONNECT POWER AND CONTROLS TO EXISTING AHU TO ACCOMMODATE REMOVAL OF UNIT BY MECHANICAL CONTRACTOR. COORDINATE WITH MECHANICAL CONTRACTOR.
2. DISCONNECT BRANCH CIRCUIT TO ALLOW REMOVAL OF HEATING WATER PUMPS BY MECHANICAL CONTRACTOR. REMOVE EXISTING BRANCH CIRCUIT AND DISCONNECTING MEANS. REMOVE BRANCH CIRCUIT BACK TO POINT OF ORIGIN AND RE-LABEL EXISTING CIRCUIT BREAKER AS REQUIRED. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
3. PROVIDE 4X4 J-BOX AT CABINET HEIGHT WITH SINGLE GANG MUD RING, FULL LENGTH PULL STRING AND PLASTIC BUSHING (AT EACH END OF CONDUIT). ROUTE ONE (1) 1.0" CONDUIT FROM WALL MOUNTED J-BOX UP TO ABOVE FIRST FLOOR CEILING FOR FUTURE DATA / TELECOM CABLING ACCESS. DATA DEVICE(S), CABLING AND FINAL TERMINATIONS/ CONNECTIONS PROVIDED BY OWNER'S VENDOR. COORDINATE EXACT LOCATION, MOUNTING HEIGHT AND REQUIREMENTS WITH CONTROLS VENDOR/CONTRACTOR.
4. CONTRACTOR SHALL PROVIDE LABOR AND MATERIAL TO RELOCATE ALL EXISTING CONDUIT, BRANCH CIRCUITRY, RELAY(S), ETC. AS REQUIRED TO ALLOW INSTALLATION OF NEW AHU, DUCTWORK, BOILER, EH-1, HWP-1, HWP-2, AND PIPING. COORDINATE EXACT BOILER LOCATION WITH MECHANICAL CONTRACTOR.
5. CONTRACTOR SHALL PROVIDE NEW CIRCUIT BREAKER AND PROVIDE FINAL TERMINATIONS / CONNECTIONS TO NEW FEEDER FOR NEW ELECTRICAL HUMIDIFIER "EH-1". REFER TO ELECTRICAL PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
6. CONTRACTOR SHALL PROVIDE RECEPTACLE AND BRANCH CIRCUIT AS INDICATED FOR GLYCOL PUMP SYSTEM.
7. CONTRACTOR SHALL VERIFY THAT EXISTING PANEL CABINET/ ENCLOSURE IS IN COMPLIANCE WITH ARTICLES 314.16 AND 314.28 OF THE NEC AND CAN BE UTILIZED AS A JUNCTION BOX PRIOR TO REMOVING INTERIOR COMPONENTS. DISCONNECT EXISTING BRANCH CIRCUITS FROM CIRCUIT BREAKERS AND REMOVE INTERIOR COVERPLATE, CIRCUIT BREAKERS, BUS BARS, GROUND BARS AND NEUTRAL BARS TO UTILIZE PANEL CABINET/ENCLOSURE AS JUNCTION BOX. PROVIDE TERMINAL STRIP CONNECTION(S) FOR EACH BRANCH CONDUCTOR AND SECURE TO BACK OF PANEL CABINET/ENCLOSURE. PROVIDE CLEAR, PROTECTIVE GUARD AT EACH CONDUCTOR SPLICE AND CLEARLY LABEL. REFER TO SPECS FOR LABELING REQUIREMENTS AND PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
8. REMOVE EXISTING BOILER SAFETY SHUTOFF MUSHROOM BUTTON AND REPLACE WITH NEW AS INDICATED. REPLACE AND/OR EXTEND CONDUIT AND WIRING AS REQUIRED FOR NEW INSTALLATION. PROVIDE ALL FINAL TERMINATIONS AND CONNECTIONS.

FEEDER SCHEDULE:

1. 3-12 & 1-12 IN 0.75" C.
2. 3-1 & 1-6G. IN 1.25" C.

GENERAL NOTES:

1. EXISTING CONDITIONS SHOWN ON THE DRAWINGS WERE TAKEN FROM ORIGINAL DOCUMENTS AND FIELD OBSERVATIONS. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY FOR RESOLUTION.
2. DO NOT REMOVE OR DISCONNECT ANY MAJOR MECHANICAL OR ELECTRICAL ITEMS (PIPES, DUCTS, CONDUITS, DEVICES, EQUIPMENT, ETC.) INDICATED FOR SUCH BEFORE VERIFYING THAT SERVICES TO OTHER AREAS OF THE BUILDING WILL NOT BE AFFECTED. CONSULT BUILDING MAINTENANCE PERSONNEL AS NEEDED TO ASSIST IN THE DETERMINATION OF UNANTICIPATED ITEMS LOCATED DURING THE DEMOLITION PROCESS. OTHER AREAS OF THE BUILDING MUST REMAIN 100% OPERATIONAL DURING THE DEMOLITION WORK.
3. ON DEMOLITION DRAWINGS, DEVICES, CONDUIT, CIRCUITS, EQUIPMENT AND ACCESSORIES SHOWN SOLID ARE INTENDED TO REMAIN. DEVICES, CONDUIT AND CIRCUITS SHOWN BOLD AND DASHED ARE TO BE REMOVED.
4. THE OWNER MAINTAINS FIRST RIGHT OF REFUSAL OF ALL ITEMS. IF ITEMS ARE NOT RETAINED BY THE OWNER THEY SHALL BE LEGALLY REMOVED FROM THE SITE AND DISPOSED OF BY THIS CONTRACTOR.
5. CONTRACTOR SHALL REPAIR ALL WALL, FLOOR AND CEILING PENETRATIONS WHERE NECESSARY DUE TO NEW CONSTRUCTION. REPAIRS SHALL MATCH EXISTING SURFACES AND MAINTAIN PROPER FIRE/SMOKE RATING.
6. COORDINATE INSTALLATION OF EQUIPMENT AND SYSTEMS WITH ALL OTHER TRADES AND UTILITIES. ANY VARIANCE IN LAYOUT SHOULD BE COORDINATED WITH OWNER/ENGINEER.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING LABELS ON ALL NEW EQUIPMENT. LABELS SHALL BE AS OUTLINED IN THE SPECIFICATIONS.
8. PROVIDE AN UPDATED, TYPED PANEL DIRECTORY FOR ALL PANELBOARDS WITHIN THE SCOPE OF THIS PROJECT. THE DIRECTORY SHALL BE IN MICROSOFT EXCEL FORMAT. SUBMIT ELECTRONIC DIRECTORY TO THE OWNER AND ENGINEER.
9. ALL CONDUIT, HANGERS, SUPPORTS, AND ETC. SHALL BE INSTALLED AS HIGH AS POSSIBLE TO MAINTAIN MAXIMUM CLEARANCE. WITH MINIMUM 12" ABOVE ACCESSIBLE CEILINGS.
10. COORDINATE INSTALLATION WITH ALL REQUIRED CLEARANCES SHOWN. ANY VARIANCE IN LAYOUT SHOULD BE COORDINATED WITH OWNER/ENGINEER.
11. ALL CONDUITS AND FEEDERS TO BE REMOVED THAT ARE LOCATED BEHIND INACCESSIBLE WALLS AND CEILINGS SHALL BE ABANDONED IN PLACE. CONDUIT OR CABLE SHALL BE CUT FLUSH WITH WALL/CEILING/FLOOR, WIRE REMOVED FROM CONDUITS AND SURFACE PATCHED BACK FLUSH AND FINISHED TO MATCH EXISTING.
12. ALL NEW BRANCH CIRCUITRY SHALL MAINTAIN A DEDICATED NEUTRAL CONDUCTOR AND A DEDICATED GROUNDED CONDUCTOR THROUGH THE ENTIRE LENGTH OF THE NEW BRANCH CIRCUIT.

B&A Project No. G32-005-190

Project No:
16004R22004

GLMV Architecture
1525 E. Douglas, Wichita, KS 67211
Tel: (316) 265-9307
www.glmv.com

BRACK ASSOCIATES CONSULTING ENGINEERS
P: (785) 271-0844
Topeka, KS 66606
BSA Project # 112-0004-240

BRUCE A. BROWN
LICENSED
18099
8/19/24
KANSAS
PROFESSIONAL ENGINEER
License -Kansas - 18099

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

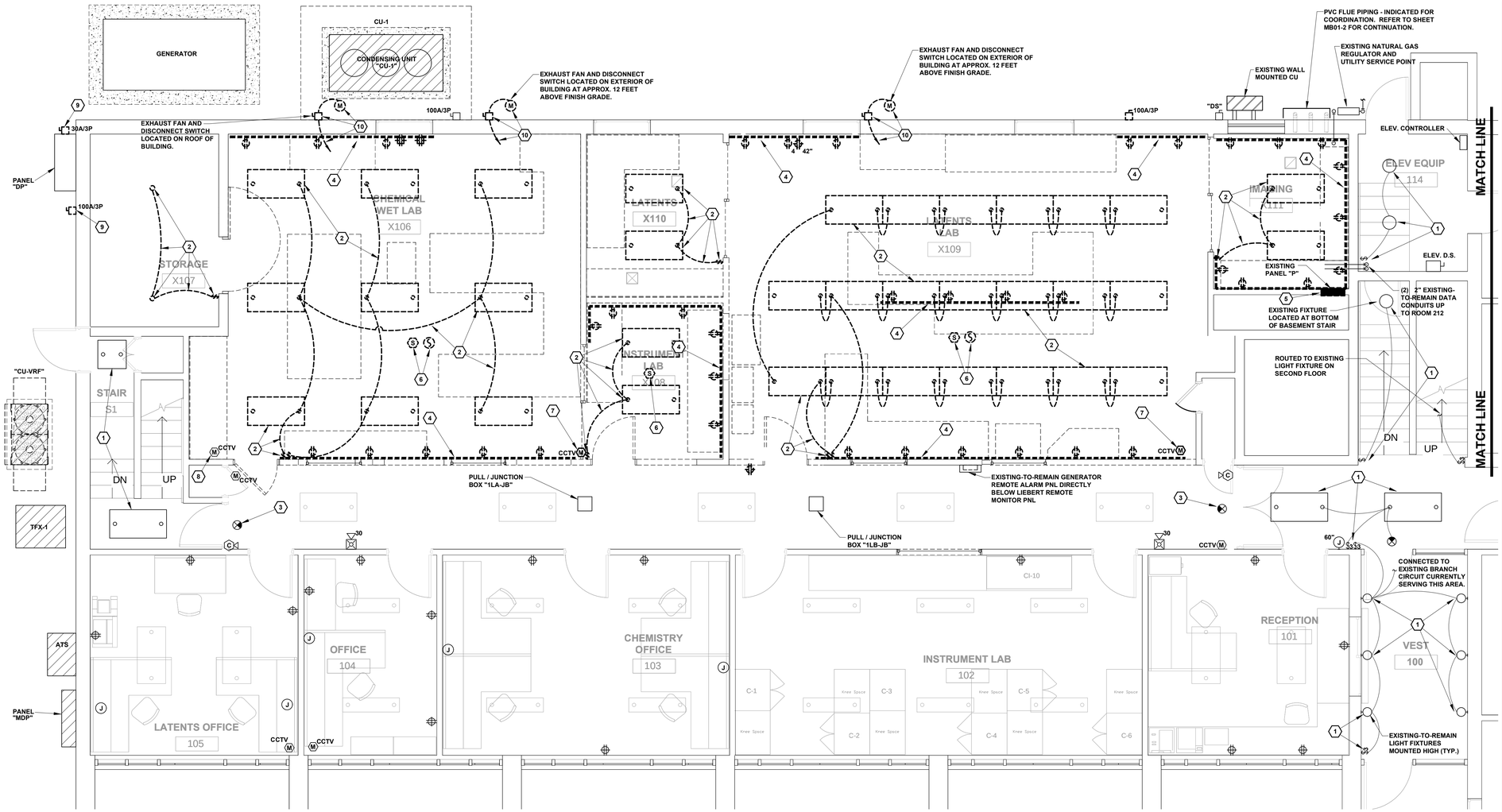
ISSUE DATE: 08/19/24 DRAWN BY: BAB CHECKED BY: JLB REV:

BASEMENT ELECTRICAL PLANS - PHASE 2

A-014835Rev

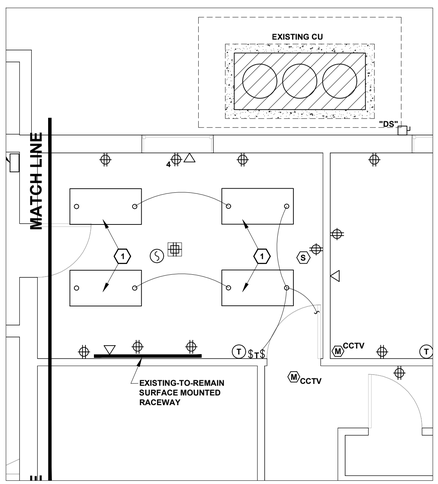
EB01-2

ORIGINAL CONTRACT DOCUMENTS



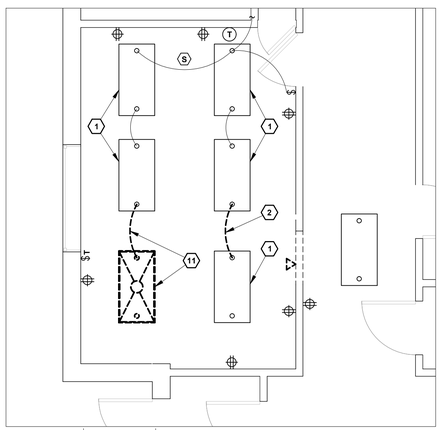
FIRST FLOOR ELECTRICAL DEMOLITION PLAN - PHASE 2

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



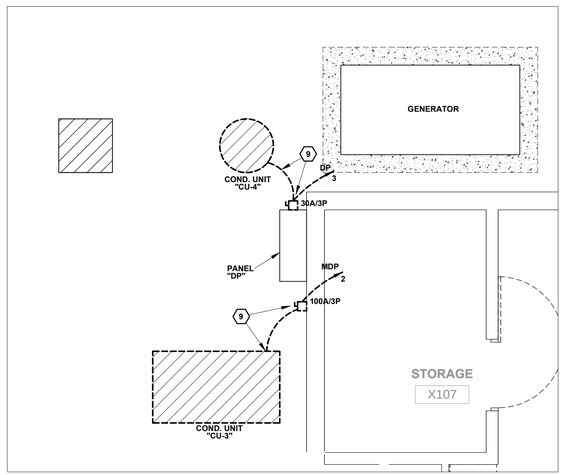
FIRST FLOOR ELECTRCAL DEMOLITION PLAN - PHASE 2

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



FIRST FLOOR ELECTRICAL DEMOLITION PLAN - PHASE 2

scale: 1/#" = 1'-0"



PARTIAL FIRST FLOOR ELECTRICAL DEMOLITION PLAN - PHASE 2

scale: 1/#" = 1'-0"

NOTES:

1. EXISTING LIGHT FIXTURE(S), BRANCH CIRCUIT(S), AND SWITCHING TO REMAIN IN THIS AREA.
2. REMOVE EXISTING LIGHT FIXTURE, WALL SWITCH(S) AND BRANCH CIRCUITRY WITHIN THIS AREA AS INDICATED (TYP.).
3. EXISTING EXIT SIGNAGE/LIGHT FIXTURE(S) TO REMAIN IN THIS AREA. CONNECT TO NEW ADJACENT BRANCH CIRCUIT. REFER TO LIGHTING IMPROVEMENT PLAN FOR BRANCH CIRCUITRY.
4. REMOVE EXISTING PLUG MOLD.
5. RELOCATE EXISTING BRANCH CIRCUITS AND REMOVE EXISTING PANEL. REFER TO PANEL SCHEDULES AND ELECTRICAL RISER DIAGRAMS.
6. EXISTING CEILING DEVICE TO BE RELOCATED. REFER TO SPECIAL SYSTEMS IMPROVEMENT PLAN.
7. EXISTING CEILING SECURITY MOTION DETECTOR TO BE RELOCATED. REFER TO SPECIAL SYSTEMS IMPROVEMENT PLAN.
8. EXISTING WALL SECURITY MOTION DETECTOR TO REMAIN.
9. DISCONNECT BRANCH CIRCUIT TO ALLOW REMOVAL OF CONDENSING UNIT BY MECHANICAL CONTRACTOR. REMOVE EXISTING BRANCH CIRCUIT AND DISCONNECT SWITCH. REMOVE BRANCH CIRCUIT BACK TO POINT OF ORIGIN AND RE-LABEL EXISTING CIRCUIT BREAKER AS REQUIRED. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
10. DISCONNECT BRANCH CIRCUIT TO ALLOW REMOVAL OF EXHAUST FAN BY MECHANICAL CONTRACTOR. REMOVE EXISTING BRANCH CIRCUIT AND DISCONNECT SWITCH. REMOVE BRANCH CIRCUIT BACK TO POINT OF ORIGIN AND RE-LABEL EXISTING CIRCUIT BREAKER AS REQUIRED. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
11. RELOCATE EXISTING LIGHT FIXTURE AND CONNECT TO EXISTING BRANCH CIRCUITRY AND SWITCHING WITHIN THIS AREA. REFER TO SHEET E101-2 FOR ADDITIONAL INFORMATION.

GENERAL NOTES:

1. EXISTING CONDITIONS SHOWN ON THE DRAWINGS WERE TAKEN FROM ORIGINAL DOCUMENTS AND FIELD OBSERVATIONS. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY FOR RESOLUTION.
2. DO NOT REMOVE OR DISCONNECT ANY MAJOR MECHANICAL OR ELECTRICAL ITEMS (PIPES, DUCTS, CONDUITS, DEVICES, EQUIPMENT, ETC.) INDICATED FOR SUCH BEFORE VERIFYING THAT SERVICES TO OTHER AREAS OF THE BUILDING WILL NOT BE AFFECTED. CONSULT BUILDING MAINTENANCE PERSONNEL AS NEEDED TO ASSIST IN THE DETERMINATION OF UNANTICIPATED ITEMS LOCATED DURING THE DEMOLITION PROCESS. OTHER AREAS OF THE BUILDING MUST REMAIN 100% OPERATIONAL DURING THE DEMOLITION WORK.
3. DEMOLITION DRAWINGS, DEVICES, CONDUIT, CIRCUITS, EQUIPMENT AND ACCESSORIES SHOWN SOLID ARE INTENDED TO REMAIN. DEVICES, CONDUIT AND CIRCUITS SHOWN BOLD AND DASHED ARE TO BE REMOVED. ALL EXISTING LIGHT FIXTURES, DEVICES, EQUIPMENT, CONDUIT AND CIRCUITS INTENDED TO REMAIN SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION SEQUENCE.
4. THE OWNER MAINTAINS FIRST RIGHT OF REFUSAL OF ALL ITEMS. IF ITEMS ARE NOT RETAINED BY THE OWNER THEY SHALL BE LEGALLY REMOVED FROM THE SITE AND DISPOSED OF BY THIS CONTRACTOR.
5. CONTRACTOR SHALL REPAIR ALL WALL, FLOOR AND CEILING PENETRATIONS WHERE NECESSARY DUE TO NEW CONSTRUCTION. REPAIRS SHALL MATCH EXISTING SURFACES AND MAINTAIN PROPER FIRE/SMOKE RATING.
6. COORDINATE INSTALLATION OF EQUIPMENT AND SYSTEMS WITH ALL OTHER TRADES AND UTILITIES. ANY VARIANCE IN LAYOUT SHOULD BE COORDINATED WITH OWNER/ENGINEER.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING LABELS ON ALL NEW EQUIPMENT. LABELS SHALL BE AS OUTLINED IN THE SPECIFICATIONS.
8. PROVIDE AN UPDATED, TYPED PANEL DIRECTORY FOR ALL PANELBOARDS WITHIN THE SCOPE OF THIS PROJECT. THE DIRECTORY SHALL BE IN MICROSOFT EXCEL FORMAT. SUBMIT ELECTRONIC DIRECTORY TO THE OWNER AND ENGINEER.
9. ALL CONDUIT, HANGERS, SUPPORTS, AND ETC. SHALL BE INSTALLED AS HIGH AS POSSIBLE TO MAINTAIN MAXIMUM CLEARANCE. WITH MINIMUM 12" ABOVE ACCESSIBLE CEILINGS.
10. COORDINATE INSTALLATION WITH ALL REQUIRED CLEARANCES SHOWN. ANY VARIANCE IN LAYOUT SHOULD BE COORDINATED WITH OWNER/ENGINEER.
11. ALL CONDUITS AND FEEDERS TO BE REMOVED THAT ARE LOCATED BEHIND INACCESSIBLE WALLS AND CEILINGS SHALL BE ABANDONED IN PLACE. CONDUIT OR CABLE SHALL BE CUT FLUSH WITH WALL/CEILING/FLOOR, WIRE REMOVED FROM CONDUITS AND SURFACE PATCHED BACK FLUSH AND FINISHED TO MATCH EXISTING.
12. ALL NEW BRANCH CIRCUITRY SHALL MAINTAIN A DEDICATED NEUTRAL CONDUCTOR AND A DEDICATED GROUNDED CONDUCTOR THROUGH THE ENTIRE LENGTH OF THE NEW BRANCH CIRCUIT.

B&A Project No. G32-005-190

Project No: 16004R22004

GLMV Architecture
1923 E. Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

BRACK ASSOCIATES CONSULTING ENGINEERS
P: (785) 271-3444
Topeka, KS 66606
BA # Index # 1122-000-190

BRUCE A. BROWN LICENSED # 18099 8/19/24 KANSAS PROFESSIONAL ENGINEER
License -Kansas - 18099

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

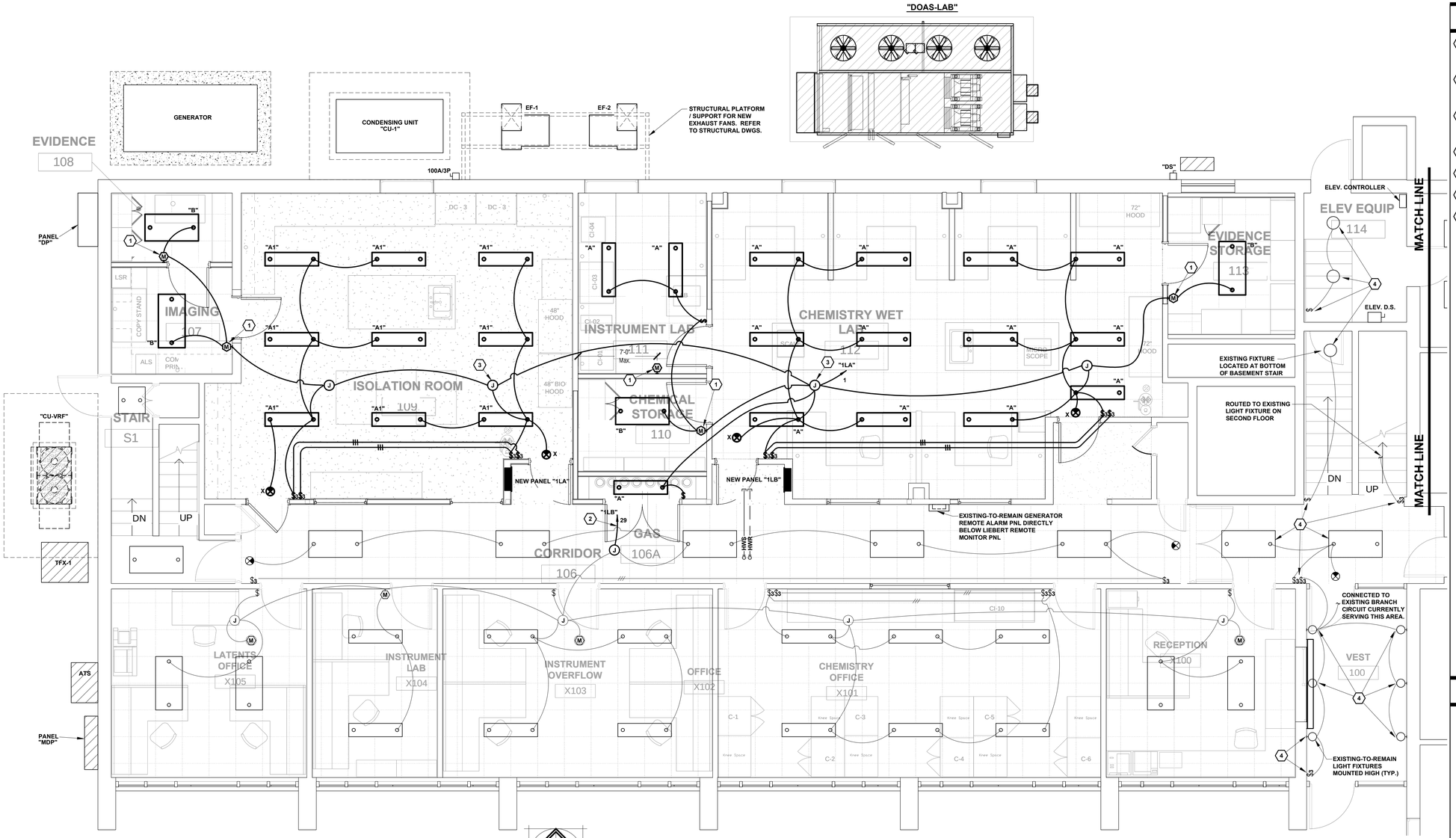
ISSUE DATE: 08/19/24 DRAWN BY: BAB CHECKED BY: JLB REV:

FIRST FLOOR ELECTRICAL DEMO PLAN - PHASE 2

A-014835Rev

E100-2

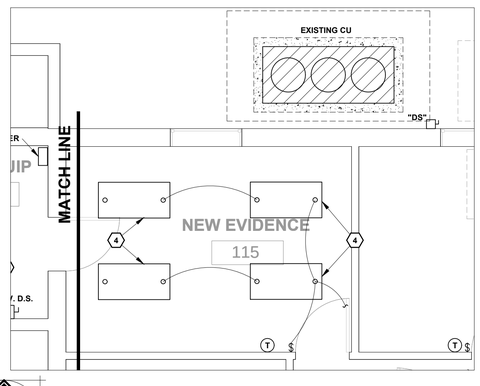
ORIGINAL CONTRACT DOCUMENTS



NORTH

FIRST FLOOR LIGHTING IMPROVEMENT PLAN - PHASE 2

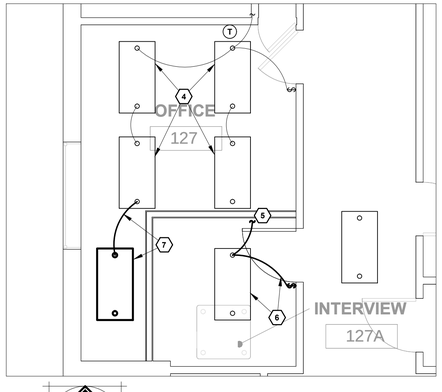
scale: 1/4" = 1'-0"



NORTH

FIRST FLOOR LIGHTING IMPROVEMENT PLAN - PHASE 2

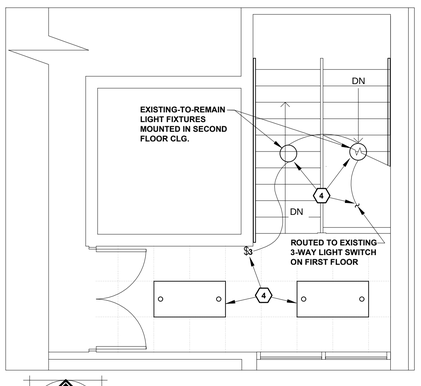
scale: 1/4" = 1'-0"



NORTH

FIRST FLOOR LIGHTING IMPROVEMENT PLAN - PHASE 2

scale: 1/#" = 1'-0"



NORTH

SECOND FLOOR LIGHTING IMPROVEMENT PLAN - PHASE 2

scale: 1/#" = 1'-0"

NOTES:

1. PROVIDE PASSIVE INFRARED, 0-10 VOLT, DIMMING WALL SWITCH, WATTSTOPPER # PW-311 OR APPROVED EQUAL. REFER TO ROOM LIGHTING CONTROL DIAGRAM DETAIL ON SHEET E400 FOR ADDITIONAL INFORMATION (TYP).
2. CONTRACTOR SHALL REMOVE HOME RUN BRANCH CIRCUIT FROM EXISTING-TO-BE-REMOVED PANEL "P" AND PROVIDE NEW HOME RUN BRANCH CIRCUIT TO NEW PANEL AS INDICATED.
3. PROVIDE ROOM LOW VOLTAGE LIGHTING CONTROLLER AND EXTEND CABLING TO SENSORS, DIMMERS, SWITCHES, ETC. REFER TO ROOM LIGHTING CONTROL DIAGRAM DETAIL ON SHEET E400 FOR ADDITIONAL INFORMATION (TYP).
4. EXISTING LIGHT FIXTURES, WALL SWITCH, AND BRANCH CIRCUITRY TO REMAIN AS INDICATED.
5. CONNECT TO EXISTING BRANCH CIRCUIT CURRENTLY SERVING THIS AREA.
6. RE-USE EXISTING LIGHT FIXTURE (RELOCATE AS REQUIRED) AND CONNECT TO NEW SWITCH AS INDICATED.
7. CONNECT RELOCATED LIGHT FIXTURE TO EXISTING BRANCH CIRCUITRY AND SWITCHING WITHIN THIS AREA.

GENERAL NOTES:

1. EXISTING CONDITIONS SHOWN ON THE DRAWINGS WERE TAKEN FROM ORIGINAL DOCUMENTS AND FIELD OBSERVATIONS. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY FOR RESOLUTION.
2. DO NOT REMOVE OR DISCONNECT ANY MAJOR MECHANICAL OR ELECTRICAL ITEMS (PIPES, DUCTS, CONDUITS, DEVICES, EQUIPMENT, ETC.) INDICATED FOR SUCH BEFORE VERIFYING THAT SERVICES TO OTHER AREAS OF THE BUILDING WILL NOT BE AFFECTED. CONSULT BUILDING MAINTENANCE PERSONNEL AS NEEDED TO ASSIST IN THE DETERMINATION OF UNANTICIPATED ITEMS LOCATED DURING THE DEMOLITION PROCESS. OTHER AREAS OF THE BUILDING MUST REMAIN 100% OPERATIONAL DURING THE DEMOLITION WORK.
3. DEMOLITION DRAWINGS, DEVICES, CONDUIT, CIRCUITS, EQUIPMENT AND ACCESSORIES SHOWN SOLID ARE INTENDED TO REMAIN. DEVICES, CONDUIT AND CIRCUITS SHOWN BOLD AND DASHED ARE TO BE REMOVED. ALL EXISTING LIGHT FIXTURES, DEVICES, EQUIPMENT, CONDUIT AND CIRCUITS INTENDED TO REMAIN SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION SEQUENCE.
4. THE OWNER MAINTAINS FIRST RIGHT OF REFUSAL OF ALL ITEMS. IF ITEMS ARE NOT RETAINED BY THE OWNER THEY SHALL BE LEGALLY REMOVED FROM THE SITE AND DISPOSED OF BY THIS CONTRACTOR.
5. CONTRACTOR SHALL REPAIR ALL WALL, FLOOR AND CEILING PENETRATIONS WHERE NECESSARY DUE TO NEW CONSTRUCTION. REPAIRS SHALL MATCH EXISTING SURFACES AND MAINTAIN PROPER FIRE/SMOKE RATING.
6. COORDINATE INSTALLATION OF EQUIPMENT AND SYSTEMS WITH ALL OTHER TRADES AND UTILITIES. ANY VARIANCE IN LAYOUT SHOULD BE COORDINATED WITH OWNER/ENGINEER.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING LABELS ON ALL NEW EQUIPMENT. LABELS SHALL BE AS OUTLINED IN THE SPECIFICATIONS.
8. PROVIDE AN UPDATED, TYPED PANEL DIRECTORY FOR ALL PANELBOARDS WITHIN THE SCOPE OF THIS PROJECT. THE DIRECTORY SHALL BE IN MICROSOFT EXCEL FORMAT. SUBMIT ELECTRONIC DIRECTORY TO THE OWNER AND ENGINEER.
9. ALL CONDUIT, HANGERS, SUPPORTS, AND ETC. SHALL BE INSTALLED AS HIGH AS POSSIBLE TO MAINTAIN MAXIMUM CLEARANCE. WITH MINIMUM 12" ABOVE ACCESSIBLE CEILINGS.
10. COORDINATE INSTALLATION WITH ALL REQUIRED CLEARANCES SHOWN. ANY VARIANCE IN LAYOUT SHOULD BE COORDINATED WITH OWNER/ENGINEER.
11. ALL CONDUITS AND FEEDERS TO BE REMOVED THAT ARE LOCATED BEHIND INACCESSIBLE WALLS AND CEILINGS SHALL BE ABANDONED IN PLACE. CONDUIT OR CABLE SHALL BE CUT FLUSH WITH WALL/CEILING/FLOOR. WIRE REMOVED FROM CONDUITS AND SURFACE PATCHED BACK FLUSH AND FINISHED TO MATCH EXISTING.
12. ALL NEW BRANCH CIRCUITRY SHALL MAINTAIN A DEDICATED NEUTRAL CONDUCTOR AND A DEDICATED GROUNDED CONDUCTOR THROUGH THE ENTIRE LENGTH OF THE NEW BRANCH CIRCUIT.

B&A Project No. G32-005-190

Project No: 16004R22004

GLMV Architecture
1535 E. Douglas, Wichita, KS 67211
Tel: (316) 265-9307
www.glmv.com

BRACK ASSOCIATES CONSULTING ENGINEERS
P. (785) 271-5844
Topeka, KS 66606
BAA Project # G32-005-190

BRUCE A. BROWN LICENSED ACTIVE # 18099 8/19/24 KANSAS PROFESSIONAL ENGINEER
License -Kansas - 18099

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

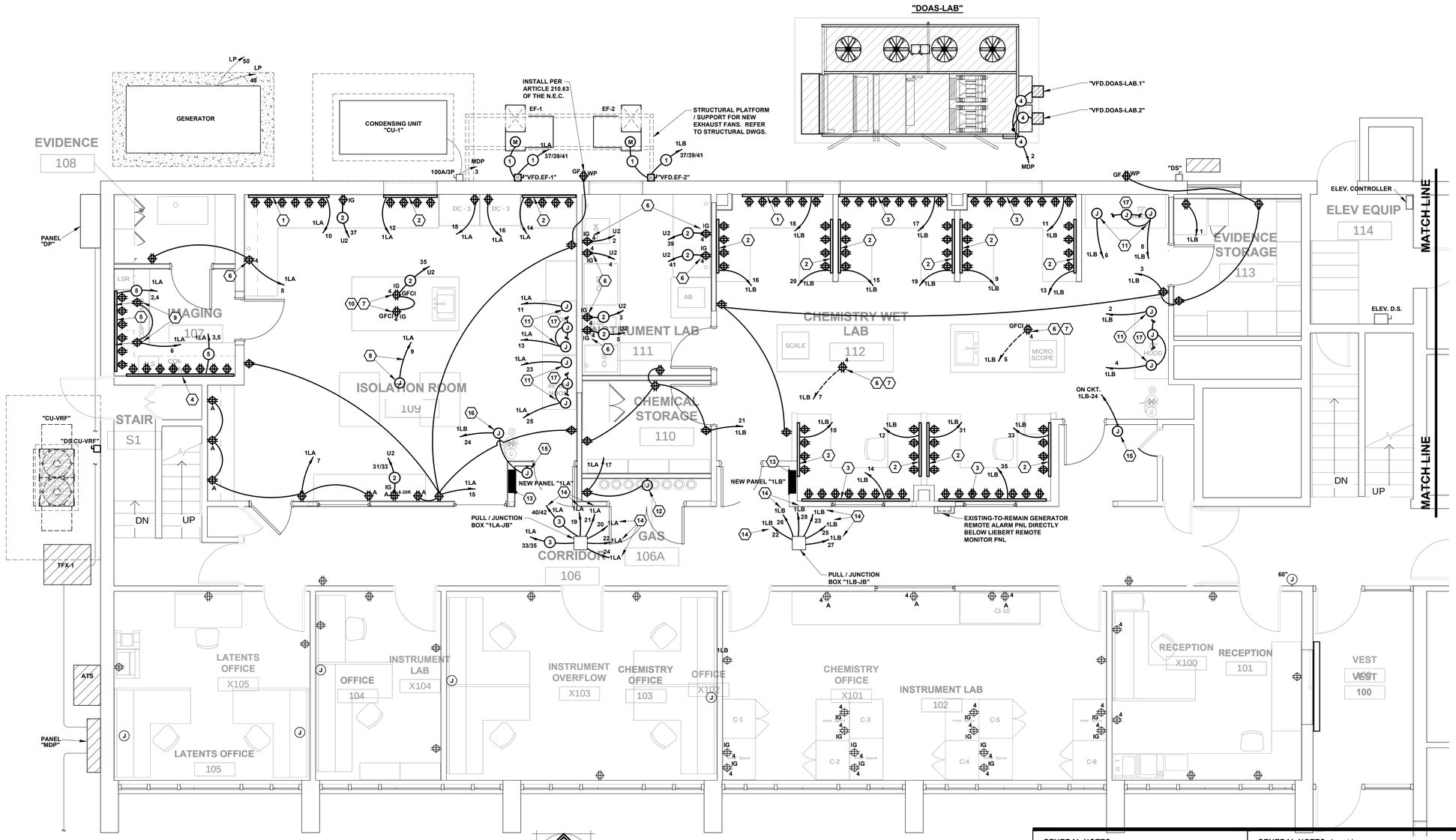
ISSUE DATE: 08/19/24 DRAWN BY: BAB CHECKED BY: JLB REV:

FIRST FLOOR LIGHTING IMPROVEMENT PLAN - PHASE 2

A-014835Rev

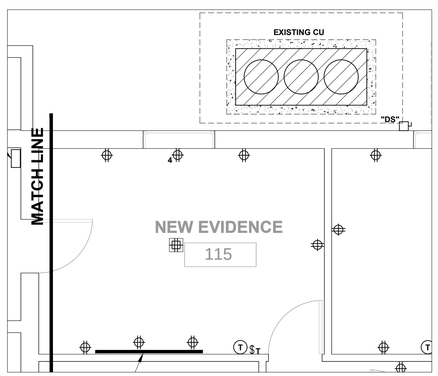
E101-2

ORIGINAL CONTRACT DOCUMENTS



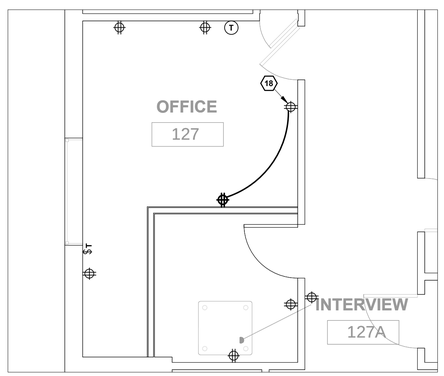
FIRST FLOOR POWER IMPROVEMENT PLAN - PHASE 2

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



FIRST FLOOR POWER IMPROVEMENT PLAN - PHASE 2

scale: 1/#" = 1'-0"



FIRST FLOOR POWER IMPROVEMENT PLAN - PHASE 2

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

NOTES:

1. PROVIDE HUBBELL 6'-0", SURFACE MOUNTED, 2-CHANNEL/ COMPARTMENT, 1-CIRCUIT, ALUMINUM SERIES LEGRAND #ALDS4000 RACEWAY. PROVIDE BRANCH CIRCUITRY AND DUPLEX RECEPTACLES AT 12" O.C. WITH COVERPLATE. PROVIDE DATA OUTLET COVERPLATES AT 12"" O.C. COORDINATE DATA OUTLET QUANTITIES, TYPES AND EXACT LOCATIONS WITH OWNER. MOUNT ABOVE COUNTER AND REFER TO ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHT.
2. PROVIDE HUBBELL 4'-0", SURFACE MOUNTED, 2-CHANNEL/ COMPARTMENT, 1-CIRCUIT, ALUMINUM SERIES LEGRAND #ALDS4000 RACEWAY. PROVIDE BRANCH CIRCUITRY AND DUPLEX RECEPTACLES AT 12" O.C. WITH COVERPLATE. PROVIDE DATA OUTLET COVERPLATES AT 12"" O.C. COORDINATE DATA OUTLET QUANTITIES, TYPES AND EXACT LOCATIONS WITH OWNER. MOUNT ABOVE COUNTER AND REFER TO ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHT.
3. PROVIDE HUBBELL 8'-0", SURFACE MOUNTED, 2-CHANNEL/ COMPARTMENT, 1-CIRCUIT, ALUMINUM SERIES LEGRAND #ALDS4000 RACEWAY. PROVIDE BRANCH CIRCUITRY AND DUPLEX RECEPTACLES AT 12" O.C. WITH COVERPLATE. PROVIDE DATA OUTLET COVERPLATES AT 12"" O.C. COORDINATE DATA OUTLET QUANTITIES, TYPES AND EXACT LOCATIONS WITH OWNER. MOUNT ABOVE COUNTER AND REFER TO ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHT.
4. PROVIDE HUBBELL 8'-0", SURFACE MOUNTED, 2-CHANNEL/ COMPARTMENT, 2-CIRCUIT, ALUMINUM SERIES LEGRAND #ALDS4000 RACEWAY. PROVIDE BRANCH CIRCUITRY AND DUPLEX RECEPTACLES (RECEPTACLES SHALL BE ON ALTERNATING BRANCH CIRCUITS) AT 12" O.C. WITH COVERPLATE. PROVIDE DATA OUTLET COVERPLATES AT 12"" O.C. COORDINATE DATA OUTLET QUANTITIES, TYPES AND EXACT LOCATIONS WITH OWNER. MOUNT ABOVE COUNTER AND REFER TO ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHT.
5. PROVIDE HUBBELL 6'-6", SURFACE MOUNTED, 2-CHANNEL/ COMPARTMENT, 2-CIRCUIT, ALUMINUM SERIES LEGRAND #ALDS4000 RACEWAY. PROVIDE BRANCH CIRCUITRY AND DUPLEX RECEPTACLES (RECEPTACLES SHALL BE ON ALTERNATING BRANCH CIRCUITS) AT 12" O.C. WITH COVERPLATE. PROVIDE DATA OUTLET COVERPLATES AT 12"" O.C. COORDINATE DATA OUTLET QUANTITIES, TYPES AND EXACT LOCATIONS WITH OWNER. MOUNT ABOVE COUNTER AND REFER TO ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHT.
6. MOUNT RECEPTACLE UNDER WORKING SURFACE AND WITHIN CABINET DIRECTLY ADJACENT TO GROMMET LOCATION(S). COORDINATE EXACT LOCATION AND MOUNTING REQUIREMENTS WITH ARCHITECTURAL DRAWINGS.
7. CONTRACTOR SHALL CORE HOLE THROUGH EXISTING CONCRETE SLAB TO ALLOW FOR INSTALLATION OF BRANCH CIRCUIT(S) (ROUTE CONDUIT(S) UP FROM BELOW). CONTRACTOR SHALL MINIMIZE CORE HOLE OPENING(S) BY COMBINING BRANCH CIRCUIT CONDUIT(S) AND DATA/TELECOM CONDUIT(S) AS MUCH AS POSSIBLE AND ROUTING UP WITHIN OPENING(S). PROVIDE FIRE STOP/SEALANT AROUND OPENING AFTER CONDUIT HAS BEEN INSTALLED. REFER TO FIRST FLOOR SPECIAL SYSTEMS IMPROVEMENT PLAN FOR ADDITIONAL INFORMATION AND COORDINATION. COORDINATE WITH STRUCTURAL ENGINEER PRIOR TO CORE DRILLING SLAB TO AVOID STRUCTURAL DAMAGE TO EXISTING SLAB. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS.
8. PROVIDE J-BOX, RECEPTACLE, COVERPLATE AND BRANCH CIRCUIT AT CEILING. PROVIDE CEILING MOUNTED RETRACTABLE REEL WITH DROP CORD AND RECEPTACLE(S) SUSPENDED FROM J-BOX, BRYANT # BRYC40123TT OR SIMILAR. PROVIDE STRAIN RELIEF(S) FOR DROP CORD AND ALL FINAL CONNECTION/TERMINATION BETWEEN J-BOX AND RETRACTABLE REEL. COORDINATE EXACT LOCATION OF RETRACTABLE REEL WITH ARCHITECTURAL DRAWINGS.
9. MOUNT RECEPTACLE ABOVE WORKING SURFACE (APPROX. 72" A.F.F.). COORDINATE EXACT LOCATION AND MOUNTING REQUIREMENTS WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION.
10. MOUNT RECEPTACLE ABOVE WORKING SURFACE IN A "TOMBSTONE CONFIGURATION" (SIMILAR HUBBELL # WSBB43UBAL). COORDINATE EXACT LOCATION AND MOUNTING REQUIREMENTS WITH ARCHITECTURAL DRAWINGS.
11. PROVIDE (2) J-BOXES, COVERPLATES AND BRANCH CIRCUITS FOR EXHAUST HOOD. PROVIDE (1) J-BOX, COVERPLATE AND BRANCH CIRCUIT FOR EXHAUST HOOD LIGHTS. PROVIDE (1) J-BOX, COVERPLATE AND BRANCH CIRCUIT FOR RECEPTACLES LOCATED WITHIN EXHAUST HOOD. PROVIDE ALL FINAL CONNECTION/ TERMINATION BETWEEN J-BOX AND EXHAUST HOOD. COORDINATE EXACT REQUIREMENTS AND LOCATION OF EXHAUST HOOD WITH MANUFACTURER AND ARCHITECTURAL DRAWINGS.
12. PROVIDE J-BOX (60" A.F.F.), COVERPLATES AND BRANCH CIRCUIT FOR GAS MANIFOLD AND CONTROLS. PROVIDE ALL FINAL CONNECTION/TERMINATION BETWEEN J-BOX AND GAS EQUIPMENT/MANIFOLD. COORDINATE EXACT REQUIREMENTS AND LOCATION OF EQUIPMENT/MANIFOLD WITH MANUFACTURER AND ARCHITECTURAL DRAWINGS.
13. PROVIDE FIVE (5) 0.75" EMPTY CONDUITS WITH PULL STRINGS AND ROUTE FROM TOP OF PANEL TO ABOVE ACCESSIBLE CEILING FOR FUTURE BRANCH CIRCUIT(S).
14. ROUTE BRANCH CIRCUIT(S) FROM TERMINAL STRIP(S) WITHIN PULL / JUNCTION BOX "1LA-JB" (INSTALLED IN PHASE-1) TO NEW PANEL AND CIRCUIT BREAKER AS INDICATED. PROVIDE FINAL TERMINATION(S) / CONNECTION(S) TO NEW CIRCUIT BREAKER(S) AND TERMINAL STRIP(S) AS REQUIRED.
15. PROVIDE 4X4 J-BOX (48" A.F.F.) WITH SINGLE GANG MUD RING, BRANCH CIRCUIT, FULL LENGTH PULL STRING AND PLASTIC BUSHING (AT EACH END OF CONDUIT) FOR ROOM PRESSURE CONTROLLER. ROUTE ONE (1) 1.0" CONDUIT FROM WALL MOUNTED J-BOX UP TO ABOVE CEILING FOR CABLING ACCESS. CABLING, CONTROLLER AND FINAL TERMINATIONS/CONNECTIONS SHALL BE PROVIDED BY CONTROLS CONTRACTOR (REFER TO FIRST FLOOR MECHANICAL PLANS FOR ADDITIONAL INFORMATION). COORDINATE EXACT LOCATION, MOUNTING HEIGHT AND REQUIREMENTS WITH CONTROLS CONTRACTOR AND ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION.
16. PROVIDE J-BOX AND BRANCH CIRCUIT ABOVE CEILING FOR TEMPERATURE CONTROLS. COORDINATE LOCATION AND REQUIREMENTS WITH CONTROLS CONTRACTOR PRIOR TO INSTALLATION.
17. PROVIDE NEW SASH SENSORS, PROXIMITY SENSORS AND WIRING/CIRCUITRY FOR RELOCATED AND NEW EXHAUST HOOD SASH(S). PROVIDE ALL FINAL CONNECTION/ TERMINATION FOR FULLY OPERATIONAL SENSORS. COORDINATE EXACT REQUIREMENTS OF SENSORS WITH MANUFACTURER AND ARCHITECTURAL DRAWINGS.
18. CONNECT NEW DEVICE TO EXISTING BRANCH CIRCUIT AS INDICATED. CONTRACTOR SHALL VERIFY EXISTING CAPACITY / AMPACITY OF EXISTING BRANCH CIRCUIT PRIOR TO FINAL CONNECTION. MAXIMUM CAPACITY / AMPACITY OF BRANCH CIRCUIT SHALL NOT EXCEED 1800 WATTS.

GENERAL NOTES:

1. EXISTING CONDITIONS SHOWN ON THE DRAWINGS WERE TAKEN FROM ORIGINAL DOCUMENTS AND FIELD OBSERVATIONS. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY FOR RESOLUTION.
2. DO NOT REMOVE OR DISCONNECT ANY MAJOR MECHANICAL OR ELECTRICAL ITEMS (PIPES, DUCTS, CONDUITS, DEVICES, EQUIPMENT, ETC.) INDICATED FOR SUCH BEFORE VERIFYING THAT SERVICES TO OTHER AREAS OF THE BUILDING WILL NOT BE AFFECTED. CONSULT BUILDING MAINTENANCE PERSONNEL AS NEEDED TO ASSIST IN THE DETERMINATION OF UNANTICIPATED ITEMS LOCATED DURING THE DEMOLITION PROCESS. OTHER AREAS OF THE BUILDING MUST REMAIN 100% OPERATIONAL DURING THE DEMOLITION WORK.
3. DEMOLITION DRAWINGS, DEVICES, CONDUIT, CIRCUITS, EQUIPMENT AND ACCESSORIES SHOWN SOLID ARE INTENDED TO REMAIN. DEVICES, CONDUIT AND CIRCUITS SHOWN BOLD AND DASHED ARE TO BE REMOVED. ALL EXISTING LIGHT FIXTURES, DEVICES, EQUIPMENT, CONDUIT AND CIRCUITS INTENDED TO REMAIN SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION SEQUENCE.
4. THE OWNER MAINTAINS FIRST RIGHT OF REFUSAL OF ALL ITEMS. IF ITEMS ARE NOT RETAINED BY THE OWNER THEY SHALL BE LEGALLY REMOVED FROM THE SITE AND DISPOSED OF BY THIS CONTRACTOR.
5. CONTRACTOR SHALL REPAIR ALL WALL, FLOOR AND CEILING PENETRATIONS WHERE NECESSARY DUE TO NEW CONSTRUCTION. REPAIRS SHALL MATCH EXISTING SURFACES AND MAINTAIN PROPER FIRE/SMOKE RATING.
6. COORDINATE INSTALLATION OF EQUIPMENT AND SYSTEMS WITH ALL OTHER TRADES AND UTILITIES. ANY VARIANCE IN LAYOUT SHOULD BE COORDINATED WITH OWNER/ENGINEER.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING LABELS ON ALL NEW EQUIPMENT. LABELS SHALL BE AS OUTLINED IN THE SPECIFICATIONS.

GENERAL NOTES: (cont.)

8. PROVIDE AN UPDATED, TYPED PANEL DIRECTORY FOR ALL PANELBOARDS WITHIN THE SCOPE OF THIS PROJECT. THE DIRECTORY SHALL BE IN MICROSOFT EXCEL FORMAT. SUBMIT ELECTRONIC DIRECTORY TO THE OWNER AND ENGINEER.
9. ALL CONDUIT, HANGERS, SUPPORTS, AND ETC. SHALL BE INSTALLED AS HIGH AS POSSIBLE TO MAINTAIN MAXIMUM CLEARANCE. WITH MINIMUM 12" ABOVE ACCESSIBLE CEILINGS.
10. COORDINATE INSTALLATION WITH ALL REQUIRED CLEARANCES SHOWN. ANY VARIANCE IN LAYOUT SHOULD BE COORDINATED WITH OWNER/ENGINEER.
11. ALL CONDUITS AND FEEDERS TO BE REMOVED THAT ARE LOCATED BEHIND INACCESSIBLE WALLS AND CEILINGS SHALL BE ABANDONED IN PLACE. CONDUIT OR CABLE SHALL BE CUT FLUSH WITH WALL/CEILING/FLOOR, WIRE REMOVED FROM CONDUITS AND SURFACE PATCHED BACK FLUSH AND FINISHED TO MATCH EXISTING.
12. ALL NEW BRANCH CIRCUITRY SHALL MAINTAIN A DEDICATED NEUTRAL CONDUCTOR AND A DEDICATED GROUNDED CONDUCTOR THROUGH THE ENTIRE LENGTH OF THE NEW BRANCH CIRCUIT.

FEEDER SCHEDULE:

1. 3-1/0 & 1-1/0 IN 0.75" C.
2. 2-1/2 & 1-1/2G. & 1-1/2 ISO.G. IN 0.75" C.
3. 2-1/2 & 1-1/0 IN 0.75" C.
4. REFER TO ELECTRICAL RISER DIAGRAM.
5. 4-1/2 & 2-1/2G. IN 0.75" C.

B&A Project No. G32-005-190

Project No: 16004R22004

GLMV Architecture
1535 E. Douglas, Wichita, KS 67211
Tel: (316) 265-9307
www.glmv.com

BRACK ASSOCIATES CONSULTING ENGINEERS
P. (785) 271-0844
F. (785) 271-0846
Topeka, Kansas 66606
BAA Project # G32-005-190

BRUCE A. BROWN LICENSED # 18099 8/19/24 KANSAS PROFESSIONAL ENGINEER
License -Kansas - 18099

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
626 WASHINGTON STREET
GREAT BEND, KANSAS 67530

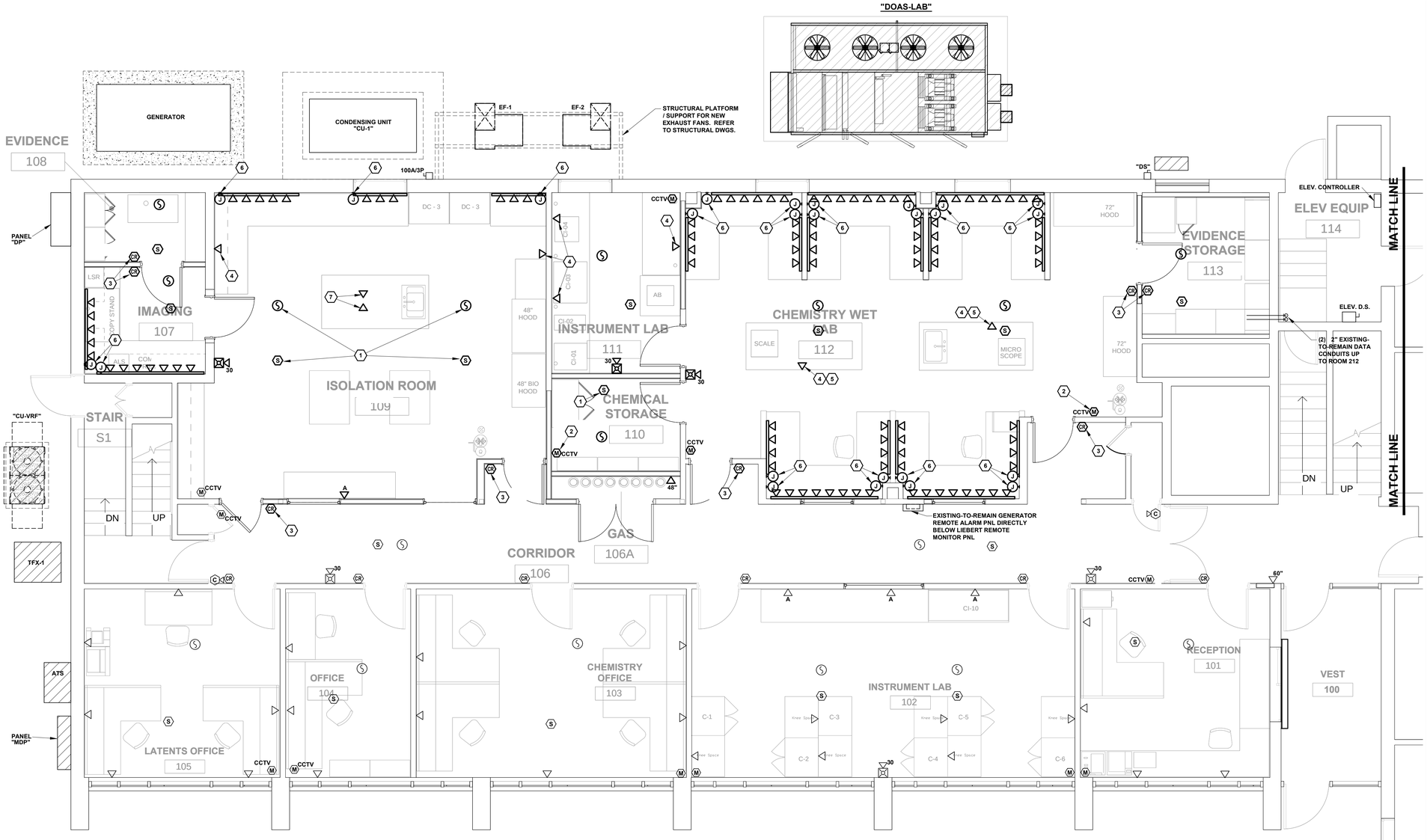
ISSUE DATE: 08/19/24 | DRAWN BY: BAB | CHECKED BY: JLB | REV:

FIRST FLOOR POWER IMPROVEMENT PLAN - PHASE 2

A-014835Rev

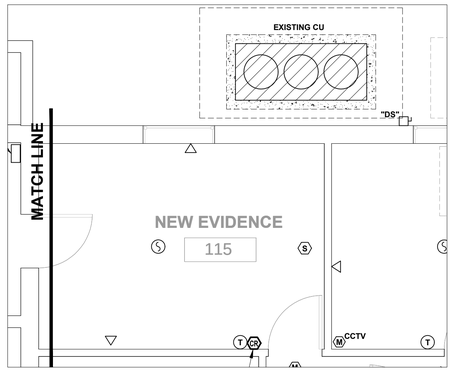
E201-2

ORIGINAL CONTRACT DOCUMENTS



FIRST FLOOR SPECIAL SYSTEMS IMPROVEMENT PLAN - PHASE 2

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



FIRST FLOOR SPECIAL SYSTEMS IMPROVEMENT PLAN - PHASE 2

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

FIRST FLOOR SPECIAL SYSTEMS IMPROVEMENT PLAN - PHASE 2

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

ALL NEW AND/OR EXISTING SECURITY / ACCESS CONTROL DEVICES AND WIRING SHALL BE PROVIDED BY EXISTING BUILDING ACCESS CONTROL VENDOR.

P1 GROUP, INC.
MARK RAU
MARK.RAU@P1GROUP.COM
(913) 529-5000 (OFFICE)
(785) 925-0282 (CELL)

ALL NEW AND/OR EXISTING FIRE ALARM DEVICES AND WIRING SHALL BE PROVIDED BY EXISTING BUILDING FIRE ALARM VENDOR DAYTON (800) 707-9369.

NOTES:

1. INSTALL RELOCATED CEILING DEVICE AND BRANCH CIRCUITRY. EXTEND EXISTING BRANCH CIRCUITRY AS REQUIRED AND PROVIDE ALL FINAL CONNECTIONS/TERMINATIONS.
2. INSTALL RELOCATED MOTION DETECTOR AND BRANCH CIRCUITRY. EXTEND EXISTING BRANCH CIRCUITRY AS REQUIRED AND PROVIDE ALL FINAL CONNECTIONS/ TERMINATIONS.
3. PROVIDE 4X4 J-BOX (48" A.F.F.) WITH SINGLE GANG MUD RING, FULL LENGTH PULL STRING AND PLASTIC BUSHING (AT EACH END OF CONDUIT). ROUTE ONE (1) 1.0" CONDUIT FROM WALL MOUNTED J-BOX UP TO ABOVE CEILING FOR FUTURE CARD READER ACCESS CABLING. CARD READER DEVICE AND/OR CARD READER DEVICE WITH PIN READER, CABLING AND FINAL TERMINATIONS/CONNECTIONS PROVIDED BY OWNER'S ACCESS CONTROL VENDOR. COORDINATE EXACT LOCATION, MOUNTING HEIGHT AND REQUIREMENTS WITH OWNER'S VENDOR/CONTRACTOR AND ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION.
4. MOUNT BACKBOX UNDER WORKING SURFACE AND WITHIN CABINET DIRECTLY ADJACENT TO GROMMET LOCATION(S). COORDINATE EXACT LOCATION AND MOUNTING REQUIREMENTS WITH ARCHITECTURAL DRAWINGS.
5. CONTRACTOR SHALL CORE HOLE THROUGH EXISTING CONCRETE SLAB TO ALLOW FOR INSTALLATION OF RACEWAY(S) (ROUTE CONDUIT(S) UP FROM BELOW). CONTRACTOR SHALL MINIMIZE CORE HOLE OPENING(S) BY COMBINING BRANCH CIRCUIT CONDUIT(S) AND DATA/TELECOM CONDUIT(S) AS MUCH AS POSSIBLE AND ROUTING UP WITHIN OPENING(S). PROVIDE FIRE STOP/SEALANT AROUND OPENING AND WITHIN OPENING AFTER DATA/TELECOM CABLING HAS BEEN INSTALLED. REFER TO FIRST FLOOR POWER IMPROVEMENT PLAN FOR ADDITIONAL INFORMATION AND COORDINATION. COORDINATE WITH STRUCTURAL ENGINEER PRIOR TO CORE DRILLING SLAB TO AVOID STRUCTURAL DAMAGE TO EXISTING SLAB. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS.
6. PROVIDE 4X4 J-BOX AT COUNTER HEIGHT WITH SINGLE GANG MUD RING, FULL LENGTH PULL STRING AND PLASTIC BUSHING (AT EACH END OF CONDUIT). ROUTE ONE (1) 1" CONDUIT FROM WALL MOUNTED J-BOX UP TO ABOVE CEILING FOR FUTURE DATA / TELECOM CABLING ACCESS. FUTURE CABLING AND DEVICE(S) SHALL BE INSTALLED WITHIN SURFACE MOUNTED 2-CHANNEL / COMPARTMENT RACEWAY (REFER TO FIRST FLOOR POWER IMPROVEMENT PLANS FOR ADDITIONAL INFORMATION). DATA DEVICE(S), CABLING AND FINAL TERMINATIONS/CONNECTIONS PROVIDED BY OWNER'S VENDOR. COORDINATE EXACT LOCATION, MOUNTING HEIGHT AND REQUIREMENTS WITH OWNER'S VENDOR/CONTRACTOR AND ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION.
7. PROVIDE CONDUIT UP TO ABOVE WORKING SURFACE AND CONNECT TO "TOMBSTONE" DEVICE (REFER TO FIRST FLOOR POWER IMPROVEMENT PLAN FOR ADDITIONAL INFORMATION AND COORDINATION). COORDINATE EXACT LOCATION AND MOUNTING REQUIREMENTS WITH ARCHITECTURAL DRAWINGS.
8. NEW ACCESS CONTROL DEVICE SHALL BE PROVIDED WITH CONTACTS FOR CONNECTION TO FIRE ALARM SYSTEM. UPON ACTIVATION / INITIATION OF FIRE ALARM, FIRE ALARM SYSTEM SHALL OVERRIDE THE ACCESS CONTROL AND ALLOW DOOR TO BE OPENED AND/OR CLOSED FREELY WITHOUT THE NEED OF AN ACCESS BADGE. ACCESS CONTRACTOR SHALL COORDINATE EXACT REQUIREMENTS WITH FIRE ALARM CONTRACTOR AND PROVIDE ALL LABOR AND MATERIAL FOR INTERCONNECTION WITH FIRE ALARM SYSTEM.

GENERAL NOTES:

1. EXISTING CONDITIONS SHOWN ON THE DRAWINGS WERE TAKEN FROM ORIGINAL DOCUMENTS AND FIELD OBSERVATIONS. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY FOR RESOLUTION.
2. DO NOT REMOVE OR DISCONNECT ANY MAJOR MECHANICAL OR ELECTRICAL ITEMS (PIPES, DUCTS, CONDUITS, DEVICES, EQUIPMENT, ETC.) INDICATED FOR SUCH BEFORE VERIFYING THAT SERVICES TO OTHER AREAS OF THE BUILDING WILL NOT BE AFFECTED. CONSULT BUILDING MAINTENANCE PERSONNEL AS NEEDED TO ASSIST IN THE DETERMINATION OF UNANTICIPATED ITEMS LOCATED DURING THE DEMOLITION PROCESS. OTHER AREAS OF THE BUILDING MUST REMAIN 100% OPERATIONAL DURING THE DEMOLITION WORK.
3. DEMOLITION DRAWINGS, DEVICES, CONDUIT, CIRCUITS, EQUIPMENT AND ACCESSORIES SHOWN SOLID ARE INTENDED TO REMAIN. DEVICES, CONDUIT AND CIRCUITS SHOWN BOLD AND DASHED ARE TO BE REMOVED. ALL EXISTING LIGHT FIXTURES, DEVICES, EQUIPMENT, CONDUIT AND CIRCUITS INTENDED TO REMAIN SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION SEQUENCE.
4. THE OWNER MAINTAINS FIRST RIGHT OF REFUSAL OF ALL ITEMS. IF ITEMS ARE NOT RETAINED BY THE OWNER THEY SHALL BE LEGALLY REMOVED FROM THE SITE AND DISPOSED OF BY THIS CONTRACTOR.
5. CONTRACTOR SHALL REPAIR ALL WALL, FLOOR AND CEILING PENETRATIONS WHERE NECESSARY DUE TO NEW CONSTRUCTION. REPAIRS SHALL MATCH EXISTING SURFACES AND MAINTAIN PROPER FIRE/SMOKE RATING.
6. COORDINATE INSTALLATION OF EQUIPMENT AND SYSTEMS WITH ALL OTHER TRADES AND UTILITIES. ANY VARIANCE IN LAYOUT SHOULD BE COORDINATED WITH OWNER/ENGINEER.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING LABELS ON ALL NEW EQUIPMENT. LABELS SHALL BE AS OUTLINED IN THE SPECIFICATIONS.
8. PROVIDE AN UPDATED, TYPED PANEL DIRECTORY FOR ALL PANELBOARDS WITHIN THE SCOPE OF THIS PROJECT. THE DIRECTORY SHALL BE IN MICROSOFT EXCEL FORMAT. SUBMIT ELECTRONIC DIRECTORY TO THE OWNER AND ENGINEER.
9. ALL CONDUIT, HANGERS, SUPPORTS, AND ETC. SHALL BE INSTALLED AS HIGH AS POSSIBLE TO MAINTAIN MAXIMUM CLEARANCE. WITH MINIMUM 12" ABOVE ACCESSIBLE CEILINGS.
10. COORDINATE INSTALLATION WITH ALL REQUIRED CLEARANCES SHOWN. ANY VARIANCE IN LAYOUT SHOULD BE COORDINATED WITH OWNER/ENGINEER.
11. ALL CONDUITS AND FEEDERS TO BE REMOVED THAT ARE LOCATED BEHIND INACCESSIBLE WALLS AND CEILINGS SHALL BE ABANDONED IN PLACE. CONDUIT OR CABLE SHALL BE CUT FLUSH WITH WALL/CEILING/FLOOR, WIRE REMOVED FROM CONDUITS AND SURFACE PATCHED BACK FLUSH AND FINISHED TO MATCH EXISTING.
12. ALL NEW BRANCH CIRCUITRY SHALL MAINTAIN A DEDICATED NEUTRAL CONDUCTOR AND A DEDICATED GROUNDED CONDUCTOR THROUGH THE ENTIRE LENGTH OF THE NEW BRANCH CIRCUIT.

B&A Project No. G32-005-190

Project No: 16004R22004

GLMV Architecture
1525 E. Douglas, Wichita, KS 67211
Tel: (316) 265-9301
www.glmv.com

BRACK ASSOCIATES CONSULTING ENGINEERS
P. (785) 271-0844
Topeka, KS 66606
BSA Firm# 0122-000-249

BRUCE A. BROWN LICENSED # 18099 8/19/24 KANSAS PROFESSIONAL ENGINEER

License -Kansas - 18099

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

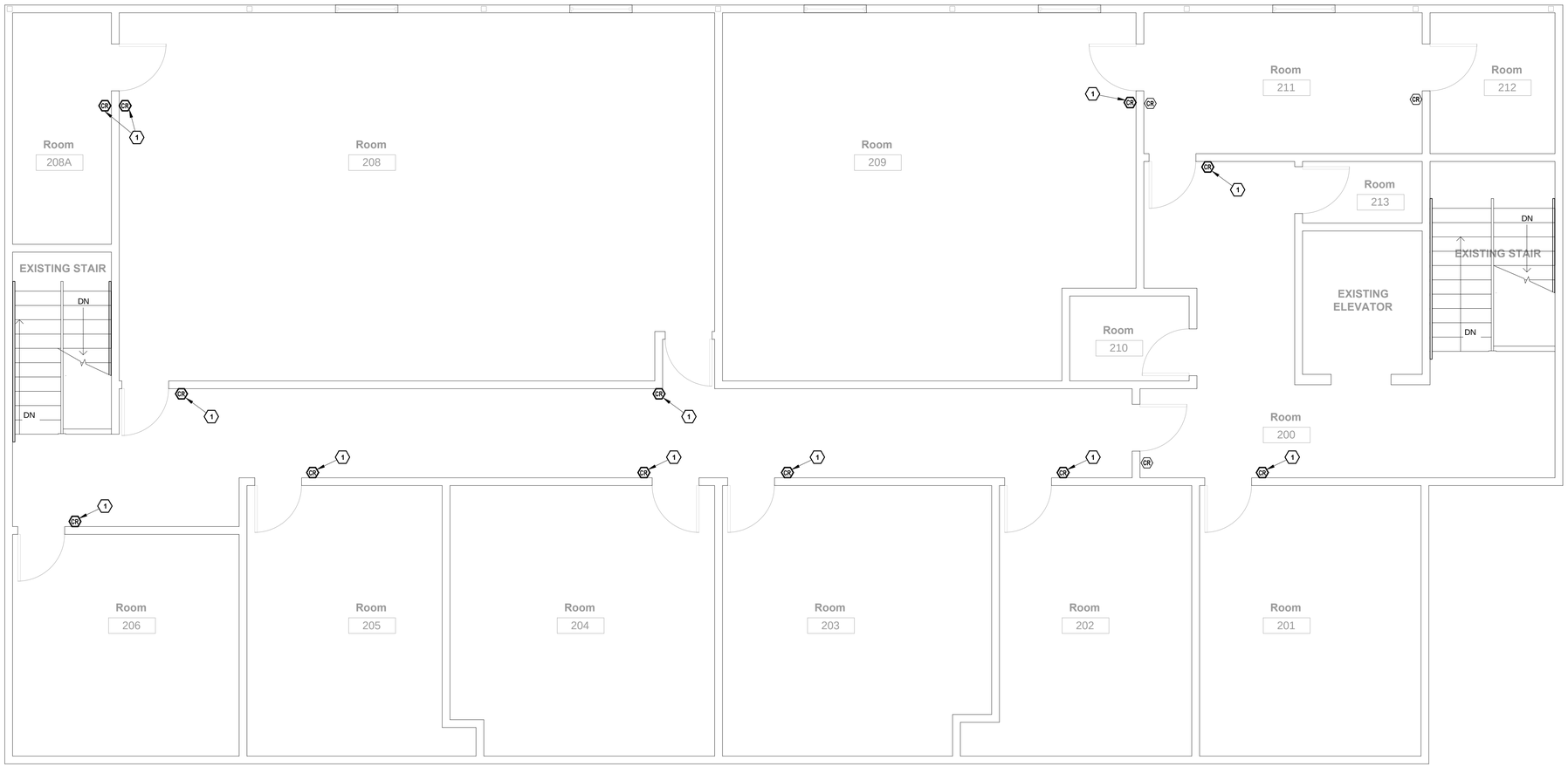
ISSUE DATE: 08/19/24 DRAWN BY: BAB CHECKED BY: JLB REV:

FIRST FLOOR SPECIAL SYSTEMS IMPROV. PLAN - PHASE 2

A-014835Rev

E301-2

ORIGINAL CONTRACT DOCUMENTS



NORTH

SECOND FLOOR SPECIAL SYSTEMS IMPROVEMENT PLAN - PHASE 2

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

NOTES:

1. PROVIDE 4X4 J-BOX (48" A.F.F.) WITH SINGLE GANG MUD RING, FULL LENGTH PULL STRING AND PLASTIC BUSHING (AT EACH END OF CONDUIT). ROUTE ONE (1) 1.0" CONDUIT FROM WALL MOUNTED J-BOX UP TO ABOVE CEILING FOR FUTURE CARD READER ACCESS CABLING. CARD READER DEVICE AND/OR CARD READER DEVICE WITH PIN READER, CABLING AND FINAL TERMINATIONS/CONNECTIONS PROVIDED BY OWNER'S ACCESS CONTROL VENDOR. COORDINATE EXACT LOCATION, MOUNTING HEIGHT AND REQUIREMENTS WITH OWNER'S VENDOR/CONTRACTOR AND ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION.

ALL NEW AND/OR EXISTING SECURITY / ACCESS CONTROL DEVICES AND WIRING SHALL BE PROVIDED BY EXISTING BUILDING ACCESS CONTROL VENDOR.

P1 GROUP, INC.
MARK RAU
MARK.RAU@P1GROUP.COM
(913) 529-5000 (OFFICE)
(785) 925-0282 (CELL)

ALL NEW AND/OR EXISTING FIRE ALARM DEVICES AND WIRING SHALL BE PROVIDED BY EXISTING BUILDING FIRE ALARM VENDOR DAYTON
(800) 707-9369.

GENERAL NOTES:

1. EXISTING CONDITIONS SHOWN ON THE DRAWINGS WERE TAKEN FROM ORIGINAL DOCUMENTS AND FIELD OBSERVATIONS. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY FOR RESOLUTION.
2. DO NOT REMOVE OR DISCONNECT ANY MAJOR MECHANICAL OR ELECTRICAL ITEMS (PIPES, DUCTS, CONDUITS, DEVICES, EQUIPMENT, ETC.) INDICATED FOR SUCH BEFORE VERIFYING THAT SERVICES TO OTHER AREAS OF THE BUILDING WILL NOT BE AFFECTED. CONSULT BUILDING MAINTENANCE PERSONNEL AS NEEDED TO ASSIST IN THE DETERMINATION OF UNANTICIPATED ITEMS LOCATED DURING THE DEMOLITION PROCESS. OTHER AREAS OF THE BUILDING MUST REMAIN 100% OPERATIONAL DURING THE DEMOLITION WORK.
3. DEMOLITION DRAWINGS, DEVICES, CONDUIT, CIRCUITS, EQUIPMENT AND ACCESSORIES SHOWN SOLID ARE INTENDED TO REMAIN. DEVICES, CONDUIT AND CIRCUITS SHOWN BOLD AND DASHED ARE TO BE REMOVED. ALL EXISTING LIGHT FIXTURES, DEVICES, EQUIPMENT, CONDUIT AND CIRCUITS INTENDED TO REMAIN SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION SEQUENCE.
4. THE OWNER MAINTAINS FIRST RIGHT OF REFUSAL OF ALL ITEMS. IF ITEMS ARE NOT RETAINED BY THE OWNER THEY SHALL BE LEGALLY REMOVED FROM THE SITE AND DISPOSED OF BY THIS CONTRACTOR.
5. CONTRACTOR SHALL REPAIR ALL WALL, FLOOR AND CEILING PENETRATIONS WHERE NECESSARY DUE TO NEW CONSTRUCTION. REPAIRS SHALL MATCH EXISTING SURFACES AND MAINTAIN PROPER FIRE/SMOKE RATING.
6. COORDINATE INSTALLATION OF EQUIPMENT AND SYSTEMS WITH ALL OTHER TRADES AND UTILITIES. ANY VARIANCE IN LAYOUT SHOULD BE COORDINATED WITH OWNER/ENGINEER.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING LABELS ON ALL NEW EQUIPMENT. LABELS SHALL BE AS OUTLINED IN THE SPECIFICATIONS.
8. PROVIDE AN UPDATED, TYPED PANEL DIRECTORY FOR ALL PANELBOARDS WITHIN THE SCOPE OF THIS PROJECT. THE DIRECTORY SHALL BE IN MICROSOFT EXCEL FORMAT. SUBMIT ELECTRONIC DIRECTORY TO THE OWNER AND ENGINEER.
9. ALL CONDUIT, HANGERS, SUPPORTS, AND ETC. SHALL BE INSTALLED AS HIGH AS POSSIBLE TO MAINTAIN MAXIMUM CLEARANCE. WITH MINIMUM 12" ABOVE ACCESSIBLE CEILINGS.
10. COORDINATE INSTALLATION WITH ALL REQUIRED CLEARANCES SHOWN. ANY VARIANCE IN LAYOUT SHOULD BE COORDINATED WITH OWNER/ENGINEER.
11. ALL CONDUITS AND FEEDERS TO BE REMOVED THAT ARE LOCATED BEHIND INACCESSIBLE WALLS AND CEILINGS SHALL BE ABANDONED IN PLACE. CONDUIT OR CABLE SHALL BE CUT FLUSH WITH WALL/CEILING/FLOOR, WIRE REMOVED FROM CONDUITS AND SURFACE PATCHED BACK FLUSH AND FINISHED TO MATCH EXISTING.
12. ALL NEW BRANCH CIRCUITRY SHALL MAINTAIN A DEDICATED NEUTRAL CONDUCTOR AND A DEDICATED GROUNDED CONDUCTOR THROUGH THE ENTIRE LENGTH OF THE NEW BRANCH CIRCUIT.

B&A Project No. G32-005-190

Project No:
16004R22004

GLMV Architecture
1535 E. Douglas, Wichita, KS 67211
P: (316) 265-9344
www.glmv.com

BRACK ASSOCIATES CONSULTING ENGINEERS
Lic. #E-2007
Topeka, KS 66614
P: (785) 272-5666
Mail: Project # 2021-005-14-06

BRUCE A. BROWN
LICENSED
18099
8/19/24
KANSAS
PROFESSIONAL ENGINEER
License -Kansas - 18099

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

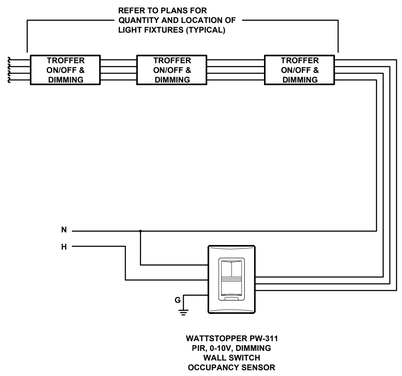
ISSUE DATE: 08/19/24 DRAWN BY: BAB CHECKED BY: JLB REV:

SECOND FLOOR SPECIAL SYSTEMS IMPROV. PLAN - PH 2

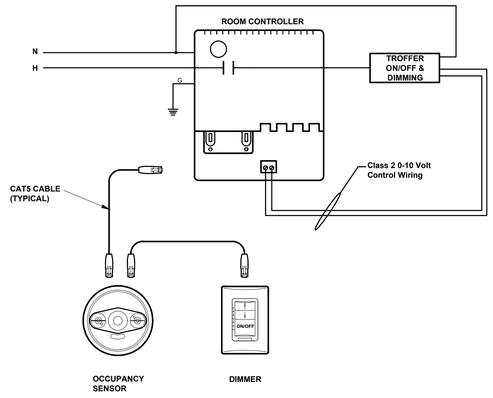
A-014835Rev

E302-2

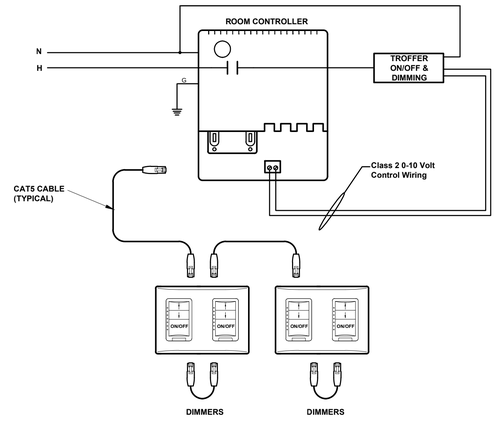
ORIGINAL CONTRACT DOCUMENTS



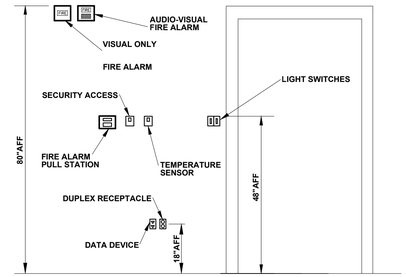
1 E400 **ROOM LIGHTING CONTROL DIAGRAM**
No Scale



2 E400 **ROOM LIGHTING CONTROL DIAGRAM**
No Scale



3 E400 **ROOM LIGHTING CONTROL DIAGRAM**
No Scale



4 E400 **WIRING DEVICE INSTALLATION ELEVATIONS**
No Scale

5 E400 **NOT USED**
No Scale

6 E400 **NOT USED**
No Scale

7 E400 **NOT USED**
No Scale

8 E400 **NOT USED**
No Scale

9 E400 **NOT USED**
No Scale

10 E400 **NOT USED**
No Scale

11 E400 **NOT USED**
No Scale

12 E400 **NOT USED**
No Scale

B&A Project No. G32-005-190

Project No:
16004R22004

GLMV Architecture
1523 E. Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

BRACK ASSOCIATES CONSULTING ENGINEERS
P. (785) 271-3444
Topeka, KS 66606
BEA Project # 112-030-280

BRUCE A. BROWN
LICENSED
18099
6/19/24
KANSAS
PROFESSIONAL ENGINEER

License -Kansas - 18099

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

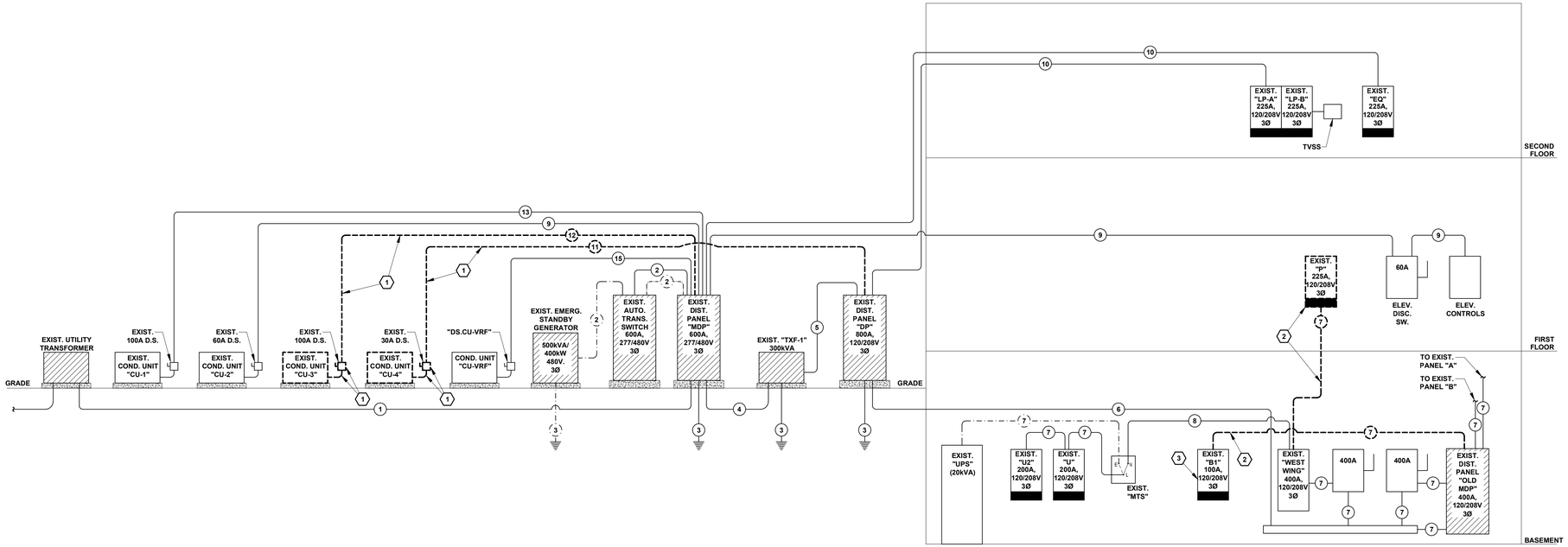
ISSUE DATE: 08/19/24 DRAWN BY: BAB CHECKED BY: JLB REV:

ELECTRICAL DETAILS

A-014835Rev

E400

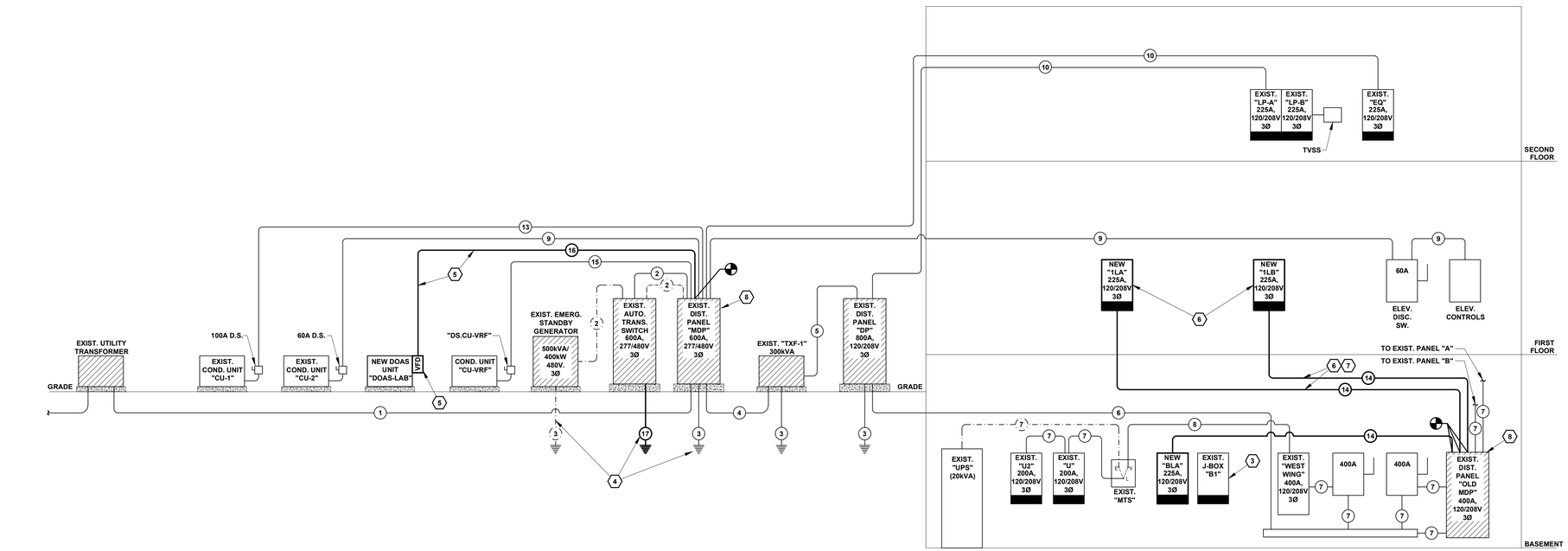
ORIGINAL CONTRACT DOCUMENTS



1 E401

PARTIAL ELECTRICAL RISER DIAGRAM - DEMOLITION

No Scale



2 E401

PARTIAL ELECTRICAL RISER DIAGRAM - IMPROVEMENT

No Scale

NOTES:

1. REMOVE EXISTING FEEDER AND DISCONNECT SWITCH AS INDICATED. REMOVE EXISTING FEEDER AS INDICATED BACK TO EXISTING DISTRIBUTION PANEL.
2. REMOVE EXISTING FEEDER AND PANEL AS INDICATED AFTER ALL EXISTING BRANCH CIRCUITS HAVE BEEN RELOCATED. REMOVE EXISTING FEEDER AS INDICATED BACK TO EXISTING DISTRIBUTION PANEL.
3. CONTRACTOR SHALL VERIFY THAT EXISTING PANEL CABINET/ ENCLOSURE IS IN COMPLIANCE WITH ARTICLES 314.16 AND 314.28 OF THE NEC AND CAN BE UTILIZED AS A JUNCTION BOX PRIOR TO REMOVING INTERIOR COMPONENTS. DISCONNECT EXISTING BRANCH CIRCUITS FROM CIRCUIT BREAKERS AND REMOVE INTERIOR COVERPLATE, CIRCUIT BREAKERS, BUS BARS, GROUND BARS AND NEUTRAL BARS TO UTILIZE PANEL CABINET/ENCLOSURE AS JUNCTION BOX. PROVIDE TERMINAL STRIP CONNECTION(S) FOR EACH BRANCH CONDUCTOR AND SECURE TO BACK OF PANEL CABINET/ENCLOSURE. PROVIDE CLEAR, PROTECTIVE GUARD AT EACH CONDUCTOR SPLICE AND CLEARLY LABEL. EXTEND EXISTING BRANCH CIRCUITS TO NEW PANEL "BLA". REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
4. CONTRACTOR SHALL INVESTIGATE EXISTING G.E.C. FOR EXISTING ELECTRICAL SERVICE AND VERIFY COMPLIANCE WITH 2020 NEC. IF NEW G.E.C. IS REQUIRED, PROVIDE CONNECTION TO THREE (3) 0.75" X 10'-0" DRIVEN GROUND RODS (AT SERVICE ENTRANCE POINT), SPACED 6'-0" O.C. (MINIMUM). INSTALLATION AND CONNECTION SHALL COMPLY WITH ARTICLES 250.30, 250.52, AND 250.53 OF THE 2020 NEC.
5. PROVIDE NEW FEEDER AS INDICATED. PROVIDE ALL FINAL CONNECTION(S) / TERMINATION(S) TO NEW DOAS UNIT, NEW VFD(S) (PROVIDED BY MECH. CONTRACTOR) AND EXISTING DISTRIBUTION PANEL.
6. PROVIDE NEW FEEDER AND PANEL AS INDICATED. PROVIDE ALL FINAL CONNECTION(S) / TERMINATION(S) TO NEW PANEL AND EXISTING DISTRIBUTION PANEL.
7. CONTRACTOR SHALL ROUTE NEW FEEDERS UP WITHIN EXISTING MECHANICAL CHASE ADJACENT TO EVIDENCE STORAGE, ROOM 113. CONTRACTOR SHALL PATCH NEW WALL PENETRATION AND MATCH EXISTING WALL CONSTRUCTION/FINISH AFTER CONDUITS/ FEEDERS HAVE BEEN INSTALLED.
8. CONTRACTOR SHALL RE-LABEL EXISTING CIRCUIT BREAKER(S) AND PROVIDE FINAL TERMINATION(S)/ CONNECTION(S) TO NEW FEEDER. REFER TO ELECTRICAL PANEL SCHEDULES FOR ADDITIONAL INFORMATION.

FEEDER SCHEDULE:

1. EXISTING 4-500 IN EACH OF 2-4" C.
2. EXISTING 4-350 IN EACH OF 2-3" C.
3. EXISTING GRD. & GROUND ROD.
4. EXISTING 3-350 IN 3" C.
5. EXISTING 4-600 IN EACH OF 2-4" C.
6. EXISTING 4-350 & 1-3 IN EACH OF 2-4" C.
7. EXISTING FEEDER TO REMAIN.
8. EXISTING 4-2 & 1-6 IN 1.25" C.
9. EXISTING 3-6 & 1-8 IN 0.75" C.
10. EXISTING 4-250 & 1-4 IN 3" C.
11. EXISTING 4-10 IN 0.75" C.
12. EXISTING 3-3 & 1-8 IN 1.25" C.
13. EXISTING 3-4 & 1-8 IN 1.25" C.
14. NEW 4-3/0 & 1-6 IN 2" C.
15. EXISTING 3-4 & 1-10 IN 1" C.
16. NEW 3-1 & 1-8 IN 1.5" C.
17. NEW 1-3/0 G.E.C.

B&A Project No. G32-005-190

Project No: 16004R22004

GLMV Architecture
1023 E. Douglas, Wichita, KS 67211
Tel: (316) 265-9307
www.glmv.com

BRACK ASSOCIATES CONSULTING ENGINEERS
P: (785) 271-3444
Topeka, KS 66606
BSA Project # 1122-000-280

BRUCE A. BROWN LICENSED # 18099 8/19/24 KANSAS PROFESSIONAL ENGINEER

License -Kansas - 18099

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

ISSUE DATE: 08/19/24 DRAWN BY: BAB CHECKED BY: JLB REV:

ELECTRICAL RISER DIAGRAM

A-014835Rev

E401

ORIGINAL CONTRACT DOCUMENTS

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL NUMBER	MOUNTING				FINISH	LAMPS				EQUIV. MFGR.	NOTES:
			REC	SURF	WALL	PENDANT		FLUOR	LED	CODE	QTY		
A	HE WILLIAMS	LP-14-L40/835-DIM-UNV	X				WHITE		X	W/ FIXTURE	-	A, C, L, R	
A1	HE WILLIAMS	LPT-24-L43/835-SAF12125-DIM-UNV (PROVIDE W/ "DFK-1248W")	X				WHITE		X	W/ FIXTURE	-	A, C, L, R	2
B	HE WILLIAMS	LPT-24-L43/835-SAF12125-DIM-UNV	X				WHITE		X	W/ FIXTURE	-	A, C, L, R	
X	HE WILLIAMS	EXIT-R-EM-WHT-D				X	WHITE		X	W/ FIXTURE	-	A, C, L, R	1

NOTES:
1 PROVIDE WITH 90 MINUTE NI-CAD BATTERY.
2 PROVIDE WITH DRYWALL KIT "DFK-1248W" FOR FLANGE INSTALLATION.

ABBREVIATIONS
BLK-BLACK
BA- BRUSHED ALUMINUM
T.B.D. - TO BE DETERMINED

MANUFACTURERS
A - APPROVED EQUALS (MUST BE APPROVED IN WRITING (7) DAYS PRIOR TO BID)
C- COOPER
L - LITHONIA
R - RAB LIGHTING

ROOM LIGHTING CONTROLLER SCHEDULE

ROOM NUMBER	ROOM NAME	ROOM CTLR	DIMMER	RELAY	SWITCH	OCCUANCY SENSOR	DAYLIGHT SENSOR	DETAIL	OCCUPANCY SENSOR SEQUENCE OF OPERATION	NOTES
101	RECEPTION	BZ-50	(1) LMDM101	-	-	(1) DT300	-	2 / E400	OCCUPANCY SENSOR ON/OFF, 5 MINUTE DELAY, DIMMING TROFFER LIGHTS	(1), (2), (3), (4), (5)
102	EQUIPMENT LAB	BZ-50	(4) LMSM103	-	-	-	-	3 / E400	OCCUPANCY SENSOR ON/OFF, 30 MINUTE DELAY, DIMMING TROFFER LIGHTS	(1), (2), (3), (4), (5)
103	CHEMISTRY OFFICE	BZ-50	(1) LMDM101	-	-	(1) DT300	-	2 / E400	OCCUPANCY SENSOR ON/OFF, 5 MINUTE DELAY, DIMMING TROFFER LIGHTS	(1), (2), (3), (4), (5)
104	OFFICE	-	-	-	-	PW-311	-	1 / E400	OCCUPANCY SENSOR ON/OFF, 5 MINUTE DELAY	(1), (2), (3), (4), (5)
105	LATENTS OFFICE	BZ-50	(1) LMDM101	-	-	(1) DT300	-	2 / E400	OCCUPANCY SENSOR ON/OFF, 5 MINUTE DELAY, DIMMING TROFFER LIGHTS	(1), (2), (3), (4), (5)
106	CORRIDOR	NO DIMMING REQUIRED								
106A	GAS	NO DIMMING REQUIRED								
107	IMAGING	-	-	-	-	PW-311	-	1 / E400	OCCUPANCY SENSOR ON/OFF, 5 MINUTE DELAY	(1), (2), (3), (4), (6)
108	EVIDENCE	-	-	-	-	PW-311	-	1 / E400	OCCUPANCY SENSOR ON/OFF, 5 MINUTE DELAY	(1), (2), (3), (4), (6)
109	LATENTS LAB	BZ-50	(4) LMSM103	-	-	-	-	3 / E400	OCCUPANCY SENSOR ON/OFF, 30 MINUTE DELAY, DIMMING TROFFER LIGHTS	(1), (2), (3), (4), (6)
110	CHEMICAL STORAGE	-	-	-	-	PW-311	-	1 / E400	OCCUPANCY SENSOR ON/OFF, 5 MINUTE DELAY	(1), (2), (3), (4), (6)
111	INSTRUMENT LAB	-	-	-	-	PW-311	-	1 / E400	OCCUPANCY SENSOR ON/OFF, 5 MINUTE DELAY	(1), (2), (3), (4), (6)
112	CHEMISTRY WET LAB	BZ-50	(4) LMSM103	-	-	-	-	3 / E400	OCCUPANCY SENSOR ON/OFF, 30 MINUTE DELAY, DIMMING TROFFER LIGHTS	(1), (2), (3), (4), (6)
113	EVIDENCE STORAGE	-	-	-	-	PW-311	-	1 / E400	OCCUPANCY SENSOR ON/OFF, 5 MINUTE DELAY	(1), (2), (3), (4), (6)

NOTES:
1. REFER TO PLANS FOR CEILING AND WALL SENSOR ROOM CONTROL DEVICE LOCATIONS.
2. MODEL NUMBERS BASED ON WATTSTOPPER. EQUIVALENT SYSTEMS BY INLIGHT, CRESTON AND EATON
3. ALL DEVICES COLOR SELECTED BY ARCHITECT
4. PROVIDE (1) LMCT-100 WIRELESS CONFIGURATION TOOL AND COMPUTER INTERFACE TOOL WITHIN PHASE-1 SCOPE OF WORK.
5. PROVIDE WITHIN PHASE-1 SCOPE OF WORK.
6. PROVIDE WITHIN PHASE-2 SCOPE OF WORK.

EXISTING "MDP" — CIRCUIT BREAKER - QED SCHEDULE

NORMAL BRANCH DISTRIBUTION - NORMAL POWER

TYPE: QED, Square D | MOUNTING: FLOOR | LOCATION: EXTERIOR (West Side of Bldg.)
MAIN SIZE: 600 | MAIN BREAKER: 600A | SERVED BY: UTILITY TRANSFORMER
VOLTAGE: 277/480 | POLES: 3
PHASE: 3 | AIC:
WIRE: 4

CIRCUIT NO.	LOAD DESCRIPTION (EQUIPMENT)	BREAKER AMPS/POLE	TRIP (AMPS)	TRIP TYPE	QUANTITY
1	EXIST. TRANSFORMER "TFX-1"	300/3	300	-	1
2	EXIST. COND. UNIT #3 ("CU-3")	100/3	100	-	1
3	EXIST. COND. UNIT #1 ("CU-1")	100/3	80	-	1
4	EXIST. COND. UNIT #2 ("CU-2")	100/3	60	-	1
5	EXIST. PANEL "EQ"	200/3	200	-	1
6	EXIST. COND. UNIT "CU-VRF"	50/3	50	-	1
7	EXIST. SPACE	-	-	-	

NOTES

EXISTING DISTRIBUTION BOARD

EXISTING "DP" — CIRCUIT BREAKER I-LINE SCHEDULE

NORMAL BRANCH DISTRIBUTION - NORMAL POWER

TYPE: SQUARE D I-LINE | MOUNTING: WALL | LOCATION: EXTERIOR (West Side of Bldg.)
MAIN SIZE: 800 | MAIN BREAKER: 800A | SERVED BY: Transformer "TXF-1" / Board "MDP"
VOLTAGE: 120/208 | POLES: 3 | NOTES: NEMA 3R, Locking Cover
PHASE: 3 | AIC:
WIRE: 4

CIRCUIT NO.	LOAD DESCRIPTION (EQUIPMENT)	BREAKER AMPS/POLE	TRIP (AMPS)	C/B TYPE	QUANTITY
1	EXIST. PANEL "LP"	200/3	200	-	1
2	EXIST. BSMT SERVICE / WIREWAY	600/3	600	-	1
3	EXIST. COND. UNIT #4 ("CU-4")	30/3	25	-	1
4	EXIST. SPARE (OFF)	100/3	100	-	1
5	SPACE	-	-	-	-
6	SPACE	-	-	-	-

NOTES

EXISTING DISTRIBUTION PANEL

"OLD MDP" — FUSED SWITCH SCHEDULE

NORMAL BRANCH DISTRIBUTION - NORMAL POWER

TYPE: MP, Cutler-Hammer | MOUNTING: SURFACE / WALL | LOCATION: BASEMENT
MAIN SIZE: 400 | MAIN BREAKER: M.L.O. | SERVED BY: EXISTING "DP"
VOLTAGE: 120/208 | POLES: 3
PHASE: 3 | AIC:
WIRE: 4

CIRCUIT NO.	LOAD DESCRIPTION (EQUIPMENT)	FRAME AMPS/POLE	FUSE (AMPS)	FUSE TYPE	QUANTITY
1	EXIST.PANEL "A"	100/3	100	-	1
2	EXIST. PANEL "B"	100/3	100	-	1
3	EXIST. SPARE (OFF)	200/3	-	-	1
4	EXIST. SPARE (OFF)	200/3	-	-	1
5	EXIST. SPARE (OFF)	100/3	-	-	1
6	EXIST. BASEMENT PANEL "B1"	100/3	100	-	1
7	SPACE	-	-	-	
8	SPACE	-	-	-	

NOTES

EXISTING DISTRIBUTION PANEL

REVISED "MDP" — CIRCUIT BREAKER - QED SCHEDULE

NORMAL BRANCH DISTRIBUTION - NORMAL POWER

TYPE: QED, Square D | MOUNTING: FLOOR | LOCATION: EXTERIOR (West Side of Bldg.)
MAIN SIZE: 600 | MAIN BREAKER: 600A | SERVED BY: UTILITY TRANSFORMER
VOLTAGE: 277/480 | POLES: 3
PHASE: 3 | AIC:
WIRE: 4

CIRCUIT NO.	LOAD DESCRIPTION (EQUIPMENT)	BREAKER AMPS/POLE	TRIP (AMPS)	TRIP TYPE	QUANTITY
1	EXIST. TRANSFORMER "TFX-1"	300/3	300	-	1
2	**NEW DOAS UNIT ("DOAS-LAB")**	**100/3 (1) (2)**	**80**	-	1
3	EXIST. COND. UNIT #1 ("CU-1")	100/3	80	-	1
4	EXIST. COND. UNIT #2 ("CU-2")	100/3	60	-	1
5	EXIST. PANEL "EQ"	200/3	200	-	1
6	EXIST. COND. UNIT "CU-VRF"	50/3	50	-	1
7	EXIST. SPACE	-	-	-	

NOTES
1. **CONTRACTOR SHALL PROVIDE NEW C.B. AS INDICATED WITHIN PHASE-2 SCOPE OF WORK.**
1. **CONTRACTOR SHALL RELABEL EXISTING CIRCUIT BREAKER AS INDICATED WITHIN PHASE-2 SCOPE OF WORK.**

REVISED DISTRIBUTION BOARD

REVISED "DP" — CIRCUIT BREAKER I-LINE SCHEDULE

NORMAL BRANCH DISTRIBUTION - NORMAL POWER

TYPE: SQUARE D I-LINE | MOUNTING: WALL | LOCATION: EXTERIOR (West Side of Bldg.)
MAIN SIZE: 800 | MAIN BREAKER: 800A | SERVED BY: Transformer "TXF-1" / Board "MDP"
VOLTAGE: 120/208 | POLES: 3 | NOTES: NEMA 3R, Locking Cover
PHASE: 3 | AIC:
WIRE: 4

CIRCUIT NO.	LOAD DESCRIPTION (EQUIPMENT)	BREAKER AMPS/POLE	TRIP (AMPS)	C/B TYPE	QUANTITY
1	EXIST. PANEL "LP"	200/3	200	-	1
2	EXIST. BSMT SERVICE / WIREWAY	600/3	600	-	1
3	**SPARE**	**30/3 (1)**	**25**	-	1
4	EXIST. SPARE (OFF)	100/3	100	-	1
5	SPACE	-	-	-	-
6	SPACE	-	-	-	-

NOTES
1. **PROVIDE SHALL RE-LABEL EXISTING CIRCUIT BREAKER WITHIN PHASE-1 SCOPE OF WORK.**

REVISED DISTRIBUTION PANEL

"OLD MDP" — FUSED SWITCH SCHEDULE

NORMAL BRANCH DISTRIBUTION - NORMAL POWER

TYPE: MP, Cutler-Hammer | MOUNTING: SURFACE / WALL | LOCATION: BASEMENT
MAIN SIZE: 400 | MAIN BREAKER: M.L.O. | SERVED BY: EXISTING "DP"
VOLTAGE: 120/208 | POLES: 3
PHASE: 3 | AIC:
WIRE: 4

CIRCUIT NO.	LOAD DESCRIPTION (EQUIPMENT)	FRAME AMPS/POLE	FUSE (AMPS)	FUSE TYPE	QUANTITY
1	EXIST.PANEL "A"	100/3	100	-	1
2	EXIST. PANEL "B"	100/3	100	-	1
3	**NEW PANEL "1LA"**	**200/3**	**200 (1) (2)**	-	1
4	**NEW PANEL "1LB"**	**200/3**	**200 (1) (2)**	-	1
5	**STEAM HUMIDIFER (GTU-1)**	**100/3**	**45 (1) (2)**	-	1
6	EXIST. BASEMENT PANEL "B1"	100/3	100	-	1
7	SPACE	-	-	-	
8	SPACE	-	-	-	

NOTES
1. **PROVIDE NEW FUSE AS INDICATED. CONTRACTOR SHALL RELABEL ALL EXISTING DISCONNECT SWITCH AS REQUIRED.**
2. **PROVIDE NEW FUSE AS INDICATED WITHIN PHASE-2 SCOPE OF WORK.**

REVISED DISTRIBUTION PANEL

1 / E500 **ELECTRICAL SCHEDULES**
No Scale

B&A Project No. G32-005-190

G:\GLMV - (Now Tessere)\KBI - Great Bend\dwgs\elec\Phase II -Re-Bid\KBI - elec schedules-Phase II.dwg, 8/19/2024 2:33:24 PM, bbrown

Project No: 16004R22004

GLMV Architecture
1023 E. Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

BRACK ASSOCIATES CONSULTING ENGINEERS
P: (785) 271-0844
Topeka, KS 66604
BA # Project # 112-030-190

BRUCE A. BROWN LICENSED # 19099 8/19/24 KANSAS PROFESSIONAL ENGINEER

License -Kansas - 18099

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

ISSUE DATE: 08/19/24 | DRAWN BY: BAB | CHECKED BY: JLB | REV:

ELECTRICAL SCHEDULES

A-014835Rev

E500

ORIGINAL CONTRACT DOCUMENTS

NEW - "1LA"

CIRCUIT BREAKER PANELBOARD SCHEDULE

TYPE: NQ, SQUARE D | MAIN BREAKER: MLO | MOUNTING: RECESSED
MAIN SIZE: 225 | POLES: 42 | LOCATION: CORRIDOR 106
VOLTAGE: 120/208 | KAIC: | SERVED BY: "OLD MDP" (Basement)
PHASE: 3 | WIRE: 4

CIRCUIT NO.	LOAD DESCRIPTION (EQUIPMENT)	CIRCUIT BREAKER	LOAD (VA)	PHASE LOAD (VA) A	B	C	LOAD (VA)	CIRCUIT BREAKER	LOAD DESCRIPTION (EQUIPMENT)	CIRCUIT NO.
1	LTGS - RM 106A, 107-113	ms	1,084	1834			750	20/1	PLUGMOLD / WIREMOLD - RM 107	2
3	PLUGMOLD / WIREMOLD - RM 107	20/1	750		1500		750	20/1	PLUGMOLD / WIREMOLD - RM 107	4
5	PLUGMOLD / WIREMOLD - RM 107	20/1	750			1110	360	20/1	RECPT. - RM 107	6
7	RECPT. - RM 109	20/1	720	1260			540	20/1	RECPT. - RM 108 & 109	8
9	CLG. RETRACT. REEL / RECPT. - RM 109	20/1	1,200		2280		1,080	20/1	PLUGMOLD / WIREMOLD - RM 109	10
11	EXHAUST HOOD LTGS - RM 109	20/1	500			1220	720	20/1	PLUGMOLD / WIREMOLD - RM 109	12
13	EXHAUST HOOD RECPT. - RM 109	20/1	1,200	1920			720	20/1	PLUGMOLD / WIREMOLD - RM 109	14
15	RECPT. - RM 109	20/1	900		1260		360	20/1	DRYING CABINET - RM 109	16
17	RECPT. & GAS MANIFOLD - RM 106A	20/1	500			860	360	20/1	DRYING CABINET - RM 109	18
19	PRINTER RECEPT. - RM 105	20/1	1,400	2300			900	20/1	RECPT. - RM 104, 105 & 106	20
21	MODULAR FURNITURE - RM 105	20/1	1,200		2400		1,200	20/1	MODULAR FURNITURE - RM 104	22
23	EXHAUST HOOD LTGS - RM 109	20/1	500			1700	1,200	20/1	MODULAR FURNITURE - RM 103	24
25	EXHAUST HOOD RECPT. - RM 109	20/1	500	500				20/1	SPARE	26
27	SPARE	20/1			0			20/1	SPARE	28
29	SPARE	20/1				0		20/1	SPARE	30
31	SPARE	20/1		0				20/1	SPARE	32
33	MCU-3	20/2	500		500			20/1	SPARE	34
35			500			500		20/1	SPARE	36
37	EXHAUST FAN - "EF-1"	20/3	1,319	1319				20/1	SPARE	38
39			1,319		1819		500	20/2	"MCU-1" & "MCU-2" CONTROLLERS	40
41			1,319			1819	500			42
TOTALS				9,133	9,759	7,209				

NOTES

NEW PANELBOARD

EXISTING - "U2"

CIRCUIT BREAKER PANELBOARD SCHEDULE

TYPE: NQ, Square D | MAIN BREAKER: MLO | MOUNTING: SURFACE
MAIN SIZE: 200 | POLES: 42 | LOCATION: ELEC 276
VOLTAGE: 120/208 | KAIC: | SERVED BY: DP1-480
PHASE: 3 | WIRE: 4

CIRCUIT NO.	LOAD DESCRIPTION (EQUIPMENT)	CIRCUIT BREAKER	LOAD (VA)	PHASE LOAD (VA) A	B	C	LOAD (VA)	CIRCUIT BREAKER	LOAD DESCRIPTION (EQUIPMENT)	CIRCUIT NO.
1	EXIST. REMOTE ANNUN. - CORR.-106	20/1	500	500				20/1	EXIST. LAB RECPT. - NORTH WALL	2
3	EXIST. GC / MS #6 RECPT. (OFF)	20/1			0			20/1	EXIST. LAB RECPT. - N .& E WALL	4
5	EXIST. GC / MS #6 RECPT. (OFF)	20/1				360	360	20/1	EXIST. I.P. CLOSET (QUAD)	6
7	EXIST. 2nd DATA RACK	20/1	1440	1800			360	20/1	EXIST. I.P. CLOSET (QUAD)	8
9	EXIST. 2nd DATA RACK	20/1	1440		1800		360	20/1	EXIST. I.P. CLOSET (SINGLE)	10
11	EXIST. 2nd DATA RACK	20/1	1440			1940	500	20/1	EXIST. UNKNOWN LOAD	12
13	EXIST. DR RACK - FIRST FLOOR	20/3	1681	1681				20/1	EXIST. UNKNOWN LOAD (OFF)	14
15			1681		3601		1920	20/1	EXIST. GC / MS RECPT. - RM 102	16
17			1681			3601	1920	20/1	EXIST. GC / MS RECPT. - RM 102	18
19	EXIST. GC / MS RECPT. - RM 102	20/1	1920	3840			1920	20/1	EXIST. GAS CHROM RECPT. - RM 102	20
21	EXIST. GC / MS RECPT. - RM 102	20/1	1920		3840		1920	20/1	EXIST. GAS CHROM RECPT. - RM 102	22
23	EXIST. GAS CHROM RECPT. - RM 102	20/1	1920			3840	1920	20/1	EXIST. GC / MS RECPT. - RM 102	24
25	EXIST. GAS CHROM RECPT. - RM 102	20/1	1920	3840			1920	20/1	EXIST. GC / MS RECPT. - RM 102	26
27	EXIST. GC / MS RECPT. - RM 102	20/1	1920		2640		720	20/1	EXIST. RECPT. (N. COUNTER) - RM 102	28
29	EXIST. GC / MS RECPT. - RM 102	20/1	1920			3840	1920	20/1	EXIST. GC / MS RECPT. - RM 102	30
31	PREPARED SPACE			1681			1681			32
33	PREPARED SPACE				1681		1681	20/3	EXIST. DATA RACK - FIRST FLOOR	34
35	PREPARED SPACE					1681	1681			36
37	PREPARED SPACE			0					PREPARED SPACE	38
39	PREPARED SPACE				0				PREPARED SPACE	40
41	PREPARED SPACE					0			PREPARED SPACE	42
TOTALS				13,342	13,562	15,262				

NOTES

EXISTING PANELBOARD

NEW - "1LB"

CIRCUIT BREAKER PANELBOARD SCHEDULE

TYPE: NQ, SQUARE D | MAIN BREAKER: MLO | MOUNTING: RECESSED
MAIN SIZE: 225 | POLES: 42 | LOCATION: CORRIDOR 106
VOLTAGE: 120/208 | KAIC: | SERVED BY: "OLD MDP" (Basement)
PHASE: 3 | WIRE: 4

CIRCUIT NO.	LOAD DESCRIPTION (EQUIPMENT)	CIRCUIT BREAKER	LOAD (VA)	PHASE LOAD (VA) A	B	C	LOAD (VA)	CIRCUIT BREAKER	LOAD DESCRIPTION (EQUIPMENT)	CIRCUIT NO.
1	REFRIG. RECPT. - RM 113	20/1	500	1000			500	20/1	EXHAUST HOOD LTGS - RM 112	2
3	RECPT. - RM 112, 113	20/1	900		2100		1,200	20/1	EXHAUST HOOD RECPT. - RM 112	4
5	LAB ISLAND RECPT. - RM 112	20/1	500			1000	500	20/1	EXHAUST HOOD LTGS - RM 112	6
7	LAB ISLAND RECPT. - RM 112	20/1	500	1700			1,200	20/1	EXHAUST HOOD RECPT. - RM 112	8
9	PLUGMOLD / WIREMOLD - RM 112	20/1	720		1440		720	20/1	PLUGMOLD / WIREMOLD - RM 112	10
11	PLUGMOLD / WIREMOLD - RM 112	20/1	1,440			2160	720	20/1	PLUGMOLD / WIREMOLD - RM 112	12
13	PLUGMOLD / WIREMOLD - RM 112	20/1	720	2160			1,440	20/1	PLUGMOLD / WIREMOLD - RM 112	14
15	PLUGMOLD / WIREMOLD - RM 112	20/1	720		1440		720	20/1	PLUGMOLD / WIREMOLD - RM 112	16
17	PLUGMOLD / WIREMOLD - RM 112	20/1	1,440			2520	1,080	20/1	PLUGMOLD / WIREMOLD - RM 112	18
19	PLUGMOLD / WIREMOLD - RM 112	20/1	720	1440			720	20/1	PLUGMOLD / WIREMOLD - RM 112	20
21	RECPT. - RM 110 & 111	20/1	720		1440		720	20/1	RECPT. - RM 103 & 104	22
23	PRINTER RECEPT. - RM 105	20/1	1,200			1700	500	20/1	ROOM CONTROLLERS - RM 109 & 112	24
25	RECPT. - RM 100	20/1	900	2300			1,400	20/1	PRINTER RECEPT. - RM 103	26
27	"IN / OUT" BOARD	20/1	500		1400		900	20/1	RECPT. - RM 100 & 102	28
29	LTGS - RM 100, 102-105	20/1	759			759		20/1	SPARE	30
31	PLUGMOLD / WIREMOLD - RM 112	20/1	720	720				20/1	SPARE	32
33	PLUGMOLD / WIREMOLD - RM 112	20/1	720		720			20/1	SPARE	34
35	PLUGMOLD / WIREMOLD - RM 112	20/1	1,440			1440		20/1	SPARE	36
37	EXHAUST FAN - "EF-2"	20/3	1,319	1319				20/1	SPARE	38
39			1,319		1319			20/1	SPARE	40
41			1,319			1319		20/1	SPARE	42
TOTALS				10,639	9,859	10,898				

NOTES

NEW PANELBOARD

REVISED - "U2"

CIRCUIT BREAKER PANELBOARD SCHEDULE

TYPE: NQ, Square D | MAIN BREAKER: MLO | MOUNTING: SURFACE
MAIN SIZE: 200 | POLES: 42 | LOCATION: ELEC 276
VOLTAGE: 120/208 | KAIC: | SERVED BY: DP1-480
PHASE: 3 | WIRE: 4

CIRCUIT NO.	LOAD DESCRIPTION (EQUIPMENT)	CIRCUIT BREAKER	LOAD (VA)	PHASE LOAD (VA) A	B	C	LOAD (VA)	CIRCUIT BREAKER	LOAD DESCRIPTION (EQUIPMENT)	CIRCUIT NO.
1	EXIST. REMOTE ANNUN. - CORR.-106	20/1	500	1,000			**500**	**20/1 (1)**	**SPECTROPHOTOMETER - RM 111**	2
3	**FTIR SPECTROMETER - RM 111**	**20/1 (1)**	**500**		1,000		**500**	**20/1 (1)**	**SPECTROPHOTOMETER - RM 111**	4
5	**FTIR SPECTROMETER - RM 111**	**20/1 (1)**	**500**			860	360	20/1	EXIST. I.P. CLOSET (QUAD)	6
7	EXIST. 2nd DATA RACK	20/1	1440	1,800			360	20/1	EXIST. I.P. CLOSET (QUAD)	8
9	EXIST. 2nd DATA RACK	20/1	1440		1,800		360	20/1	EXIST. I.P. CLOSET (SINGLE)	10
11	EXIST. 2nd DATA RACK	20/1	1440			1,940	500	20/1	EXIST. UNKNOWN LOAD	12
13	EXIST. DR RACK - FIRST FLOOR	20/3	1681	1,681				20/1	EXIST. UNKNOWN LOAD (OFF)	14
15			1681		3,601		1920	20/1	EXIST. GC / MS RECPT. - RM 102	16
17			1681			3,601	1920	20/1	EXIST. GC / MS RECPT. - RM 102	18
19	EXIST. GC / MS RECPT. - RM 102	20/1	1920	3,840			1920	20/1	EXIST. GAS CHROM RECPT. - RM 102	20
21	EXIST. GC / MS RECPT. - RM 102	20/1	1920		3,840		1920	20/1	EXIST. GAS CHROM RECPT. - RM 102	22
23	EXIST. GAS CHROM RECPT. - RM 102	20/1	1920			3,840	1920	20/1	EXIST. GC / MS RECPT. - RM 102	24
25	EXIST. GAS CHROM RECPT. - RM 102	20/1	1920	3,840			1920	20/1	EXIST. GC / MS RECPT. - RM 102	26
27	EXIST. GC / MS RECPT. - RM 102	20/1	1920		2,640		720	20/1	EXIST. RECPT. (N. COUNTER) - RM 102	28
29	EXIST. GC / MS RECPT. - RM 102	20/1	1920			3,840	1920	20/1	EXIST. GC / MS RECPT. - RM 102	30
31	**FINGERPRINT DEVELOPMENT CHAMBER - RM 109**	**20/2 (2)**	**1560**	3,241			1681			32
33			**1560**		3,241		1681	20/3	EXIST. DATA RACK - FIRST FLOOR	34
35	**DUSTING STATION - RM 109**	**20/1 (2)**	**1920**			3,601	1681			36
37	**FUMING CHAMBER - RM 109**	**20/1 (2)**	**1920**	1,920					PREPARED SPACE	38
39	**FLAME PHOTOMETER - RM 111**	**20/1 (2)**	**1920**		1,920				PREPARED SPACE	40
41	**FLAME PHOTOMETER - RM 111**	**20/1 (2)**	**1920**			1,920			PREPARED SPACE	42
TOTALS				17,322	18,042	19,602				

NOTES

1. **RE-USE EXISTING C.B. AS INDICATED.**
2. **PROVIDE NEW C.B. AS INDICATED WITHIN SCOPE OF WORK.**

REVISED PANELBOARD

1 / E501 **ELECTRICAL SCHEDULES**
No Scale

B&A Project No. G32-005-190

G:\GLMV - (Now Tessere)\KBI - Great Bend\dwgs\elec\Phase II -Re-Bid\KBI - elec schedules-Phase II.dwg, 8/19/2024 2:33:52 PM, bbrown

Project No: 16004R22004

GLMV Architecture
1523 E. Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

BRACK ASSOCIATES CONSULTING ENGINEERS
P: (785) 271-0844
Topeka, KS 66614
B&A Project # G32-005-190

BRUCE A. BROWN LICENSED # 18099 8/19/24 KANSAS PROFESSIONAL ENGINEER
License -Kansas - 18099

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

ISSUE DATE: 08/19/24 | DRAWN BY: BAB | CHECKED BY: JLB | REV:

ELECTRICAL SCHEDULES

A-014835Rev

E501

ORIGINAL CONTRACT DOCUMENTS

"WEST WING" — CIRCUIT BREAKER SCHEDULE

NORMAL BRANCH DISTRIBUTION - NORMAL POWER

TYPE: MP, Cutler-Hammer | MOUNTING: SURFACE / WALL | LOCATION: BASEMENT
MAIN SIZE: 400 | MAIN BREAKER: M.L.O. | SERVED BY: EXISTING "DP"
VOLTAGE: 120/208 | POLES: 3
PHASE: 3 | AIC:
WIRE: 4

CIRCUIT NO.	LOAD DESCRIPTION (EQUIPMENT)	BREAKER AMPS/POLE	TRIP (AMPS)	C/B TYPE	QUANTITY
1	EXIST. AIR HANDLER - BSMT	30/3	30	EC	1
2	EXIST. HUMIDIFIER	30/3	30	EC	1
3	EXIST. UPS / TRANS. SW. "MTS"	150/3	150	ED	1
4	EXIST. EXTERIOR AIR COND.	125/3	125	CC	1
5	UNKNOWN LOAD	175/2	175	CC	1
6	EXIST. FIRST FLR PANEL "P"	175/2	175	CC	1

NOTES

EXISTING DISTRIBUTION PANEL

"WEST WING" — CIRCUIT BREAKER SCHEDULE

NORMAL BRANCH DISTRIBUTION - NORMAL POWER

TYPE: MP, Cutler-Hammer | MOUNTING: SURFACE / WALL | LOCATION: BASEMENT
MAIN SIZE: 400 | MAIN BREAKER: M.L.O. | SERVED BY: EXISTING "DP"
VOLTAGE: 120/208 | POLES: 3
PHASE: 3 | AIC:
WIRE: 4

CIRCUIT NO.	LOAD DESCRIPTION (EQUIPMENT)	BREAKER AMPS/POLE	TRIP (AMPS)	C/B TYPE	QUANTITY
1	**SPARE**	**30/3 (2)**	**30**	**EC**	1
2	**NEW HUMIDIFIER ("EH-1")**	**125/3 (1) (2)**	**125**	**ED**	1
3	EXIST. UPS / TRANS. SW. "MTS"	150/3	150	ED	1
4	EXIST. EXTERIOR AIR COND.	125/3	125	CC	1
5	UNKNOWN LOAD	175/2	175	CC	1
6	**SPARE**	**175/2**	**175**	**CC**	1

NOTES
1. **CONTRACTOR SHALL PROVIDE NEW C.B. AS INDICATED WITHIN PHASE-2 SCOPE OF WORK.**
2. **CONTRACTOR SHALL RE-LABEL NEW / EXISTING CIRCUIT BREAKER WITHIN PHASE-2 SCOPE OF WORK.**

REVISED DISTRIBUTION PANEL

EXISTING - "P" — CIRCUIT BREAKER PANELBOARD SCHEDULE

TYPE: PB, Cutler-Hammer | MAIN BREAKER: MLO | MOUNTING: RECESSED
MAIN SIZE: 225 | POLES: 42 | LOCATION: Imaging Rm X111
VOLTAGE: 120/208 | KAIC: | SERVED BY: "WEST WING DIST. PNL"
PHASE: 3 | WIRE: 4

CIRCUIT NO.	LOAD DESCRIPTION (EQUIPMENT)	CIRCUIT BREAKER	LOAD (VA)	PHASE LOAD (VA) A	PHASE LOAD (VA) B	PHASE LOAD (VA) C	LOAD (VA)	CIRCUIT BREAKER	LOAD DESCRIPTION (EQUIPMENT)	CIRCUIT NO.
1	EXIST. UNKNOWN LOAD(S)	20/1 - 20/1		0				20/1 - 20/1	EXIST. UNKNOWN LOAD(S)	2
3	EXIST. UNKNOWN LOAD(S)	20/1 - 20/1			0			20/2	Exist. AC / AIR COMPRESSOR	4
5	MCU-1 & MCU-2	20/2 (1)	500			500				6
7			500	500				20/1 - 20/1	EXIST. UNKNOWN LOAD(S)	8
9	EXIST. UNKNOWN LOAD(S)	20/1 - 20/1			0			20/1 - 20/1	EXIST. UNKNOWN LOAD(S)	10
11	EXIST. UNKNOWN LOAD	20/1				0		20/1	EXIST. UNKNOWN LOAD	12
13	EXIST. UNKNOWN LOAD	20/1		0				20/1	EXIST. UNKNOWN LOAD	14
15	EXIST. UNKNOWN LOAD	20/1			0			20/1	EXIST. UNKNOWN LOAD	16
17	EXIST. UNKNOWN LOAD	20/1				0		20/1	EXIST. UNKNOWN LOAD	18
19	EXIST. UNKNOWN LOAD	20/1		0				20/1	EXIST. UNKNOWN LOAD	20
21	Plugmold - Rm W120	20/1			0			20/1	EXIST. UNKNOWN LOAD	22
23	EXIST. UNKNOWN LOAD	20/1				0		20/1	Plugmold - Finger Print Office	24
25	EXIST. UNKNOWN LOAD	20/1		0				20/1	EXIST. UNKNOWN LOAD	26
27	EXIST. UNKNOWN LOAD	20/1			0			20/1	Plugmold - Instrument Room	28
29	EXIST. UNKNOWN LOAD	20/1				0		20/1	EXIST. UNKNOWN LOAD	30
31	EXIST. UNKNOWN LOAD	20/1		0				20/1	EXIST. UNKNOWN LOAD	32
33	EXIST. UNKNOWN LOAD	20/1			0			20/1	EXIST. UNKNOWN LOAD	34
35	EXIST. UNKNOWN LOAD	20/1				0		20/1	EXIST. UNKNOWN LOAD	36
37	EXIST. UNKNOWN LOAD	20/1		0				20/1	EXIST. UNKNOWN LOAD	38
39	EXIST. UNKNOWN LOAD	20/1			0			20/1	EXIST. UNKNOWN LOAD	40
41	EXIST. UNKNOWN LOAD	20/1				0		20/1	EXIST. UNKNOWN LOAD	42
TOTALS				500	0	500				

NOTES

EXISTING PANELBOARD (REFERENCE ONLY)

NEW - "BLA" — CIRCUIT BREAKER PANELBOARD SCHEDULE

TYPE: NQ, SQUARE D | MAIN BREAKER: MLO | MOUNTING: SURFACE
MAIN SIZE: 225 | POLES: 42 | LOCATION: BASEMENT MECH. RM.
VOLTAGE: 120/208 | KAIC: | SERVED BY: "OLD MDP" (Basement)
PHASE: 3 | WIRE: 4

CIRCUIT NO.	LOAD DESCRIPTION (EQUIPMENT)	CIRCUIT BREAKER	LOAD (VA)	PHASE LOAD (VA) A	PHASE LOAD (VA) B	PHASE LOAD (VA) C	LOAD (VA)	CIRCUIT BREAKER	LOAD DESCRIPTION (EQUIPMENT)	CIRCUIT NO.
1	EXIST. RECPT - PORTABLE WALLS	20/1 (1)		0				20/1 (1)	EXIST. UNKNOWN LOAD	2
3	EXIST. RECPT - PORTABLE WALLS	20/1 (1)			500		500	20/1	NEW GLYCOL PUMP SYSTEM	4
5	EXIST. RECPT - PORTABLE WALLS	20/1 (1)				0		20/1 (1)	EXIST. UNKNOWN LOAD	6
7	EXIST. LIGHTS - BSMT CRAWL SPACE	20/1 (1)		270			270	20/1	NEW BOILER "BLR3"	8
9	EXIST. IRRIGATION PUMP	20/2 (1)			500		500	20/1	NEW TEMP. CONTROLLER CABINET	10
11						0		20/1 (1)	EXIST. ELEVATOR PIT	12
13	EXIST. UNKNOWN LOAD	20/1 (1)		0				20/1 (1)	EXIST. UNKNOWN LOAD	14
15	EXIST. PANEL ON ROOF FOR A/C	50/2 (1)			0			20/1 (1)	EXIST. UNKNOWN LOAD	16
17						0		20/2 (1)	EXIST. UNKNOWN LOAD	18
19	EXIST. UNKNOWN LOAD	20/2 (1)		0						20
21					0			20/1 (1)	EXIST. RECPT - RM 101 (Flr & Desk)	22
23	MECH. RM. RECEPT.	20/1	500			500		20/1 (1)	EXIST. RECPT - RM 101 (Flr & Desk)	24
25	SPARE	20/1		0				20/1 (1)	EXIST. RECPT - RM 101 (Under Desk)	26
27	SPARE	20/1			0			20/1 (1)	EXIST. RECPT - RM 101 (Under Desk)	28
29	SPARE	20/1				0		20/1	SPARE	30
31	SPARE	20/1		0				20/1	SPARE	32
33	SPARE	20/1			0			20/1	SPARE	34
35	SPARE	20/1				0		20/1	SPARE	36
37	PUMP "SHWP-1"	20/3	1,319	2639			1,319	20/3	PUMP "SHWP-2"	38
39			1,319		2639		1,319			40
41			1,319			2639	1,319			42
TOTALS				2,909	3,639	3,139				

NOTES
1. **EXISTING BRANCH CIRCUIT TO BE RELOCATED AS INDICATED. CONTRACTOR SHALL RELABEL ALL EXISTING RACEWAY, J-BOX(S), DEVICE(S), ETC. TO REFLECT THE REVISED PANELBOARD SCHEDULE.**

NEW PANELBOARD

1 / E502 **ELECTRICAL SCHEDULES**
No Scale

B&A Project No. G32-005-190

G:\GLMV - (Now Tessere)\KBI - Great Bend\dwgs\elec\Phase II -Re-Bid\KBI - elec schedules-Phase II.dwg, 8/19/2024 2:34:10 PM, bbrown

Project No: 16004R22004

GLMV Architecture
1023 E. Douglas, Wichita, KS 67211
Tel: (316) 265-9367
www.glmv.com

BRACK ASSOCIATES CONSULTING ENGINEERS
P. (785) 271-0844
Topeka, KS 66614
BSA Project # 112-030-190

BRUCE A. BROWN LICENSED # 18099 8/19/24 KANSAS PROFESSIONAL ENGINEER

License -Kansas - 18099

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

KANSAS BUREAU OF INVESTIGATION
KBI FORENSIC LABORATORY RENOVATION
625 WASHINGTON STREET
GREAT BEND, KANSAS 67530

ISSUE DATE: 08/19/24 | DRAWN BY: BAB | CHECKED BY: JLB | REV:

ELECTRICAL SCHEDULES

A-014835Rev

E502

ORIGINAL CONTRACT DOCUMENTS