4/8/2025 09:05:13 AM

Saint Luke's East Hospital

Digestive Health Specialists powered by GI Alliance

SAINT LUKE'S HOSPITAL OF LEE'S SUMMIT
SUMMIT GI
100 NE SAINT LUKE'S BLVD.
LEE'S SUMMIT, MO 64086

PROJECT TEAM

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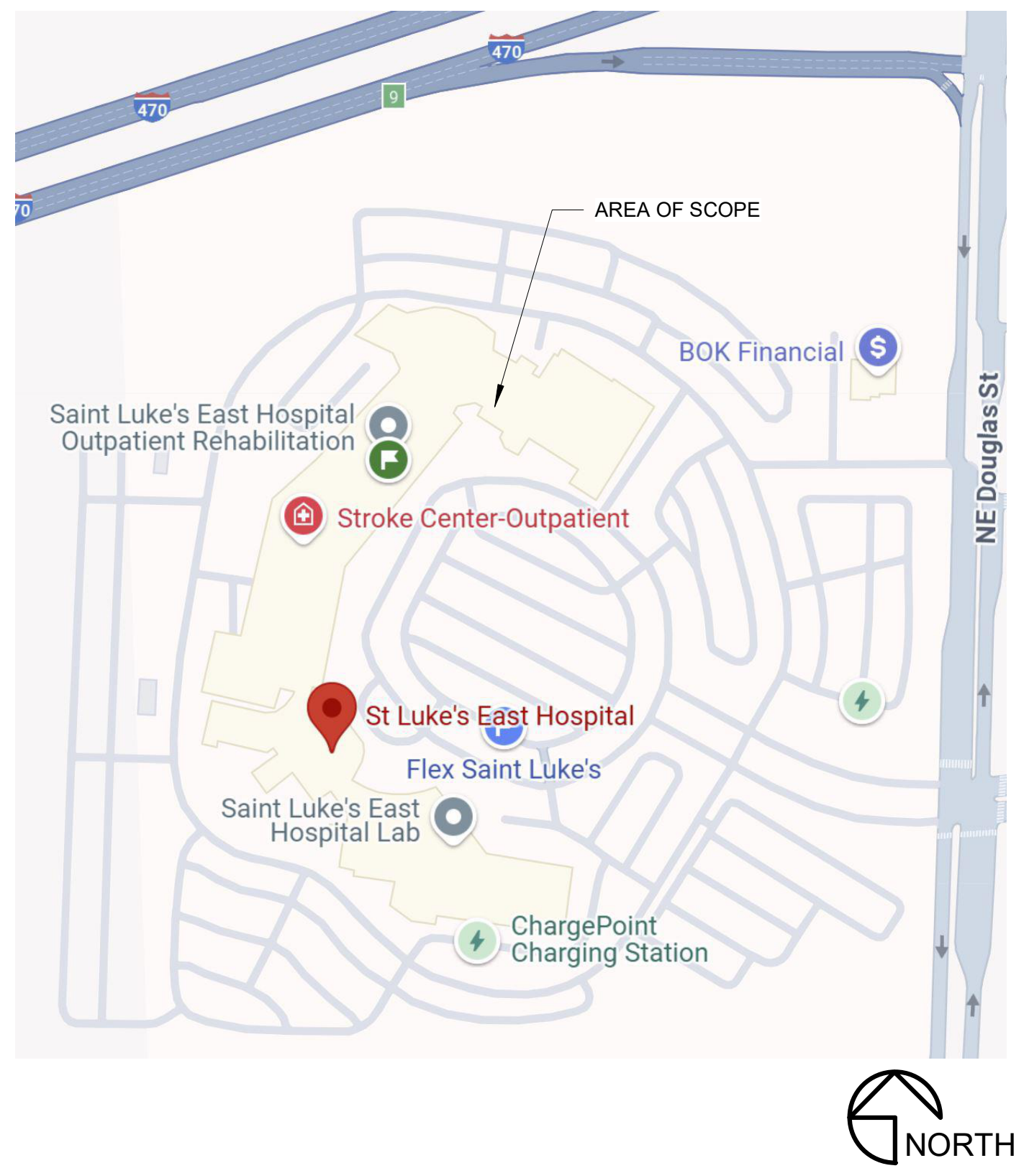
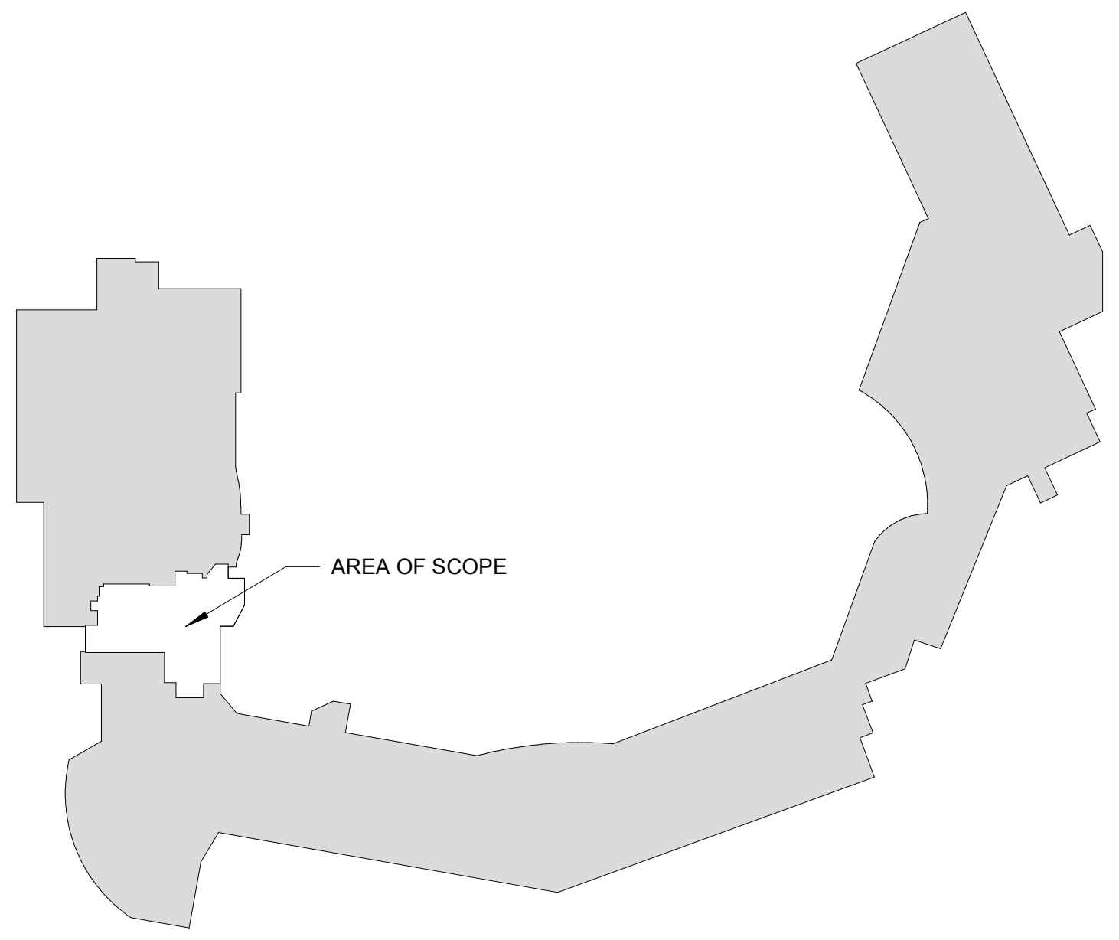
ABBREVIATIONS

ABC	AGGREGATE BASE COURSE
ACT	ACOUSTIC CEILING TILE
A/C	AIR CONDITIONING
ADD	ADDENDUM
AFF	ABOVE FINISH FLOOR
AG	ARCHITECTURAL GLASS
AGG	AGGREGATE
ALT	ALTERNATE
ALUM	ALUMINUM
AP	ACRYLIC PANEL
ARCH	ARCHITECT
ASF	ARCHITECTURAL SURFACE FINISH
ASP	ASPHALT
AWC	ACOUSTIC WALLCOVERING
AWP	ACOUSTIC WALL PANEL
&	AND
@	AT
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BO	BOTTOM OF
BR	BUMPER RAILS
BRC	BRUSHED CONCRETE
BSMT	BASEMENT
CBT	CERAMIC BASE TILE
CC	CUBICLE CURTAIN
CCT	CUBICLE CURTAIN TRACK
CEM	CEMENT/CEMENTITIOUS
CER	CERAMIC
CFT	CERAMIC FLOOR TILE
CG	CORNER GUARD
CHR	CHAIR RAIL
CHAN	CHANNEL
CIP	CAST IN PLACE
CJ	CONTROL JOINT CONSTRUCTION JOINT
CL	CENTER LINE
CLG	CEILING
CLOS	CLOSET
CLP	COMPACT LAMINATE PANEL
CLR	CLEAR
CM	CENTIMETER
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CPT	CARPET
CR	CRASH RAIL
CS	CONCRETE SEALER
CST	CULTURED STONE
CWT	CERAMIC WALL TILE
DB	DECIBEL
DGP	DECORATIVE GLASS PANEL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DN	DOWN
DP	DAMP PROOFING
DPC	DYED AND POLISHED CONCRETE
DR	DRAPERY
DS	DOWNSPOUT
DWG	DRAWING
EA	EACH
ELEC	ELECTRIC
ELEV	ELEVATION
EJ	EXPANSION JOINT
EQ	EQUAL
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPOSED
EXPAN	EXPANSION
EXT	EXTERIOR
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CAB
FIN	FINISH
FIXT	FIXTURE
FL	FLASHING
FLR	FLOOR
FND	FOUNDATION
FR	FRAME
FRP	FIBERGLASS REINFORCED PANELS
FT	FEET / FOOT
FTG	FOOTING
FV	FIELD VERIFY
FWP	FABRIC WALL PANEL
G	GRAM
GA	GAUGE
GALV	GALVANIZED
GD	GRADE
GL	GLASS / GLAZING
GLT	GLASS WALL TILE
GND	GROUND
GRL	GRILLE
GT	GROUT
GWB	GYPSUM BOARD
GYP	GYPSUM
HB	HOSE BIB
HDN	HARDENER
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HANDRAIL
HT	HEIGHT
HTR	HEATER
HW	HOT WATER
IB	INTEGRAL BASE
IN	INCH / INCHES
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
IS	INTEGRAL SINK
JAN	JANITOR
JT	JOINT
JST	JOIST
KP	KICK PLATE
LAM	LAMINATED
LAV	LAVATORY
LB	POUND
LG	LENGTH
LNM	LINOLEUM
LOC	LOCATION
LT	LIGHT
LVR	LOUVER
LVT	LUXURY VINYL TILE
LWC	LIGHT WEIGHT CONCRETE
M	METER
MAT	MATERIAL
MAX	MAXIMUM
MB	MARKER BOARD
MC	METAL CABINETS
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MLDG	MOULDING
MO	MASONRY OPENING
MP	MOVEABLE PARTITION
MT	METAL TRIM
MTB	METAL BASE
MTL	METAL
MTL LATH	METAL LATH
MULL	MULLION
NF	NO FINISH
NG	NATURAL GRADE
NIC	NOT IN CONTRACT
NO / #	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OBS	OBSCURE
OC	ON CENTER
OPN'G	OPENING
OA	OVERALL
OFS	OVERFLOW SCUPPER
OD	OVERFLOW DRAIN
OHD	OVERHEAD DOOR
PBT	PORCELAIN BASE TILE
PC	POLISHED CONCRETE
PD	PAINT DETAIL / PAINT WALL GRAPHIC
PFT	PORCELAIN FLOOR TILE
PG	PAGE
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PR	PAIR
PSF	POUNDS PER SQ FT
PSI	POUNDS PER SQ IN
PSTR	PLASTER
PT-X	PAINT (No acronym after number always stands for eggshell finish)
PT-XA	PAINT ('A' always stands for epoxy finish)
PT-XB	PAINT ('B' always stands for semi-gloss finish)
PT-XC	PAINT ('C' always stands for flat finish)
PT-XD	PAINT ('D' as needed per project if not listed above)
PTN	PARTITION
PWT	PORCELAIN WALL TILE
QBT	QUARRY BASE TILE
QT	QUARRY TILE
QTZ	QUARTZ
R	RISER, RISERS
RAD	RADIUS
RB	RESILIENT BASE
RBF	RUBBER FLOOR
RD	ROOF DRAIN
RE	REFER TO
REG	REGISTER
REQ'D	REQUIRED
RES	RESINOUS FLOOR RESINOUS WALLCOVERING
REV	REVISION
RF'G	ROOFING
RGH	ROUGH
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
RSF	RESILIENT SHEET FLOOR
RST	RUBBER STAIR TREAD
S	STAINLESS STEEL SINK
SC	SHOWER CURTAIN
SCHED	SCHEDULE
SCR	SCREW
SCT	SHOWER CURTAIN TRACK
SDG	SIDING
SECT	SECTION
SEL	SELECT
SHG	SHEATHING
SHT	SHEET
SIM	SIMILAR
SLDG	SLIDING
SM	SMOOTH
SP	SAFETY PADDING
SPC	SPECIALTY CEILING
SPEC	SPECIFICATION
SPF	SPORTS FLOOR
SQ	SQUARE
SSF	SOLID SURFACE
SST	STAINLESS STEEL STAINLESS STEEL CABINET STAINLESS STEEL COUNTERTOP
ST	STAINED
STC	STAINED CONCRETE
STD	STANDARD
STN	STONE
STRUC	STRUCTURE
SUSP	SUSPENDED
SW BD	SWITCHBOARD
SYS	SYSTEM
T	TREAD
TB	TACK BOARD
TC	TOP OF CURB
TCF	TEXTILE COMPOSITE FLOORING
TF	TACK FABRIC
TG	TEMPERED GLASS
TO	TOP OF
TP	TOILET PARTITION
TRS	TRANSITION STRIP
TRZ	TERRAZZO FLOORING
TSD	TOP OF STEEL DECK
TUF	TURF
TW	TEACHERS WARDROBE
TYP	TYPICAL
TZB	TERRAZZO BASE
UNO	UNLESS NOTED OTHERWISE
UP	UPHOLSTERY
V	VENT
VCP	VITREOUS CLAY PIPE
VCT	VINYL COMPOSITION TILE
VG	VERTICAL GRAIN
VERT	VERTICAL
VEST	VESTIBULE
VET	VINYL ENHANCED TILE
VQT	VINYL QUARTZ TILE
VWC	VINYL WALLCOVERING
WC	WALLCOVERING
WCT	WAINSCOT
WD	WOOD
WDB	WOOD BASE
WDC	WOOD CEILING
WDF	WOOD FLOOR
WDP	WOOD PANELS
WDS	WOOD STAIN
WDV	WOOD VENEER
WDW	WINDOW
WF	WINDOW FILM
WH	WATER HEATER
WOC	WALK OFF CARPET
WOM	WALK OFF MAT
WP	WALL PROTECTION
WS	WALLGLASS SYSTEM
WT	WINDOW TREATMENT
WW	WINDOW WALL
WWM	WELDED WIRE MESH
W/	WITH
W/O	WITHOUT

LOCATION PLAN



KEY PLAN



KEY PLAN
1" = 160'-0"

SHEET INDEX

SHEET NUMBER	SHEET NAME
GENERAL	
A000	COVER SHEET
A010	PARTITION TYPES & DETAILS, GENERAL NOTES, & EQUIPMENT SCHEDULE
A021	FIRST FLOOR CODE FOOTPRINT PLAN
A040	UL FIRE RESISTANCE DESIGNS
ARCHITECTURE	
AD201	FIRST FLOOR DEMO FLOOR PLAN
A210	SECOND FLOOR PLAN DIMENSION PLAN
A211	SECOND FLOOR ANNOTATION PLAN
A311	SECOND FLOOR REFLECTED CEILING PLAN
A410	DOOR/FRAME/INTERIOR WINDOW TYPES AND RCP DETAILS
A700	INTERIOR FINISH MATERIAL LEGENDS, SCHEDULES AND PLAN
A730	INTERIOR ELEVATIONS
A740	INTERIOR DETAILS
A741	INTERIOR DETAILS
MECHANICAL	
M000	MECHANICAL GENERAL NOTES AND LEGEND
MD101	HVAC DEMOLITION PLAN
MD201	PIPING DEMOLITION PLAN
M101	HVAC PLAN
M201	PIPING PLAN
M300	MECHANICAL CONTROLS
M600	MECHANICAL DETAILS
M700	MECHANICAL SCHEDULES
PLUMBING	
P000	PLUMBING GENERAL NOTES AND LEGEND
PD100	PLUMBING DEMOLITION PLAN - LEVEL 1
PD101	PLUMBING DEMOLITION PLAN - LEVEL 2
P100	PLUMBING WASTE & VENT PLAN - LEVEL 1
P101	PLUMBING WASTE & VENT PLAN - LEVEL 2
P201	PLUMBING WATER AND GAS PLAN - LEVEL 2
P700	PLUMBING SCHEDULES AND DETAILS
FIRE PROTECTION	
FP000	FIR EPROTECTION GENERAL NOTES AND LEGEND
FPD101	FIRE PROTECTION DEMOLITION RCP
FP101	FIRE PROTECTION RCP
ELECTRICAL	
E000	ELECTRICAL GENERAL NOTES AND LEGEND
ED101	LIGHTING DEMOLITION PLAN
ED201	POWER DEMOLITION PLAN
ED205	SPECIAL SYSTEMS DEMOLITION PLAN
E101	LIGHTING PLAN
E201	POWER PLAN
E205	SPECIAL SYSTEMS PLAN
E301	EQUIPMENT CONNECTION PLAN
E400	ELECTRICAL ONE LINE DIAGRAM
E500	ENERGY CODE COMPLIANCE
E600	ELECTRICAL DETAILS
E700	ELECTRICAL SCHEDULES
E701	ELECTRICAL SCHEDULES
E702	ELECTRICAL SCHEDULES

Joe Frogge
Digitally signed by Joe Frogge
DN: CN=Joe Frogge, OU: Development, ...
Date: 2025.04.17 14:15:28-05'00'

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
04/17/2025

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NUMBER A-2011012130

4/8/2025 09:05:13 AM
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SUMMIT GI ADDITION
SAINT LUKE'S EAST
100 NE SAINT LUKE'S BLVD.
LEE'S SUMMIT MO 64086

Date	04/07/25
Job Number	3-24100
Drawn By	KDS
Checked By	SB

Revision

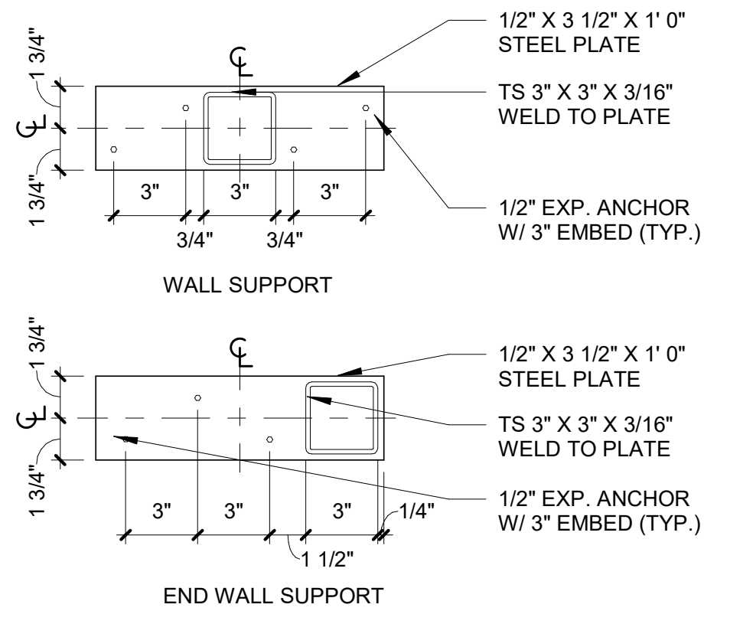
Number	Date	Description

A000

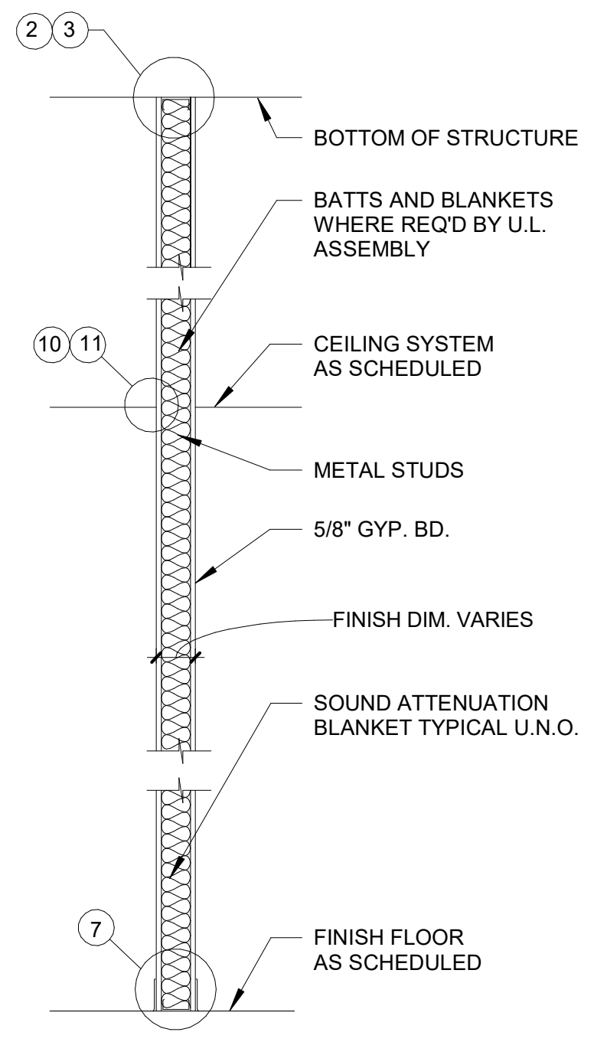
COVER SHEET

FFE SCHEDULE

TYPE MARK	DESCRIPTION	RESPONSIBILITY	COMMENTS
40420R	LATERAL FILE, 3 DRAWER, REUSE	OFOI	-
A0911R	POSTAGE MACHINE, REUSE	OFOI	POWER AND DATA AS REQUIRED, RE: MEP
A1015	PHONE, DESK	OFOI	POWER AS REQUIRED, RE: MEP
A1015R	PHONE, DESK, REUSE	OFOI	POWER AS REQUIRED, RE: MEP
A1066	ADA MIRROR 18" 36"	CFCI	BLOCKING AS REQUIRED
A1131	RAIL, ACCESSORY MOUNTING, EXAM	OFCI	BLOCKING AS REQUIRED
A5075	DISPENSER, SOAP	OFCI	BLOCKING AS REQUIRED
A5075R	DISPENSER, SOAP, REUSE	OFOI	BLOCKING AS REQUIRED
A5077	DISPENSER, HAND SANITIZER	OFCI	BLOCKING AS REQUIRED
A5080R	PAPER TOWEL DISPENSER, REUSE	OFOI	BLOCKING AS REQUIRED
A5082	PAPER TOWEL DISPENSER	OFCI	BLOCKING AS REQUIRED
A5090	SANITARY NAPKIN DISPOSAL	OFCI	BLOCKING AS REQUIRED
A5107	GLOVE DISPENSER	OFCI	BLOCKING AS REQUIRED
A5108	SHARPS CONTAINER	OFCI	BLOCKING AS REQUIRED
A5108bR	SHARPS, FREE STANDING, REUSE	OFOI	-
A5109a	18" GRAB BAR, HORIZONTAL	CFCI	BLOCKING AS REQUIRED
A5109b	42" GRAB BAR, HORIZONTAL	CFCI	BLOCKING AS REQUIRED
A5109c	18" GRAB BAR, VERTICAL	CFCI	BLOCKING AS REQUIRED
A5109d	24" GRAB BAR, HORIZONTAL	CFCI	BLOCKING AS REQUIRED
A5135	UTILITY SHELF, MOP AND BROOM HOLDER	CFCI	BLOCKING AS REQUIRED, RE: SPECS
A5180a	CUBICLE CURTAIN TRACK	CFCI	BLOCKING AS REQUIRED
A5180b	CUBICLE CURTAIN	OFOI	-
A5181a	PANEL DIVIDER	VFVI	BY JAM
A5200	TOILET PAPER DISPENSER	OFCI	BLOCKING AS REQUIRED
A5210	BRACKET, TELEVISION, WALL MOUNTED W/ ADJUST. ARM	OFCI	BLOCKING AS REQUIRED
A6000R	WALL SCONCE, REUSE	OFCI	REINSTALL EXISTING WALL SCONCE AS REQUIRED, RE: ELECT.
E0078R	L-SHAPED DESK W/ PENINSULA, REUSE	OFOI	-
E0120aR	26" X 51" FURN SYSTEMS WORK SURFACE, REUSE	OFOI	EXISTING, REUSE. BLOCKING AS REQUIRED
E0120b	60" FURN SYSTEMS WORK SURFACE	OFVI	PROVIDED BY VENDOR
E0120bR	26" X 60" FURN SYSTEMS WORK SURFACE, REUSE	OFOI	EXISTING, REUSE. SOME TO BE CUT-DOWN IN LENGTH AS NEEDED
E0120cR	26" X 66" FURN SYSTEMS WORK SURFACE, REUSE	OFOI	EXISTING, REUSE. SOME TO BE CUT-DOWN IN LENGTH AS NEEDED
E0120d	24" X 72" FURN SYSTEMS WORK SURFACE	OFVI	PROVIDED BY VENDOR
E0120dR	26" X 72" FURN SYSTEMS WORK SURFACE, REUSE	OFOI	EXISTING, REUSE. SOME TO BE CUT-DOWN IN LENGTH AS NEEDED
E0120e	24" X 48" FURN SYSTEMS WORK SURFACE	OFVI	PROVIDED BY VENDOR
E0120eR	26" X 77" FURN SYSTEMS WORK SURFACE, REUSE	OFOI	EXISTING, REUSE. SOME TO BE CUT-DOWN IN LENGTH AS NEEDED
E0121c	UPPER FLIPPER BIN, 30" W	OFVI	PROVIDED BY VENDOR
E0131R	SIT-TO-STAND WORKSTATION, REUSE	OFOI	DESK-TOP MOUNTED
E0805R	36" WIDE FLIPPER BIN, REUSE	OFOI	BLOCKING AS REQUIRED
E0945b	COMPUCADDY	OFOI	POWER AND DATA REQUIRED, RE: MEP
E0954	CRASH CART	OFOI	EMERGENCY POWER REQUIRED, RE: MEP
F0205	SIDE CHAIR	VFVI	PROVIDED BY VENDOR
F0205R	SIDE CHAIR, W/ ARMS, REUSE	OFOI	-
F0220aR	CHAIR, TASK, SWIVEL, W/ ARMS, REUSE	OFOI	-
F0220R	CHAIR, CONFERENCE, REUSE	OFOI	-
F0225R	DINING CHAIR, REUSE	OFOI	-
F0265R	RECLINER W/ FLIP-DOWN SIDE TABLE, REUSE	OFOI	POWER REQUIRED, RE: MEP
F0300	CHAIR, TASK, SWIVEL, W/ ARMS	VFVI	PROVIDED BY VENDOR
F0305aR	CHAIR, WAITING ROOM, REUSE	OFOI	-
F0306R	CHAIR, WAITING ROOM, BARIATRIC, REUSE	OFOI	-
F0360R	FOOTSTOOL, STRAIGHT W/ HANDLE, REUSE	OFOI	-
F0410R	FILING CABINET, 2 DRAWER, REUSE	OFOI	-
F0415R	FILE CABINET, REUSE	OFOI	-
F0416R	LATERAL FILE, 2 DRAWER, REUSE	OFOI	-
F0431	FURNITURE SYSTEMS BBF	VFVI	PROVIDED BY VENDOR
F0431R	FURNITURE SYSTEMS BBF, REUSE	OFOI	-
F0740R	ROUND TABLE, 23" DIA., REUSE	OFOI	-
F0795aR	ROUND TABLE, 6" DIA., REUSE	OFOI	-
F0860aR	MOBILE TABLE, SMALL, REUSE	OFOI	-
F0860bR	MOBILE TABLE, LARGE, REUSE	OFOI	-
F2010	14 LITER STEP TRASHCAN	OFOI	-
F2020	TRASH CAN, SMALL	OFOI	-
F2020R	TRASH CAN, SMALL, REUSE	OFOI	-
F2535aR	SHRED BIN, REUSE	OFOI	POWER AS REQUIRED. RE: MEP. CONFIRM SIZE AND REQUIREMENTS
F2535bR	SHRED BIN, LARGE, REUSE	OFOI	POWER REQUIRED, RE: MEP
F2535cR	SHRED BIN, LARGE	OFOI	POWER REQUIRED, RE: MEP
F2550	SHREDDER BIN	OFOI	POWER REQUIRED, RE: MEP
F3010aR	TACKBOARD, 48" X 48", REUSE	OFOI	BLOCKING AS REQUIRED
F3010bR	TACKBOARD, 48" X 48", REUSE	OFOI	BLOCKING AS REQUIRED
K1550R	TEA MACHINE, REUSE	OFOI	POWER AS REQUIRED, RE: MEP. CONFIRM SIZE
K1551R	COFFEE MAKER, REUSE	OFOI	NO WATER REQUIRED. POWER AS REQUIRED, RE: MEP
K2515R	DISHWASHER, REUSE	OFOI	POWER AND PLUMBING CONNECTION AS REQUIRED, RE: MEP
K4665R	MICROWAVE, REUSE	OFOI	POWER AS REQUIRED, RE: MEP
K8250R	TOASTER, REUSE	OFOI	POWER AS REQUIRED, RE: MEP
M0504aR	PATIENT PORTAL TELEMONITOR, REUSE	VFVI	BLOCKING AS REQUIRED; BRACKET-MOUNTED. POWER AND DATA AS REQUIRED; RE: MEP. CONFIRM REQUIREMENTS. CONFIRM REUSE
M0504bR	PATIENT PORTAL TELEMONITOR, 56", REUSE	VFVI	BLOCKING AS REQUIRED; BRACKET-MOUNTED. POWER AND DATA AS REQUIRED; RE: MEP. CONFIRM REQUIREMENTS. CONFIRM REUSE
M0506a	MONITOR TELEVISION, 50"	OFCI	POWER AND DATA AS REQUIRED; RE: MEP, BLOCKING AS REQUIRED
M0506R	MONITOR, TELEVISION, 50", REUSE	OFOI	POWER AND DATA AS REQUIRED, RE: MEP
M1801	COMPUTER MONITOR WITH KEYBOARD AND MOUSE	OFOI	POWER AND DATA AS REQUIRED, RE: MEP
M1801aR	LAPTOP, REUSE	OFOI	POWER AND DATA AS REQUIRED, RE: MEP
M1801R	COMPUTER MONITOR WITH KEYBOARD AND MOUSE, REUSE	OFOI	POWER AND DATA AS REQUIRED, RE: MEP
M1802	DUAL COMPUTER MONITOR WITH KEYBOARD AND MOUSE	OFOI	POWER AND DATA AS REQUIRED, RE: MEP
M1802R	COMPUTER, DUAL MONITOR, REUSE	OFOI	POWER AND DATA AS REQUIRED, RE: MEP
M1825aR	COUNTERTOP PRINTER, SMALL, REUSE	OFOI	POWER AND DATA AS REQUIRED, RE: MEP
M1825bR	COUNTERTOP PRINTER, LARGE	OFOI	POWER AND DATA AS REQUIRED, RE: MEP. CONFIRM REQUIREMENTS AND SIZE.
M1825c	PRINTER/SCANNER, DESKTOP	OFOI	POWER AND DATA REQUIRED, RE: MEP
M1825cR	COUNTERTOP PRINTER, LARGE, REUSE	OFOI	POWER AND DATA AS REQUIRED, RE: MEP
M1830R	PRINTER, LABEL, REUSE	OFOI	POWER AND DATA AS REQUIRED, RE: MEP. CONFIRM REQUIREMENTS AND SIZE.
M1840	MFD PRINTER	OFOI	POWER AND DATA REQUIRED, RE: MEP
M1840aR	MFD, FREESTANDING	OFOI	POWER AND DATA AS REQUIRED, RE: MEP
M1840bR	MFD, FREESTANDING, REUSE	OFOI	POWER AND DATA AS REQUIRED, RE: MEP
M1840cR	MFD, MEDIUM, REUSE	OFOI	POWER AND DATA AS REQUIRED, RE: MEP
M1840dR	MFD, COUNTERTOP, REUSE	OFOI	POWER AND DATA AS REQUIRED, RE: MEP. DOES NOT FAX, CONFIRM THEY DO NOT WANT TO REUSE THIS ONE.
M2035R	RACK, STORAGE, MOBILE, WIRE, REUSE	OFOI	-
M2055	WIRE SHELVING, 48"Wx18"Dx74"H	OFOI	BLOCKING AS REQUIRED
M3070a	LINEN HAMPER	OFOI	-
M3072	FRAME, INFECTIOUS WASTE BAG, W/ LID	OFOI	-
M4020	SCALE	OFOI	-
M4255R	STAND, IV, ADJUSTABLE, REUSE	OFOI	-
M4905	DIALYSIS CHAIR, REUSE	OFOI	-
M5030	STOOL	OFOI	-
M5030R	STOOL, REVOLVING, REUSE	OFOI	-
M7401	EXAM LIGHT, MOBILE	OFOI	POWER AND DATA AS REQUIRED, RE: MEP
M7401R	EXAM LIGHT, MOBILE, REUSE	OFOI	POWER AND DATA AS REQUIRED, RE: MEP
M7780aR	SCANNER, REUSE	OFOI	POWER AND DATA AS REQUIRED, RE: MEP
M7780bR	SCANNER, REUSE	OFOI	POWER AND DATA AS REQUIRED, RE: MEP. CONFIRM QUANTITY
M7780cR	CHECK SCANNER, REUSE	OFOI	POWER AND DATA AS REQUIRED, RE: MEP
M7780dR	RICOH FI-8170 SCANNER, REUSE	OFOI	POWER AND DATA AS REQUIRED, RE: MEP
M9025	EXAM TABLE	OFOI	-
M9025R	EXAM TABLE, REUSE	OFOI	-
M9055	EXAM TABLE, ORTHOPEDIC	OFOI	-
P1965	EYEWASH, COUNTERTOP MOUNTED	CFCI	PLUMBING REQUIRED, RE: MEP
R6090R	MEDICAL, HALF-HT. REFRIGERATOR, LOCKABLE, REUSE	OFOI	EMERGENCY POWER REQUIRED, RE: MEP
R6200	MINI REFRIGERATOR, REUSE	OFOI	POWER REQUIRED, RE: MEP. CONFIRM RELOCATION TO NURSING FROM CONSULT
R6201R	REFRIGERATOR, BEVERAGE, U-C, REUSE	OFOI	POWER REQUIRED, RE: MEP
R7200R	REF/FREEZER, 20 CU FT, REUSE	OFOI	VERIFY SIZE. POWER REQUIRED, RE: MEP WATER LINE TO BE INSTALLED FOR WHEN THIS REFRIGERATOR NEEDS TO BE REPLACED IN THE FUTURE.
U1000R	FISH TANK, REUSE	OFOI	POWER REQUIRED, RE: MEP
U1001R	OXYGEN TANK, REUSE	OFOI	-
U1002R	WORKSTATION BIN ATTACHMENT, REUSE	VFVI	-
U1003R	VIDEO CAPSULE RECORDER AND HOLDER (4 UNITS), REUSE	OFOI	TO BE LOCATED INSIDE OF FULL HEIGHT CABINET. POWER REQUIRED, RE: MEP
U1004	WALL-MOUNTED SHELVING STORAGE	OFCI	BLOCKING AS REQUIRED
U1005R	SHELVES, REUSE	OFOI	BLOCKING AS REQUIRED
U1006	CLIPBOARD WALL STORAGE	OFOI	BLOCKING AS REQUIRED
U1007	PICTURE HANGING	OFOI	BLOCKING AS REQUIRED
U1008	RECEPTION SIGNAGE, REUSE	OFCI	EXISTING WAITING ROOM SIGNAGE, RELOCATED


1/2" X 3 1/2" X 1' 0" STEEL PLATE
TS 3" X 3" X 3/16" WELD TO PLATE
1/2" EXP. ANCHOR W/ 3" EMBED (TYP.)
1 3/4"
3"
3/4"
WALL SUPPORT
1/4"
1 1/2"
END WALL SUPPORT

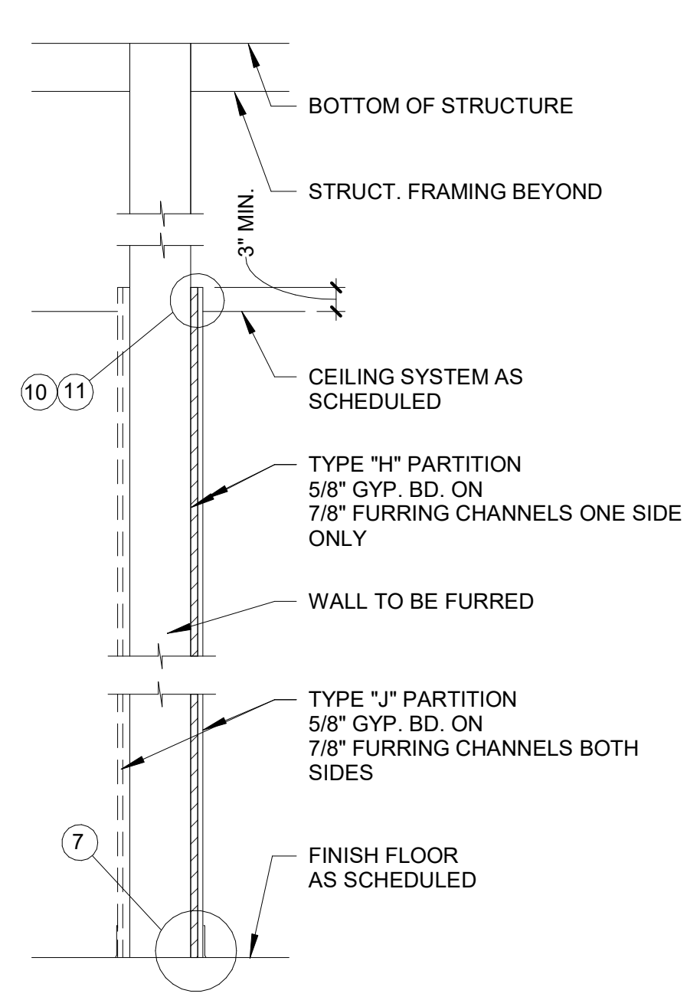
22 HALF HT. WALL BASE PLATE DETAIL
1-1/2" = 1'-0"


2 3
BOTTOM OF STRUCTURE
BATTS AND BLANKETS WHERE REQ'D BY U.L. ASSEMBLY
10 11
CEILING SYSTEM AS SCHEDULED
METAL STUDS
5/8" GYP. BD.
FINISH DIM. VARIES
SOUND ATTENUATION BLANKET TYPICAL U.N.O.
7
FINISH FLOOR AS SCHEDULED

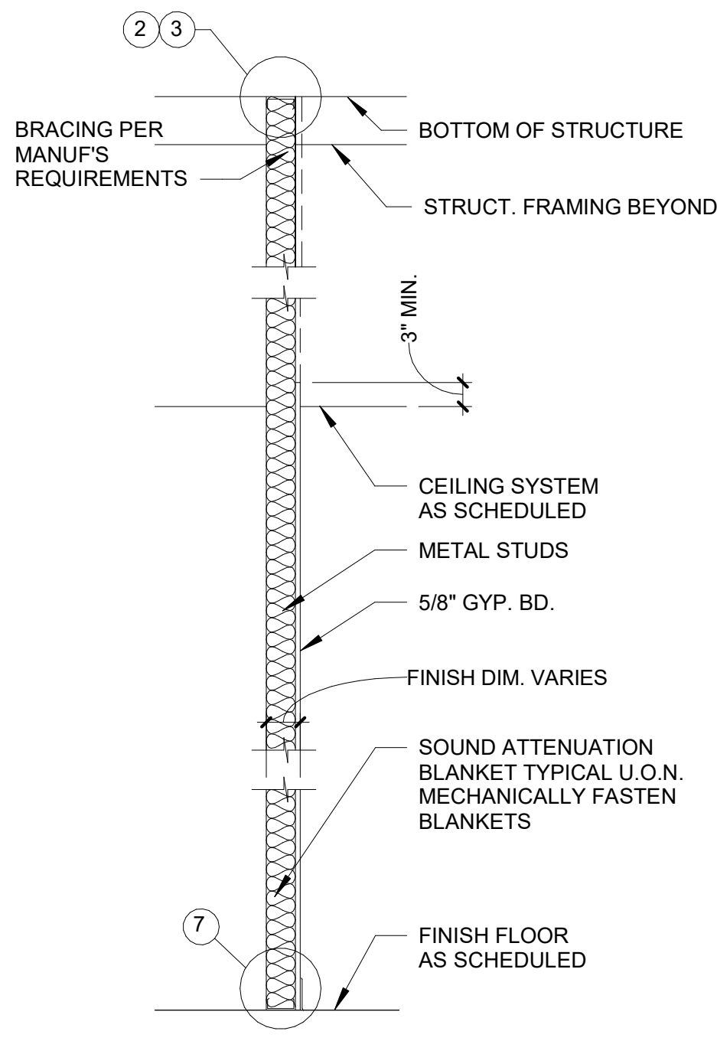
A GYPSUM BOARD BOTH SIDES
NON-RATED - TYPICAL
1/2" = 1'-0"

U.L. DESIGNATIONS AT RATED WALLS AS INDICATED ON LIFE SAFETY PLAN

- 🟦 0 HOUR SMOKE RESISTIVE
- 🟩 1 HOUR SMOKE BARRIER
  - U.L. U465 FOR 3 5/8" STUDS
  - U.L. U442 AT TILED WALLS
  - U.L. U451 FOR 2 1/2" STUDS
- 🟥 1 HOUR FIRE SEPARATION
  - U.L. U465 FOR 3 5/8" STUDS
  - U.L. U442 AT TILED WALLS
  - U.L. U451 FOR 2 1/2" STUDS

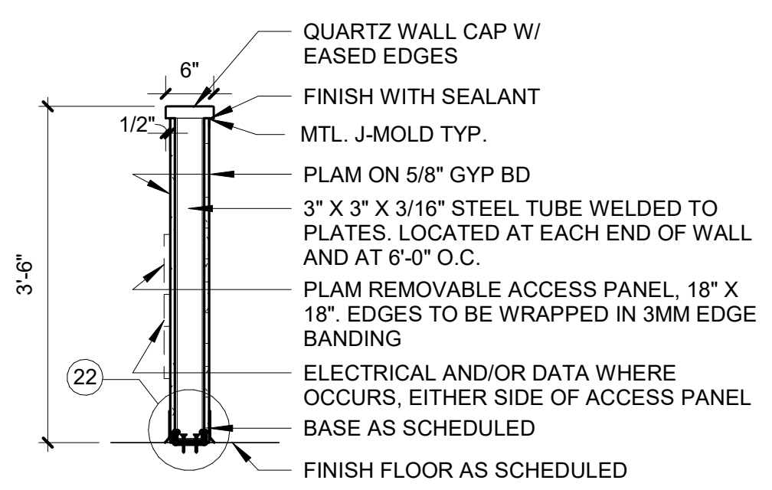

BOTTOM OF STRUCTURE
STRUCT. FRAMING BEYOND
3" MIN.
10 11
CEILING SYSTEM AS SCHEDULED
TYPE "H" PARTITION 5/8" GYP. BD. ON 7/8" FURRING CHANNELS ONE SIDE ONLY
WALL TO BE FURRED
TYPE "J" PARTITION 5/8" GYP. BD. ON 7/8" FURRING CHANNELS BOTH SIDES
7
FINISH FLOOR AS SCHEDULED

H GYPSUM BOARD ON FURRING CHANNELS, ONE SIDE
1/2" = 1'-0"

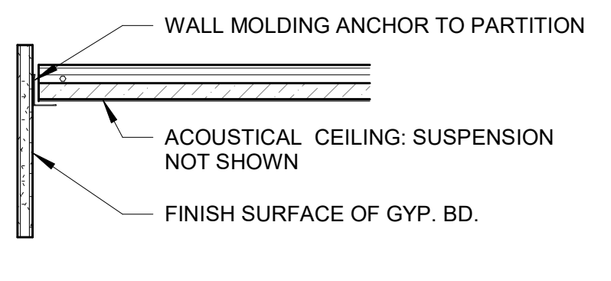

2 3
BRACING PER MANUF'S REQUIREMENTS
BOTTOM OF STRUCTURE
STRUCT. FRAMING BEYOND
3" MIN.
CEILING SYSTEM AS SCHEDULED
METAL STUDS
5/8" GYP. BD.
FINISH DIM. VARIES
SOUND ATTENUATION BLANKET TYPICAL U.O.N. MECHANICALLY FASTEN BLANKETS
7
FINISH FLOOR AS SCHEDULED

K GYPSUM BOARD ONE SIDE ONLY, CEILING HEIGHT
1/2" = 1'-0"

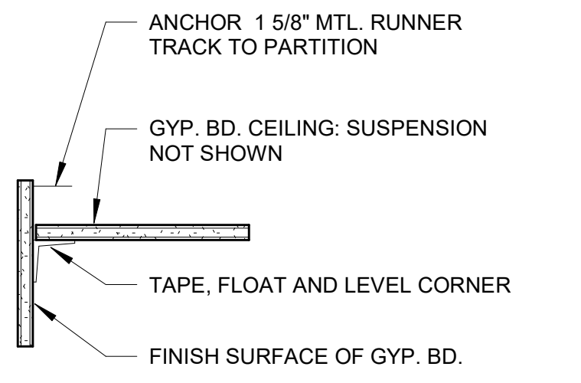
L GYPSUM BOARD ONE SIDE ONLY, FULL HEIGHT
1/2" = 1'-0"


6"
1/2"
3'-6"
22
QUARTZ WALL CAP W/ EASED EDGES
FINISH WITH SEALANT
MTL. J-MOLD TYP.
PLAM ON 5/8" GYP BD
3" X 3" X 3/16" STEEL TUBE WELDED TO PLATES. LOCATED AT EACH END OF WALL AND AT 6'-0" O.C.
PLAM REMOVABLE ACCESS PANEL, 18" X 18". EDGES TO BE WRAPPED IN 3MM EDGE BANDING
ELECTRICAL AND/OR DATA WHERE OCCURS, EITHER SIDE OF ACCESS PANEL
BASE AS SCHEDULED
FINISH FLOOR AS SCHEDULED

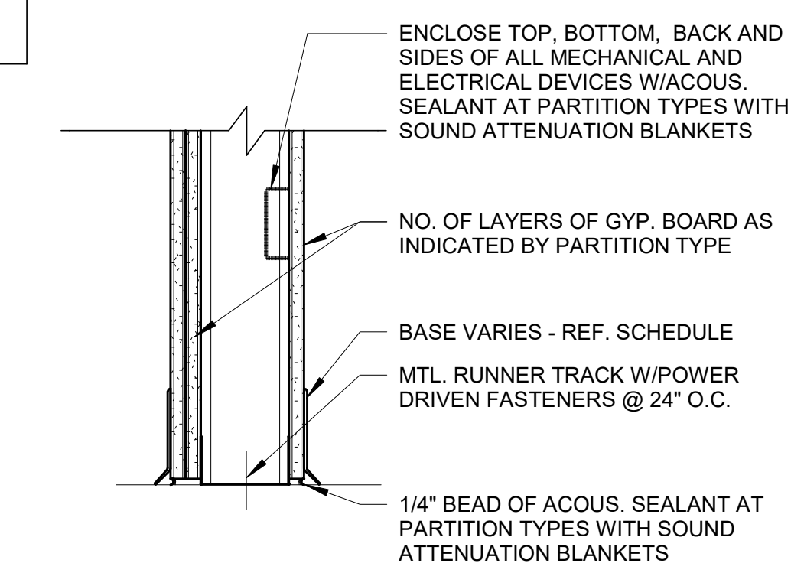
V KNEE WALL
1/2" = 1'-0"


WALL MOLDING ANCHOR TO PARTITION
ACOUSTICAL CEILING: SUSPENSION NOT SHOWN
FINISH SURFACE OF GYP. BD.

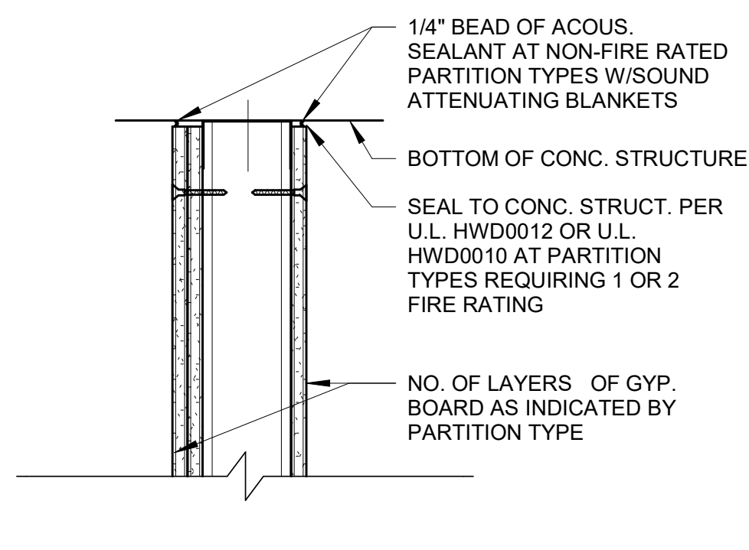
11 CEILING DETAILS FOR GYP. BD. VERTICAL SURFACES
1-1/4" = 1'-0"


ANCHOR 1 5/8" MTL. RUNNER TRACK TO PARTITION
GYP. BD. CEILING: SUSPENSION NOT SHOWN
TAPE, FLOAT AND LEVEL CORNER
FINISH SURFACE OF GYP. BD.

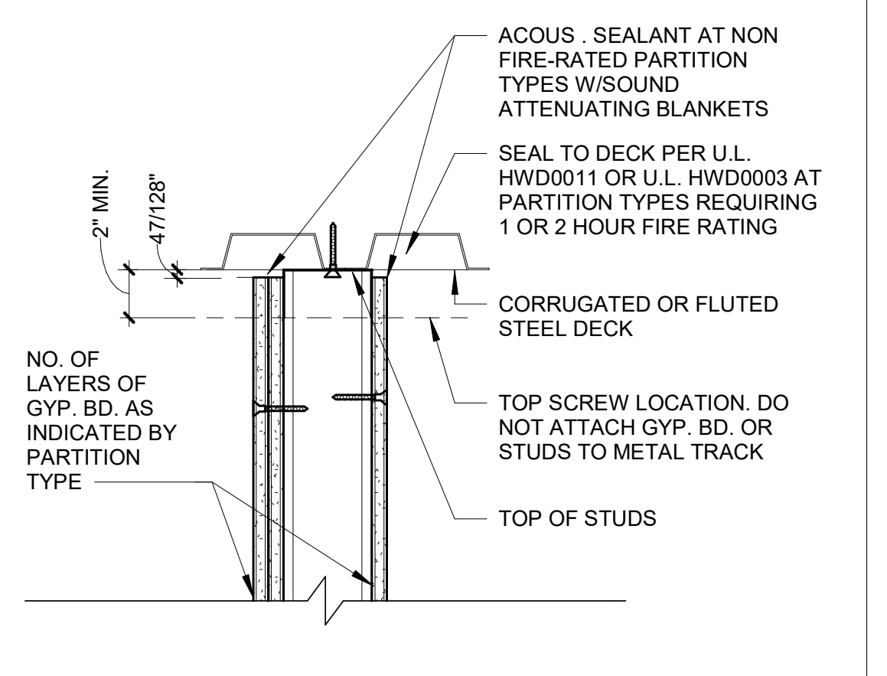
10 SUSPENDED GYP. BD. CEILING
1-1/4" = 1'-0"


ENCLOSE TOP, BOTTOM, BACK AND SIDES OF ALL MECHANICAL AND ELECTRICAL DEVICES W/ACOUS. SEALANT AT PARTITION TYPES WITH SOUND ATTENUATION BLANKETS
NO. OF LAYERS OF GYP. BOARD AS INDICATED BY PARTITION TYPE
BASE VARIES - REF. SCHEDULE
MTL. RUNNER TRACK W/POWER DRIVEN FASTENERS @ 24" O.C.
1/4" BEAD OF ACOUS. SEALANT AT PARTITION TYPES WITH SOUND ATTENUATION BLANKETS

7 FLOOR ANCHORAGE OF PARTITION
1-1/2" = 1'-0"


1/4" BEAD OF ACOUS. SEALANT AT NON-FIRE RATED PARTITION TYPES W/SOUND ATTENUATING BLANKETS
BOTTOM OF CONC. STRUCTURE
SEAL TO CONC. STRUCT. PER U.L. HWD0012 OR U.L. HWD0010 AT PARTITION TYPES REQUIRING 1 OR 2 FIRE RATING
NO. OF LAYERS OF GYP. BOARD AS INDICATED BY PARTITION TYPE

3 TOP ANCHORAGE OF PARTITION TO CONCRETE STRUCTURE SEE 3A AND 3B FOR ADDITIONAL INFORMATION
1-1/2" = 1'-0"


2" MIN.
47/128"
ACOUS . SEALANT AT NON FIRE-RATED PARTITION TYPES W/SOUND ATTENUATING BLANKETS
SEAL TO DECK PER U.L. HWD0011 OR U.L. HWD0003 AT PARTITION TYPES REQUIRING 1 OR 2 HOUR FIRE RATING
CORRUGATED OR FLUTED STEEL DECK
NO. OF LAYERS OF GYP. BD. AS INDICATED BY PARTITION TYPE
TOP SCREW LOCATION. DO NOT ATTACH GYP. BD. OR STUDS TO METAL TRACK
TOP OF STUDS

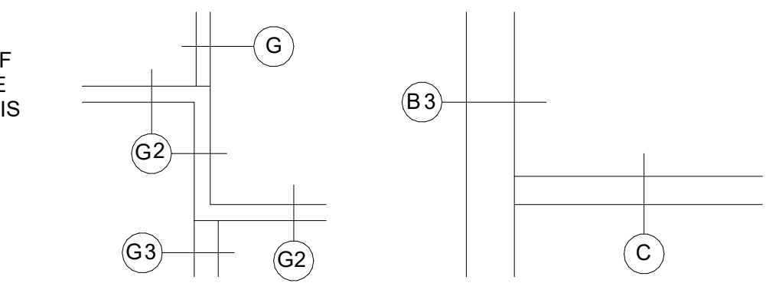
2 TOP ANCHORAGE OF PARTITION TO METAL DECK
1-1/2" = 1'-0"

PARTITION GENERAL NOTES

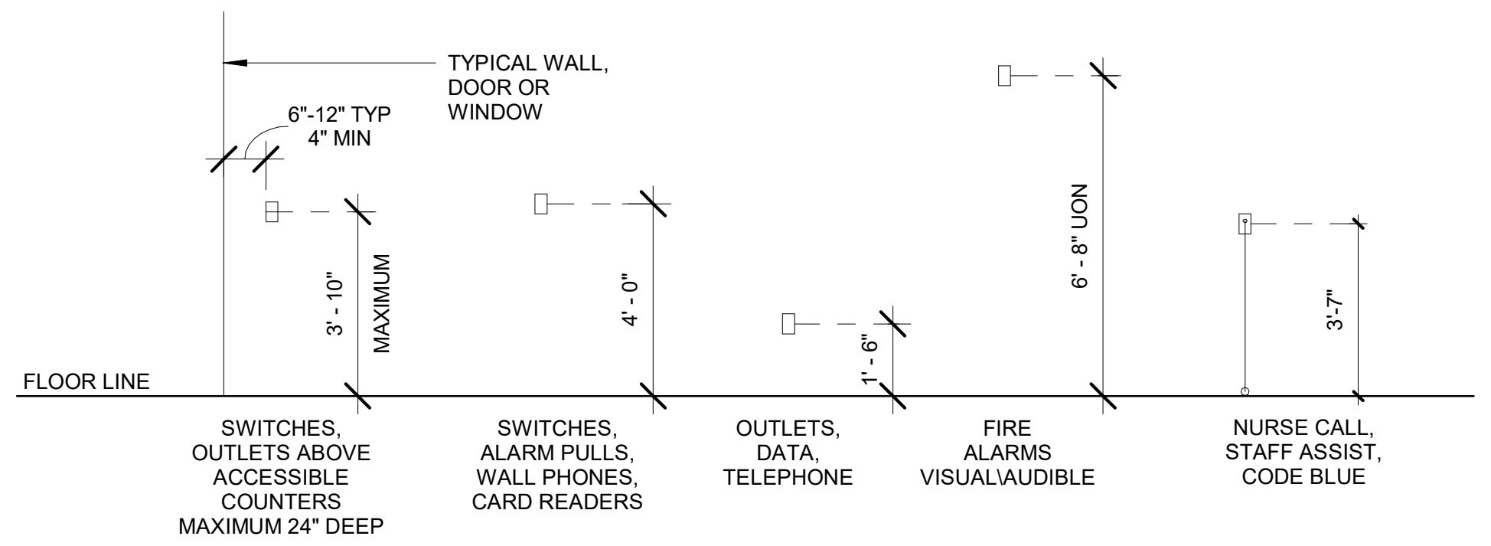
1. UNLESS NOTED OTHERWISE, ALL INTERIOR METAL STUDS ARE 3 5/8" THICK. REFER TO SUFFIX SCHEDULE BELOW FOR LOCATIONS OF METAL STUDS OTHER THAN 3-5/8" THICK. NOTE: STUD THICKNESS (GAUGE) MUST CONFORM TO MANUFACTURER'S RECOMMENDATIONS FOR SPAN (HEIGHT OF STUD)
2. WHERE THE PARTITION TYPE INDICATION IS SHOWN WITH A NUMERICAL SUFFIX, THE METAL STUD THICKNESS SHALL BE AS SCHEDULED BELOW:

SUFFIX	MTL. STUD THICKNESS
1	1-5/8" MTL. STUDS
2	2-1/2" MTL. STUDS
3	6" MTL. STUDS

3. UNLESS NOTED OTHERWISE ON THE FLOOR PLAN, ALL INTERIOR DRYWALL PARTITIONS INDICATED ON THE FLOOR PLAN DRAWING ARE TYPE 'A' PARTITIONS. WHERE OCCURS, RATINGS ARE AS INDICATED ON THE LIFE SAFETY PLANS.
4. UNLESS NOTED OTHERWISE, ALL INTERIOR MASONRY PARTITIONS INDICATED ON THE FLOOR PLAN DRAWING ARE TYPE 'B' PARTITIONS. WHERE OCCURS, RATINGS ARE AS INDICATED ON THE LIFE SAFETY PLANS.
5. ALL STUDS ARE CONTINUOUS FROM FLOOR STRUCTURE TO CEILING STRUCTURE UNLESS NOTED OTHERWISE.
6. METAL STUDS ARE SPACED @ 16" O.C. MAX., UNLESS NOTED OTHERWISE.
7. UNLESS NOTED OTHERWISE, ALL GYPSUM BOARD IS TO BE 5/8" THICK "FIRECODE".
8. THE LOCATION OF A CHANGE IN THE PARTITION TYPE IS INDICATED BY A WALL TAG.


G
G2
G3
G2
B3
C

9. THE CORRESPONDING RATED ASSEMBLIES ARE INDICATED BELOW THE PARTITION TYPES.
10. PARTITION TYPE DESIGNATIONS ARE INDICATED ON THE FLOOR PLAN DRAWINGS.
11. PARTITION TYPES DO NOT INCLUDE APPLIED FINISHES CALLED FOR IN THE ROOM FINISH SCHEDULE.
12. AT PARTITION TYPES WHERE MTL. STUDS ARE EXPOSED ON ONE OR BOTH SIDES, CUT STUD 1/4" SHORT AND SCREW BOTH SIDES TO MTL. RUNNER TRACK.

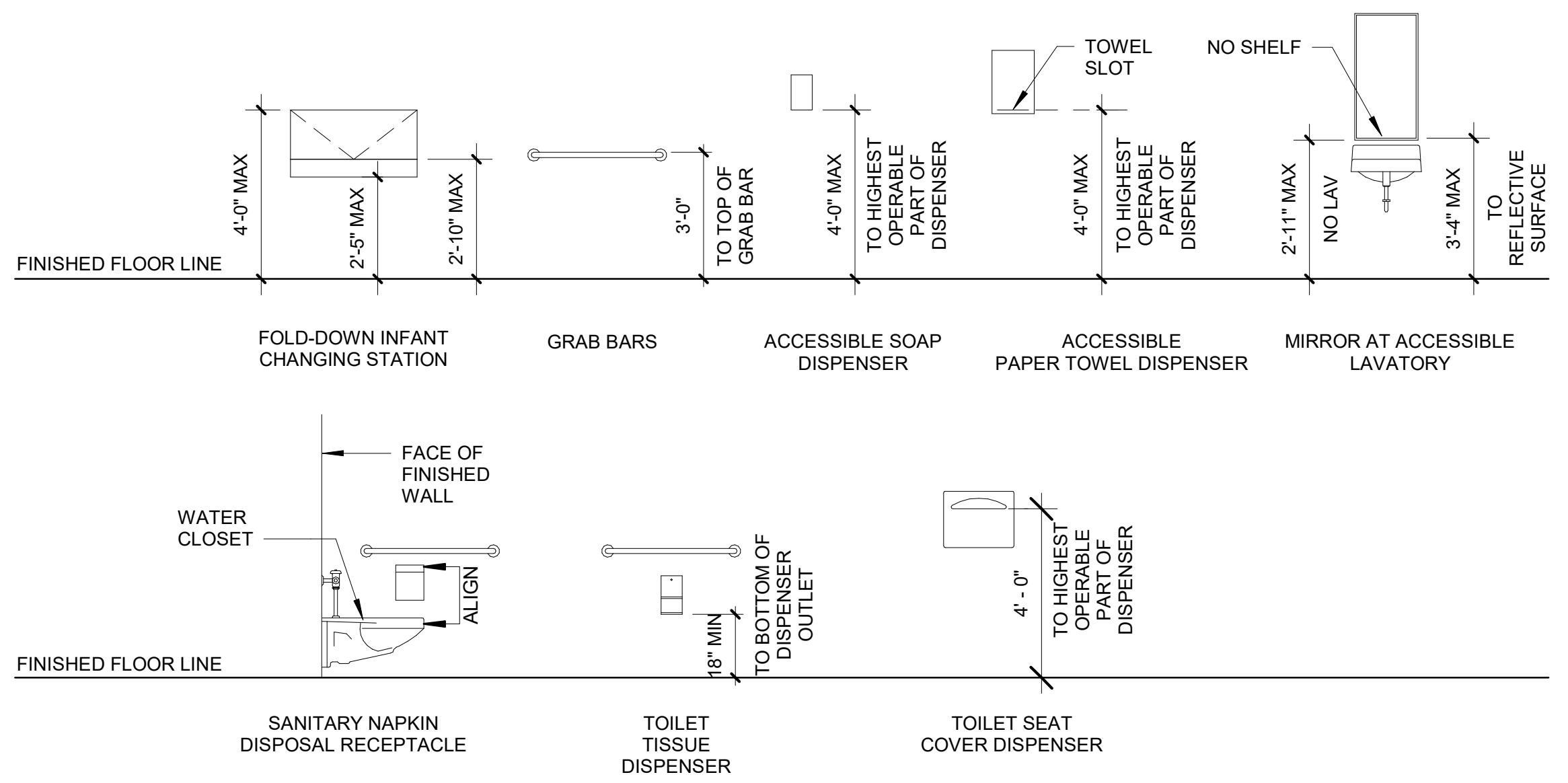

TYPICAL WALL, DOOR OR WINDOW
6"-12" TYP 4" MIN
3' - 10"
MAXIMUM
4' - 0"
1' - 6"
6' - 8" UON
3'-7"
FLOOR LINE
SWITCHES, OUTLETS ABOVE ACCESSIBLE COUNTERS MAXIMUM 24" DEEP
SWITCHES, ALARM PULLS, WALL PHONES, CARD READERS
OUTLETS, DATA, TELEPHONE
FIRE ALARMS VISUAL\AUDIBLE
NURSE CALL, STAFF ASSIST, CODE BLUE

ELECTRICAL DEVICE MOUNTING HEIGHTS
1/4" = 1'-0"

NOTE: INFANT CHANGING STATION SHALL NOT PROTRUDE FROM WALL MORE THAN 4". IF INFANT CHANGING STATION PROTRUDES MORE THAN 4" FROM WALL; BOTTOM OF INFANT CHANGING STATION SHALL BE LESS THAN 27" ABOVE FINISH FLOOR.

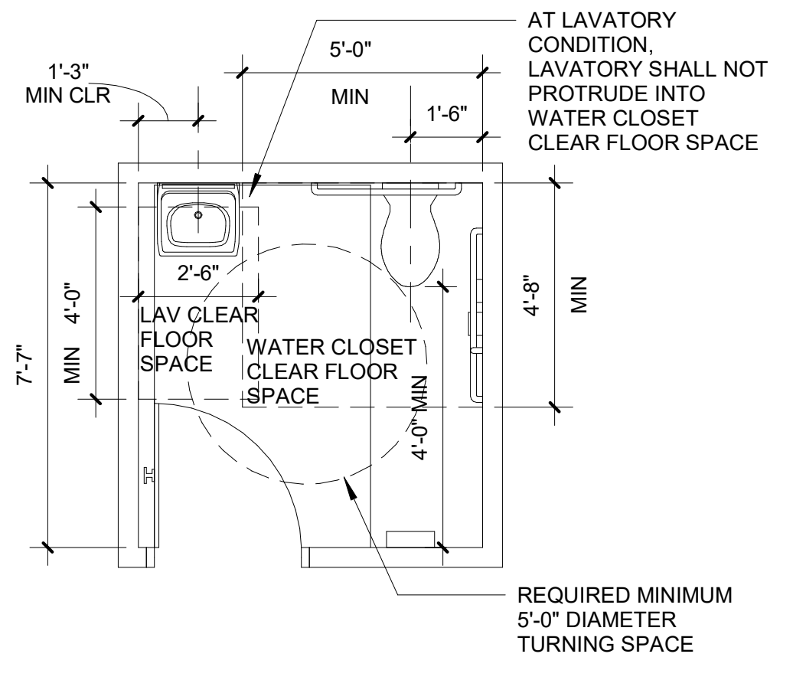
NOTE: OPERABLE PARTS SHALL NOT BE LOCATED MORE THAN 48" A.F.F. WHEN IN THE CLOSED POSITION.

NOTE: PROVIDE 1-1/2" MIN. CLEARANCE FROM BOTTOM OF GRAB BAR TO TOP OF SANITARY NAPKIN DISPOSAL RECEPTACLE.

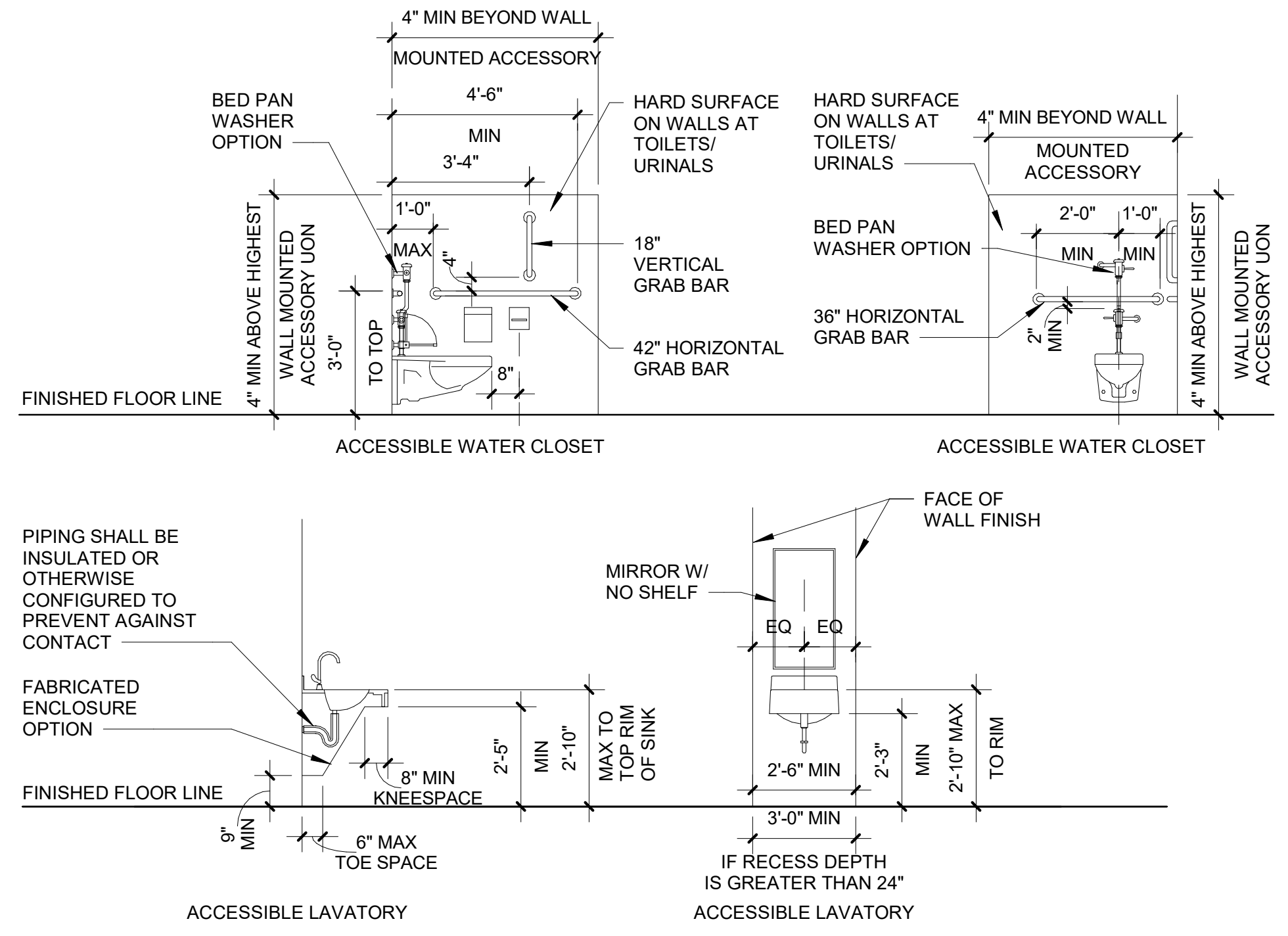

FINISHED FLOOR LINE
4'-0" MAX
2'-5" MAX
2'-10" MAX
FOLD-DOWN INFANT CHANGING STATION
3'-0"
TO TOP OF GRAB BAR
GRAB BARS
4'-0" MAX
TO HIGHEST OPERABLE PART OF DISPENSER
ACCESSIBLE SOAP DISPENSER
TOWEL SLOT
ACCESSIBLE PAPER TOWEL DISPENSER
NO SHELF
2'-11" MAX
NO LAV
3'-4" MAX
TO REFLECTIVE SURFACE
MIRROR AT ACCESSIBLE LAVATORY
FACE OF FINISHED WALL
WATER CLOSET
ALIGN
18" MIN
TO BOTTOM OF DISPENSER OUTLET
4' - 0"
SANITARY NAPKIN DISPOSAL RECEPTACLE
TOILET TISSUE DISPENSER
TOILET SEAT COVER DISPENSER

TOILET ACCESSORY MOUNTING HEIGHTS
1/4" = 1'-0"

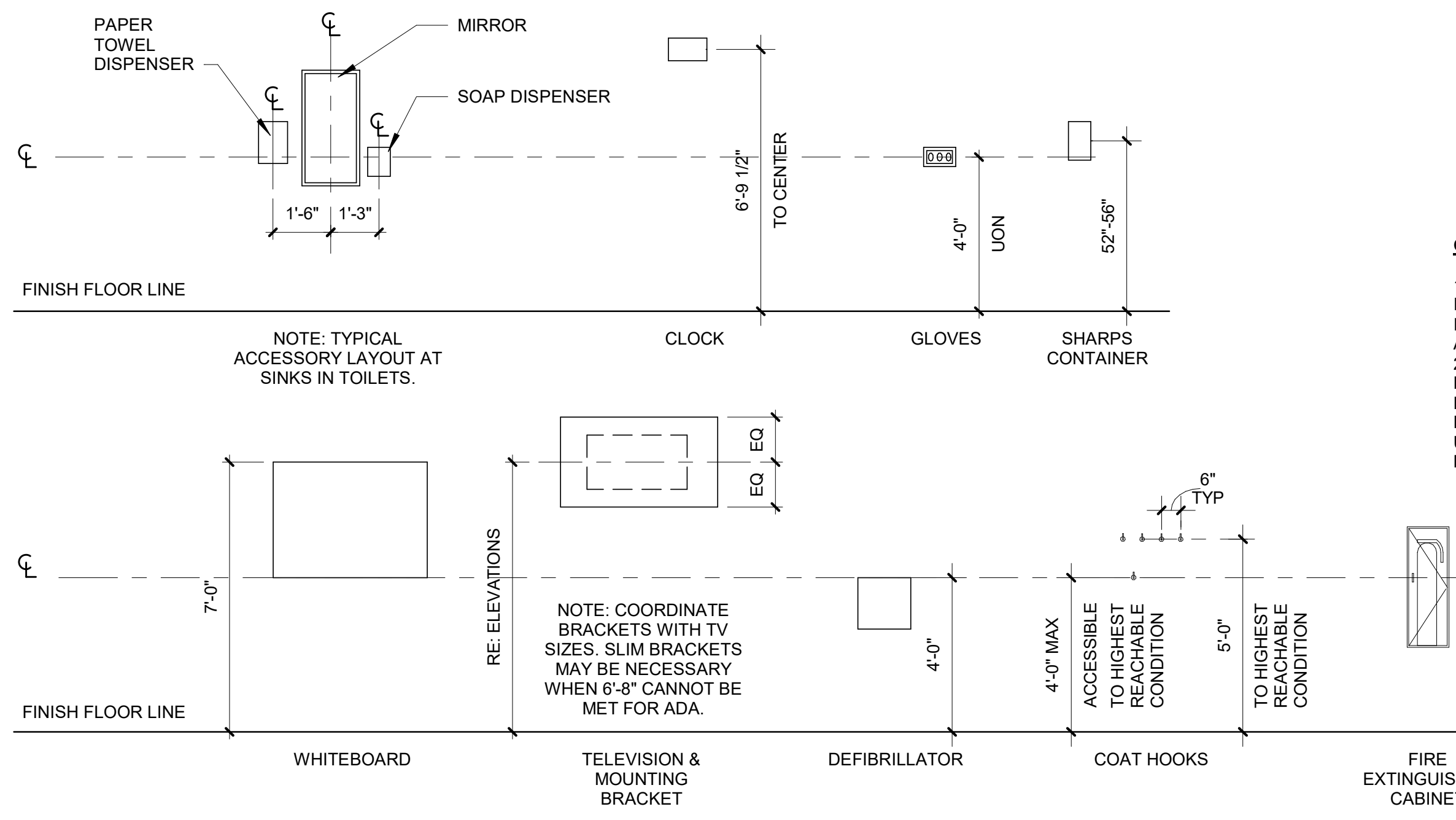
NOTE: DIMENSIONS AND LAYOUTS SHOWN IN THESE DETAILS ARE INTENDED TO SHOW THE MINIMUM DIMENSIONS AND MAY NOT MATCH FLOOR PLAN CONFIGURATIONS EXACTLY.


1'-3" MIN CLR
5'-0"
MIN
1'-6"
AT LAVATORY CONDITION, LAVATORY SHALL NOT PROTRUDE INTO WATER CLOSET CLEAR FLOOR SPACE
2'-6"
LAV CLEAR FLOOR SPACE
WATER CLOSET CLEAR FLOOR SPACE
7'-7"
4'-0"
MIN
4'-8"
4'-0" MIN
REQUIRED MINIMUM 5'-0" DIAMETER TURNING SPACE
B ACCESSIBLE TOILET

GENERAL ADA DIMENSIONS
1/4" = 1'-0"

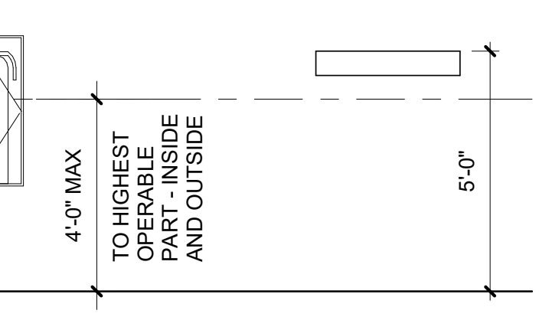

4" MIN BEYOND WALL
MOUNTED ACCESSORY
4'-6"
MIN
3'-4"
1'-0"
MAX
BED PAN WASHER OPTION
HARD SURFACE ON WALLS AT TOILETS/ URINALS
18" VERTICAL GRAB BAR
42" HORIZONTAL GRAB BAR
4" MIN ABOVE HIGHEST WALL MOUNTED ACCESSORY UON
3'-0"
TO TOP
8"
FINISHED FLOOR LINE
ACCESSIBLE WATER CLOSET
2'-0"
36" HORIZONTAL GRAB BAR
2" MIN
ACCESSIBLE WATER CLOSET
PIPING SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PREVENT AGAINST CONTACT
FABRICATED ENCLOSURE OPTION
8" MIN KNEESPACE
9" MIN
6" MAX TOE SPACE
2'-5"
MIN 2'-10"
MAX TO TOP RIM OF SINK
ACCESSIBLE LAVATORY
MIRROR W/ NO SHELF
FACE OF WALL FINISH
EQ
2'-6" MIN
2'-3"
MIN
2'-10" MAX
TO RIM
3'-0" MIN
IF RECESS DEPTH IS GREATER THAN 24"
ACCESSIBLE LAVATORY

TYPICAL FIXTURE ELEVATION
1/4" = 1'-0"


PAPER TOWEL DISPENSER
MIRROR
SOAP DISPENSER
1'-6"
1'-3"
FINISH FLOOR LINE
NOTE: TYPICAL ACCESSORY LAYOUT AT SINKS IN TOILETS.
6'-9 1/2"
TO CENTER
CLOCK
4'-0"
UON
GLOVES
52"-56"
SHARPS CONTAINER
7'-0"
WHITEBOARD
RE: ELEVATIONS
EQ
NOTE: COORDINATE BRACKETS WITH TV SIZES. SLIM BRACKETS MAY BE NECESSARY WHEN 6'-8" CANNOT BE MET FOR ADA.
TELEVISION & MOUNTING BRACKET
DEFIBRILLATOR
6" TYP
4'-0" MAX
ACCESSIBLE TO HIGHEST REACHABLE CONDITION
5'-0"
TO HIGHEST REACHABLE CONDITION
COAT HOOKS
TO HIGHEST OPERABLE PART - INSIDE AND OUTSIDE
FIRE EXTINGUISHER CABINET
UTILITY SHELF

GENERAL NOTES:

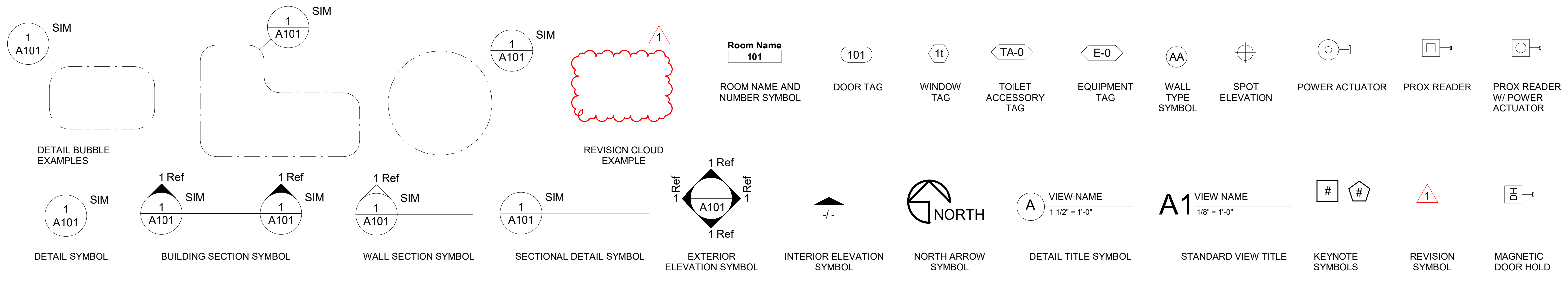
1. ANY OBJECTS PROJECTING MORE THAN 4 INCHES FROM THE FINISHED FACE OF WALL INTO A CIRCULATION PATH SHALL NOT HAVE A HEAD CLEARANCE OF LESS THAN 80" (6'-8").
2. GENERAL CONTRACTOR TO INSTALL FIRE RETARDANT WOOD BLOCKING FOR ALL EQUIPMENT OVER 50LBS AND FIRE RETARDANT PLYWOOD FOR EQUIPMENT UNDER 50 LBS, AS REQUIRED FOR THE MOUNTING OF ALL EQUIPMENT.



EQUIPMENT MOUNTING HEIGHTS
1/4" = 1'-0"

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH A.D.A. REQUIREMENTS AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL BUILDING CODES AND REGULATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY BUILDING PERMITS.
3. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THE ARCHITECT OF ANY INCONSISTENCIES OR DISCREPANCIES WTH THE PROJECT DOCUMENTS. ACCESS TO THE SITE AND/OR SPACE UNDER CONSTRUCTION DURING BIDDING AND CONSTRUCTION SHALL BE COORDINATED WITH THE OWNER.
4. DO NOT SCALE DRAWINGS.
5. THE WORD "ALIGN" AND "EQUAL" AS USED IN THESE DOCUMENTS SHALL SUPERSEDE ANY DIMENSIONAL INFORMATION GIVEN.
6. TYPICAL DIMENSIONS ARE TO FACE OF CONCRETE, DRYWALL, CURTAIN WALL, ETC., OR TO COLUMN CENTERLINE. DIMENSIONS AT WINDOWS ARE TYPICALLY TO FACE OF FRAME. REFER TO PLAN DETAILS FOR ADDITIONAL INFORMATION.
7. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING AND CONFIRMING ALL SUBSTRATE CONDITIONS WHERE NEW MATERIALS ARE APPLIED. THE SUBSTRATE SHALL BE SMOOTH AND FREE OF DEFECTS AND SHALL CONFORM TO THE REQUIREMENTS OF THE FINISHED MATERIAL MANUFACTURERS RECOMMENDATIONS.
8. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP.
9. THE GENERAL CONTRACTOR SHALL INSPECT AND CHECK THE ADEQUACY AND INSTALLATION OF THROUGH-WALL FLASHING PRIOR TO COVERING WITH FINISH MATERIALS. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO INSPECTION AGAINST HOLES OR PENETRATIONS, APPROPRIATE LAPPING AND SEALING, AND OVERALL WORKMANSHIP IN CONFORMANCE WITH THE SPECIFICATIONS.


1 A101 SIM
DETAIL BUBBLE EXAMPLES
1
REVISION CLOUD EXAMPLE
Room Name 101
ROOM NAME AND NUMBER SYMBOL
101
DOOR TAG
1t
WINDOW TAG
TA-0
TOILET ACCESSORY TAG
E-0
EQUIPMENT TAG
AA
WALL TYPE SYMBOL
SPOT ELEVATION
POWER ACTUATOR
PROX READER
PROX READER W/ POWER ACTUATOR
DETAIL SYMBOL
1 Ref
BUILDING SECTION SYMBOL
WALL SECTION SYMBOL
SECTIONAL DETAIL SYMBOL
EXTERIOR ELEVATION SYMBOL
-/-
INTERIOR ELEVATION SYMBOL
NORTH
NORTH ARROW SYMBOL
A VIEW NAME 1 1/2" = 1'-0"
DETAIL TITLE SYMBOL
A1 VIEW NAME 1/8" = 1'-0"
STANDARD VIEW TITLE
#
KEYNOTE SYMBOLS
REVISION SYMBOL
DH
MAGNETIC DOOR HOLD

SYMBOLS
1/4" = 1'-0"

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
04/17/2025

SAMUEL K. BECKMAN
NUMBER A-2011012130

Samuel K. Beckman

4/8/2025 09:05:16 AM
Samuel K. Beckman - Architect
License - Missouri #A-2011012130

ACI
BOLAND
ARCHITECTS

ACI/Boland, Inc.
Kansas City | St. Louis

1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600

Licensee's Certificate of Authority Number:
Missouri: #000958

MEP ENGINEER

HENDERSON ENGINEERS
1600 1091 WEST 84TH TER., SUITE 300
LENEXA, KS 66214
913.894.9720
Licensee's Certificate of Authority Number:
E-556D

SUMMIT GI ADDITION
SAINT LUKE'S EAST
100 NE SAINT LUKE'S BLVD.
LEE'S SUMMIT MO 64086

Date	04/07/25
Job Number	3-24100
Drawn By	KDS
Checked By	SB

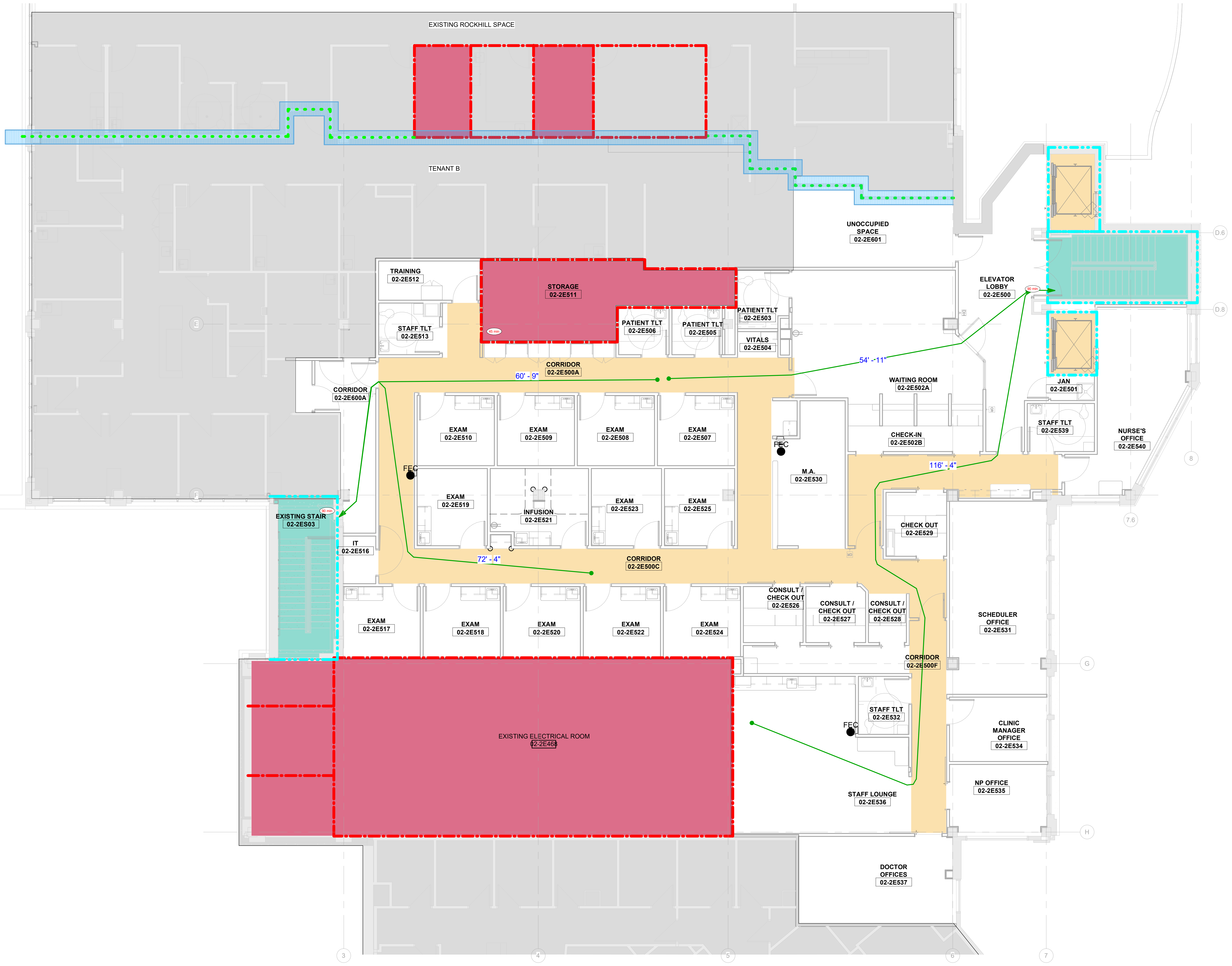
Revision

Number	Date	Description

A010

PARTITION TYPES & DETAILS, GENERAL NOTES, & EQUIPMENT SCHEDULE

4/8/2025 09:05:18 AM


EXISTING ROCKHILL SPACE
TENANT B
UNOCCUPIED SPACE 02-2E601
TRAINING 02-2E512
STORAGE 02-2E511
45 min
STAFF TLT 02-2E513
PATIENT TLT 02-2E506
PATIENT TLT 02-2E505
PATIENT TLT 02-2E503
VITALS 02-2E504
ELEVATOR LOBBY 02-2E500
90 min
D.6
D.8
CORRIDOR 02-2E500A
60' - 9"
54' - 11"
CORRIDOR 02-2E600A
WAITING ROOM 02-2E502A
JAN 02-2E501
EXAM 02-2E510
EXAM 02-2E509
EXAM 02-2E508
EXAM 02-2E507
CHECK-IN 02-2E502B
STAFF TLT 02-2E539
NURSE'S OFFICE 02-2E540
FEC
M.A. 02-2E530
116' - 4"
8
EXAM 02-2E519
INFUSION 02-2E521
EXAM 02-2E523
EXAM 02-2E525
CHECK OUT 02-2E529
7.6
EXISTING STAIR 02-2ES03
90 min
IT 02-2E516
72' - 4"
CORRIDOR 02-2E500C
CONSULT / CHECK OUT 02-2E526
CONSULT / CHECK OUT 02-2E527
CONSULT / CHECK OUT 02-2E528
SCHEDULER OFFICE 02-2E531
EXAM 02-2E517
EXAM 02-2E518
EXAM 02-2E520
EXAM 02-2E522
EXAM 02-2E524
CORRIDOR 02-2E500F
G
EXISTING ELECTRICAL ROOM 02-2E468
STAFF TLT 02-2E532
CLINIC MANAGER OFFICE 02-2E534
NP OFFICE 02-2E535
STAFF LOUNGE 02-2E536
H
DOCTOR OFFICES 02-2E537
3
4
5
6
7

30' 15' 0' 30' 60'

SCALE : 1" = 30'-0"

1 CODE FOOTPRINT PLAN
1/8" = 1'-0"

*THIS DRAWING IS INTENDED TO BE PRINTED IN COLOR. USE BLACK AND WHITE COPIES AT YOUR OWN RISK.

CODE SUMMARY

PROJECT CONSTRUCTION PURPOSE: NEW CLINIC LOCATING IN EXISTING CLINIC SPACE

OWNER:
SUMMIT GI
100 NE SAINT LUKE'S BOULEVARD
SUITE 210

DESIGNER:
ACI BOLAND ARCHITECTS
1710 WYANDOTTE ST.
KANSAS CITY, MO 64108
PHONE: (816) 763-9600

LOCAL AUTHORITY:
RESPONDING FIRE SERVICE: LEE'S SUMMIT FIRE DEPARTMENT
LOCAL BUILDING INSPECTION: LEE'S SUMMIT, MO -CODES ADMINISTRATION DEPARTMENT

CODE INFORMATION:
2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL PLUMBING CODE
2018 INTERNATIONAL MECHANICAL CODE
2017 NATIONAL ELECTRICAL CODE (NFPA 70)
2018 INTERNATIONAL FIRE CODE
2012 LIFE SAFETY CODE (NFPA 101 CHAPTER 20)
2009 ICC/ANSI A117.1 AS AMENDED AND ADOPTED BY THE CITY OF LEE'SSUMMIT
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN / AMERICANS WITH DISABILITIES ACT OF 1990

STATE OF MISSOURI DEPT. OF HEALTH & ENVIRONMENT REFERENCES THE FOLLOWING CODES:
2012 NFPA 101 LIFE SAFETY CODE (LSC)
NOTE: IF CODE REQUIREMENTS OVERLAP, THE MOST STRINGENT SHALL APPLY.

TYPE OF CONSTRUCTION:	TYPE 1-A -SECTION 602.2 (TYPE 1 -332 SPRINKLERED -SECTION 18.1.6.1)
OCCUPANCY GROUP:	B -BUISNESS -PROFESSIONAL SERVICES
OCCUPANT LOAD:	
TOTAL SQUARE FOOTAGE: SF /	7,530 SF
TOTAL NUMBER OF OCCUPANTS	7,530/150 = 51 OCCUPANTS
DEAD END CORRIDOR LENGTH LIMIT:	50' - FULLY SPRINKLED
EXIT ACCESS TRAVEL DISTANCE:	200'
AREA OF CONSTRUCTION:	7,530 +/- SF

REQUIRED FIRE RESISTANCE RATINGS (IN HOURS) PER NFPA 101 A.8.2.1.2:

EXTERIOR BEARING WALLS	3 HR
INTERIOR BEARING WALLS	3 HR
PRIMARY STRUCTURAL FRAME	3 HR
FLOOR CONSTRUCTION	2 HR
ROOF CONSTRUCTION	1 1/2 HR
INTERIOR NON-BEARING WALLS	0 HR

PLUMBING FIXTURE CALCULATIONS: 51 OCCUPANTS: 26 FEMALE / 26 MALE

IPC TABLE 403.1	REQUIRED	PROVIDED
WATER CLOSETS	2 FEMALE / 2 MALE	6 TOTAL
LAVATORIES	1 FEMALE / 1 MALE	6 TOTAL
DRINKING FOUNTAIN	1	1 BOTTLE FILLER
SERVICE SINK	1	1

ACTIVE FIRE SAFETY FEATURES:

- FIRE ALARM SYSTEM - THE FIRE ALARM SYSTEM IS SPECIFIED AS AN ADDRESSABLE TYPE SYSTEM. THE DEVICE TYPE AND LOCATIONS ARE PER THE APPLICABLE CODES AS WELL AS ADA REQUIREMENTS.

- SMOKE CONTROL SYSTEM - ALL DUCTWORK PENETRATING SMOKE RATED WALLS WILL HAVE A SMOKE OR COMBINATION FIRE/SMOKE DAMPER AS INDICATED ON CONSTRUCTION DOCUMENTS. THESE DAMPERS WILL CLOSE UPON DETECTION OF SMOKE BY THE AREA SMOKE DETECTORS OR DUCT SMOKE DETECTORS IN THE AIR HANDLING UNITS.

- FIRE SPRINKLER SYSTEM - SPECIFIED TO BE PER NFPA 13. THE SPRINKLER HEADS ARE SPECIFIED TO BE QUICK RESPONSE TYPE.

- EMERGENCY LIGHTING AND POWER - EMERGENCY LIGHTING, LIFE SAFETY AND CRITICAL LOADS WILL RECEIVE POWER FROM A BACKUP GENERATOR LOCATED OUTSIDE THE MAIN ELECTRICAL ROOM.

- ILLUMINATED EXIT SIGNS

PASSIVE FIRE SAFETY FEATURES:

- SMOKE COMPARTMENTS NO GREATER THAN 22,500 SF

CODE FOOTPRINT LEGEND

PARTITION TYPES

- 0 HR SMOKE PARTITION (SMOKE RESISTIVE)
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 2 HR FIRE SMOKE BARRIER
- 3 HR FIRE BARRIER

AREA DESIGNATIONS

🟨 CORRIDOR
🟩 EXIT ENCLOSURE
🟥 HAZARDOUS ROOM
🟧 SHAFT

BOUNDARY DESIGNATIONS

▨ SMOKE COMPARTMENT
1 HR SMOKE BARRIER
⬜ NOT IN ARCHITECTURAL SCOPE

SYMBOLS

▲ FIRE EXIT
50 OCCUPANT LOAD
36" EXIT WIDTH PROVIDED
12" EXIT WIDTH REQUIRED
FEC ● NEW FIRE EXTINGUISHER CABINET
45 min FIRE DOOR RATING
124' TRAVEL DISTANCE

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
04/17/2025

SAMUEL K. BECKMAN
NUMBER A-2011012130

4/8/2025 09:05:18 AM
Samuel K. Beckman - Architect
License - Missouri #A-2011012130

ACI BOLAND ARCHITECTS
ACI/Boland, Inc.
Kansas City | St. Louis
1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600
Licensee's Certificate of Authority Number:
Missouri: #000958

MEP ENGINEER
HENDERSON ENGINEERS
1600 1091 WEST 84TH TER., SUITE 300
LENEXA, KS 66214
913.894.9720
Licensee's Certificate of Authority Number:
E-556D

SUMMIT GI ADDITION
SAINT LUKE'S EAST
100 NE SAINT LUKE'S BLVD.
LEE'S SUMMIT MO 64086

Date	04/07/25
Job Number	3-24100
Drawn By	BD
Checked By	SB

Revision

Number	Date	Description

A021

FIRST FLOOR CODE FOOTPRINT PLAN

Autodesk Docs://3-24100 SLE Summit GI/3-24100_SLE SUMMIT GI.rvt

UL Product iQ®

UL Solutions

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

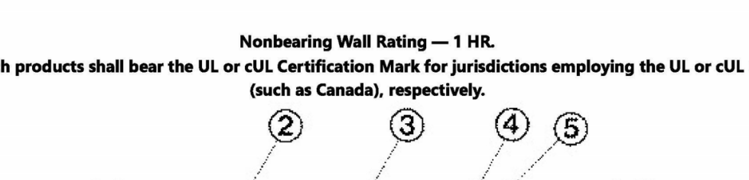
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. **U465**

December 1, 2023

Nonbearing Wall Rating — 1 HR.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Floor and Ceiling Runners —** (Not Shown) — Channel shaped runners, 3-5/8 in. deep (min), 1-1/4 in. legs, formed from min No. 25

1A. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — As an alternate to Item 1 — Channel shaped, min 3-5/8 in. deep, attached to floor and ceiling with fasteners 24 in. OC. max.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

1B. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CEMCO, LLC — Viper20™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

1C. **Floor and Ceiling Runners —** (Not Shown) — For use with Item 2C — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1D. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Items 1 through 1C — For use with Item 2D and 4G only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMFCWBS L L C — ProTRAK

MBA METAL FRAMING — ProTRAK

RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

1E. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Items 1 through 1D — For use with Item 2E and 4I only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
TELLING INDUSTRIES L L C — TRUE-TRACK™

1F. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Items 1 through 1E — For use with Item 2, channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 25 MSG steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
KIRII (HONG KONG) LTD — Type KIRII

1G. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Items 1 through 1F — For use with Item 2, channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide, attached to floor and ceiling with fasteners spaced 24 in. OC max.
STUDCO BUILDING SYSTEMS — CROCSTUD Track

1H. **Floor and Ceiling Runners —** (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.02 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

1I. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Item 1 — For use with Item 2H, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

1J. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Items 1 — For use with Item 2 L, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
RESCUE METAL FRAMING, L L C — AlphaTRAK

1K. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Item 1 — For use with Item 2M, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep, fabricated from min 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max.
CEMCO, LLC — Viper X Track

1L. **Framing Members* — Floor and Ceiling Runners —** Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CRACO MFG INC — SmartTrack20™

1M. **Framing Members* - Floor and Ceiling Runners –** Not shown – In lieu of Items 1 through 1L – For use with Item 2O, proprietary channel shaped runners, min 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 20 MSG galv steel (0.0329 in. min bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max.

PANEL REY S A – SUPRA Track 20/33 mil

1N. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 – For use with Item 2P, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-5/8 in. deep fabricated from min 0.019 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

PANEL REY S A – SUPRA Track 20EQ/19 mil

1O. **Framing Members* — Floor and Ceiling Runner —** (Not Shown — Alternate to Item 1) — For use with Item 2Q, channel shaped runners pre-equipped with proprietary attachment clips. Min. 3-5/8 in. wide. Legs of top runners minimum 3-1/4 in. wide. Legs of bottom runners minimum 1-1/2 in. wide. Runners attached to floor and ceiling with fasteners 24 in. OC max.

HYPERFRAME INC - Hypertrack

1P. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 – For use with Item 2R, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-5/8 in. deep fabricated from min. 20 EQ/22 mils. (min. 0.0221 in. thick) galvanized steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

JJC INTERNATIONAL DISTRIBUTORS — Non-structural Tracks 3-5/8" and 6".

2. **Steel Studs —** Channel shaped, 3-5/8 in. deep (min), formed from min No. 25 MSG galv steel spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly height.

2A. **Framing Members* — Steel Studs —** As an alternate to Item 2 — Channel shaped studs, min 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

2B. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1B, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.
CEMCO, LLC — Viper20™

CRACO MFG INC — SmartStud20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2C. **Steel Studs —** (As an alternate to Item 2, For use with Item 1C) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height. See materials in Item(s) 4 that require Item 2C studs.

2D. **Framing Members* — Steel Studs —** As an alternate to Items 2 through 2C — For use with Item 1D and 4G only, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.
CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD

MBA METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

2E. **Framing Members* — Steel Studs —** As an alternate to Items 2 through 2D — For use with Item 1E and 4I only, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.
TELLING INDUSTRIES L L C — TRUE-STUD™

2F. **Framing Members* — Steel Studs —** As an alternate to Items 2 through 2E — For use with Item 1F, channel shaped studs, min 3-5/8 in. wide fabricated from min 25 MSG steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.
KIRII (HONG KONG) LTD — Type KIRII

2G. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 through 2F — For use with Item 1G. Proprietary channel shaped studs, minimum 3-5/8 in. wide, Studs to be cut 1/2 in. less than the assembly height.
STUDCO BUILDING SYSTEMS — CROCSTUD

2H. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1I, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

2I. **Framing Members* — Steel Studs —** In lieu of Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 3-5/8 in. deep (min), spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly height.
EB METAL INC — NITROSTUD

2J. **Framing Members* — Steel Studs —** In lieu of Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 3-5/8 in. deep (min), spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly height.
OLMAR SUPPLY INC — PRIMESTUD

2K. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1B (3-5/8 in. wide track), channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 1-1/4 in. wide by 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™

2L. **Framing Members* — Steel Studs —** As an alternate to Items 2 — For use with Item 1J, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
RESCUE METAL FRAMING, L L C — AlphaSTUD

2M. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1K, proprietary channel shaped steel studs, min 1-1/4 in. wide by min 3-5/8 in. deep, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/4 in. less in length than assembly height.
CEMCO, LLC — Viper X

2N. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1L, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height.
CRACO MFG INC — SmartStud20™

2O. **Framing Members* - Steel Studs –** Not Shown – In lieu of Items 2 through 2N – For use with Item 1M, proprietary channel shaped steel studs, min 1-5/8 in. wide by min 3-5/8 in. deep fabricated from min 20 MSG galv steel (0.0329 in. min bare metal thickness) spaced 24 in. OC max. Studs cut 3/4 in. less in length than assembly height.

PANEL REY S A – SUPRA Stud 20/33 mil

2P. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 – For use with Item 1N, proprietary channel shaped steel studs, min 1-1/4 in. wide by min 3-5/8 in. deep with 1/4 in. return lips fabricated from min 0.019 in. thick galv steel, spaced 24 in. OC max. Studs cut 3/4 in. less in length than assembly height.

PANEL REY S A – SUPRA Stud 20EQ/19 mil

2Q. **Framing Members* — Steel Studs —** (Not Shown — Alternate to Item 2, For use with Item 1O) — Channel shaped steel studs with attachment clips at top and bottom, min 3-5/8 in. depth, spaced a max of 24 in. OC. Studs clipped into floor and ceiling runners (Item 1O). Max 2-3/8 in. extension reveal from top of stud to inside of ceiling runner.

HYPERFRAME INC— Hyperstud

2R. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 – For use with Item 1P, proprietary channel shaped steel studs, min 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min. 20 EQ/22 mils. (min. 0.0221 in. thick) galvanized steel, spaced 24 in. OC max. Studs cut 3/4 in. less in length than assembly height.

JJC INTERNATIONAL DISTRIBUTORS — Non-structural Studs 3-5/8" and 6".

3. **Batts and Blankets* —** (Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity.
See **Batts and Blankets** (BZJZ) category for names of Classified companies.

ROCKWOOL — Type AFB, min. density 1.69 pcf / 27.0 kg/m^3

ROCKWOOL MALAYSIA SDN BHD — Type Acoustical Fire Batts

3A. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 3) — (100% Borate Formulation) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft^3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft^3, in accordance with the application instructions supplied with the product.
Applegate Greenfiber Acquisition LLC — Insulmax and SANCTUARY for use with wet or dry application.

3B. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 3) — Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.
NU-WOOL CO INC — Cellulose Insulation

3C. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 3) — Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft^3.
INTERNATIONAL CELLULOSE CORP — Celbar-RL

3D. **Batts and Blankets* —** For use with Item 8. Nom 3 in. thick, minimum 3.4 pcf mineral wool batts, friction fit between the studs and floor and ceiling runners.
See **Batts and Blankets** (BZJZ) category for names of manufacturers.

3E. **Batts and Blankets* —** For use with Item 4R and 4S. Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.
See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

3F. Deleted.
3G. **Foamed Plastic*** — As an alternate to Batts and Blankets (Item 3), for use with Item 4U — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. When foamed plastic is used, minimum stud depth shall be 3-1/2 in.

CARLISLE SPRAY FOAM INSULATION — Types SealTite ONE, SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

3H. **Foamed Plastic*** — As an alternate to Batts and Blankets (Item 3), for use with Item 4W — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with min. 20 MSG thickness.

BASF CORP - Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite® HP+, FE137®, FE158®, Spraytite® 158, Spraytite® SP, Spraytite® 81205, Spraytite® Comfort XL, and Walltite® XL

4. **Gypsum Board* —** 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When Steel Framing Members* (Item 6 or any alternate clips) are used, gypsum board is screw attached to furring channels with 1 in. long, Type S steel screws spaced 12 in. OC.

AMERICAN GYPSUM CO — Types AG-C, AGX-1, M-Glass, LightRoc

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1

CABOT MANUFACTURING ULC — Type X, 5/8 Type X, Type Blueglass Exterior Sheathing

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX)

CERTAINTEED GYPSUM INC — Types EGRG, GlasRoc, Type X-1, Type C, 5/8" Easi-Lite Type X, Easi-Lite Type X-2, Type LWTX

CERTAINTEED GYPSUM INC — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD, LGLLX

GEORGIA-PACIFIC GYPSUM L L C — Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPFS6, LS, Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, TG-C, GreenGlass Type X, Type X ComfortGuard Sound Deadening Gypsum Board, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Veneer Plaster Base-Type DGLW, Water Rated-Type DGLW, Sheathing Type-DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X, Sheathing - Type LW2X, Soffit - Type LW2X, Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type DGL2W

NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSMR-C, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, FSW-8, FSL, RSX.

NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — Type FR, or WR

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-C, PG-9, PG-11, PGS-WRS, PGI

PANEL REY S A — Types GREX, GRIX, PRC, PRC2, PRX, RHX, MDX, ETX, PRX2

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1

THAI GYPSUM PRODUCTS PCL — Type X and Type C, M2Tech Type C

UNITED STATES GYPSUM CO — Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC, WRX, (Joint tape and compound, Item 5, optional for use with Type USGX)

USG BORAL DRYWALL SFZ LLC — Types C, SCX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX)

USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX)

4A. **Gypsum Board* —** (As alternate to Item 4) — Nom 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Panels attached to steel studs and floor runner with 1 in. long Type S steel screws spaced 8 in. OC when applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally. When using ULIX, panels need not be staggered in horizontal applications and screw spacing can be increased to 12 in. OC in field and perimeter.
CERTAINTEED GYPSUM INC — Type X-1, Type C, Type EGRG/ GlasRoc, Type GlasRoc-2, Type SilentFX, Easi-Lite Type X-2

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX)

CERTAINTEED GYPSUM INC — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD

GEORGIA-PACIFIC GYPSUM L L C — Types DAP, DAPC, DGG, DS

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air

THAI GYPSUM PRODUCTS PCL — Type X and Type C, M2Tech Type C

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC, WRX (Joint tape and compound, Item 5, optional for use with Type USGX)

USG BORAL DRYWALL SFZ LLC — Types C, SCX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX)

USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX)

4B. **Gypsum Board* —** (As an alternate to Items 4 or 4A) — Nom 3/4 in. thick, 4 ft wide, installed as described in Item 4A with screw length increased to 1-1/4 in.
CGC INC — Types AR, IP-AR

UNITED STATES GYPSUM CO — Types AR, IP-AR

USG MEXICO S A DE C V — Types AR, IP-AR

4C. **Gypsum Board* —** As an alternate to Items 4, 4A, and 4B — Nom. 5/8 in. thick gypsum panels, with square edges, applied horizontally. Gypsum panels fastened to framing with 1 in. long bugle head steel screws spaced a max 8 in. OC, with last 2 screws 3/4 in. and 4 in. from each edge of board. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs on interior walls need not be staggered or backed by steel framing.
GEORGIA-PACIFIC GYPSUM L L C — Type DGG, GreenGlass Type X

4D. **Gypsum Board* —** As an alternate to Items 4, 4A, 4B, 4C, 4G — Nom. 5/8 in. thick gypsum panels applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Gypsum panels fastened to framing with 1 in. long Type S steel screws 12 in. OC along vertical edges and in the field, and12 in. along the top and bottom of the wall. When used in widths other than 48 in., gypsum panels to be installed horizontally. When studs (Item 2) spaced a max 16 in. OC, 5/8 in. thick gypsum panels applied vertically or horizontally, 1 in. long spaced 16 in. OC along vertical edges and in the field, and 16 in. OC along top and bottom of wall.
NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, FSMR-C

4E. **Gypsum Board* —** (As an Alternate to Items 4 through 4D) – Installed as described in item 4. 5/8 in. thick, 4 ft wide, applied vertically only and fastened to the studs and plates with 1 in. long Type S steel screws spaced 12 in. OC. When studs (Item 2) spaced a max 16 in. OC, 5/8" in. thick gypsum panels applied vertically or horizontally with 1 in. long Type S steel screws spaced 16 in. OC along vertical edges and in the field, and 16 in. OC along top and bottom of wall.
NATIONAL GYPSUM CO — Type SBWB

4F. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.
RAY-BAR ENGINEERING CORP — Type RB-LBG

4G. **Gypsum Board* —** (As an alternate to Items 4 through 4F) — For use with Items 1D and 2D only, 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When using Types eXP-C, FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, FSMR-C and ULIX, panels need not be staggered in horizontal applications and screw spacing can be increased to 12 in. OC in field and perimeter.
CGC INC — Type SCX, ULIX

CERTAINTEED GYPSUM INC — Type LGFC6A, LGFC-C/A

NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, and FSMR-C

UNITED STATES GYPSUM CO — Type SCX, ULIX

USG BORAL DRYWALL SFZ LLC — Type SCX

4H. **Gypsum Board* —** (As an alternate to Items 4 through 4G) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES

4I. **Gypsum Board* —** (As an alternate to Items 4 through 4F) — 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When using ULIX, panels need not be staggered in horizontal applications and screw spacing can be increased to 12 in. OC in field and perimeter. When using ULIX, panels need not be staggered in horizontal applications and screw spacing can be increased to 12 in. OC in field and perimeter.
CGC INC — Types SCX, ULIX

UNITED STATES GYPSUM CO — Types SCX, ULIX

USG BORAL DRYWALL SFZ LLC — Type SCX

4J. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A).
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4K. **Gypsum Board* —** (As an alternate to Item 4 and 4A, not for use with Items 1D, 1E, 2D and 2E) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 4 and 4A.
CGC INC — Type ULX

UNITED STATES GYPSUM CO — Type ULX

USG MEXICO S A DE C V — Type ULX

4L. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

4M. **Gypsum Board* —** (For use with Item 8) — 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 8) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 8). Secured to outermost studs and floor and ceiling runners with 2 in. long Type S screws spaced 8 in. OC. Gypsum Board joints covered with paper tape and joint compound. Screw heads covered with joint compound.
AMERICAN GYPSUM CO — Type AG-C

CERTAINTEED GYPSUM INC — Type C

CGC INC — Types C, IP-X2, IPC-AR

CERTAINTEED GYPSUM INC — Type LGFC-C/A

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C

NATIONAL GYPSUM CO — Types eXP-C, FSK-C, FSW-C

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C

PANEL REY S A — Types PRC, PRC2

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air

THAI GYPSUM PRODUCTS PCL — Type C, M2Tech Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

4N. **Wall and Partition Facings and Accessories* —** (As an alternate to Item 4) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527

4O. **Gypsum Board* —** As an alternate to Items 4, 4A, 4B, and 4C — Two layers Nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Horizontal joints on the same side need not be staggered. When applied horizontally, both layers of gypsum board fastened to each side of framing with 1 in. long Type S steel screws spaced 8 in. OC and staggered 4 in. OC between layers. When applied vertically, both layers of gypsum board fastened to each side of framing with 1 in. long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field, staggered 4 in. OC between layers. Screws spaced a max 12 in. along the top and bottom edges of the wall.
NATIONAL GYPSUM CO — Type FSW

4P. **Gypsum Board* —** As an alternate to Item 4. Nom 5/8 in. thick, 4 ft wide, Nom 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Panels attached to steel studs and runners with 1 in. long Type S steel screws spaced 12 in. OC when applied horizontally or vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally.
CGC INC — Type ULIX

UNITED STATES GYPSUM CO — Types ULIX

4Q. **Gypsum Board* —** 3/4 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track as described in Item 4 with screw length increased to min. 1- 1/8 in.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-13

4R. **Gypsum Board* —** As an alternate to Item 4D. For use with Item 3E, **Batts and Blankets*** — 5/8 in. thick, 4 ft wide, installed as described in Item 4. When studs (Item 2) spaced a max 16 in. OC, 5/8 in. thick gypsum panels applied vertically or horizontally, 1 in. long spaced 16 in. OC along vertical edges and in the field, and 16 in. OC along top and bottom of wall.
NATIONAL GYPSUM CO — Type FSLX.

4S. **Gypsum Board* —** As an alternate to Item 4. For use with Item 3E, **Batts and Blankets*** — 5/8 in. thick, 4 ft wide, installed as described in Item 4A.
CERTAINTEED GYPSUM INC — Type CLLX.

4T. **Wall and Partition Facings and Accessories* —** (As an alternate to 5/8 in. thick board as outlined in Item 4) — Nominal 1-3/8 in. thick, 4 ft wide panels, applied vertically or horizontally. Fastened with #6 x 2 in. long drywall screws spaced 8 in. OC along the perimeter and 12 in. OC in the field.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 545

4U. **Gypsum Board***— (As an alternate to Item 4 when Foam Plastic insulation Item 3G is used) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 4 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1 in. long Type S steel screws spaced 8 in. OC at perimeter and in the field. For 2 layer assemblies outer layer will be attached to studs over inner layer with the 1-5/8 in. long steel screws spaced 8 in. OC.

4V. **Gypsum Board* —** (As an alternate to Item 4, for 1 hr. rating) — Nom. 5/8 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Gypsum panels fastened to framing with 1 in. long Type S steel screws 12 in. OC along vertical edges and in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall for both vertical and horizontal applications.

CERTAINTEED GYPSUM INC — Type X-1, SilentFX, GlasRoc, Type C

4W. **Gypsum Board***— (As an alternate to Item 4 when Foam Plastic insulation Item 3H is used) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 4 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-1/4 in. long Type S steel screws spaced 8 in. OC at perimeter and in the field.

5. **Joint Tape and Compound —** Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges.

6. **Resilient Channel —** (Optional — Not Shown) — 25 MSG galv steel resilient channels spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with 1/2 in. long type S-12 pan head steel screws. May not be used with Item 4F, 4J or 4L.

6A. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Not for use with Items 4F, 4J, or 4L.

b. **Framing Members* —** Used to attach furring channels (Item a) to studs (Item 2). Clips spaced 48 in. OC., and secured to studs with 1-5/8 in. wafer or hex head Type S steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75)

6B. **Framing Members* — —** (Optional on one or both sides, Not Shown, As an alternate to Item 6) — Furring channel and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J, or 4L.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6Ba) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
PLITEQ INC — Type Genie Clip

6C. **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J, or 4L.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6Ca) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

6D. **Steel Framing Members* —** (Optional, Not Shown As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6Db. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J, or 4L.

b. **Steel Framing Members* —** UUsed to attach furring channels (Item 6Da) to studs. Clips spaced 48 in. OC, and secured to studs with No.8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

6E. **Steel Framing Members* —** (Optional, Not Shown As an alternate to Item 6) — Resilient channels and Steel Framing Members as described below:
a. **Resilient Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4. Not for use with Items 4F, 4J, or 4L.

b. **Steel Framing Members* —** Used to attach resilient channels (Item 6Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

6F **Steel Framing Members* —** (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below:
a **Furring Channels —** Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 4.

b **Steel Framing Members* —** Used to attach furring channels (Item 6Fa) to studs. Clips spaced maximum 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.

CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

6F. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J, or 4L.

b. **Steel Framing Members* —** Used to attach furring channels (Item 6Fa) to studs. Clips spaced 48 in. OC., and secured to studs with No. 10 x 2 in. screw through the center hole. Furring channels are friction fit into clips.
MASON INDUSTRIES INC — Type CWC-50

7. **Wall and Partition Facings and Accessories* —** (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the steel framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510

8. **Mineral and Fiber Board* —** (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling runners with 1-5/8 in. long Type S steel screws, spaced 12 in. OC and 24 in. OC along all intermediate framing. The required UL Classified gypsum board layer (Item 4M) is to be installed over the Mineral and Fiber Boards. Batts and Blankets, Item 3D, and Adhesive, Item 11, are required.
HOMASOTE CO — Homasote Type 440-32

8A. **Mineral and Fiber Board —** (Optional, Not Shown) — For optional use as an additional layer on one side of wall - Nom 1/2 in. thick, 4 ft wide, square edge fiber boards applied vertically to studs on one side of the wall in between the wood studs and the UL Classified Gypsum Board (Item 4). Fiber boards installed with 1-1/4 in. long, Type S steel screws spaced 12 in. OC max, with the last screws spaced 2 in. and 6 in. from edge of board. Gypsum board (Item 4) installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. Not evaluated for use with Item 4M.
BLUE RIDGE FIBERBOARD INC — SoundStop

8B. **Mineral and Fiber Board* —** (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling runners with 1-5/8 in. long Type S steel screws, spaced 12 in. OC and 24 in. OC along all intermediate framing. The required UL Classified gypsum board layer is to be installed over the Mineral and Fiber Boards and secured to studs with length of fasteners increased by 1/2 in. over the length specified for installation of the gypsum boards. Batts and Blankets, Item 3, are optional unless otherwise required. Not for use with Items 4F, 4J, 4L, and 4M.
HOMASOTE CO — Homasote Type 440-32

9. **Lead Batten Strips —** (Not Shown, For Use With Item 4E) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum board (Item 4E) and optional at remaining stud locations. Required behind vertical joints.

9A. **Lead Batten Strips —** (Not Shown, for use with Item 4J) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4J) and optional at remaining stud locations.

10. **Lead Discs or Tabs —** (Not Shown, For Use With Item 4E) — Used in lieu of or in addition to the lead batten strips (Item 8) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4E) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

10A. **Lead Discs —** (Not Shown, for use with Item 4J) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

11. **Adhesive —** Not Shown — (For use with Item 8) — Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 8).

12. **Wall and Partition Facings and Accessories* —** (CLBV) (Optional, Not Shown) — For use with Items 1 to 1I, Items 2 to 2J, Item 3, Items 4 to 4I, Item 5 and Item 6. For maximum fire rating of 1 hour. On one side of the wall, over the first layer of Gypsum Board (Item 4 to Item 4I), install RefleXor membrane with the gold side facing outwards. Membrane installed with T50 staples spaced 12 inches on center in both directions as per manufacturer's instructions, seams in membrane to be overlapped by 2 inches. When RefleXor membrane is used an additional layer of Gypsum Board that is identical to the one used in the first layer and as specified in Item 4 to Item 4I shall be installed over the membrane. The additional layer of Gypsum Board to be installed through the membrane to the stud as specified in Item 4 to Item 4I except the fastener length shall be increased by a minimum of 5/8 inch. Install Batts and Blankets in the stud cavity as per Item 3.

On the other side of the wall, prior to the installation of the Gypsum Board, install Resilient Channels as per Item 6. Over the Resilient Channels install 3/4 inch thick SONOpan panel secured to the Resilient Channels with min. 1-1/4 in. long drywall screws and washers spaced at 16 in. OC on the perimeter of the panel and 8 in. OC in the field of the panel. Over the SONOpan panel install the same Gypsum Board as specified in Item 4 to Item 4I with the fastener length increased by minimum 3/4 inch. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

Alternately, on the other side of the wall prior to the installation of the Gypsum Board, install 3/4 in. thick SONOpan panels, secured to one side of studs either horizontally or vertically. Panels secured to each stud with min. 1-1/4 in. long drywall screws spaced 12 in. OC. Over the SONOpan, install 25 MSG galv steel, Resilient Channels, spaced vertically 24 in. OC. Resilient Channels fastened through panels to each stud with min. 2 in. long drywall screws or self-tapping screws. Over the Resilient Channels install Gypsum Board as specified in Item 4 to Item 4I with the specified drywall screws. Panels not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

MSL — RefleXor membrane, SONOpan panel

13. **Barrier Mesh —** (Optional, Not Shown) - Attached to steel studs on one or both sides of the wall using Barrier Mesh Clips spaced at maximum 12 inches on center vertically, using a flat head type screw penetrating through the steel at least 3/8 of an inch. For Steel Studs less than 0.033 inches in thickness, use self-piercing screws. For Steel Studs equal to or greater than 0.033 inches in thickness, use steel drill screws (self-tapping). Gypsum Board (Item 4) to be installed directly over the Barrier Mesh using prescribed screw patterns with lengths increased by a minimum 1/8 in. Barrier Mesh may be installed with the long dimension of the diamond pattern positioned vertically or horizontally. Barrier Mesh joints may occur as butt joints at the framing members and secured using the Barrier Mesh Clips or occur in between framing members as overlapping joints secured using 18 SWG wire ties spaced a maximum 12 in. on center.
CLARKDIETRICH BUILDING SYSTEMS — Barrier Mesh, Barrier Mesh Clips

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Last Updated on 2023-12-01

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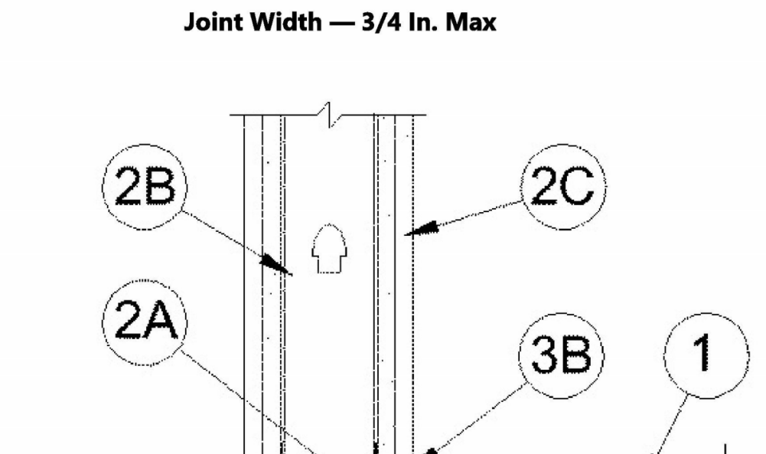
XHBN - Joint Systems

See General Information for Joint Systems

System No. BW-S-0003

November 18, 2008

Assembly Ratings — 1 and 2 Hr (See Item 2)
L Rating At Ambient — Less Than 1 CFM/Lin Ft (See Item 3B)
L Rating At 400°F — Less Than 1 CFM/Lin Ft (See Item 3B)
Joint Width — 3/4 In. Max



1. **Floor Assembly —** Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) structural concrete. Floor may also be constructed of any 6 in. (152 mm) thick UL Classified hollow-core **Precast Concrete Units***.
See **Precast Concrete Units** category in the Fire Resistance Directory for names of manufactures.

2. **Wall Assembly —** The 1 or 2 h fire-rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall or Partition Design in the UL Fire Resistance Directory. In addition, the wall may incorporate a head-of-wall joint system constructed as specified in the HW Series Joint Systems in the UL Fire Resistance Directory. The wall shall include the following construction features:
A. **Steel Floor Runner —** Floor runners of wall assembly shall consist of min No. 25 gauge galv steel channels sized to accommodate steel studs (Item 2B). Floor runners to be provided with min 1-1/4 in. (32 mm) flanges. Runners secured with steel fasteners spaced 12 in. (305 mm) OC.

B. **Studs —** Steel studs to be min 3-1/2 in. (89 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in, resting on and fastened to floor runner with sheet metal screws. Stud spacing not to exceed 24 in. (610 mm) OC.

C. **Gypsum Board* —** Gypsum board installed to a min total thickness of 5/8 in. (16 mm) or 1-1/4 in. (32 mm) on each side of wall for a 1 or 2 hr fire rated wall, respectively. Wall to be constructed as specified in the individual U400 or V400 Series Design in the UL Fire Resistance Directory except that a max 3/4 in. (19 mm) gap shall be maintained between the bottom of the gypsum board and the top of the concrete floor.
The hourly fire rating of the joint system is equal to the hourly fire rating of the wall.

3. **Joint System — Max separation between top of floor and bottom of gypsum board is 3/4 in. (19 mm).** The joint system consists of a packing material and a fill material, as follows:
A. **Packing Material —** (Optional, Not Shown) - Mineral wool batt insulation, polyethylene backer rod or glass fiber insulation firmly packed into the gap between the bottom of the gypsum board and the top of the concrete floor and recessed from each surface of the wall to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Material*-Sealant —** Min 1/2 in. (13 mm) thickness of fill material installed on each side of the wall between the bottom of the gypsum board and the top of the concrete floor, flush with each surface of the wall. When mineral wool batt insulation is used as a packing material, min thickness of fill material on each side of the wall is 1/4 in. (6 mm).
SPECIFIED TECHNOLOGIES INC — SpecSeal ES Sealant, SpecSeal LCI Sealant, SpecSeal LC150 Sealant, Pensil 300 Sealant or SpecSeal Series SIL300.

Note: L Ratings apply when SpecSeal ES Sealant is used.

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Last Updated on 2008-11-18

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- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHBN - Joint Systems
XHBN7 - Joint Systems Certified for Canada

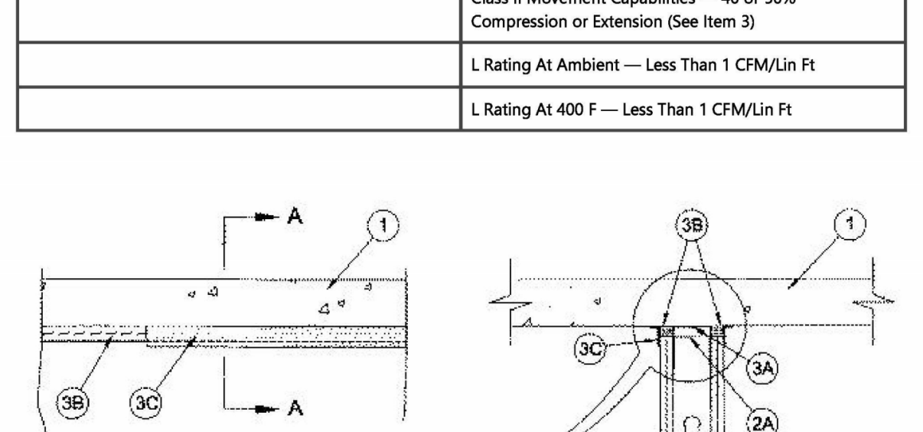
See General Information for Joint Systems

See General Information for Joint Systems Certified for Canada

System No. HW-D-0044

June 21, 2023

ANSI/UL2079	CAN/ULC S115
Assembly Ratings — 1, 2, 3 and 4 Hr (See Item 2)	F Ratings — 1, 2, 3, and 4 Hr (See Item 2)
Nominal Joint Widths — 1-1/2 and 2-1/2 In. (See Item 3)	FT Ratings — 1, 2, 3, and 4 Hr (See Item 2)
Class II Movement Capabilities — 40 or 50% Compression or Extension (See Item 3)	FH Ratings — 1, 2, 3, and 4 Hr (See Item 2)
L Rating At Ambient — Less Than 1 CFM/Lin Ft	FTH Ratings — 1, 2, 3, and 4 Hr (See Item 2)
L Rating At 400 F — Less Than 1 CFM/Lin Ft	Nominal Joint Widths — 1-1/2 and 2-1/2 In. (See Item 3)
	Class II Movement Capabilities — 40 or 50% Compression or Extension (See Item 3)
	L Rating At Ambient — Less Than 1 CFM/Lin Ft
	L Rating At 400 F — Less Than 1 CFM/Lin Ft



1. **Floor Assembly —** Min 4-1/2 in. (114 mm) thick steel-reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) structural concrete.

2. **Wall Assembly —** 1, 2, 3 or 4 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
A. **Steel Floor and Ceiling Runners —** Floor and ceiling runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs (Item 2B). When deflection channel (Item 3A) is used, flange height of ceiling runner is to be equal to or greater than flange height of deflection channel and the ceiling runner is to nest within the deflection channel with a 3/4 to 1 in. (19 to 25 mm) gap maintained between the top of the ceiling runner and the top of the deflection channel. When deflection channel is not used, flange height of ceiling runner shall be min 3/4 in. (19 mm) greater than nom joint width. Ceiling runner is secured to concrete floor slab with steel masonry anchors spaced max 24 in. (610 mm) OC.

A1. **Light Gauge Framing* — Slotted Ceiling Runner —** When nom joint width is less than or equal to 1-3/4 in. (45 mm), slotted ceiling runner may be used as an alternate to the ceiling runner in Item 2A. Slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Ceiling runner secured to concrete floor slab with steel masonry anchors spaced max 24 in. (610 mm) OC. When slotted ceiling runner is used, deflection channel (Item 3A) shall not be used.
BRADY CONSTRUCTION INNOVATIONS INC, DBA SLIPTRACK SYSTEMS — SLP-TRK

CEMCO, LLC — CST

CLARKDIETRICH BUILDING SYSTEMS — Type SLT, SLT-H

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Type SLT

METAL-LITE INC — The System

RAM SALES L L C — RAM Slotted Track

SCAFCO STEEL STUD MANUFACTURING CO

TELLING INDUSTRIES L L C — True-Action Deflection Track

A2. **Light Gauge Framing* — Vertical Deflection Ceiling Runner —** When nom joint width is less than or equal to 1 in. (25 mm), vertical deflection ceiling runner may be used as an alternate to the ceiling runner in Items 3A and 3A1., Vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clips, provided with step bushings, for permanent fastening of steel studs. Vertical deflection ceiling runner secured to concrete floor slab with steel masonry anchors spaced max 24 in. (610 mm) OC. When vertical deflection ceiling runner is used, deflection channel (Item 4A) shall not be used.

A3. **Light Gauge Framing* — Notched Ceiling Runner —** As an alternate to the ceiling runners in Items 2A through 2A3, notched ceiling runners to consist of C-shaped galv steel channel with notched return flanges sized to accommodate steel studs (Item 2B). Notched ceiling runner secured to concrete floor slab with steel masonry anchors spaced max 24 in. (610 mm) OC. When notched ceiling runner is used, deflection channel (Item 3A) shall not be used.
OLMAR SUPPLY INC — Type SCR

A4. **Light Gauge Framing* — Vertical Deflection Clip* —** (Optional) — Steel clips can be used in conjunction with steel studs (Item 2B), ceiling runner (Item 2A) or deflection channel (Item 3A). Clips installed over the top of studs and inserted within the ceiling runner or deflection channel. Clip shall be secured to the ceiling runner or deflection channel with No. 8 self drilling, self tapping steel fasteners through holes provided within the clip. Clip may be secured to the stud with No. 6 pan head steel screw through holes provided within the clip. As an alternate, the legs of the clip may be installed over the top of the stud without attachment in accordance with manufacturer's installation instructions.
FLEX-ABILITY CONCEPTS L L C — Three Legged Dog Deflection Clip

A5. **Steel Framing Members* — Sound Isolation Clips —** (Not Shown, For Max 2 Hr Rating) — As an alternate attachment means for the ceiling runner to the underside of the floor when no deflection channel (Item 3A) is used, sound isolation clips installed in accordance with the accompanying installation instructions. Sound isolation clip installed through nom 1 in. (25 mm) diam hole in ceiling runner and attached to top of ceiling runner using four min No. 8 by 1/2 in. (13 mm) long self-tapping galv steel screws. Sound isolation clips to be installed adjacent to every stud location but not more than 24 in. (610 mm) OC and attached to the underside of floor assembly using min 3/16 in. (5 mm) diam by 2-1/2 in. (64 mm) long steel masonry anchors.
PAC INTERNATIONAL L L C — Type RSIC-U-HD

B. **Studs —** Steel studs to be min 3-1/2 in. (89 mm) wide. Studs cut 1/2 to 1 in. (13 to 25 mm) less in length than assembly height with bottom nesting in and secured to floor runner. When deflection channel (Item 3A) is used, steel studs attached to ceiling runner (Item 2A) with sheet metal screws located 1/2 in. (13 mm) below the bottom to the deflection channel. When deflection channel is not used, studs to nest in ceiling runner without attachment. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at mid-height of slot on each side of wall. When vertical deflection ceiling runner (Item 2A2) is used, steel studs secured to slotted vertical deflection clips, through the bushings, with steel screws at mid-height of each slot. Stud spacing not to exceed 24 in. (610 mm) OC.

C. **Gypsum Board* —** Gypsum board sheets installed to a min total 5/8 in., 1-1/4 in., 1-1/2 in. or 2 in. (16, 32, 38 or 51 mm) thickness on each side of wall for 1, 2, 3 or 4 hr rated assemblies, respectively. Wall to be constructed as specified in the individual U400, V400 or W400 Series Design in the UL Fire Resistance Directory, except that a max 1 or 2-1/2 in. (25 or 64 mm) gap (See Item 3) shall be maintained between the top of the gypsum board and the lower surface of the floor . The screws attaching the gypsum board to the studs along the top of the wall shall be located 1 in. (25 mm) below the bottom of the ceiling runner. No gypsum board attachment screws shall be driven into the ceiling runner or into the optional deflection channel.
The hourly fire rating of the joint system is equal to the hourly fire rating of the wall.

3. **Joint System — Max separation between bottom of floor and top of gypsum board (at time of installation of joint system) is 2-1/2 in. (64 mm) for 1 and 2 hr ratings and 1 in. (25 mm) for 3 and 4 hr ratings. The joint system is designed to accommodate a max 50 percent compression or extension from its installed width for max 1-1/2 in. (38 mm) wide joints and a max 40 percent compression or extension from its installed width for max 2-1/2 in. (64 mm) wide joints.** The joint system shall consist of forming and fill materials, with or without a deflection channel (Item 3A), as follows:
A. **Deflection Channel —** (Optional) — Max 3 in. (76 mm) deep min 24 gauge galv steel channel sized to accommodate ceiling runner (Item 2A). Deflection channel secured to concrete floor slab with steel masonry anchors spaced max 24 in. (610 mm) OC. The ceiling runner (Item 2A) is installed within the deflection channel to maintain a 1/2 to 3/4 in. (13 to 19 mm) gap between the top of the ceiling runner and the top of the deflection channel. The ceiling runner nests inside the deflection channel without attachment.

B. **Forming Material* —** Sections of min 4 pcf (64 kg/m^3) density mineral wool batt compressed 50 percent in thickness and installed cut edge first to completely fill the gap between the top of the gypsum board and the bottom of the concrete floor. When sound isolation clips (Item 2A6) are used, the space between the top of the ceiling runner and the underside of the floor shall be tightly packed with mineral wool batt insulation. The forming material shall be installed flush with both surfaces of wall.
INDUSTRIAL INSULATION GROUP L L C — MinWool-1200 Safing

ROCK WOOL MANUFACTURING CO — Delta Board

ROCKWOOL MALAYSIA SDN BHD — Safe

ROCKWOOL — Safe

THERMAFIBER INC — SAF

C. **Fill, Void or Cavity Material* — Sealant —** Min 1/16 in. (1.6 mm) dry thickness (1/8 in. or 3.2 mm wet thickness) of fill material spray applied on each side of the wall between the top of the wall and the bottom of the floor, and overlap a min 1/2 in. (13 mm) onto gypsum board on both sides of wall. Additional 1/16 in. (1.6 mm) dry thickness (1/8 in. or 3.2 mm wet thickness) of fill material shall overlap a min 1/2 in. (13 mm) onto the floor on both sides of wall.
SPECIFIED TECHNOLOGIES INC — SpecSeal AS200 Elastomeric Spray

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As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
04/17/2025

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4/8/2025 09:05:25 AM
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Licensee's Certificate of Authority Number:
E-556D

SUMMIT GI ADDITION
SAINT LUKE'S EAST
100 NE SAINT LUKE'S BLVD.
LEE'S SUMMIT MO 64086

Date	04/07/25
Job Number	3-24100
Drawn By	BD
Checked By	SB

Revision

Number	Date	Description

A040

UL FIRE RESISTANCE DESIGNS

GENERAL DEMOLITION NOTES

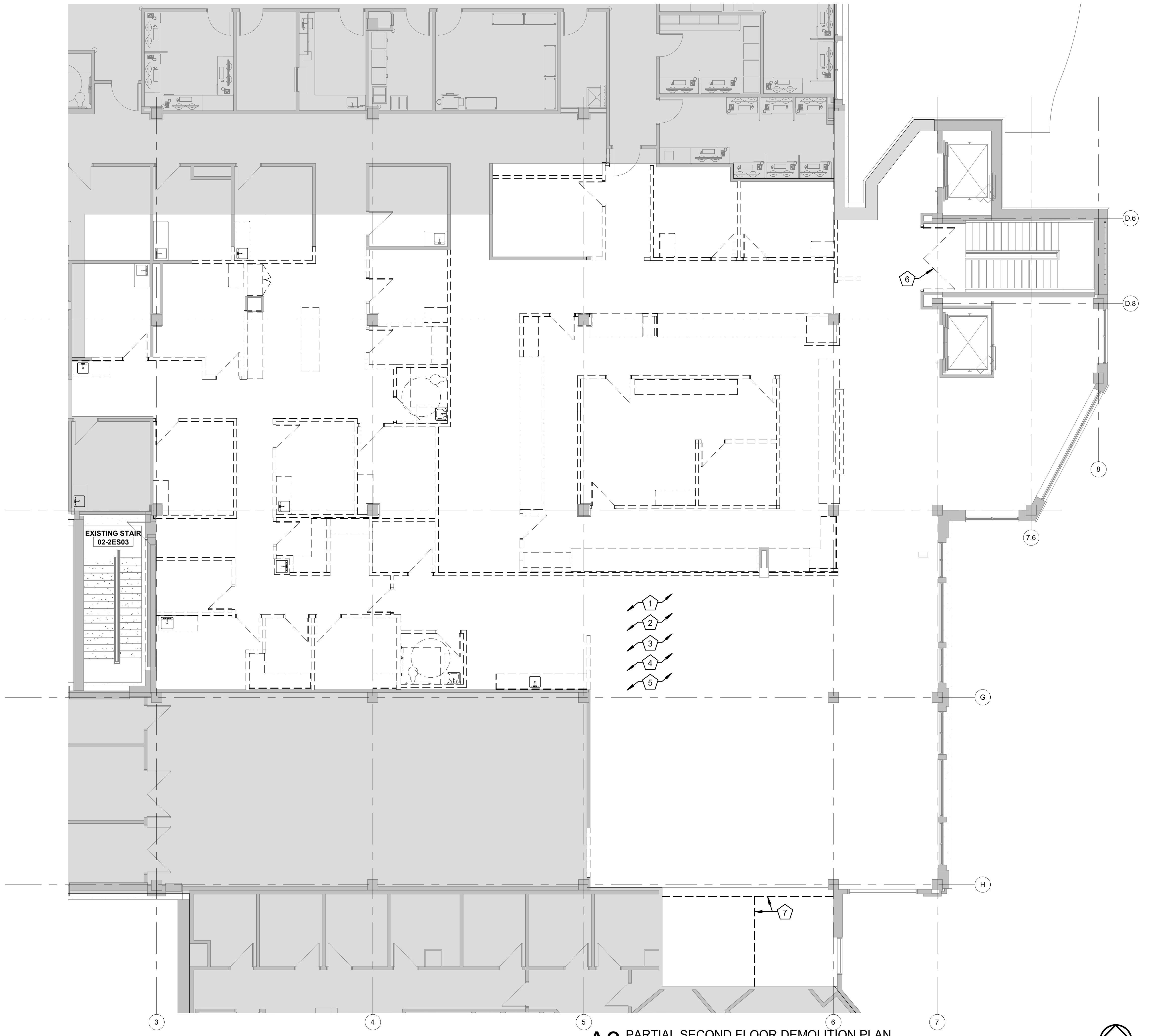
1. THE OWNER SHALL VACATE THE EXISTING ROOMS AS INDICATED ON THE PLAN AND BE RESPONSIBLE FOR THE REMOVAL OF ANY EQUIPMENT NOT OTHERWISE DESIGNATED PRIOR TO ANY WORK DONE BY THE CONTRACTOR.
2. INSTALL TEMPORARY DUST PARTITION AND/OR BARRIERS AND OTHER METHODS AS MAY BE REQUIRED/NECESSARY AS INDICATED ON THE PLAN AND AS NECESSARY TO CONTAIN DEMOLITION/ CONSTRUCTION DUST AND DEBRIS WITHIN THE AREA OF CONSTRUCTION. REFER TO DUST PARTITION "DP" ON THIS SHEET AND THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. IT IS THE INTENT OF THIS DEMOLITION TO REMOVE ALL EXISTING CONSTRUCTION WHICH CONFLICTS WITH THE INTENT OF THE NEW CONSTRUCTION. EVERY DEMOLITION DETAIL MAY NOT NECESSARILY BE COVERED ON THESE DRAWINGS. FIELD VERIFY THE EXTENT OF ALL DEMOLITION.
4. THE CONTRACTOR SHALL USE EXTREME CARE IN THE PROTECTION OF ALL ADJACENT AREAS FOR IT IS IMPERATIVE TO PROVIDE CONTINUOUS OPERATION OF ALL OCCUPIED AREAS DURING THE DEMOLITION, CONSTRUCTION AND RENOVATION.
5. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITHIN OCCUPIED SPACES ABOVE, BELOW AND ADJACENT TO THE WORK, THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE MANAGEMENT OF THE OCCUPIED SPACES ABOVE, BELOW, AND ADJACENT TO THE WORK, TWO WEEKS PRIOR TO COMMENCING WORK. SUCH SPACES ARE TO REMAIN OCCUPIED DURING DEMOLITION AND ALL WORK SHALL BE PERFORMED IN SUCH A MANNER TO MINIMIZE DISRUPTION TO OCCUPIED SPACES. EXISTING FLOOR, WALL AND CEILING FINISHES TO REMAIN SHALL BE PROTECTED AND ANY DAMAGE DONE AS A RESULT OF DEMOLITION WORK SHALL BE REPAIRED.
6. WHERE NEW FINISHES ARE CALLED FOR, REMOVE AND DISCARD EXISTING FLOORING, CEILINGS AND WALL COVERING THROUGH-OUT AREA DESIGNATED FOR NEW CONSTRUCTION AND PREP EXISTING FLOOR AND WALL SUBSTRATE TO RECEIVE THE INSTALLATION OF NEW FINISH AS SCHEDULED.
7. SEE NEW WORK PLAN FOR REPAIR AND PREPARATION OF ADJACENT SURFACES.
8. WHERE CEILING IS TO REMAIN, REMOVE ALL DAMAGED CEILING PANELS/ TILES AND REPLACE WITH NEW TO MATCH EXISTING.
9. REMOVE EXISTING PLUMBING FIXTURES AS NOTED. CAP ALL SUPPLY AND WASTE LINES AS REQUIRED. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
10. THE CONTRACTOR SHALL PATCH TO MATCH ADJACENT SURFACES OF EXISTING WALLS. FLOOR, AND CEILINGS IN ALL AREAS THAT REQUIRE THE REMOVAL OF GENERAL MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION WORK AND OF EQUIPMENT AND FIXTURES.
11. IF REMOVAL OR ABANDONMENT OF UTILITY SERVICES WILL AFFECT ADJACENT OCCUPIED BUILDINGS, THEN PROVIDE TEMPORARY UTILITIES THAT BYPASS BUILDINGS AND STRUCTURES TO BE DEMOLISHED AND THAT MAINTAIN CONTINUITY OF SERVICE TO OTHER BUILDINGS AND STRUCTURES.
12. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR WORK REQUIRED FOR NEW CONSTRUCTION.
13. REMOVE, CAP OFF, AND RELOCATE MECHANICAL AS REQUIRED ELECTRICAL DEVICES, TELEPHONE AND COMMUNICATION LINES, AND PLUMBING LINES WHICH OCCUR IN CONSTRUCTION BEING REMOVED UNLESS NOTED OTHERWISE. OPERATION OF REMAINING SYSTEMS SHALL CONTINUE UNINTERRUPTED EXCEPT AS PREARRANGED WITH FACILITIES.
14. WHERE EXISTING WALLS, CEILINGS, OR FLOORS ARE DAMAGED BY THE CONTRACTOR FOR ACCESS TO SERVICES AND NEW CONSTRUCTION WHICH MAY NOT BE INDICATED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE TO PATCH TO MATCH MATERIAL AND FINISHES TO ORIGINAL CONDITIONS. IF EXISTING FINISHES CANNOT BE MATCHED, THE ENTIRE WALL, CEILING, OR FLOOR SHALL BE REFINISHED TO THE NEAREST CORNER OR POSITIVE BREAKING POINT.
15. WHEN DEMOLITION CAUSES DAMAGE TO FLOOR SLAB, WALL, OR CEILING SURFACES WHICH WILL REMAIN EXPOSED IN THE FINISHED WORK, SUCH CONDITIONS SHALL BE REPAIRED AND LEVELED AS REQUIRED TO RECEIVE NEW FINISHES.
16. WHEN DEMOLITION EXPOSES DAMAGE TO FLOOR SLAB, WALL, OR CEILING SURFACES WHICH WILL REMAIN EXPOSED IN THE FINISHED WORK, SUCH CONDITIONS SHALL BE REPORTED TO THE ARCHITECT AND OWNER WITH A RECOMMENDATION FOR RESOLUTION OF THE CONDITIONS.
17. CLEAN AIR GRILLES AND LIGHT FIXTURES THROUGHOUT PROJECT AREA UPON COMPLETION OF WORK.
18. WHERE EXISTING PHONE, DATA, OR PHONE/DATA OUTLETS ARE REMOVED, THE CONTRACTOR SHALL USE EXTREME CARE IN PULLING WIRE THROUGH THE EXISTING CONDUITS, COIL AND WRAP ABOVE EXISTING CEILING FOR REUSE.
19. WHERE EXTERIOR WALLS, WINDOWS, AND/OR DOORS ARE BEING REMOVED, THE CONTRACTOR WILL BE RESPONSIBLE TO CONSTRUCT TEMPORARY PARTITIONS AS REQUIRED TO ENSURE THAT THE EXISTING BUILDINGS REMAIN WATERTIGHT, SECURE, AND WITHOUT DRAFTS DURING DEMOLITION WORK. THESE PARTITIONS SHALL REMAIN IN PLACE DURING THE NEW CONSTRUCTION WORK, OR AS REQUIRED TO MAINTAIN THIS SEPARATION.
20. PROVIDE SHORING AND BRACING AS REQUIRED DURING DEMOLITION AND CONSTRUCTION TO PRESERVE STABILITY, PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF STRUCTURE AND PROTECT ANY ADJACENT CONSTRUCTION THAT IS TO REMAIN.

DEMOLITION LEGEND

▨	NOT IN SCOPE
	EXISTING WALL, DOOR, FRAME AND HARDWARE TO REMAIN
	WALLS, DOORS, DOOR/WINDOW FRAMES, EQUIPMENT, FIXTURES, ETC. INDICATED BY DASHED LINES WITHIN THE AREA OF CONSTRUCTION SHALL BE REMOVED. REFER TO THIS SHEET FOR ARCHITECTURAL DEMOLITION NOTES.
DP	DUST PARTITIONS - THE CONTRACTOR SHALL MAKE EVERY EFFORT TO ENSURE THE EXISTING BUILDING TO BE COMPLETELY PROTECTED AGAINST INFILTRATION OF DUST AND MOISTURE DURING THE COURSE OF DEMOLITION/ CONSTRUCTION WITH DUST PARTITIONS ACROSS CORRIDORS AND OPENINGS THRU EXISTING WALLS. ALL CONSTRUCTION WORK CREATING ANY TYPE OF DUST THROUGHOUT THE BUILDING SHALL BE SHIELDED BY DUST PROTECTION. PROVIDE DOOR OPENING AS REQUIRED FOR EMERGENCY EGRESS.
DB	DUST BARRIERS - (2) LAYERS 6 MIL PVC W/ STUDS @ 4'-0" O.C. DUST BARRIER. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO ENSURE THE EXISTING BUILDING TO BE COMPLETELY PROTECTED AGAINST THE INFILTRATION OF DUST & MOISTURE DURING THE COURSE OF DEMOLITION/ CONSTRUCTION. PROVIDE DOOR OPENING AS REQUIRED FOR EMERGENCY EGRESS.

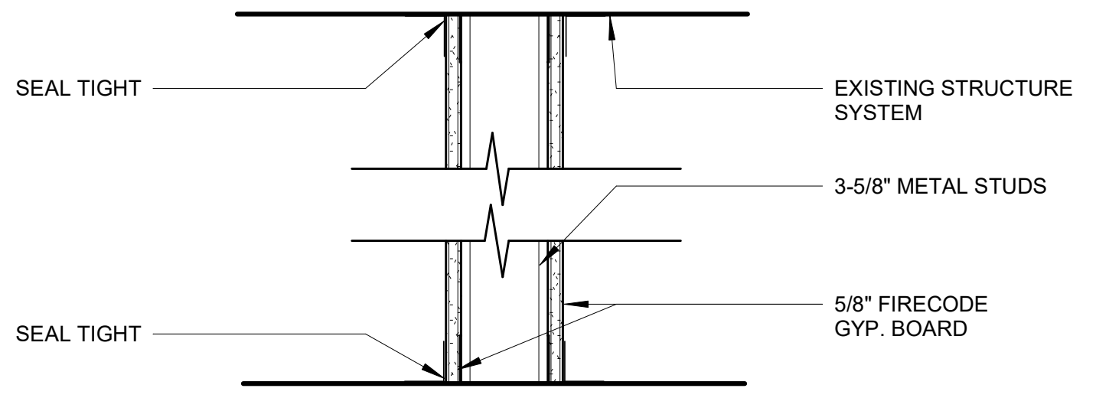
KEYNOTES - DEMO PLAN

NUMBER	COMMENTS
1	REMOVE ALL EXISTING FLOORING, BASE, WALL FINISHES, WINDOW SHADES, AND CEILINGS, TYPICAL THROUGHOUT AREAS OF DEMOLITION. PREP FOR NEW FINISHES.
2	DEMO PLUMBING FIXTURES AND CAP PLUMBING, TYPICAL THROUGHOUT AREAS OF DEMOLITION. RE: MEP.
3	DEMO EXISTING CASEWORK, TYPICAL THROUGHOUT AREAS OF DEMOLITION. PATCH AND PREP AREA FOR NEW CONSTRUCTION.
4	DEMO EXISTING DOORS AND FRAMES AS SHOWN THROUGHOUT AREAS OF DEMOLITION.
5	DEMO EXISTING WALLS AS SHOWN THROUGHOUT AREAS OF DEMOLITION. PATCH AND REPAIR EXISTING GYPSUM WALL BOARD AS REQUIRED.
6	DEMO EXISTING DOOR AND FRAME. PREP FOR NEW DOOR.
7	EXISTING EXPANSION JOINT. SALVAGE IF IN GOOD CONDITION. REMOVE IF DAMAGED OR WORN



A3 PARTIAL SECOND FLOOR DEMOLITION PLAN
1/8" = 1'-0"

NORTH



WHERE DUST PARTITIONS ARE TO REMAIN THROUGH CONSTRUCTION, THEY SHALL BE CONSTRUCTED OF 3-5/8" METAL STUDS WITH CONTINUOUS TOP AND BOTTOM RUNNERS. PARTITIONS SHALL EXTEND TIGHT FROM FLOOR TO THE EXISTING CEILING OR STRUCTURE ABOVE, AND COPED AROUND DUCTS, PIPES, ETC., THAT PENETRATE THE PARTITION. THE ENTIRE PARTITION SHALL BE COVERED WITH 5/8" FIRE RATED GYP. BOARD SCREWED TO STUDS, ALL JOINTS BETWEEN SHEATHING, AT WALLS, AT FLOORS, CEILINGS, AROUND PIPES, ETC., TAPED AND SEALED TIGHT TO ENSURE DUST-PROOFING.

THE CONTRACTOR SHALL COVER AND SEAL IN A DUST-TIGHT MANNER ALL EXISTING OPENINGS, GRILLES, JOINTS AROUND DOORS AND FRAMES, ETC., WITH FIRE RETARDANT SHEET AND/OR TAPE AS APPROPRIATE WHERE SUCH OPENINGS, ETC., OCCUR IN EXISTING PARTITIONS SEPARATING EXISTING AREAS FROM CONSTRUCTION AREAS. THE CONTRACTOR SHALL MAINTAIN AND REPAIR ANY DUST BARRIERS AS DETERMINED BY, AND TO THE SATISFACTION OF, THE OWNER.

SMOKE TIGHT (NON-COMBUSTIBLE CONSTRUCTION PARTITION)
1 1/2" = 1'-0"

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Development Services Department
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SAMUEL K. BECKMAN
A-2011012130

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SUMMIT GI ADDITION
SAINT LUKE'S EAST
100 NE SAINT LUKE'S BLVD.
LEE'S SUMMIT MO 64086

Date	04/07/25
Job Number	3-24100
Drawn By	Author
Checked By	Checker

Revision

Number	Date	Description

AD201

FIRST FLOOR DEMO FLOOR PLAN

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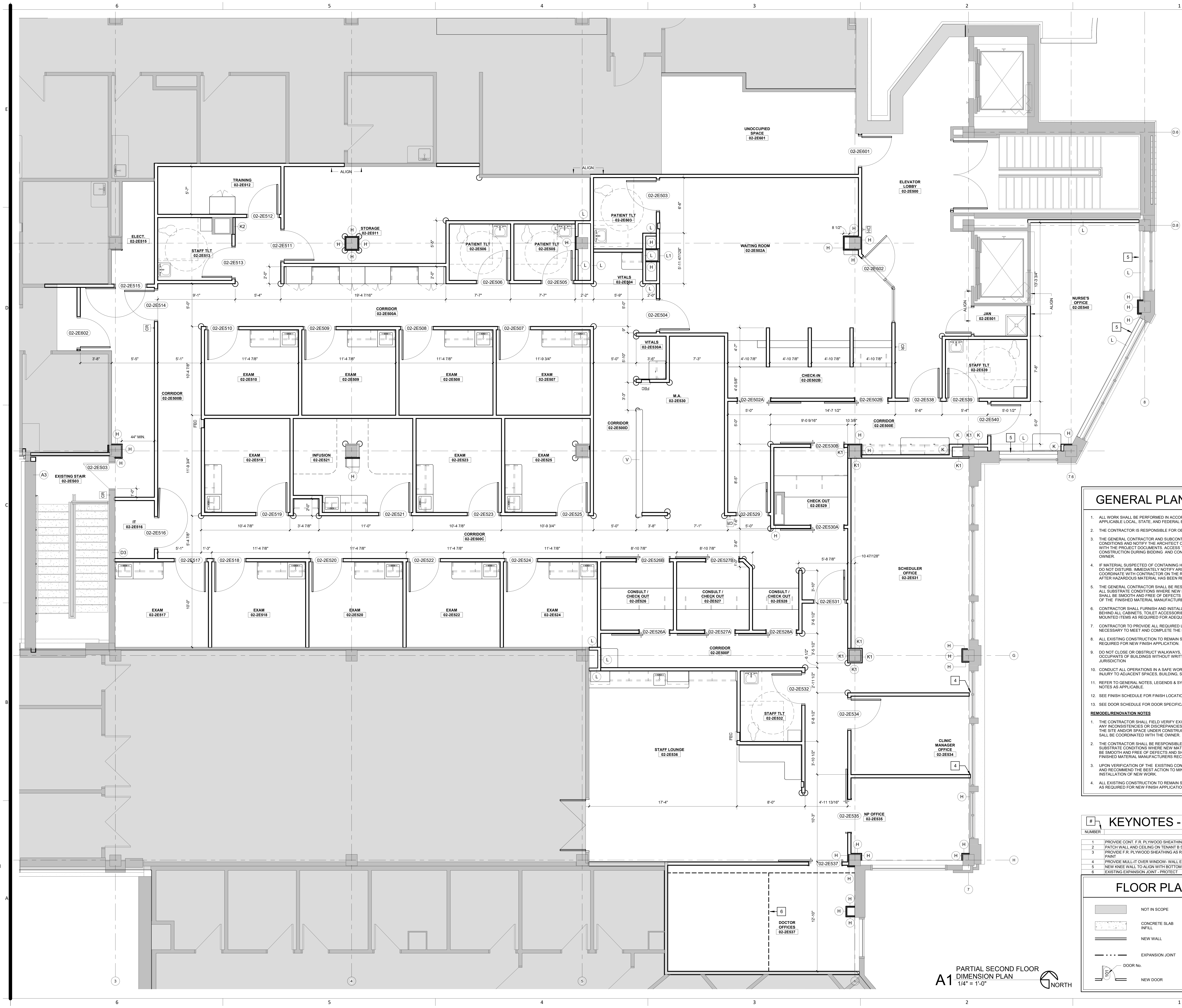
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TRAINING 02-2E512
STORAGE 02-2E511
ELECT. 02-2E515
STAFF TLT 02-2E513
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PATIENT TLT 02-2E503
WAITING ROOM 02-2E502A
VITALS 02-2E504
CORRIDOR 02-2E500A
JAN 02-2E501
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CHECK-IN 02-2E502B
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CORRIDOR 02-2E500B
CORRIDOR 02-2E500D
CORRIDOR 02-2E500E
EXAM 02-2E519
INFUSION 02-2E521
EXAM 02-2E523
EXAM 02-2E525
CHECK OUT 02-2E529
EXISTING STAIR 02-2E503
IT 02-2E516
CORRIDOR 02-2E500C
SCHEDULER OFFICE 02-2E531
EXAM 02-2E517
EXAM 02-2E518
EXAM 02-2E520
EXAM 02-2E522
EXAM 02-2E524
CONSULT / CHECK OUT 02-2E526
CONSULT / CHECK OUT 02-2E527
CONSULT / CHECK OUT 02-2E528
CORRIDOR 02-2E500F
STAFF TLT 02-2E532
STAFF LOUNGE 02-2E536
CLINIC MANAGER OFFICE 02-2E534
NP OFFICE 02-2E535
DOCTOR OFFICES 02-2E537
ALIGN
44" MIN.
FEC
NORTH

A1 PARTIAL SECOND FLOOR DIMENSION PLAN
1/4" = 1'-0"

GENERAL PLAN NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH A.D.A. REQUIREMENTS AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL BUILDING CODES AND REGULATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY BUILDING PERMITS.
3. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THE ARCHITECT OF ANY INCONSISTENCIES OR DISCREPANCIES WITH THE PROJECT DOCUMENTS. ACCESS TO THE SITE AND/OR SPACE UNDER CONSTRUCTION DURING BIDDING AND CONSTRUCTION SHALL BE COORDINATED WITH THE OWNER.
4. IF MATERIAL SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB. IMMEDIATELY NOTIFY ARCHITECT AND OWNER. OWNER SHALL COORDINATE WITH CONTRACTOR ON THE REMOVAL OF SUCH ITEMS. WORK MAY PROCEED AFTER HAZARDOUS MATERIAL HAS BEEN REMOVED.
5. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING AND CONFIRMING ALL SUBSTRATE CONDITIONS WHERE NEW MATERIALS ARE APPLIED. THE SUBSTRATE SHALL BE SMOOTH AND FREE OF DEFECTS AND SHALL CONFORM TO THE REQUIREMENTS OF THE FINISHED MATERIAL MANUFACTURERS RECOMMENDATIONS.
6. CONTRACTOR SHALL FURNISH AND INSTALL CONCEALED FIRE-TREATED WOOD BLOCKING BEHIND ALL CABINETS, TOILET ACCESSORIES, PLUMBING FIXTURES, AND OTHER WALL MOUNTED ITEMS AS REQUIRED FOR ADEQUATE SUPPORT.
7. CONTRACTOR TO PROVIDE ALL REQUIRED LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO MEET AND COMPLETE THE REQUIREMENTS OF THE NEW CONSTRUCTION.
8. ALL EXISTING CONSTRUCTION TO REMAIN SHALL BE PATCHED, REPAIRED, AND PREP AS REQUIRED FOR NEW FINISH APPLICATION.
9. DO NOT CLOSE OR OBSTRUCT WALKWAYS, EXITS, OR OTHER FACILITIES USED BY OCCUPANTS OF BUILDINGS WITHOUT WRITTEN PERMISSION FROM AUTHORITIES HAVING JURISDICTION
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13. SEE DOOR SCHEDULE FOR DOOR SPECIFICATIONS.

REMODEL/RENOVATION NOTES

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KEYNOTES - FLOOR PLAN

NUMBER	COMMENTS
1	PROVIDE CONT. F.R. PLYWOOD SHEATHING FOR NEW ELECTRICAL PANELS AND PAINT
2	PATCH WALL AND CEILING ON TENANT B SIDE OF CONSTRUCTION TO MATCH ADJACENT FINISHES
3	PROVIDE F.R. PLYWOOD SHEATHING AS REQUESTED BY OWNER FOR NEW DATA RACKS AND PAINT
4	PROVIDE MULL-IT OVER WINDOW- WALL ENCLOSURE CAP
5	NEW KNEE WALL TO ALIGN WITH BOTTOM OF WINDOW SILL
6	EXISTING EXPANSION JOINT - PROTECT

FLOOR PLAN LEGEND

▒	NOT IN SCOPE	▨	NOT IN ARCHITECTURAL SCOPE
░	CONCRETE SLAB INFILL		
═	NEW WALL	═	EXISTING WALL
— · · · —	EXPANSION JOINT	— — — —	EXISTING EXPANSION JOINT
DOOR No. 101	NEW DOOR		EXISTING DOOR

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LEE'S SUMMIT MO 64086

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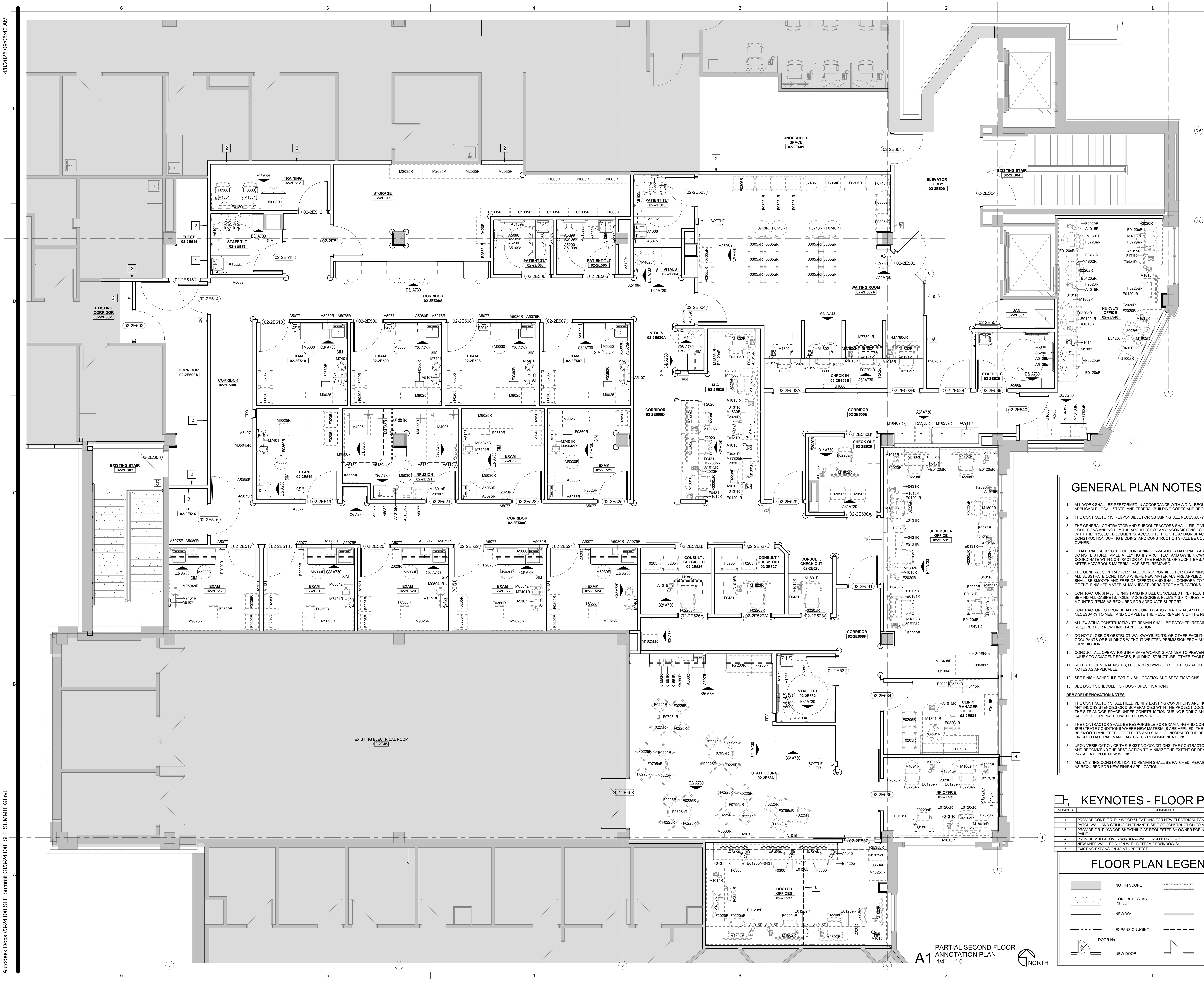
Drawn By	HG
Checked By	SB

Revision

Number	Date	Description

A210

SECOND FLOOR PLAN DIMENSION PLAN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CONSULT / CHECK OUT 02-2E528
CORRIDOR 02-2E500F
EXISTING ELECTRICAL ROOM 02-2E468
STAFF TLT 02-2E532
CLINIC MANAGER OFFICE 02-2E534
STAFF LOUNGE 02-2E536
BOTTLE FILLER
NP OFFICE 02-2E535
DOCTOR OFFICES 02-2E537
NORTH

A1 PARTIAL SECOND FLOOR ANNOTATION PLAN
1/4" = 1'-0"

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NUMBER	COMMENTS
1	PROVIDE CONT. F.R. PLYWOOD SHEATHING FOR NEW ELECTRICAL PANELS AND PAINT
2	PATCH WALL AND CEILING ON TENANT B SIDE OF CONSTRUCTION TO MATCH ADJACENT FINISHES
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5	NEW KNEE WALL TO ALIGN WITH BOTTOM OF WINDOW SILL
6	EXISTING EXPANSION JOINT - PROTECT

FLOOR PLAN LEGEND

▨	NOT IN SCOPE	▨	NOT IN ARCHITECTURAL SCOPE
▨	CONCRETE SLAB INFILL		
═	NEW WALL	═	EXISTING WALL
— · · —	EXPANSION JOINT	– – – –	EXISTING EXPANSION JOINT
DOOR No. 101	NEW DOOR		EXISTING DOOR

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Development Services Department
Lee's Summit, Missouri
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A-2011012130

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LEE'S SUMMIT MO 64086

Date	04/07/25
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Drawn By	HG
Checked By	KS/SB

Revision

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A211

SECOND FLOOR ANNOTATION PLAN

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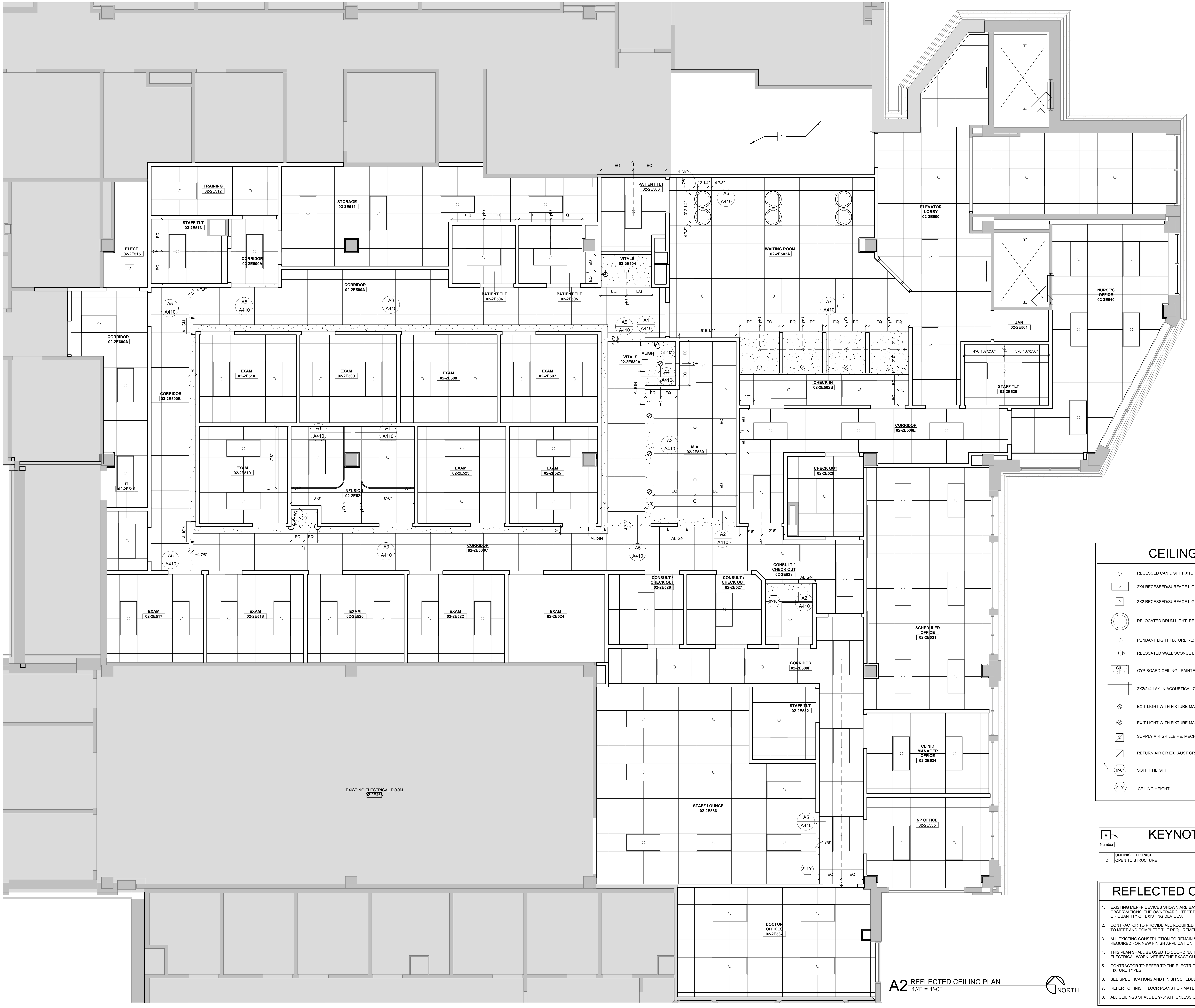
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NP OFFICE 02-2E535
DOCTOR OFFICES 02-2E537
EXISTING ELECTRICAL ROOM 02-2E468
A5 A410
A3 A410
A4 A410
A6 A410
A7 A410
A1 A410
A2 A410
EQ
ALIGN
4 7/8"
1
2
NORTH

A2 REFLECTED CEILING PLAN
1/4" = 1'-0"

CEILING LEGEND

⊘	RECESSED CAN LIGHT FIXTURE RE: ELECT
▭	2X4 RECESSED/SURFACE LIGHT FIXTURE RE: ELECT
▢	2X2 RECESSED/SURFACE LIGHT FIXTURE RE: ELECT
◎	RELOCATED DRUM LIGHT, RE: ELECT
○	PENDANT LIGHT FIXTURE RE: ELECT
○	RELOCATED WALL SCONCE LIGHT FIXTURE RE: ELECT
CJ	GYP BOARD CEILING - PAINTED W/ CONTROL JOINTS PER SPECS
▭	2X2/2x4 LAY-IN ACOUSTICAL CEILING
⊗	EXIT LIGHT WITH FIXTURE MARK CEILING MOUNTED RE: ELECT
⊗	EXIT LIGHT WITH FIXTURE MARK WALL BRACKET RE: ELECT
☒	SUPPLY AIR GRILLE RE: MECH
◪	RETURN AIR OR EXHAUST GRILLE RE: MECH
9'-0"	SOFFIT HEIGHT
9'-0"	CEILING HEIGHT

KEYNOTES - RCP

Number	Comments
1	UNFINISHED SPACE
2	OPEN TO STRUCTURE

REFLECTED CEILING NOTES

1. EXISTING MEPFP DEVICES SHOWN ARE BASED ON EXISTING DRAWINGS AND/OR FIELD OBSERVATIONS. THE OWNER/ARCHITECT DOES NOT GUARANTEE THE ACCURACY/LOCATION OR QUANTITY OF EXISTING DEVICES.
2. CONTRACTOR TO PROVIDE ALL REQUIRED LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO MEET AND COMPLETE THE REQUIREMENTS OF THE NEW CONSTRUCTION.
3. ALL EXISTING CONSTRUCTION TO REMAIN SHALL BE PATCHED, REPAIRED, AND PREP AS REQUIRED FOR NEW FINISH APPLICATION.
4. THIS PLAN SHALL BE USED TO COORDINATE THE CEILING LAYOUT WITH MECHANICAL AND ELECTRICAL WORK. VERIFY THE EXACT QUANTITY REQUIRED.
5. CONTRACTOR TO REFER TO THE ELECTRICAL PLANS FOR ACTUAL LIGHTING SIZES AND FIXTURE TYPES.
6. SEE SPECIFICATIONS AND FINISH SCHEDULE FOR CEILING TYPES.
7. REFER TO FINISH FLOOR PLANS FOR MATERIAL LEGEND OF ALL TYPES.
8. ALL CEILINGS SHALL BE 9'-0" AFF UNLESS OTHERWISE NOTED.

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MEP ENGINEER

HENDERSON ENGINEERS
1600 1091 WEST 84TH TER., SUITE 300
LENEXA, KS 66214
913.894.9720
Licensee's Certificate of Authority Number:
E-556D

SUMMIT GI ADDITION
SAINT LUKE'S EAST
100 NE SAINT LUKE'S BLVD.
LEE'S SUMMIT MO 64086

Date	04/07/25
Job Number	3-24100
Drawn By	HG
Checked By	KS/SB

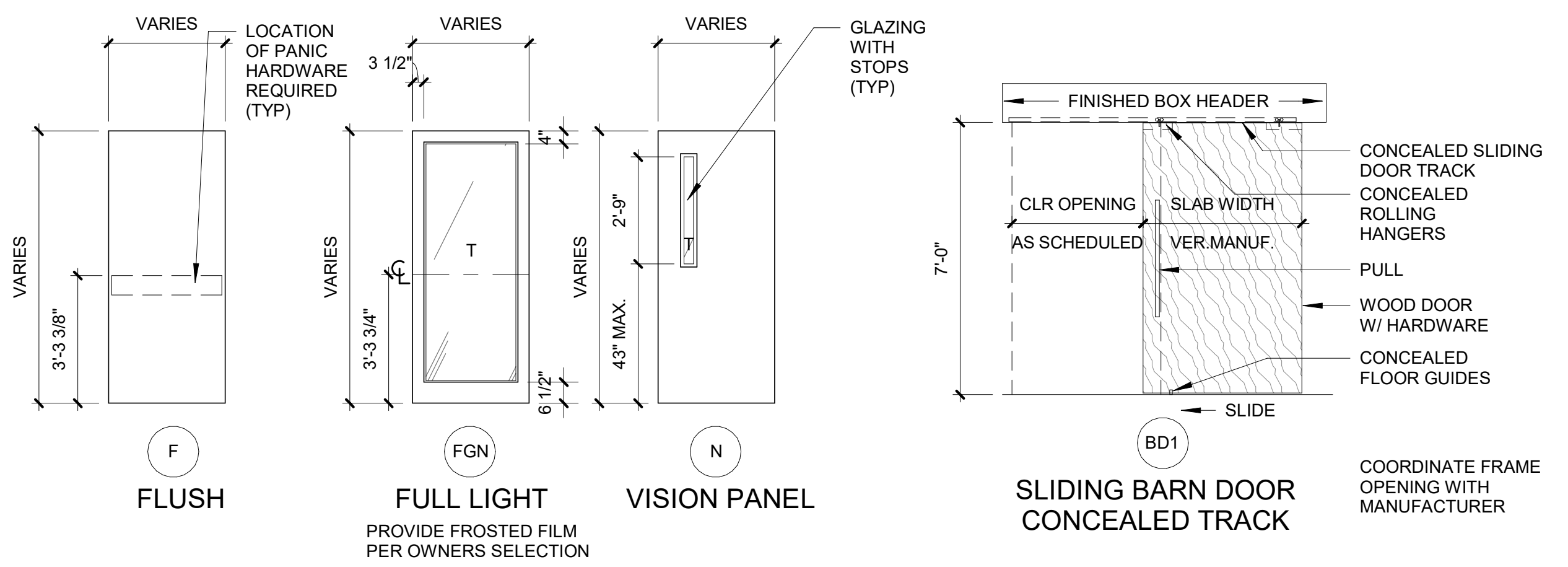
Revision

Number	Date	Description

A311

SECOND FLOOR REFLECTED CEILING PLAN

4/8/2025 09:05:46 AM


VARIES
LOCATION OF PANIC HARDWARE REQUIRED (TYP)
3'-3 3/8"
F
3 1/2"
4"
T
3'-3 3/4"
6 1/2"
FGN
GLAZING WITH STOPS (TYP)
2'-9"
43" MAX.
N
FINISHED BOX HEADER
CLR OPENING
AS SCHEDULED
SLAB WIDTH
VER.MANUF.
7'-0"
CONCEALED SLIDING DOOR TRACK
CONCEALED ROLLING HANGERS
PULL
WOOD DOOR W/ HARDWARE
CONCEALED FLOOR GUIDES
SLIDE
BD1

FLUSH

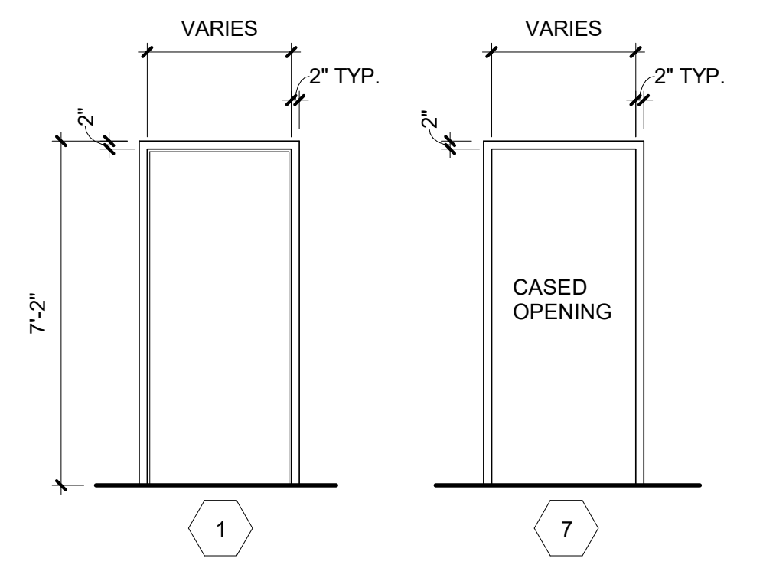
FULL LIGHT
PROVIDE FROSTED FILM PER OWNERS SELECTION

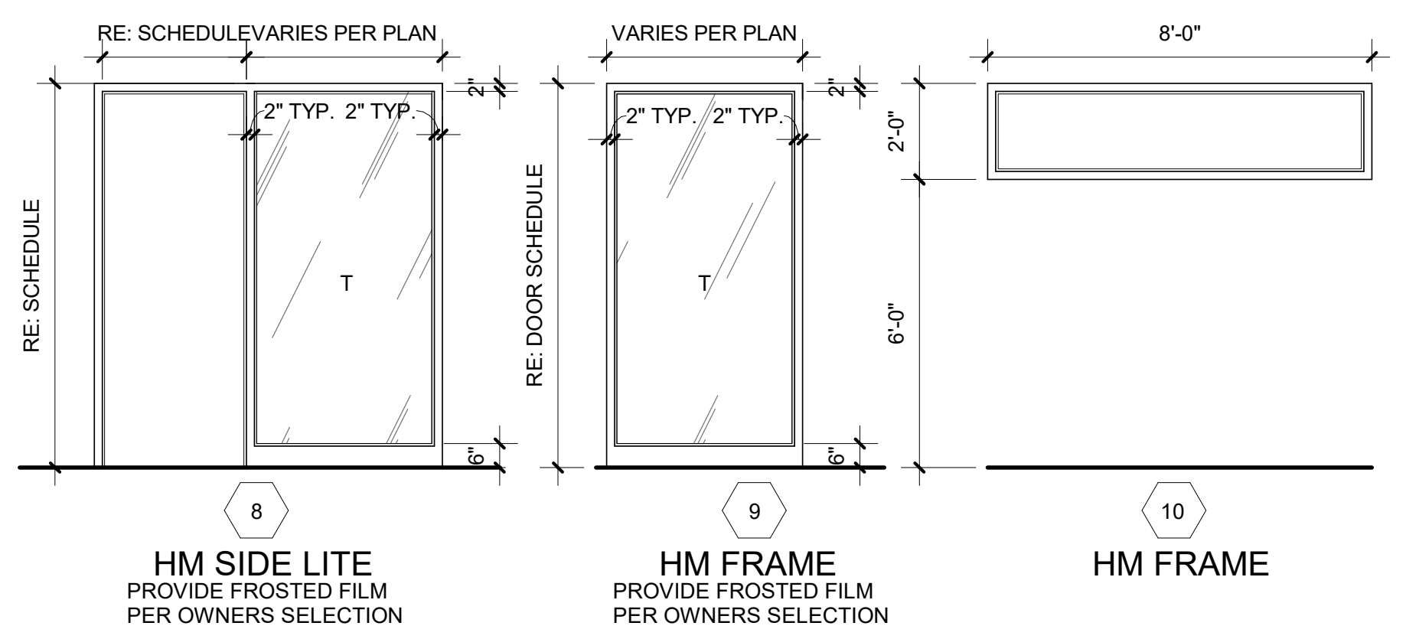
VISION PANEL

SLIDING BARN DOOR CONCEALED TRACK

COORDINATE FRAME OPENING WITH MANUFACTURER

DOOR ELEVATIONS


VARIES
2" TYP.
2"
7'-2"
1
CASED OPENING
7


RE: SCHEDULE
VARIES PER PLAN
2" TYP.
2"
T
6"
RE: SCHEDULE
8
HM SIDE LITE
PROVIDE FROSTED FILM PER OWNERS SELECTION
VARIES PER PLAN
RE: DOOR SCHEDULE
9
HM FRAME
PROVIDE FROSTED FILM PER OWNERS SELECTION
8'-0"
2'-0"
6'-0"
10
HM FRAME

FRAME ELEVATIONS

WINDOW ELEVATION

DOOR HARDWARE

Provide each SGL door(s) with the following:

Hardware Group No. 01
For use on Door #(s): **02-2E514, 02-2E538**

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1 EA	POWER TRANSFER	EPT10	689	VON
1 EA	ELEC PANIC HARDWARE	RX-LC-QEL-99-L-NL-06 24 VDC	626	VON
1 EA	RIM HOUSING	20-079	626	SCH
1 EA	CYLINDER	BY OWNER	626	SCH
1 EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	WALL STOP	WS406/407CCV	630	IVE
1 EA	GASKETING	488SBK PSA	BK	ZER
1 EA	DOOR CONTACT	679-05	WHT	SCE
1 EA	POWER SUPPLY	PS902 900-2RS 120/240 VAC	LGR	SCE
1 EA	NOTE	CARD ACCESS BY OTHERS		

Hardware Group No. 02
For use on Door #(s): **02-2E529**
Provide each SGL door(s) with the following:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1 EA	POWER TRANSFER	EPT10	689	VON
1 EA	DELAYED PANIC HARDWARE	CX9975-L-BE-RX996-06 24 VDC	626	VON
1 EA	RIM HOUSING	20-079	626	SCH
1 EA	CYLINDER	BY OWNER	626	SCH
1 EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	WALL STOP	WS406/407CCV	630	IVE
1 EA	GASKETING	488SBK PSA	BK	ZER
1 EA	DOOR CONTACT	679-05	WHT	SCE
1 EA	POWER SUPPLY	PS902 900-2RS 120/240 VAC	LGR	SCE
1 EA	NOTE	CARD ACCESS BY OTHERS		

NOTE: DOOR NORMALLY CLOSED AND UNLOCKED. FREE INGRESS ON PULL SIDE. EGRESS BY PRESENTATION OF VALID CREDENTIAL. WITHOUT PRESENTATION OF VALID CREDENTIAL THE DEPRESSION OF THE PUSHPAD WILL SIGNAL THE CHEXIT TO ALARM AND DELAY EGRESS FOR 15 SECONDS.

Hardware Group No. 03
For use on Door #(s): **02-2E504 02-2E602**

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1 EA	PANIC HARDWARE	99-L-06	626	VON
1 EA	RIM HOUSING	20-079	626	SCH
1 EA	CYLINDER	BY OWNER	626	SCH
1 EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	WALL STOP	WS406/407CCV	630	IVE
1 EA	GASKETING	488SBK PSA	BK	ZER

Hardware Group No. 04
For use on Door #(s): **02-2E501 02-2E511 02-2E515 02-2E516 02-2E601**

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1 EA	STOREROOM LOCK	ND80LD RHO	626	SCH
1 EA	CYLINDER	BY OWNER	626	SCH
1 EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	WALL STOP	WS406/407CCV	630	IVE
1 EA	GASKETING	488SBK PSA	BK	ZER

Hardware Group No. 05
For use on Door #(s): **02-2E502**

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1 EA	CLASSROOM LOCK	ND70LD RHO	626	SCH
1 EA	CYLINDER	BY OWNER	626	SCH
1 EA	SURFACE CLOSER	4040XP HEDA	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	WALL STOP	WS406/407CCV	630	IVE
1 EA	GASKETING	488SBK PSA	BK	ZER

Hardware Group No. 06
For use on Door #(s): **02-2E534**

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1 EA	ENTRANCE LOCK	ND53LD RHO	626	SCH
1 EA	CYLINDER	BY OWNER	626	SCH
1 EA	WALL STOP	WS406/407CCV	630	IVE
1 EA	GASKETING	488SBK PSA	BK	ZER

Hardware Group No. 07
For use on Door #(s): **02-2E531**

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1 EA	ENTRANCE LOCK	ND53LD RHO	626	SCH
1 EA	CYLINDER	BY OWNER	626	SCH
1 EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	WALL STOP	WS406/407CCV	630	IVE
1 EA	GASKETING	488SBK PSA	BK	ZER

Hardware Group No. 08
For use on Door #(s): **02-2E503 02-2E505 02-2E506 02-2E513 02-2E532 02-2E539**

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1 EA	PRIVACY W/COIN TURN	L9044 06A L583-363 L283-722	626	SCH
1 EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1 EA	WALL STOP	WS406/407CCV	630	IVE
3 EA	SILENCER	SR64	GRY	IVE

Hardware Group No. 09
For use on Door #(s):
02-2E507 02-2E508 02-2E509 02-2E510 02-2E517 02-2E518
02-2E519 02-2E520 02-2E522 02-2E523 02-2E524 02-2E525

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1 EA	PASSAGE SET	ND10S RHO	626	SCH
1 EA	WALL STOP	WS406/407CCV	630	IVE
1 EA	GASKETING	488SBK PSA	BK	ZER

Hardware Group No. 10
For use on Door #(s): **02-2E512 02-2E521 02-2E540**

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1 EA	PASSAGE SET	ND10S RHO	626	SCH
1 EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	WALL STOP	WS406/407CCV	630	IVE
1 EA	GASKETING	488SBK PSA	BK	ZER

Hardware Group No. 11
For use on Door #(s): **02-2E526B 02-2E527B 02-2E530A 02-2E535**
Provide each BD door(s) with the following:

QTY	DESCRIPTION	CATALOG NUMBER	MFR
1 EA	SLIDING DOOR	EXAMSLIDE SYSTEM X BACK TO BACK PULLS	ADS

Hardware Group No. 12
For use on Door #(s): **02-2E502A 02-2E502B 02-2E526A 02-2E527A**
02-2E528A 02-2E530B 02-2E537
Provide each BD door(s) with the following:

QTY	DESCRIPTION	CATALOG NUMBER	MFR
1 EA	SLIDING DOOR SYSTEM	EXAMSLIDE SYSTEM X OFFICE LOCK	ADS

Hardware Group No. 13
For use on Door #(s): **02-2ES04**
Provide each PR door(s) with the following:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6 EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
2 EA	FIRE EXIT HARDWARE	9927-L-F-LBR-06-499F	626	VON
2 EA	RIM HOUSING	20-079	626	SCH
2 EA	CYLINDER	BY OWNER	626	SCH
2 EA	SURFACE CLOSER	4040XP	689	LCN
2 EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
2 EA	WALL STOP	WS406/407CCV	630	IVE
1 EA	GASKETING	488SBK PSA	BK	ZER
2 EA	ASTRAGAL SET	8193AA	AA	ZER

NOTE: REUSE EXISTING WALL MOUNTED MAGNETIC HOLD OPENS

DOOR SCHEDULE

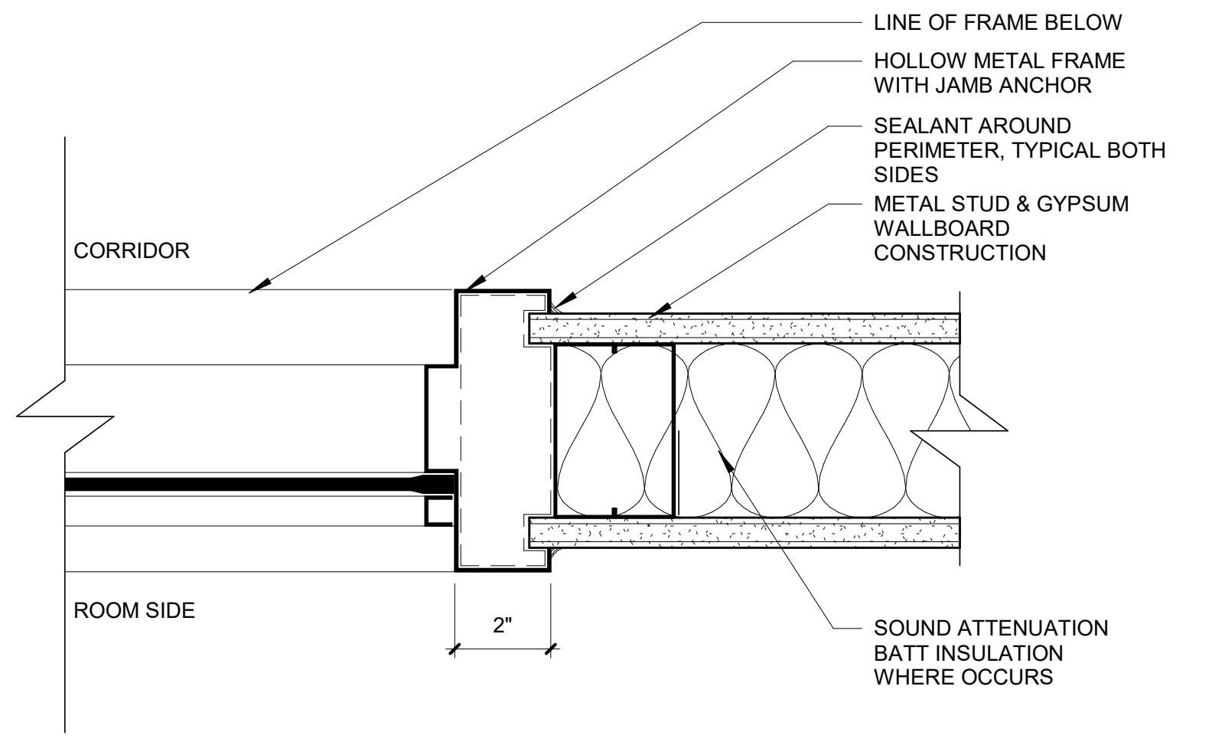
DOOR #	ROOM NAME	DOOR INFORMATION				FRAME INFORMATION		GLAZING	LABEL (MIN)	HARDWARE SET	OPENING DETAIL		REMARKS	REV #
		WIDTH	HEIGHT	ELEV.	MATL.	ELEV.	MATL.				HEAD	JAMB		
02-2E468	STAFF LOUNGE	3'-0"	7'-0"	ETR	ETR	ETR	ETR	--	45 min	ETR	ETR	ETR	EXISTING HARDWARE TO REMAIN	
02-2E501	JAN	3'-0"	7'-0"	F	WD	1	HM	--	--	04	C1	C2	STOREROOM LOCK	
02-2E502	WAITING ROOM	3'-6"	8'-0"	FGN	WD	--	HM	--	--	05	C1	C2	HOLD-OPEN, KEYED LOCK	
02-2E502A	CHECK-IN	3'-4 3/4"	7'-0"	BD1	WD		ALUM	--	--	12	C3	C4	44" SLIDING DOOR LEAF - THUMB TURN LOCK	
02-2E502B	CHECK-IN	3'-4 3/4"	7'-0"	BD1	WD		ALUM	--	--	12	C3	C4	44" SLIDING DOOR LEAF - THUMB TURN LOCK	
02-2E503	PATIENT TLT	3'-6"	7'-0"	F	WD	1	HM	--	--	08	C1	C2	THUMB TURN WITH INDICATOR	
02-2E504	CORRIDOR	3'-6"	7'-0"	F	WD	1	HM	--	--	03	C1	C2	OFFICE LOCK SET	
02-2E505	PATIENT TLT	3'-6"	7'-0"	F	WD	1	HM	--	--	08	C1	C2	THUMB TURN WITH INDICATOR	
02-2E506	PATIENT TLT	3'-6"	7'-0"	F	WD	1	HM	--	--	08	C1	C2	THUMB TURN WITH INDICATOR	
02-2E507	EXAM	3'-6"	7'-0"	F	WD	1	HM	--	--	09	C1	C2	PASSAGE	
02-2E508	EXAM	3'-6"	7'-0"	F	WD	1	HM	--	--	09	C1	C2	PASSAGE	
02-2E509	EXAM	3'-6"	7'-0"	F	WD	1	HM	--	--	09	C1	C2	PASSAGE	
02-2E510	EXAM	3'-6"	7'-0"	F	WD	1	HM	--	--	09	C1	C2	PASSAGE	
02-2E511	STORAGE	3'-6"	7'-0"	F	WD	1	HM	--	45 min	04	C1	C2	STOREROOM LOCK	
02-2E512	TRAINING	3'-6"	7'-0"	F	WD	1	HM	--	--	10	C1	C2	PASSAGE	
02-2E513	STAFF TLT	3'-6"	7'-0"	F	WD	1	HM	--	--	08	C1	C2	THUMB TURN WITH INDICATOR	
02-2E514	CORRIDOR	3'-6"	7'-0"	F	WD	1	HM	--	--	01	C1	C2	CARD READER WITH PANIC BAR	
02-2E515	ELECT.	3'-6"	7'-0"	F	WD	1	HM	--	--	04	C1	C2	STOREROOM LOCK	
02-2E516	IT	3'-6"	7'-0"	F	WD	1	HM	--	--	04	C1	C2	STOREROOM LOCK	
02-2E517	EXAM	3'-6"	7'-0"	F	WD	1	HM	--	--	09	C1	C2	PASSAGE	
02-2E518	EXAM	3'-6"	7'-0"	F	WD	1	HM	--	--	09	C1	C2	PASSAGE	
02-2E519	EXAM	3'-6"	7'-0"	F	WD	1	HM	--	--	09	C1	C2	PASSAGE	
02-2E520	EXAM	3'-6"	7'-0"	F	WD	1	HM	--	--	09	C1	C2	PASSAGE	
02-2E521	INFUSION	3'-6"	7'-0"	F	WD	1	HM	--	--	10	C1	C2	PASSAGE	
02-2E522	EXAM	3'-6"	7'-0"	F	WD	1	HM	--	--	09	C1	C2	PASSAGE	
02-2E523	EXAM	3'-6"	7'-0"	F	WD	1	HM	--	--	09	C1	C2	PASSAGE	
02-2E524	EXAM	3'-6"	7'-0"	F	WD	1	HM	--	--	09	C1	C2	PASSAGE	
02-2E525	EXAM	3'-6"	7'-0"	F	WD	1	HM	--	--	09	C1	C2	PASSAGE	
02-2E526A	CONSULT / CHECK OUT	3'-0 3/4"	7'-0"	BD1	WD		ALUM	--	--	12	C3	C4	44" SLIDING DOOR LEAF - THUMB TURN LOCK	
02-2E526B	CONSULT / CHECK OUT	3'-4 3/4"	7'-0"	BD1	WD		ALUM	--	--	11	C3	C4	48" SLIDING DOOR LEAF - PASSAGE	
02-2E527A	CONSULT / CHECK OUT	3'-0 3/4"	7'-0"	BD1	WD		ALUM	--	--	12	C3	C4	44" SLIDING DOOR LEAF - THUMB TURN LOCK	
02-2E527B	CONSULT / CHECK OUT	3'-4 3/4"	7'-0"	BD1	WD		ALUM	--	--	11	C3	C4	48" SLIDING DOOR LEAF - PASSAGE	
02-2E528A	CONSULT / CHECK OUT	3'-0 3/4"	7'-0"	BD1	WD		ALUM	--	--	12	C3	C4	44" SLIDING DOOR LEAF - THUMB TURN LOCK	
02-2E529	CORRIDOR	3'-6"	7'-0"	N	WD	1	HM	--	--	02	C1	C2	CARD READER WITH DELAYED/ALARMED PANIC BAR, FREE ACCESS ON PULL SIDE	
02-2E530A	CHECK OUT	3'-4 3/4"	7'-0"	BD1	WD		ALUM	--	--	11	C3	C4	44" SLIDING DOOR LEAF - PASSAGE	
02-2E530B	CHECK OUT	3'-4 3/4"	7'-0"	BD1	WD		ALUM	--	--	12	C3	C4	44" SLIDING DOOR LEAF - THUMB TURN LOCK	
02-2E531	CORRIDOR	3'-6"	7'-0"	N	WD	1	HM	--	--	07	C1	C2	OFFICE LOCK	
02-2E532	STAFF TLT	3'-6"	7'-0"	F	WD	1	HM	--	--	08	C1	C2	THUMB TURN WITH INDICATOR	
02-2E534	CLINIC MANAGER OFFICE	3'-6"	7'-0"	F	WD	1	HM	--	--	06	C1	C2	OFFICE LOCK	
02-2E535	NP OFFICE	3'-4 3/4"	7'-0"	BD1	WD		ALUM	--	--	11	C3	C4	PASSAGE	
02-2E537	DOCTOR OFFICES	3'-4 3/4"	7'-0"	BD1	WD		ALUM	--	--	12	C3	C4	44" SLIDING DOOR LEAF WITH KEYED LOCK	
02-2E538	ELEVATOR LOBBY	3'-6"	7'-0"	F	WD	1	HM	--	--	01	C1	C2	CARD READER WITH PANIC BAR	
02-2E539	STAFF TLT	3'-6"	7'-0"	F	WD	1	HM	--	--	08	C1	C2	THUMB TURN WITH INDICATOR	
02-2E540	NURSE'S OFFICE	3'-6"	7'-0"	F	WD	1	HM	--	--	10	C1	C2	PASSAGE	
02-2E601	UNOCCUPIED SPACE	3'-6"	7'-0"	F	WD	1	HM	--	--	04	C1	C2	STOREROOM LOCK	
02-2E602	CORRIDOR	3'-6"	7'-0"	F	WD	1	HM	--	--	03	C1	C2	PANIC BAR WITH KEYED LOCK	
02-2ES04	ELEVATOR LOBBY	4'-0"	7'-0"	N	--	ETR	ETR	--	90 min	13	C1	C2	PANIC HARDWARE WITH MAG-HOLD OPEN, REUSE EXISTING WALL MOUNTED AND DOOR HARDWARE	

DOOR AND HARDWARE NOTES

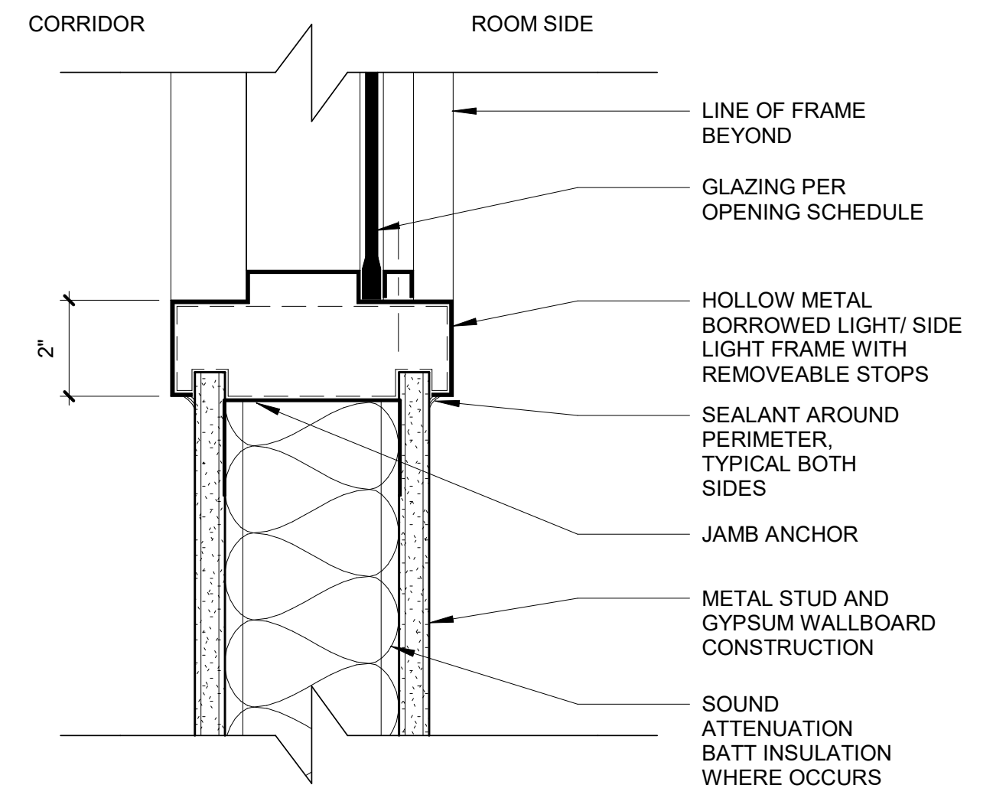
1. DOOR OPENING DEVICES SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST. DOOR KNOBS ARE PROHIBITED.
2. ALL MEANS OF EGRESS DOORS SHALL BE READILY OPENABLE FROM THE SIDE FROM WHICH EGRESS IS TO BE MADE WITHOUT THE USE OF SPECIAL TOOLS, A KEY, SPECIAL KNOWLEDGE OR EFFORT. DOUBLE KEYED DEAD BOLTS ARE PROHIBITED.
3. PROVIDE HARDWARE INCLUDING, BUT NOT LIMITED TO THAT SHOWN IN THE HARDWARE GROUPS FOR THE NORMAL OPERATION AND USE OF EACH DOOR, MAKE RECOMMENDATIONS FOR ADDITIONAL ITEMS IN HARDWARE SUBMITTAL AS REQUIRED.
4. ALL HARDWARE SHALL BE IN COMPLIANCE WITH ADA GUIDELINES AND NATIONAL BUILDERS HARDWARE ASSOCIATION STANDARDS.
5. HARDWARE TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
6. HARDWARE: FINISH TO BE BUILDING STANDARD UNLESS NOTED OTHERWISE. COORIDNATE AND VERIFY WITH HOSPITAL FACILTIES REPRESENTATIVE ON ALL HARDWARE PRIOR TO ORDERING.
7. CONTRACTOR TO SUBMIT DOOR AND HARDWARE SHOP DRAWINGS TO OWNER FOR REVIEW PRIOR TO WORK BEING PERFORMED. FAILURE TO SUBMIT DRAWINGS RESULTS IN THE CONTRACTOR ASSUMING ALL RESPONSIBILITY AT THEIR OWN EXPENSE.

DOOR & FRAME MAT'L LEGEND

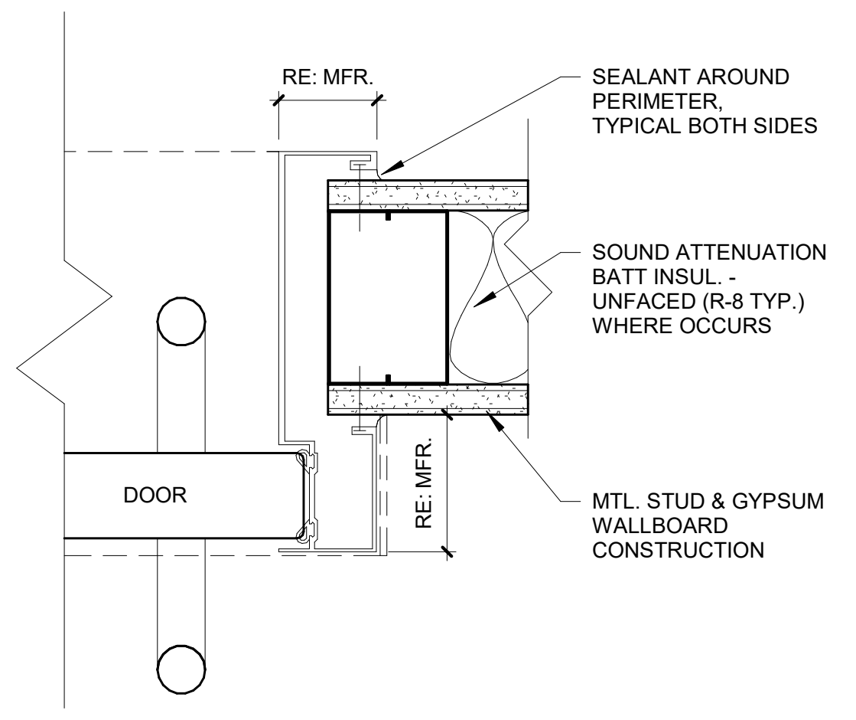
ALUM	ALUMINUM
HM	HOLLOW METAL
WD	SOLID CORE WOOD
T	TEMPERED
ETR	EXISTING TO REMAIN


LINE OF FRAME BELOW
HOLLOW METAL FRAME WITH JAMB ANCHOR
SEALANT AROUND PERIMETER, TYPICAL BOTH SIDES
METAL STUD & GYPSUM WALLBOARD CONSTRUCTION
CORRIDOR
ROOM SIDE
2"
SOUND ATTENUATION BATT INSULATION WHERE OCCURS

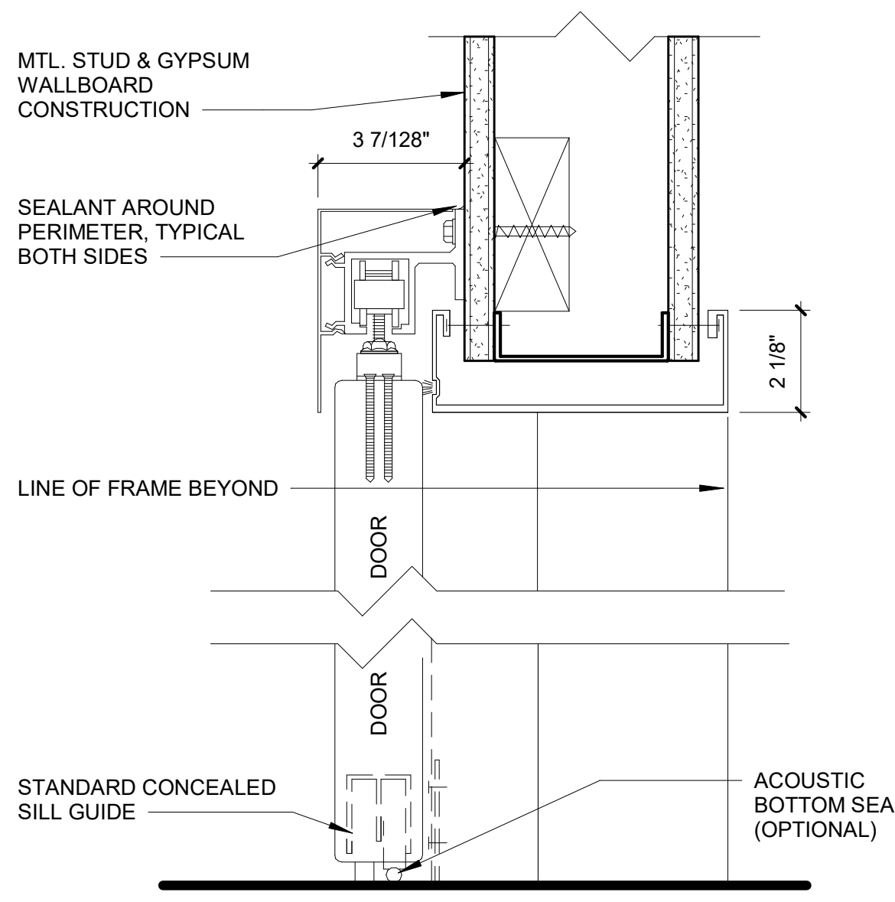
C6 JAMB- HOLLOW MTL. SIDELIGHT/ BORROWED LIGHT FRAME
3" = 1'-0"


CORRIDOR
ROOM SIDE
LINE OF FRAME BEYOND
GLAZING PER OPENING SCHEDULE
2"
HOLLOW METAL BORROWED LIGHT/ SIDE LIGHT FRAME WITH REMOVEABLE STOPS
SEALANT AROUND PERIMETER, TYPICAL BOTH SIDES
JAMB ANCHOR
METAL STUD AND GYPSUM WALLBOARD CONSTRUCTION
SOUND ATTENUATION BATT INSULATION WHERE OCCURS

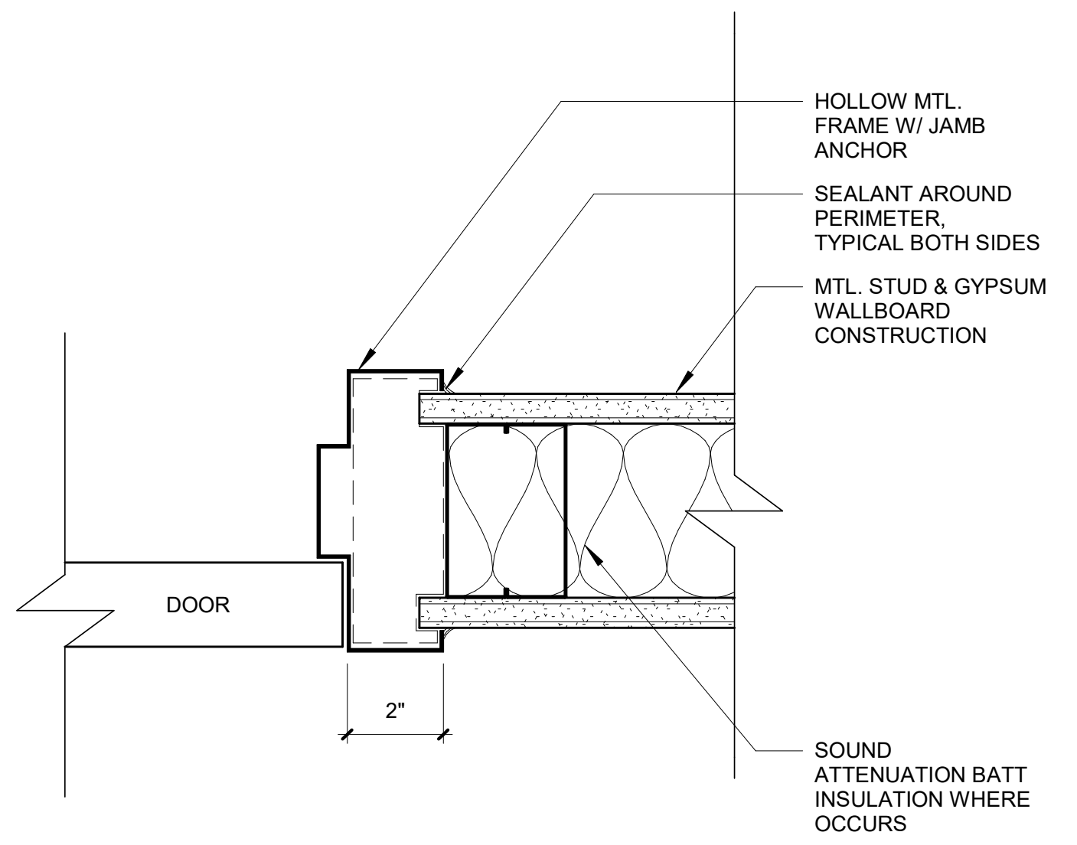
C5 SILL- HOLLOW MTL. SIDELIGHT/ BORROWED LIGHT FRAME
3" = 1'-0"


RE: MFR.
SEALANT AROUND PERIMETER, TYPICAL BOTH SIDES
SOUND ATTENUATION BATT INSUL. - UNFACED (R-8 TYP.) WHERE OCCURS
DOOR
RE: MFR.
MTL. STUD & GYPSUM WALLBOARD CONSTRUCTION

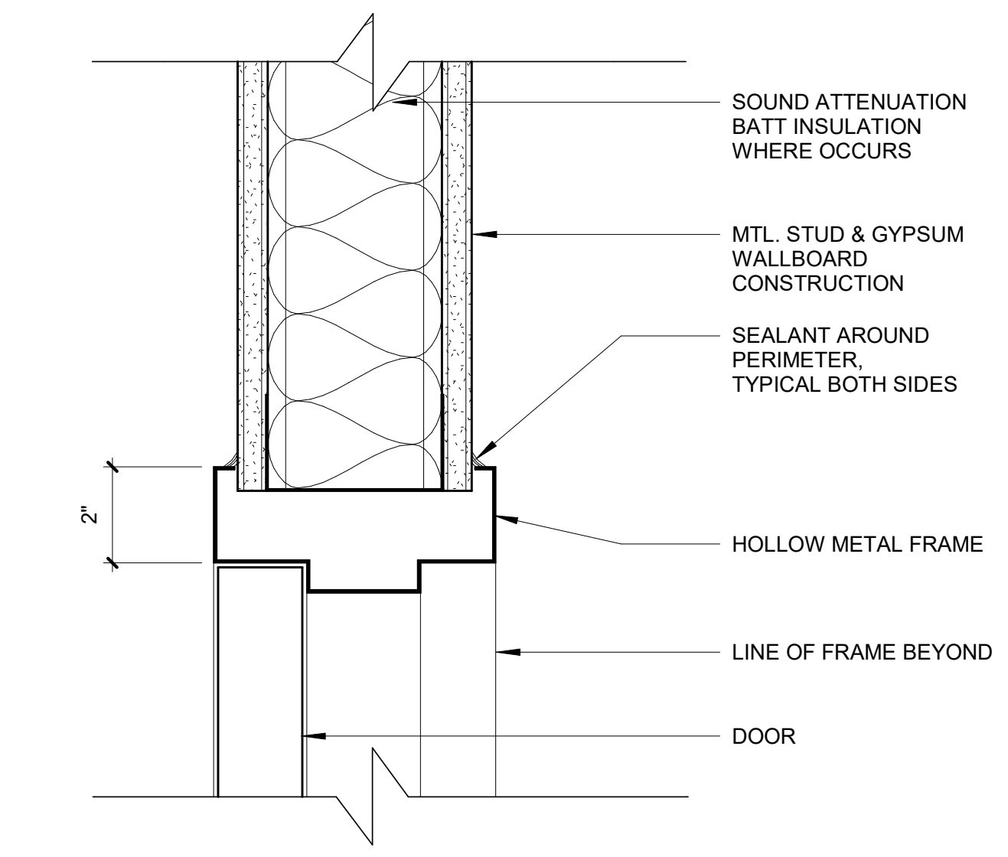
C4 SLIDING BARN DOOR - JAMB @ PULL SIDE
3" = 1'-0"


MTL. STUD & GYPSUM WALLBOARD CONSTRUCTION
3 7/128"
SEALANT AROUND PERIMETER, TYPICAL BOTH SIDES
2 1/8"
LINE OF FRAME BEYOND
DOOR
DOOR
STANDARD CONCEALED SILL GUIDE
ACOUSTIC BOTTOM SEAL (OPTIONAL)

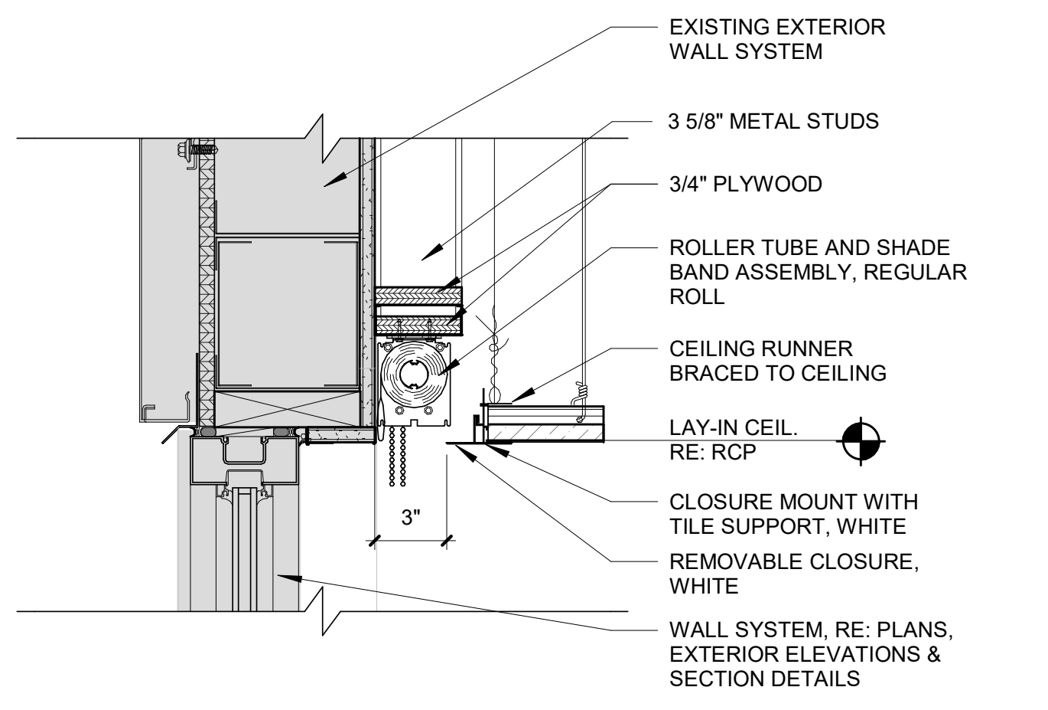
C3 SLIDING BARN DOOR - HEAD & SILL
3" = 1'-0"


HOLLOW MTL. FRAME W/ JAMB ANCHOR
SEALANT AROUND PERIMETER, TYPICAL BOTH SIDES
MTL. STUD & GYPSUM WALLBOARD CONSTRUCTION
DOOR
2"
SOUND ATTENUATION BATT INSULATION WHERE OCCURS

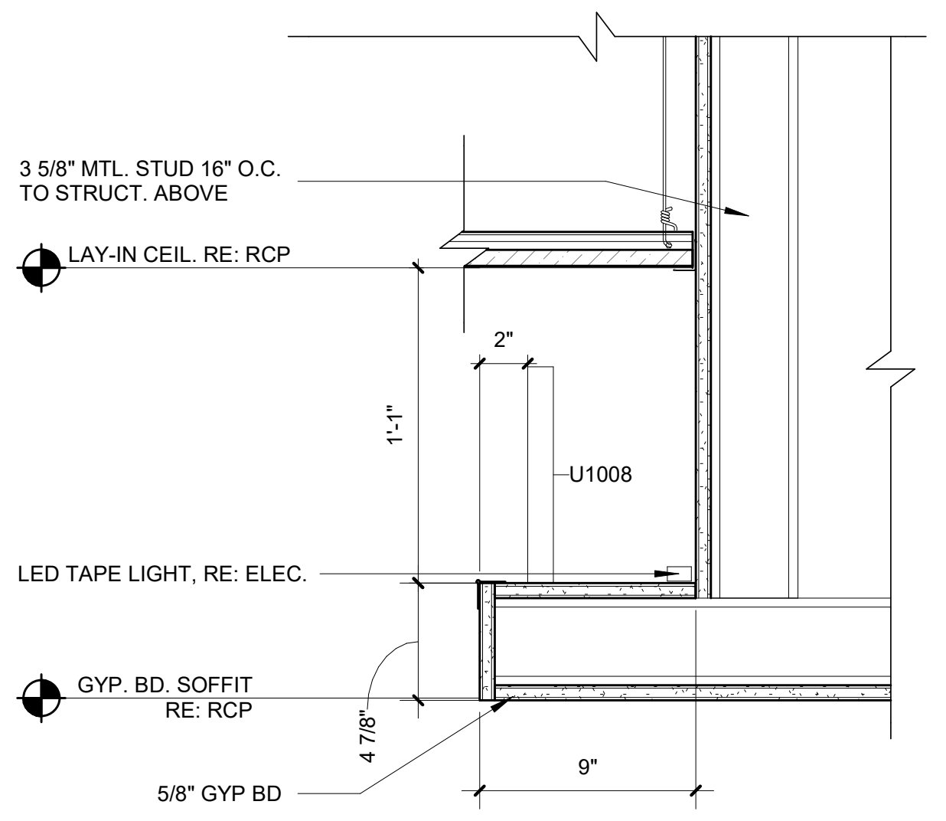
C2 TYPICAL JAMB- HOLLOW METAL DOOR FRAME
3" = 1'-0"


SOUND ATTENUATION BATT INSULATION WHERE OCCURS
MTL. STUD & GYPSUM WALLBOARD CONSTRUCTION
SEALANT AROUND PERIMETER, TYPICAL BOTH SIDES
2"
HOLLOW METAL FRAME
LINE OF FRAME BEYOND
DOOR

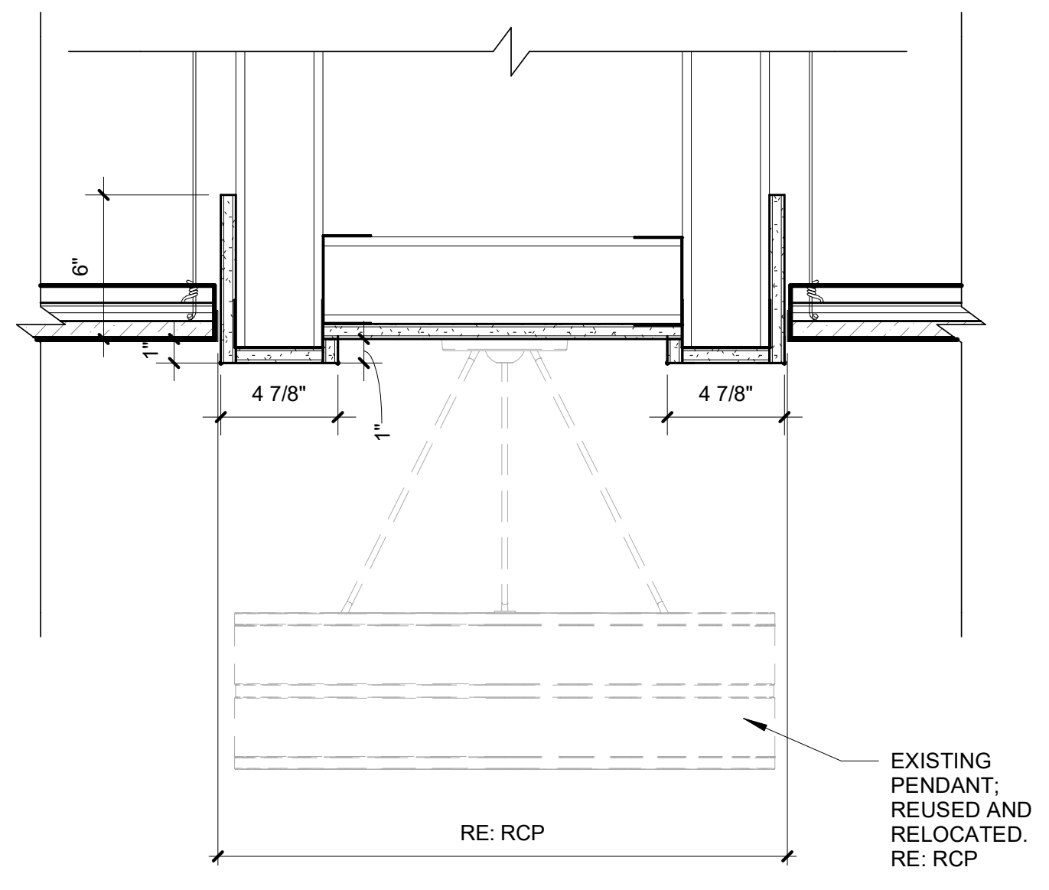
C1 TYPICAL HEAD - HOLLOW METAL DOOR FRAME
3" = 1'-0"


EXISTING EXTERIOR WALL SYSTEM
3 5/8" METAL STUDS
3/4" PLYWOOD
ROLLER TUBE AND SHADE BAND ASSEMBLY, REGULAR ROLL
CEILING RUNNER BRACED TO CEILING
LAY-IN CEIL. RE: RCP
3"
CLOSURE MOUNT WITH TILE SUPPORT, WHITE
REMOVABLE CLOSURE, WHITE
WALL SYSTEM, RE: PLANS, EXTERIOR ELEVATIONS & SECTION DETAILS

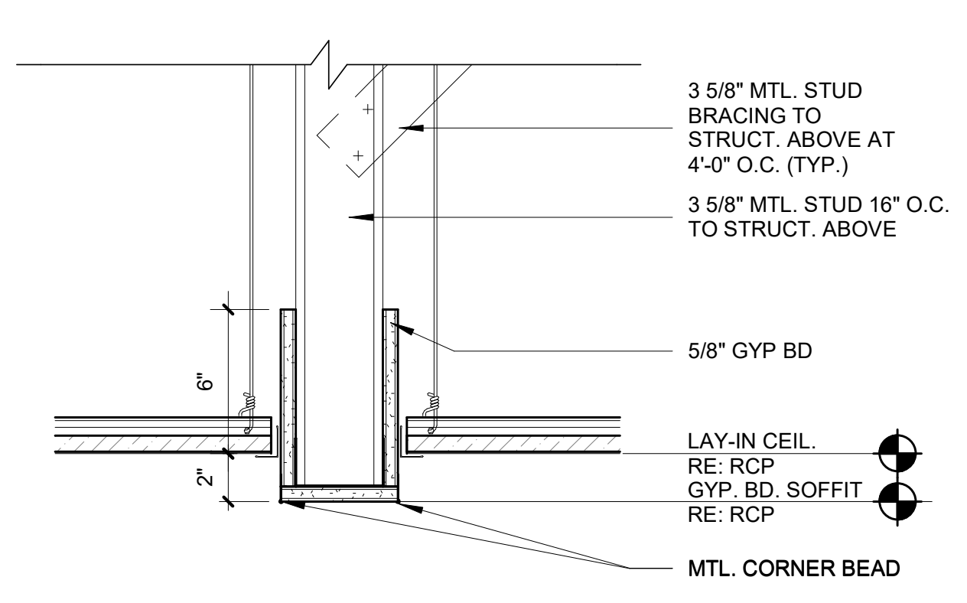
B1 DETAIL AT MANUAL SINGLE WINDOW SHADE
1 1/2" = 1'-0"


3 5/8" MTL. STUD 16" O.C. TO STRUCT. ABOVE
LAY-IN CEIL. RE: RCP
2"
1'-1"
U1008
LED TAPE LIGHT, RE: ELEC.
GYP. BD. SOFFIT RE: RCP
4 7/8"
9"
5/8" GYP BD

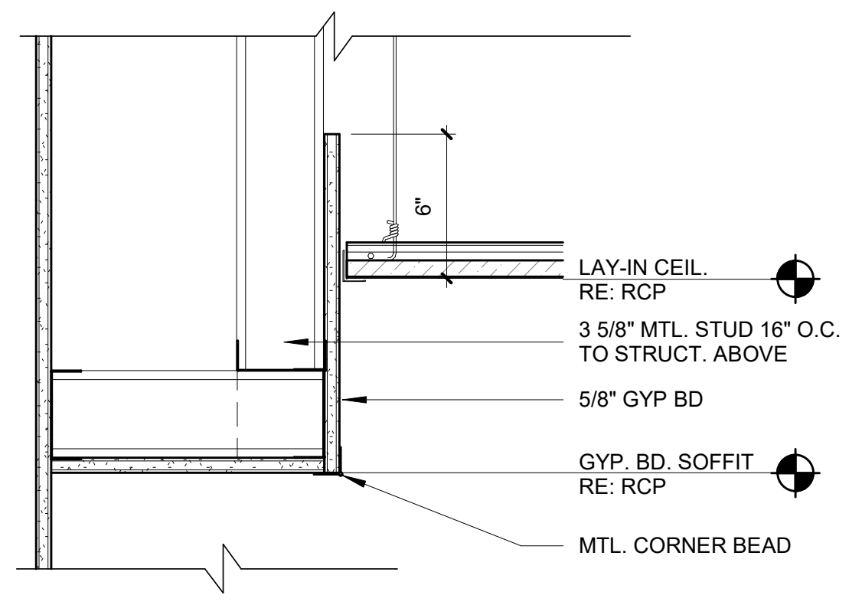
A7 DETAIL AT RECEPTION SOFFIT
1 1/2" = 1'-0"


6"
4 7/8"
4 7/8"
RE: RCP
EXISTING PENDANT, REUSED AND RELOCATED. RE: RCP

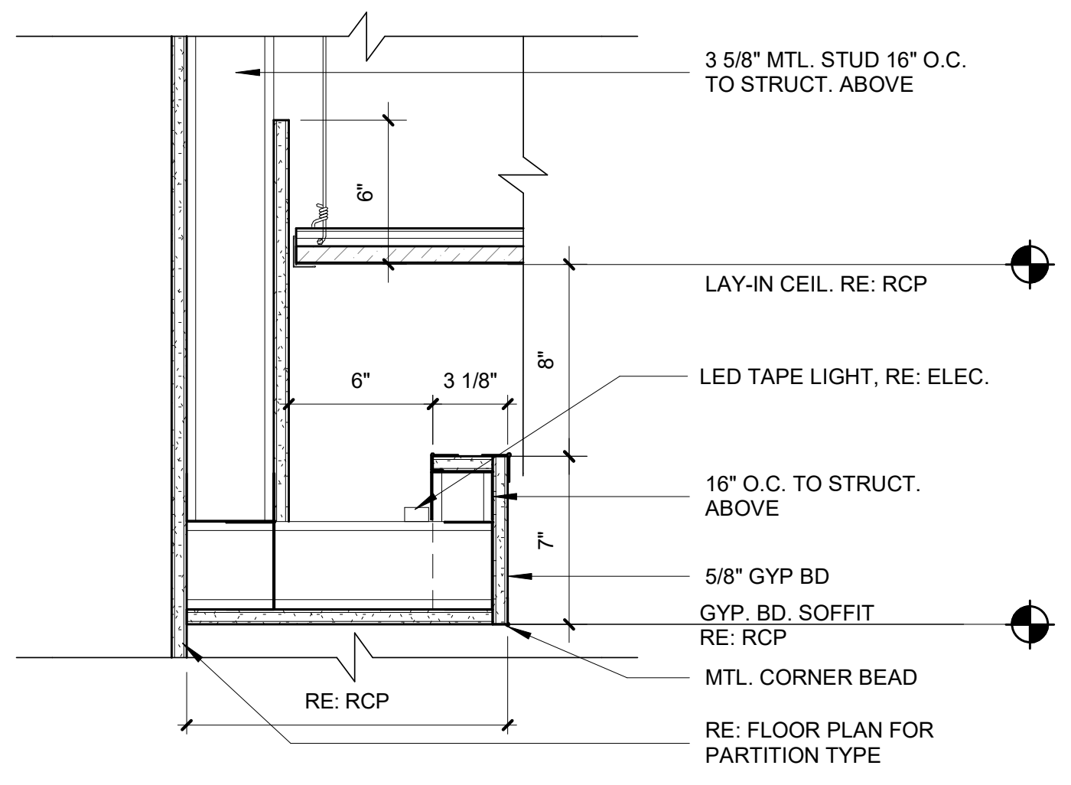
A6 DETAIL AT DRUM LIGHT SOFFITS
1 1/2" = 1'-0"


3 5/8" MTL. STUD BRACING TO STRUCT. ABOVE AT 4'-0" O.C. (TYP.)
3 5/8" MTL. STUD 16" O.C. TO STRUCT. ABOVE
5/8" GYP BD
6"
2"
LAY-IN CEIL. RE: RCP
GYP. BD. SOFFIT RE: RCP
MTL. CORNER BEAD

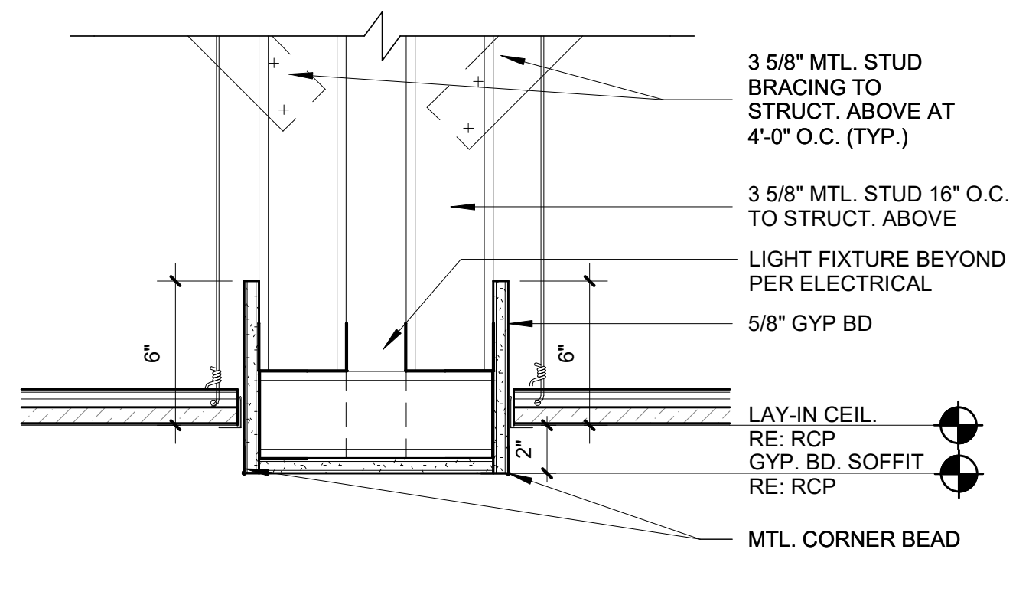
A5 DETAIL AT BULKHEAD
1 1/2" = 1'-0"


6"
LAY-IN CEIL. RE: RCP
3 5/8" MTL. STUD 16" O.C. TO STRUCT. ABOVE
5/8" GYP BD
GYP. BD. SOFFIT RE: RCP
MTL. CORNER BEAD

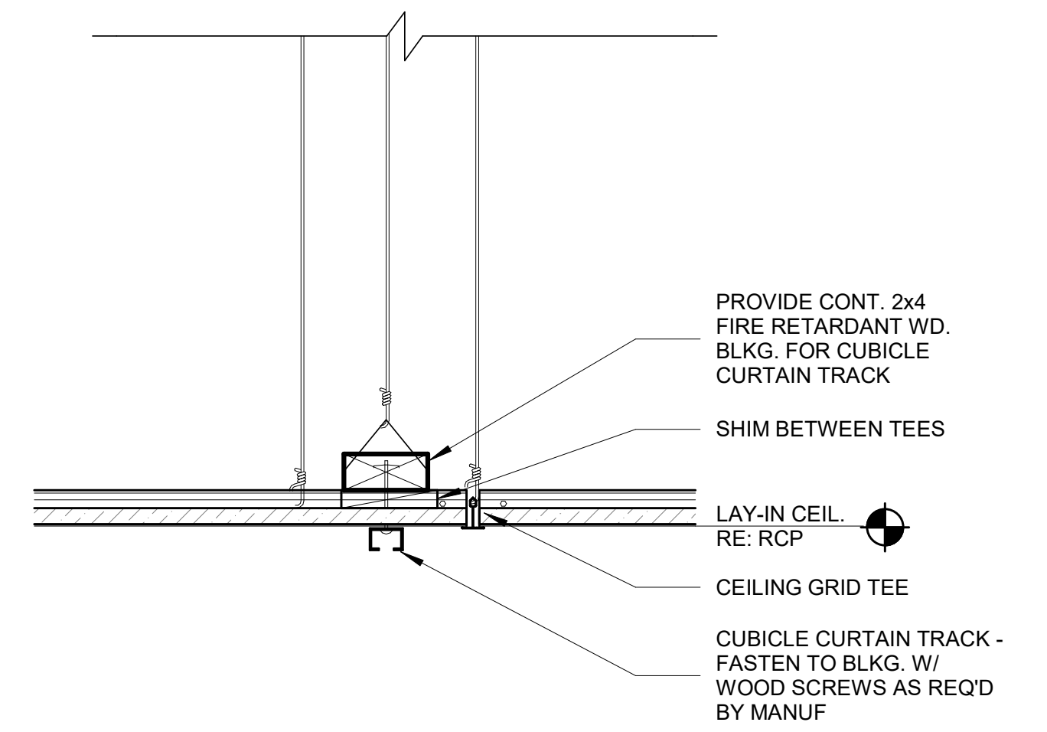
A4 GYPSUM BOARD SOFFIT
1 1/2" = 1'-0"


3 5/8" MTL. STUD 16" O.C. TO STRUCT. ABOVE
6"
LAY-IN CEIL. RE: RCP
6"
3 1/8"
8"
LED TAPE LIGHT, RE: ELEC.
16" O.C. TO STRUCT. ABOVE
7"
5/8" GYP BD
GYP. BD. SOFFIT RE: RCP
MTL. CORNER BEAD
RE: RCP
RE: FLOOR PLAN FOR PARTITION TYPE

A3 LIGHT COVE DETAIL
1 1/2" = 1'-0"


3 5/8" MTL. STUD BRACING TO STRUCT. ABOVE AT 4'-0" O.C. (TYP.)
3 5/8" MTL. STUD 16" O.C. TO STRUCT. ABOVE
LIGHT FIXTURE BEYOND PER ELECTRICAL
5/8" GYP BD
6"
6"
2"
LAY-IN CEIL. RE: RCP
GYP. BD. SOFFIT RE: RCP
MTL. CORNER BEAD

A2 DETAIL AT SOFFIT
1 1/2" = 1'-0"


PROVIDE CONT. 2x4 FIRE RETARDANT WD. BLKG. FOR CUBICLE CURTAIN TRACK
SHIM BETWEEN TEES
LAY-IN CEIL. RE: RCP
CEILING GRID TEE
CUBICLE CURTAIN TRACK - FASTEN TO BLKG. W/ WOOD SCREWS AS REQ'D BY MANUF

A1 DETAIL AT CUBICLE CURTAIN TRACK
1 1/2" = 1'-0"

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
04/17/2025

SAMUEL K. BECKMAN
A-2011012130

4/8/2025 09:05:46 AM
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Licensee's Certificate of Authority Number:
Missouri: #000958

MEP ENGINEER

HENDERSON ENGINEERS
1600 1091 WEST 84TH TER., SUITE 300
LENEXA, KS 66214
913.894.9720
Licensee's Certificate of Authority Number:
E-556D

SUMMIT GI ADDITION
SAINT LUKE'S EAST
100 NE SAINT LUKE'S BLVD.
LEE'S SUMMIT MO 64086

Date	04/07/25
Job Number	3-24100
Drawn By	BD
Checked By	SB

Revision

Number	Date	Description

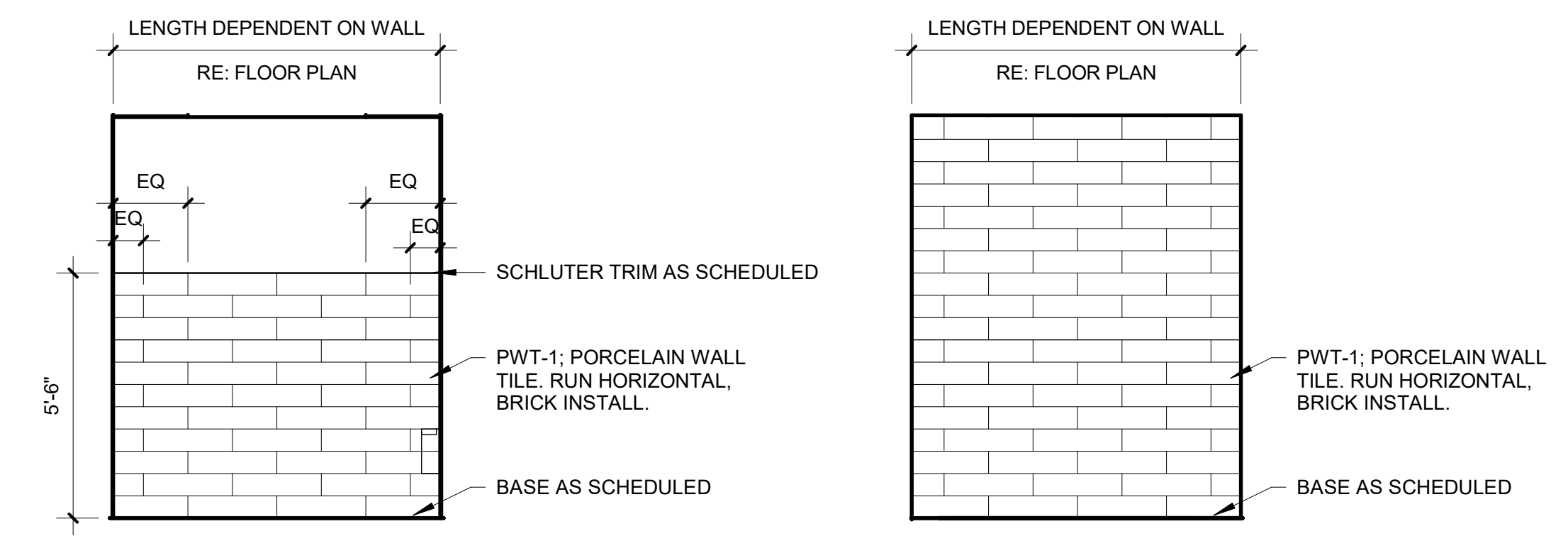
A410

DOOR/FRAME/INTERIOR WINDOW TYPES AND RCP DETAILS

Autodesk Docs://3-24100 SLE Summit GI/3-24100_SLE SUMMIT GI.rvt

4/8/2025 09:05:51 AM

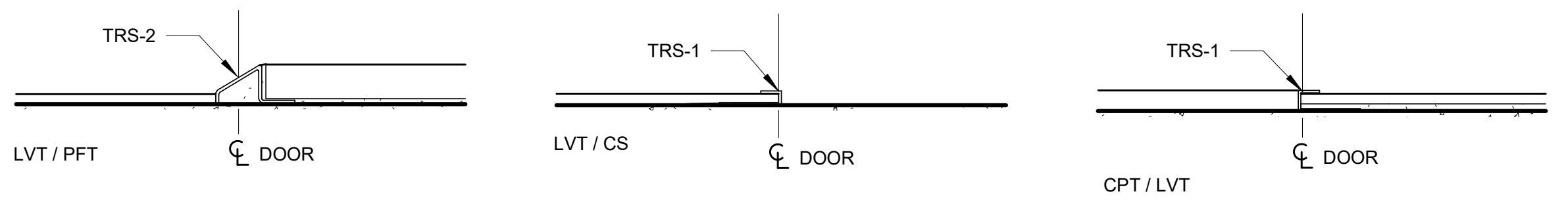
Autodesk Docs://3-24100 SLE Summit GI/3-24100_SLE SUMMIT GI.rvt


LENGTH DEPENDENT ON WALL
RE: FLOOR PLAN
EQ
EQ
EQ
EQ
5'-6"
SCHLUTER TRIM AS SCHEDULED
PWT-1; PORCELAIN WALL TILE. RUN HORIZONTAL, BRICK INSTALL.
BASE AS SCHEDULED
LENGTH DEPENDENT ON WALL
RE: FLOOR PLAN
PWT-1; PORCELAIN WALL TILE. RUN HORIZONTAL, BRICK INSTALL.
BASE AS SCHEDULED

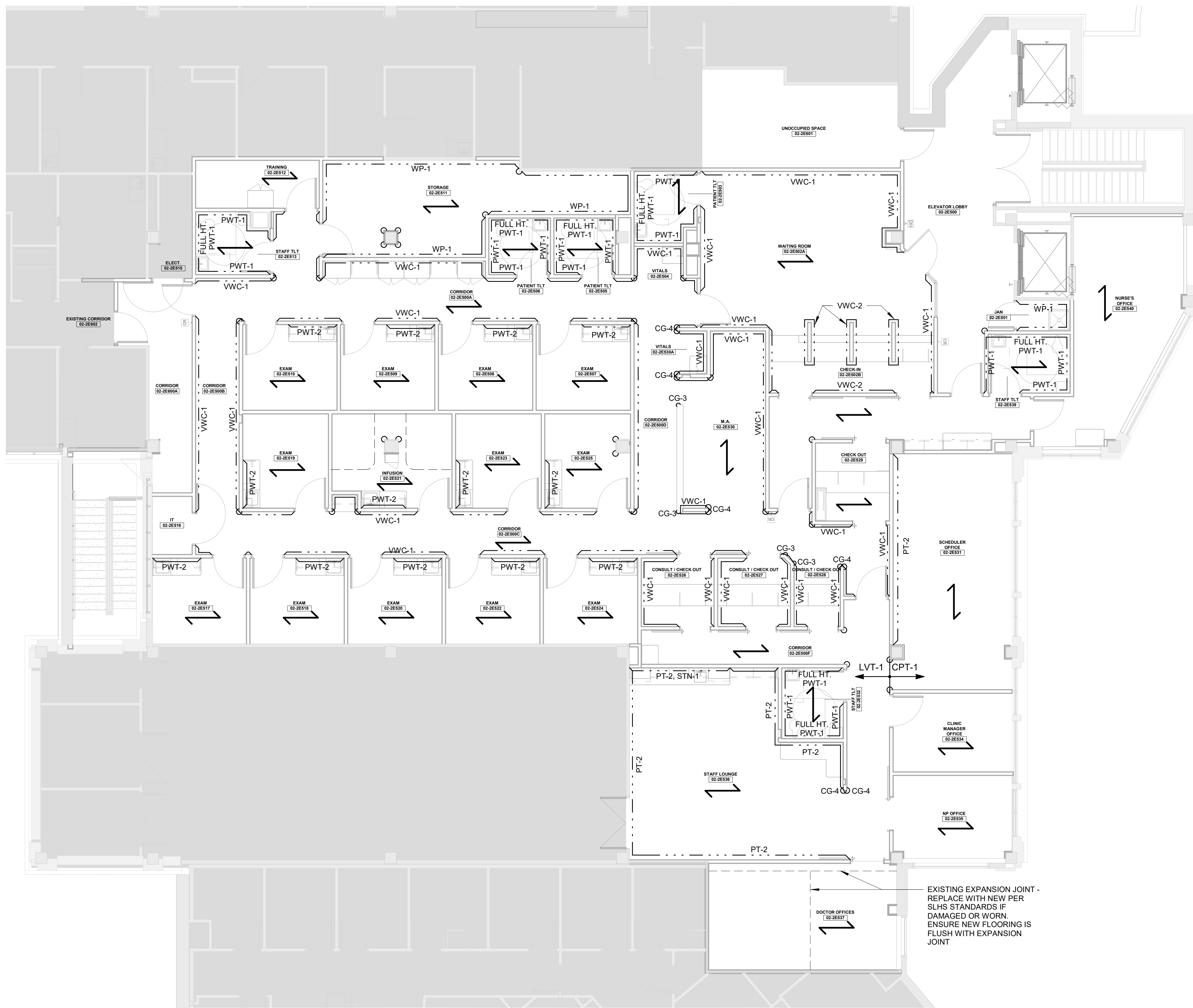
TYPICAL SIDE WALL (WITH METAL COVE BASE TRIM)

TYPICAL FULL WET WALL (WITH METAL COVE BASE TRIM)

D6 TYP. ELEV. OF WALL TILE PATTERN
1/4" = 1'-0"



D5 TRANSITION STRIP DETAILS
6" = 1'-0"



FINISH FLOOR PLAN LEGEND

— - - - —	WALL TREATMENT
——	FLOOR TRANSITION
◔	CORNER GUARD, CG-1 UNO
⇌	FLOOR FINISH DIRECTION

1. FOR ALL FLOORING TRANSITIONS, REFER TO TYPICAL TRANSITION DETAILS ON SHEET A700, UNLESS OTHERWISE NOTED ON THIS PLAN.
2. THIS FINISH PLAN IS TO BE USED FOR ADDITIONAL LOCATION CLARIFICATION OF FINISHES NOTED IN FINISH SCHEDULE.

A6 PROPOSED FLOOR PLAN
1/8" = 1'-0"

INTERIOR FINISH LEGEND

MARK	ITEM	MANUFACTURER	MODEL/ PATTERN	COLOR	SIZE	REMARKS	NOTES	REV. #
FLOOR								
CPT-1	CARPET	SHAW CONTRACT	HAZE TILE	NOTION 3T160	18" X 36"	MONOLITHIC INSTALLATION		
CS-1	SEALED CONCRETE	PER SPECIFICATIONS	PER SPECIFICATIONS	-	-	REFER TO ARCH. SPEC.		
LVT-1	LUXURY VINYL TILE	PARTERRE	INGRAINED	11409 LANCASTER WEATHERED	6" X 36", 1/8" THICKNESS	ASHLAR INSTALLATION		
LVT-2	LUXURY VINYL TILE	MANNINGTON	AMTICO STONE	CORINTHIAN MARBLE AROSTV13	18" X 18"	STRAIGHT EDGE ONLY. ASHLAR INSTALL		
PFT-1	PORCELAIN FLOOR TILE	DALTILE	FABRIQUE	P690 GRIS LINEN	12" X 24"	UNPOLISHED FINISH, BRICK INSTALLATION; USE GT-1		
TRS-1	TRANSITION	SCHLUTER	VINPRO S	BRUSHED CHROME ANODIZED ALUMINUM	-	RE: TRANSITION DETAILS		
TRS-2	TRANSITION	SCHLUTER	RENO-U	CLEAR SATIN ANODIZED ALUMINUM	-	RE: TRANSITION DETAILS		
BASE								
MTB-1	METAL BASE	SCHLUTER	DILEX-EHK	STAINLESS STEEL	-	TO BE USED WITH PFT-1 AND PWT-1		
RB-1	RESILIENT BASE	JOHNSONITE	4" BASEWORKS THERMOSET RUBBER TS	32 PEBBLE WG	4" COVE	ROLLED GOODS		
RB-2	RESILIENT BASE	ROPPE	PINNACLE PLUS, PROFILE #65	#129 DOLPHIN	4-5/8"	-		
WALL								
CG-1	CORNER GUARD	C/S ACROVYN	SM-20AN-ACROVYN-4000	#933 MISSION WHITE	3" X 3"	90 DEGREE. ABOVE BASE TO CEILING. INCLUDE ALL TRIM AND ACCESSORIES PIECES		
CG-2	CORNER GUARD	C/S ACROVYN	SM-20AN-ACROVYN-4000	#933 MISSION WHITE	3" X 3"	135 DEGREE. ABOVE BASE TO CEILING. INCLUDE ALL TRIM AND ACCESSORIES PIECES		
CG-3	CORNER GUARD	C/S ACROVYN	CO-8 STAINLESS STEEL	#4 SATIN FINISH	1" X 1"	90 DEGREE. ABOVE BASE. NURSE STATIONS.		
CG-4	CORNER GUARD	C/S ACROVYN	SSM-25AN-ACROVYN-4000	#933 MISSION WHITE	2"	END WALL. ABOVE BASE TO CEILING. INCLUDE ALL TRIM AND ACCESSORIES PIECES.		
GLT-1	GLASS WALL TILE	CROSSVILLE	EBB & FLOW LINEAR MOSAIC	SAND AND SURF	LINEAR MIX, 1/4" THICKNESS	INSTALL LINEAR DIRECTION OF TILE HORIZONTALLY		
PT-1	PAINT	SHERWIN WILLIAMS	FINISH: EGGSHELL	SW7036 ACCESSIBLE BEIGE	-	OVERALL PAINT		
PT-1A	PAINT	SHERWIN WILLIAMS	TWO PART EPOXY	SW7036 ACCESSIBLE BEIGE	-	OVERALL PAINT		
PT-2	PAINT	SHERWIN WILLIAMS	FINISH: EGGSHELL	SW7059 UNUSUAL GRAY	-	ACCENT PAINT		
PT-3B	PAINT	SHERWIN WILLIAMS	FINISH: FLAT	SW7068 GRIZZLE GRAY	-	ACCENT PAINT; SOFFIT COLOR		
PT-4	PAINT	SHERWIN WILLIAMS	FINISH: SEMI-GLOSS	SW9168 ELEPHANT EAR	-	ALL HOLLOW METAL DOORS AND FRAMES		
PT-5	PAINT	SHERWIN WILLIAMS	FINISH: EGGSHELL	SW7008 ALABASTER	-	FIELD PAINT		
PWT-1	PORCELAIN WALL TILE	DALTILE	FABRIQUE	P690 GRIS LINEN	6" x 24"	UNPOLISHED FINISH, BRICK INSTALLATION		
PWT-2	PORCELAIN WALL TILE	DALTILE	FABRIQUE	P690 GRIS LINEN	2" X 2"	EXAM COUNTERTOP BACKSPLASH		
STN-1	STONE WALL TILE	DALTILE	NATURAL STONE TRAVERTINE	MEDITERRANEAN IVORY	3" X 6"	HONED FINISH, BRICK INSTALLATION		
VWC-1	VINYL WALLCOVERING	WOLF GORDON	CLAIR PVC-FREE COLLECTION, OPUS	CREAM	-	-		
VWC-2	VINYL WALLCOVERING	DENOVO WALL	ANISHA	SMOKE DN2-ANI-15	-	-		
WP-1	WALL PROTECTION	C/S ACROVYN	ACROVYN 4000	PUMICE	4' X 8' OR 10' SHEET; .040" THICK	INCLUDE ALL ACCESSORIES AND TRIM PIECES. REFER TO TYPICAL WALL PROTECTION ELEVATION ON SHEET A740 FOR MOUNTING HEIGHT		
WP-2	WALL PROTECTION	C/S ACROVYN	ACROVYN 4000	#933 MISSION WHITE	4' X 10' SHEET; .040" THICK	INCLUDE ALL ACCESSORIES AND TRIM PIECES. REFER TO TYPICAL WALL PROTECTION ELEVATION ON SHEET A740 FOR MOUNTING HEIGHT		
CASEWORK								
IS-1	INTEGRAL SINK	CORIAN	804P	CAMEO WHITE	17-3/4" X 17-3/4" X 8"	-		
IS-2	INTEGRAL SINK	WILSONART	AK2615 SINGLE BOWL LARGE	CALM WHITE	18" X 28-1/4" X 9"	-		
PLAM-1	PLASTIC LAMINATE	WILSONART	AEON SCRATCH RESISTANT FINISH	HIGH LINE	4' x 8'	RUN VERTICALLY. MATCHING EDGE BANDING		
PLAM-2	PLASTIC LAMINATE	WILSONART	AEON SCRATCH RESISTANT FINISH	ASIAN NIGHT	4' x 8'	RUN VERTICALLY. MATCHING EDGE BANDING		
PLAM-3	PLASTIC LAMINATE	WILSONART	FINE VELVET TEXTURE FINISH	CASUAL LINEN	4' x 8'	MATCHING EDGE BANDING		
QTZ-1	QUARTZ	CAMBRIA	-	DARLINGTON	2CM, 3CM, SEACLIFF EDGE PROFILE	-		
SSF-1	SOLID SURFACE	WILSONART	9199MG	PEARL MIRAGE	1/2"; 30" X 144" SHEET, 36" X 144" SHEET	COUNTERTOPS; TO BE USED WITH PLAM-1 AND PLAM-3		
SSF-2	SOLID SURFACE	CORIAN	-	ARTISTA BEIGE	1/2"; 30" X 144" SHEET, 36" X 144" SHEET	RE: B3/A741 FOR FURTHER INSTALLATION INSTRUCTION		
SSF-3	SOLID SURFACE	CORIAN	-	DEEP MINK	1/2"; 30" X 144" SHEET, 36" X 144" SHEET	-		
SSF-4	SOLID SURFACE	CORIAN	-	BISQUE	1/2"; 30" X 144" SHEET, 36" X 144" SHEET	WINDOW SILLS		
CEILING								
ACT-1	ACOUSTIC CEILING TILE	USG	RADAR CLIMA PLUS #2210	WHITE	2' X 2'	SQUARE EDGE, DONN DX TEE 15/16" GRID SYSTEM		
PT-1B	PAINT	SHERWIN WILLIAMS	FINISH: FLAT	SW 7036 ACCESSIBLE BEIGE	-	CEILING PAINT		
MISC.								
ETR	EXISTING TO REMAIN	-	-	-	-	-		
GT-1	GROUT	MAPEI	ULTRACOLOR PLUS FA	GRAY	-	MINIMAL GROUT LINES; TO BE USED W/ PFT-1		
GT-2	GROUT	MAPEI	ULTRACOLOR PLUS FA	SILVER	-	MINIMAL GROUT LINES; TO BE USED W/ PWT-1 AND PWT-2		
GT-3	GROUT	MAPEI	ULTRACOLOR PLUS FA	MOONBEAM	-	MINIMAL GROUT LINES; TO BE USED W/ STN-1		
MT-1	METAL TRIM	SCHLUTER	JOLLY	CLEAR SATIN ANODIZED ALUMINUM	-	ALL EXPOSED OUTSIDE CORNERS OF WALL TILE		
PTM	PAINT TO MATCH	-	-	-	-	-		
WT-1	WINDOW TREATMENT	MECHOSHADE, OR EQUIVALENT	MECHO 5, SINGLE MANUAL SHADE SYSTEM	SHADECLOTH: SOHO 1100 SERIES, LIGHT GREY 1103, 1% OPEN	-	LOCATED AT ALL EXTERIOR WINDOWS WITHIN SCOPE. CONFIRM FINAL LOCATIONS W/ OWNER		

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALLS				CASEWORK				CEILING	NOTES	REV. #
				NORTH	EAST	SOUTH	WEST	BASE CABINETS	WALL CABINETS	COUNTERTOPS	SINKS			
02-2E500	ELEVATOR LOBBY	LVT-2	RB-2	PT-5	PT-5	PT-5	PT-5	-	-	-	-	ACT-1		
02-2E500A	CORRIDOR	LVT-1	RB-1	VWC-1	VWC-1	VWC-1	VWC-1	PLAM-2	-	SSF-2	-	ACT-1, PT-1B	2	
02-2E500B	CORRIDOR	LVT-1	RB-1	VWC-1	VWC-1	VWC-1	VWC-1	-	-	-	-	ACT-1, PT-1B	2	
02-2E500C	CORRIDOR	LVT-1	RB-1	VWC-1	VWC-1	VWC-1	VWC-1	PLAM-2	-	SSF-2	-	ACT-1, PT-1B	2	
02-2E500D	CORRIDOR	LVT-1	RB-1	VWC-1	VWC-1	VWC-1	VWC-1	-	-	-	-	ACT-1, PT-1B	2	
02-2E500E	CORRIDOR	LVT-1	RB-1	VWC-1	VWC-1	VWC-1	VWC-1	PLAM-1	PLAM-1	SSF-1	-	ACT-1		
02-2E500F	CORRIDOR	LVT-1	RB-1	VWC-1	VWC-1	VWC-1	VWC-1	PLAM-2	-	SSF-2	-	ACT-1		
02-2E501	JAN	CS-1	RB-1	PT-1A, WP-1	PT-1A, WP-1	PT-1A, WP-1	PT-1A, WP-1	-	-	-	-	EXPOSED		
02-2E502A	WAITING ROOM	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PLAM-1	PLAM-1, GLT-1	SSF-1, QTZ-1, PLAM-1	-	ACT-1, PT-3B	1,4,6	
02-2E502B	CHECK-IN	LVT-1	RB-1	VWC-2	VWC-1,2	VWC-2	VWC-1,2	PLAM-1	PLAM-1, GLT-1	SSF-1, QTZ-1	-	ACT-1, PT-3B	1,4	
02-2E503	PATIENT TLT	PFT-1	MTB-1	PT-1A, PWT-1	PT-1A, PWT-1	PT-1A, PWT-1	PWT-1	-	-	-	-	ACT-1	5	
02-2E504	VITALS	LVT-1	RB-1	VWC-1	VWC-1	-	VWC-1	PLAM-2	PLAM-2	SSF-2	-	PT-1B	3	
02-2E505	PATIENT TLT	PFT-1	MTB-1	PWT-1	PT-1A, PWT-1	PT-1A, PWT-1	PT-1A, PWT-1	-	-	-	-	ACT-1	5	
02-2E506	PATIENT TLT	PFT-1	MTB-1	PWT-1	PT-1A, PWT-1	PT-1A, PWT-1	PT-1A, PWT-1	-	-	-	-	ACT-1	5	
02-2E507	EXAM	LVT-1	RB-1	PT-1, PWT-2	PT-1	PT-1	PT-1	PLAM-3	PLAM-3	SSF-3	IS-1	ACT-1		
02-2E508	EXAM	LVT-1	RB-1	PT-1, PWT-2	PT-1	PT-1	PT-1	PLAM-3	PLAM-3	SSF-3	IS-1	ACT-1		
02-2E509	EXAM	LVT-1	RB-1	PT-1, PWT-2	PT-1	PT-1	PT-1	PLAM-3	PLAM-3	SSF-3	IS-1	ACT-1		
02-2E510	EXAM	LVT-1	RB-1	PT-1, PWT-2	PT-1	PT-1	PT-1	PLAM-3	PLAM-3	SSF-3	IS-1	ACT-1		
02-2E511	STORAGE	LVT-1	RB-1	PT-1, WP-1	PT-1, WP-1	PT-1, WP-1	PT-1, WP-1	-	-	-	-	ACT-1		
02-2E512	TRAINING	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PLAM-2	PLAM-2	-	-	ACT-1		
02-2E513	STAFF TLT	PFT-1	MTB-1, RB1	PT-1A, PWT-1	PT-1A, PWT-1	PT-1A, PWT-1	PWT-1	PLAM-2	-	-	-	ACT-1	5	
02-2E515	ELECT.	CS-1	RB-1	PT-1	PT-1	PT-1	PT-1	-	-	-	-	EXPOSED		
02-2E516	IT	CS-1	RB-1	PT-1	PT-1	PT-1	PT-1	-	-	-	-	ACT-1		
02-2E517	EXAM	LVT-1	RB-1	PT-1, PWT-2	PT-1	PT-1	PT-1	PLAM-3	PLAM-3	SSF-3	IS-1	ACT-1		
02-2E518	EXAM	LVT-1	RB-1	PT-1, PWT-2	PT-1	PT-1	PT-1	PLAM-3	PLAM-3	SSF-3	IS-1	ACT-1		
02-2E519	EXAM	LVT-1	RB-1	PT-1, PWT-2	PT-1	PT-1	PT-1, PWT-2	PLAM-3	PLAM-3	SSF-3	IS-1	ACT-1		
02-2E520	EXAM	LVT-1	RB-1	PT-1, PWT-2	PT-1	PT-1	PT-1	PLAM-3	PLAM-3	SSF-3	IS-1	ACT-1		
02-2E521	INFUSION	LVT-1	RB-1	PT-1, PWT-2	PT-1	PT-1, PWT-2	PT-1	PLAM-3	PLAM-3	SSF-3	IS-1	ACT-1		
02-2E522	EXAM	LVT-1	RB-1	PT-1, PWT-2	PT-1	PT-1	PT-1	PLAM-3	PLAM-3	SSF-3	IS-1	ACT-1		
02-2E523	EXAM	LVT-1	WP-1	PT-1, PWT-2	PT-1	PT-1, PWT-2	PT-1, PWT-2	PLAM-3	PLAM-3	SSF-3	IS-1	ACT-1		
02-2E524	EXAM	LVT-1	RB-1	PT-1, PWT-2	PT-1	PT-1	PT-1	PLAM-3	PLAM-3	SSF-3	IS-1	ACT-1		
02-2E525	EXAM	LVT-1	RB-1	PT-1, PWT-2	PT-1	PT-1, PWT-2	PT-1	PLAM-3	PLAM-3	SSF-3	IS-1	ACT-1		
02-2E526	CONSULT / CHECK OUT	LVT-1	RB-1	VWC-1	VWC-1	VWC-1	VWC-1	PLAM-1	-	SSF-1	-	ACT-1		
02-2E527	CONSULT / CHECK OUT	LVT-1	RB-1	VWC-1	VWC-1	VWC-1	VWC-1	PLAM-1	-	SSF-1	-	ACT-1		
02-2E528	CONSULT / CHECK OUT	LVT-1	RB-1	VWC-1	VWC-1	VWC-1	VWC-1	PLAM-1	-	SSF-1	-	ACT-1, PT-1B	3	
02-2E529	CHECK OUT	LVT-1	RB-1	VWC-1	VWC-1	VWC-1	VWC-1	PLAM-1	-	SSF-1	-	ACT-1		
02-2E530	M.A.	LVT-1	RB-1	VWC-1	VWC-1	VWC-1	VWC-1	PLAM-2	-	QTZ-1	-	ACT-1, PT-1B	3	
02-2E530A	VITALS	LVT-1	RB-1	VWC-1	VWC-1	VWC-1	-	PLAM-2	PLAM-2	SSF-2	-	PT-1B	3	
02-2E531	SCHEDULER OFFICE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-2	-	-	-	-	ACT-1	7	
02-2E532	STAFF TLT	PFT-1	MTB-1, RB1	PWT-1	PT-1A, PWT-1	PWT-1	PT-1A, PWT-1	PLAM-2	-	-	-	ACT-1	5	
02-2E534	CLINIC MANAGER OFFICE	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	-	-	-	-	ACT-1	7	
02-2E535	NP OFFICE	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	-	-	-	-	ACT-1	7	
02-2E536	STAFF LOUNGE	LVT-1	RB-1	PT-2, STN-1	PT-2	PT-2	PT-2	PLAM-2	SSF-1	SSF-2	IS-2	ACT-1		
02-2E537	DOCTOR OFFICES	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	-	-	-	-	ACT-1	7	
02-2E539	STAFF TLT	PFT-1	MTB-1, RB1	PWT-1	PT-1A, PWT-1	PT-1A, PWT-1	PT-1A, PWT-1	PLAM-2	-	-	-	ACT-1	5	
02-2E540	NURSE'S OFFICE	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	PLAM-1	PLAM-1	SSF-1	IS-1	ACT-1	7	
02-2E600A	CORRIDOR	LVT-2	RB-2	PT-5	PT-5	PT-5	PT-5	-	-	-	-	ACT-1		
02-2E601	UNOCCUPIED SPACE	ETR, PTM	ETR, PTM	ETR,PTM	ETR, PTM	ETR, PTM	ETR, PTM	ETR, PTM	ETR, PTM	ETR, PTM	ETR, PTM	ETR, PTM		
02-2E602	EXISTING CORRIDOR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR			
02-2ES03	EXISTING STAIR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR		
02-2ES04	EXISTING STAIR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR			

GENERAL ROOM FINISH SCHEDULE NOTES

A REFER TO FINISH PLAN AND INTERIOR ELEVATIONS FOR WALL FINISHES, WALL PROTECTION, CORNER GUARDS, WINDOW TREATMENTS, FLOOR FINISH APPLICATION AND LOCATIONS
B ALL SOLID WOOD, WOOD VENEER, AND PLASTIC LAMINATE GRAIN SHALL BE VERTICALLY ORIENTED UNLESS OTHERWISE NOTED
C DOOR FRAMES, HOLLOW METAL WINDOW FRAMES TO BE PT-4 UNLESS OTHERWISE NOTED
D ALL FACES AND UNDERSIDES OF SOFFITS AND HEADERS TO BE PT-1 UNLESS OTHERWISE NOTED
E WALL EXPANSION JOINTS TO BE PT-1 UNLESS OTHERWISE NOTED
F ALL ELECTRICAL PANELS AND METAL GRILLES SHALL BE PTD TO MATCH ADJACENT WALL SURFACE UNLESS OTHERWISE NOTED
G ALL COLUMN SURROUND FINISHES TO MATCH ADJACENT WALL SURFACE UNLESS OTHERWISE NOTED
H WHERE A WALL IS INDICATED TO HAVE PARTIAL OR FULL HT WALL PROTECTION, THE ENTIRE WALL IS TO BE PTD PRIOR TO WALL PROTECTION INSTALLATION
I EXTEND ALL FINISHES BENEATH, BEHIND, AROUND ALL CASEWORK, EQUIPMENT, SIGNAGE, ETC
J ALL WINDOW SILLS TO BE SSF-4
K ALL SST SINKS, RE: MEP
L SUBMIT SAMPLES OF ALL FINISHES TO ARCHITECT FOR REVIEW PRIOR TO THE ORDERING OF MATERIAL.
M NO IRREGULARITIES OR IMPERFECTIONS SHALL BE PRESENT IN ANY OF THE MATERIAL BEING INSTALLED. IF SUCH ITEMS ARE IDENTIFIED DURING APPLICATION, WORK SHALL BE STOPPED AND THE ARCHITECT NOTIFIED.
N PROVIDE ALL MAINTENANCE MANUALS AND WARRANTY INFORMATION FOR EACH FINISH MATERIAL TO OWNER AT COMPLETION OF THE PROJECT.
O FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE WORK OF FINISH APPLICATIONS.
P ALL FINISHES SHALL BE INSTALLED AND MAINTAINED PER MANUFACTURER'S RECOMMENDATION AND INDUSTRY STANDARDS.
Q THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING AND CONFIRMING ALL SUBSTRATE CONDITIONS WHERE NEW MATERIALS ARE APPLIED. SUBSTRATE SHALL BE SMOOTH, FREE OF DEFECTS AND SHALL CONFORM TO THE REQUIREMENTS OF THE FINISHED MATERIAL MANUFACTURERS RECOMMENDATIONS.
R ALL MATERIAL TO COMPLY WITH FLAME SPREAD CLASSIFICATION EITHER CLASS (1) ONE OR CLASS A DEPENDING ON GOVERNING CODE IN EFFECT.
S SMOKE DEVELOPMENT RATING < 450 FOR ALL FINISHES.
T NO WALL PROTECTION TO BE APPLIED TO EXTERIO WALLS, RE: ROOM FINISH SCHEDULE
U REFER TO DETAIL OF TYP. WALL PROTECTION/CORNER GUARD MOUNTING HEIGHTS SHOWN ON THE INTERIOR DETAILS SHEET FOR INFORMATION ON WALL PROTECTION, CORNER GUARDS, AND HANDRAILS. REFER TO ROOM FINISH SCHEDULE, FINISH PLANS AND INTERIOR ELEVATIONS FOR LOCATIONS.

SPECIFIC ROOM FINISH SCHEDULE NOTES

1 WORKSURFACE COUNTERTOP TO BE SSF-1. TRANSACTION TOP TO BE QTZ-1
2 FACE AND UNDERSIDE OF SOFFIT TO BE PT-1B
3 FACE OF SOFFIT TO BE SAME PAINT COLOR AS ADJACENT WALL. UNDERSIDE OF SOFFIT TO BE PT-1B
4 FACE AND UNDERSIDE OF SOFFIT TO BE PT-3B
5 REFER TO TYP. WALL TILE PATTERN ELEVATION ON SHEET A700
6 COUNTERTOP AT CASEWORK NEAR THE WAITING ENTRANCE DOOR TO BE PLAM-1. RE: ELEVATION AND DETAIL
7 INSTALL NEW SOLID SURFACE WINDOW SILLS - SSF4

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
04/17/2025

SAMUEL K. BECKMAN
A-2011012130

4/8/2025 09:05:51 AM
Samuel K. Beckman - Architect
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MEP ENGINEER

HENDERSON ENGINEERS
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LENEXA, KS 66214
913.894.9720
Licensee's Certificate of Authority Number:
E-556D

SUMMIT GI ADDITION
SAINT LUKE'S EAST
100 NE SAINT LUKE'S BLVD.
LEE'S SUMMIT MO 64086

Date	04/07/25
Job Number	3-24100
Drawn By	HG
Checked By	KS/SB

Revision

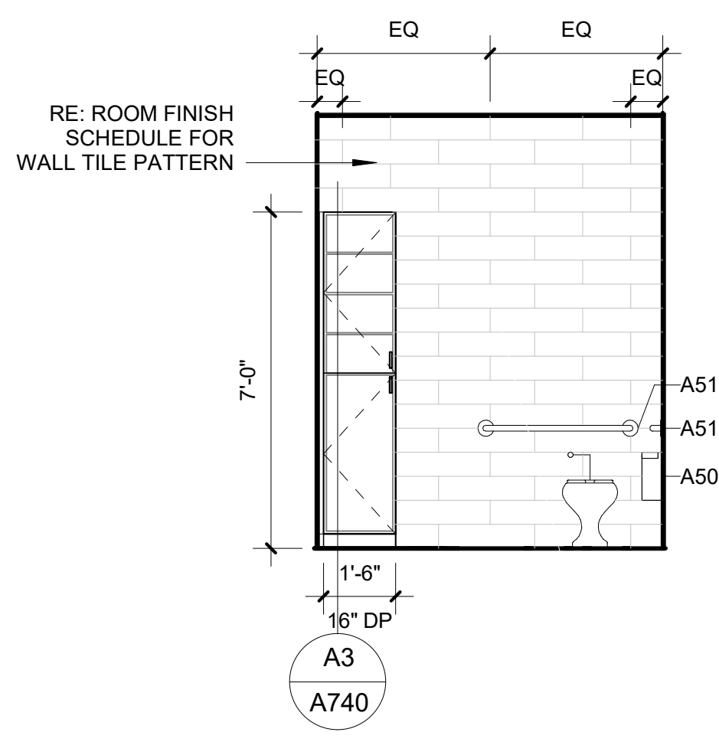
Number	Date	Description

A700

INTERIOR FINISH MATERIAL
LEGENDS, SCHEDULES AND PLAN

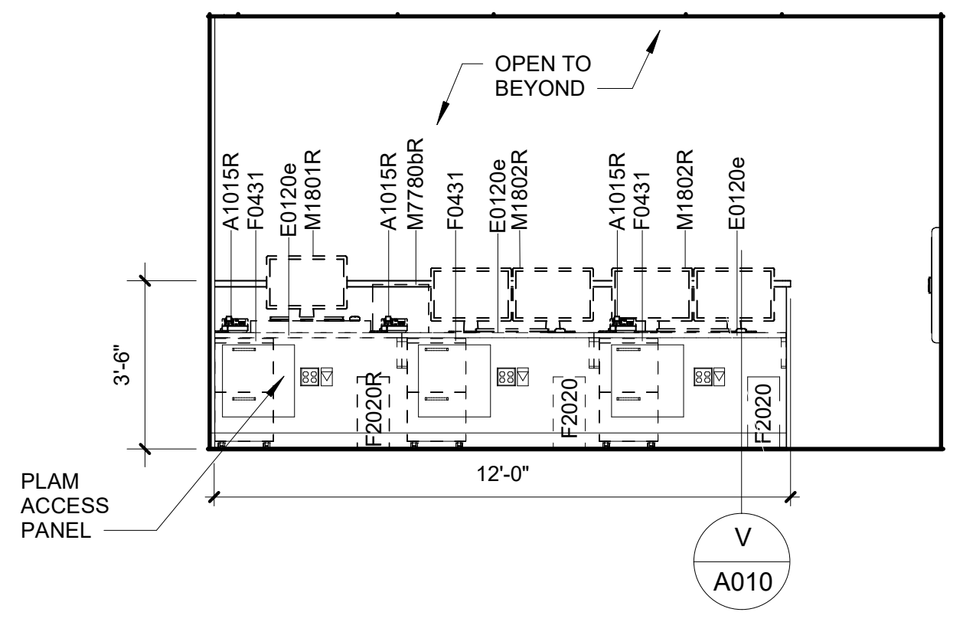
4/8/2025 09:06:13 AM

Autodesk Docs://3-24100 SLE Summit GI/3-24100_SLE SUMMIT GI.rvt


EQ
EQ
EQ
EQ
RE: ROOM FINISH SCHEDULE FOR WALL TILE PATTERN
7'-0"
A5109a
A5109b
A5090
1'-6"
16" DP
A3
A740

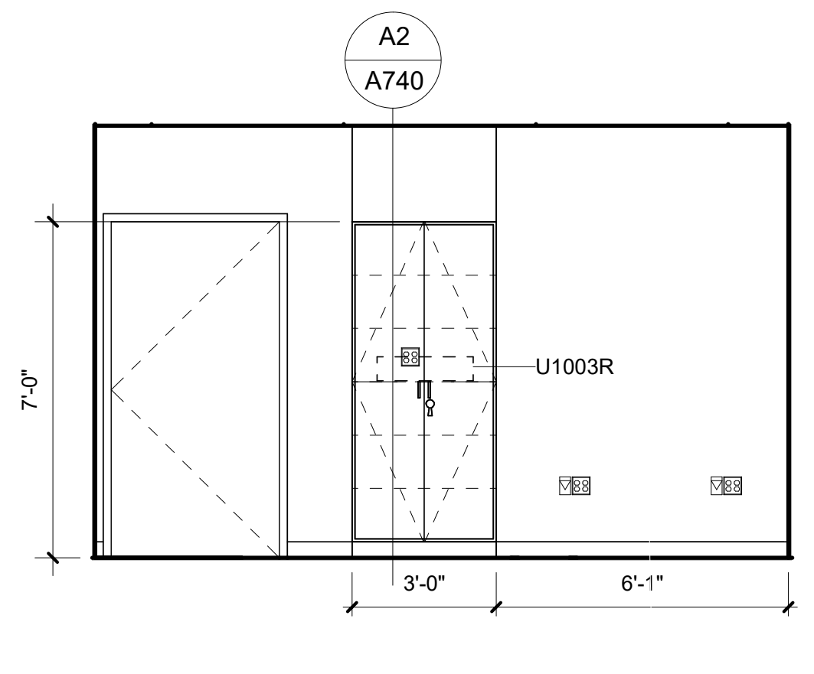
E3 02-2E532 TLT. - S.
1/4" = 1'-0"

02-2E532	
BASE CABINETS	PLAM-2
WALL CABINETS	-
COUNTERTOPS	-
SINKS	-


OPEN TO BEYOND
A1015R
F0431
E0120e
M1801R
A1015R
M7780bR
F0431
E0120e
M1802R
A1015R
F0431
M1802R
E0120e
3'-6"
F2020R
F2020
F2020
12'-0"
PLAM ACCESS PANEL
V
A010

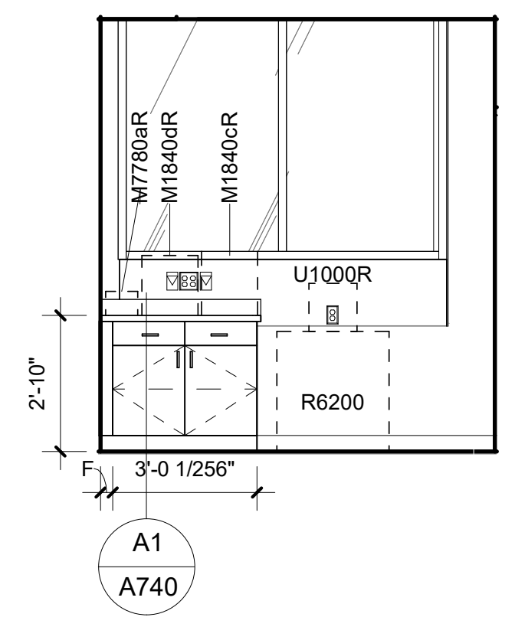
E2 M.A. - WEST
1/4" = 1'-0"

02-2E530	
BASE CABINETS	PLAM-2
WALL CABINETS	-
COUNTERTOPS	QTZ-1
SINKS	-


A2
A740
U1003R
7'-0"
3'-0"
6'-1"

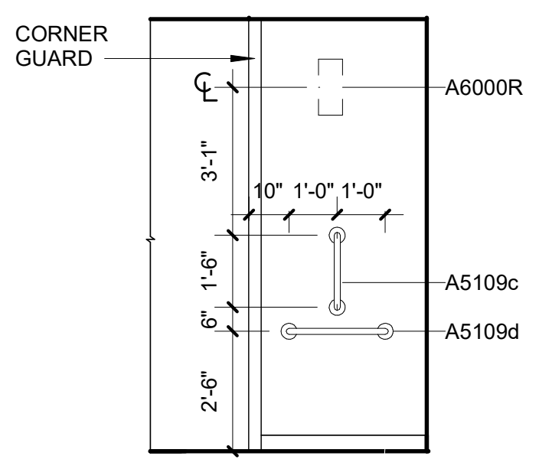
E1 TRAINING - SOUTH
1/4" = 1'-0"

02-2E512	
BASE CABINETS	PLAM-2
WALL CABINETS	PLAM-2
COUNTERTOPS	-
SINKS	-


M7780aR
M1840dR
M1840cR
U1000R
2'-10"
R6200
F
3'-0 1/256"
A1
A740

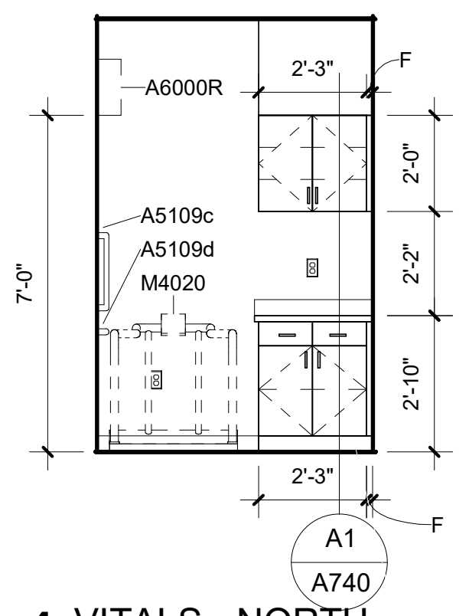
D6 NURSE'S OFFICE - SOUTH
1/4" = 1'-0"

02-2E540	
BASE CABINETS	PLAM-1
WALL CABINETS	PLAM-1
COUNTERTOPS	SSF-1
SINKS	IS-1


CORNER GUARD
A6000R
3'-1"
10"
1'-0"
1'-0"
1'-6"
6"
2'-6"
A5109c
A5109d

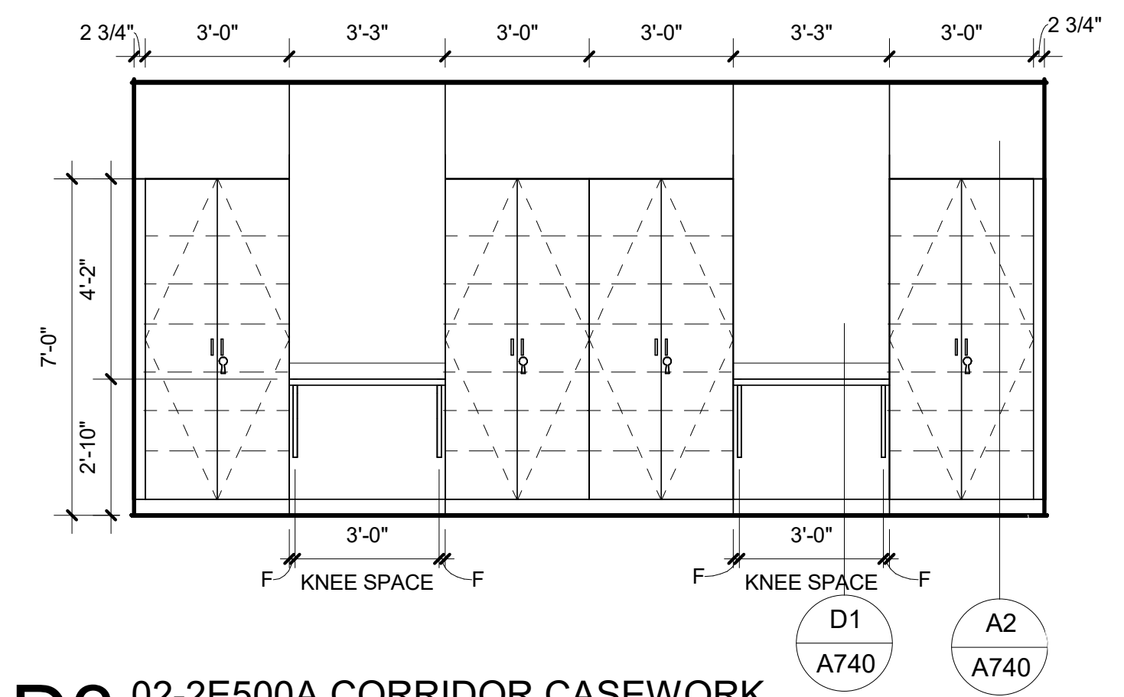
D5 VITALS NORTH
1/4" = 1'-0"

02-2E504	
BASE CABINETS	PLAM-2
WALL CABINETS	PLAM-2
COUNTERTOPS	SSF-2
SINKS	-


A6000R
2'-3"
F
A5109c
A5109d
M4020
7'-0"
2'-0"
2'-2"
2'-10"
2'-3"
F
A1
A740

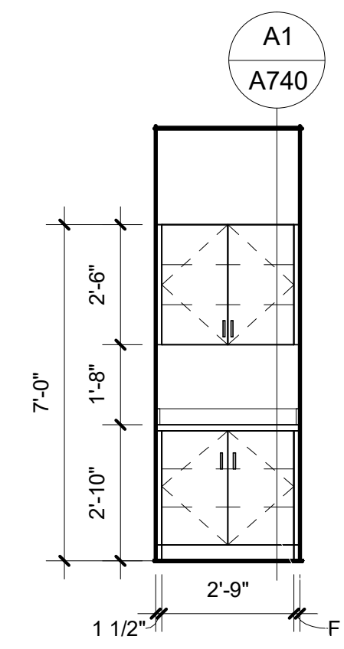
D4 VITALS - NORTH
1/4" = 1'-0"

02-2E504	
BASE CABINETS	PLAM-2
WALL CABINETS	PLAM-2
COUNTERTOPS	SSF-2
SINKS	-


2 3/4"
3'-0"
3'-3"
3'-0"
3'-0"
3'-3"
3'-0"
2 3/4"
7'-0"
4'-2"
2'-10"
3'-0"
KNEE SPACE
F
F
3'-0"
KNEE SPACE
F
F
D1
A740
A2
A740

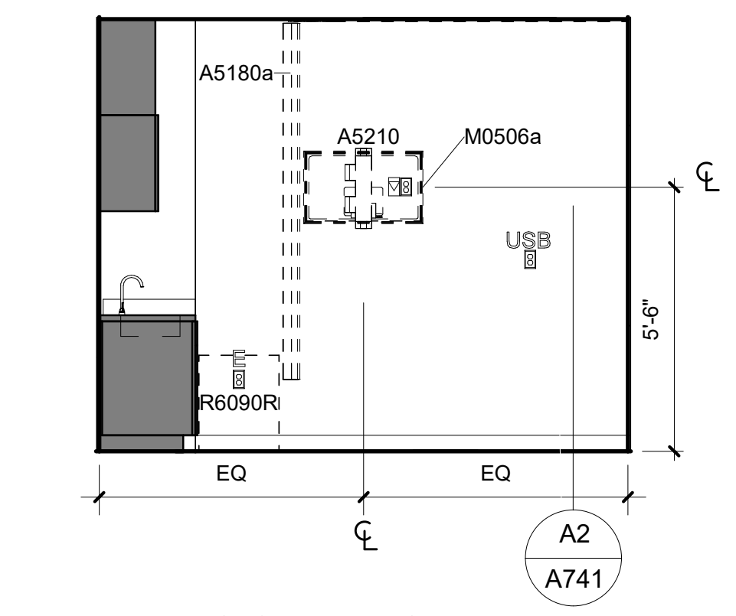
D3 02-2E500A CORRIDOR CASEWORK
1/4" = 1'-0"

02-2E500A	
BASE CABINETS	PLAM-2
WALL CABINETS	-
COUNTERTOPS	SSF-2
SINKS	-


A1
A740
7'-0"
2'-6"
1'-8"
2'-10"
2'-9"
1 1/2"
F

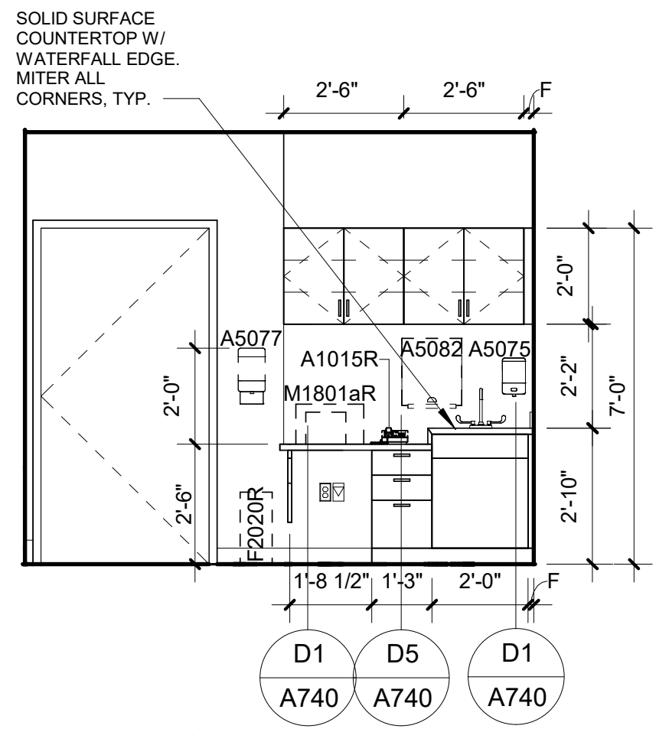
D2 02-2E500C CORRIDOR ALCOVE
1/4" = 1'-0"

02-2E500C	
BASE CABINETS	PLAM-2
WALL CABINETS	-
COUNTERTOPS	SSF-2
SINKS	-


A5180a
A5210
M0506a
USB
R6090R
5'-6"
EQ
EQ
A2
A741

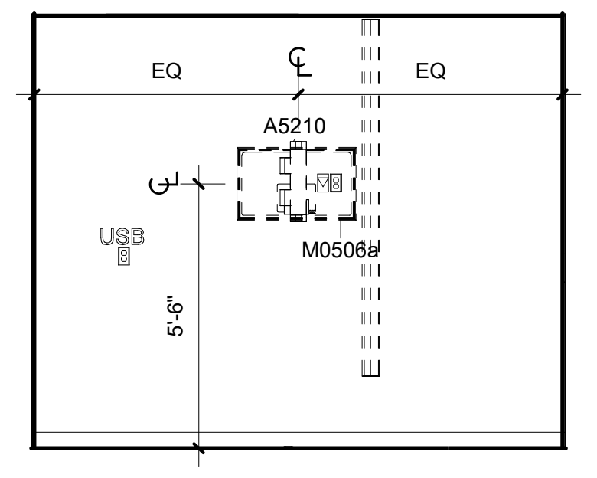
D1 INFUSION - WEST
1/4" = 1'-0"

02-2E521	
BASE CABINETS	PLAM-3
WALL CABINETS	PLAM-3
COUNTERTOPS	SSF-3
SINKS	IS-1


SOLID SURFACE COUNTERTOP W/ WATERFALL EDGE. MITER ALL CORNERS, TYP.
2'-6"
2'-6"
F
A5077
A1015R
A5082
A5075
M1801aR
2'-0"
2'-6"
F2020R
2'-0"
2'-2"
2'-10"
7'-0"
1'-8 1/2"
1'-3"
2'-0"
F
D1
A740
D5
A740
D1
A740

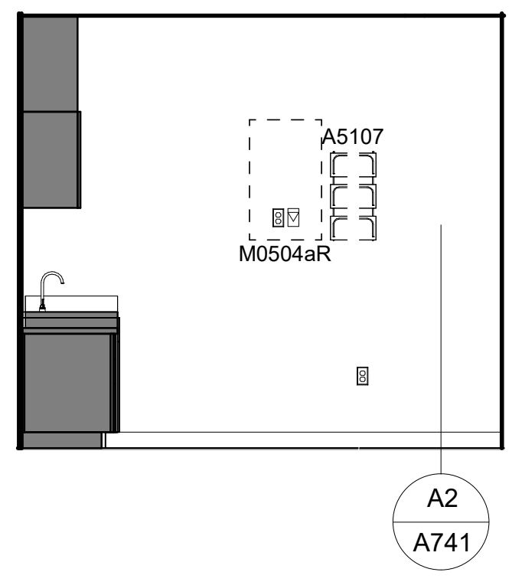
C6 INFUSION - SOUTH
1/4" = 1'-0"

02-2E521	
BASE CABINETS	PLAM-3
WALL CABINETS	PLAM-3
COUNTERTOPS	SSF-3
SINKS	IS-1


EQ
EQ
A5210
USB
M0506a
5'-6"

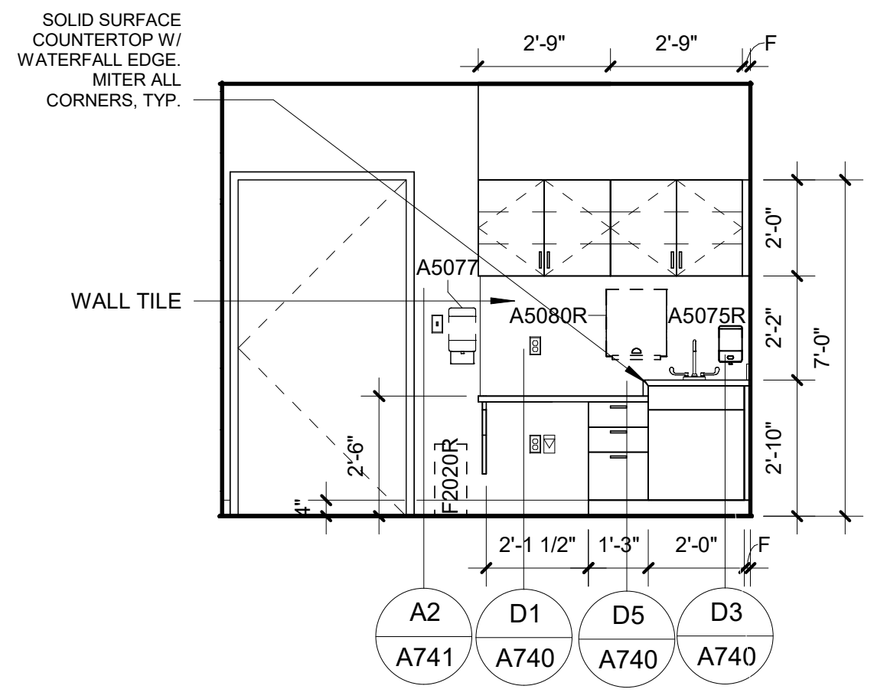
C5 INFUSION - EAST
1/4" = 1'-0"

02-2E521	
BASE CABINETS	PLAM-3
WALL CABINETS	PLAM-3
COUNTERTOPS	SSF-3
SINKS	IS-1


A5107
M0504aR
A2
A741

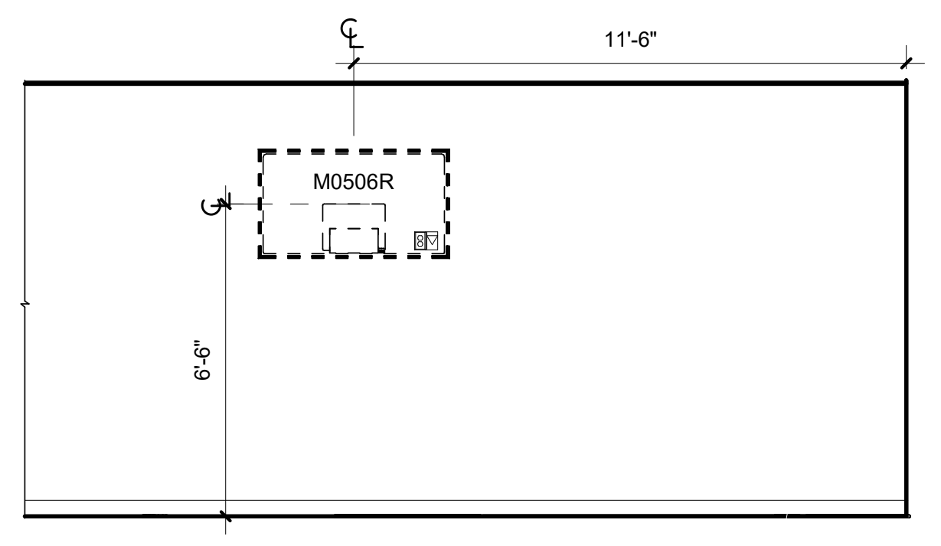
C4 TYPICAL EXAM - EAST
1/4" = 1'-0"

02-2E524	
BASE CABINETS	PLAM-3
WALL CABINETS	PLAM-3
COUNTERTOPS	SSF-3
SINKS	IS-1


SOLID SURFACE COUNTERTOP W/ WATERFALL EDGE. MITER ALL CORNERS, TYP.
2'-9"
2'-9"
F
WALL TILE
A5077
A5080R
A5075R
2'-6"
F2020R
2'-0"
2'-2"
2'-10"
7'-0"
2'-1 1/2"
1'-3"
2'-0"
F
A2
A741
D1
A740
D5
A740
D3
A740

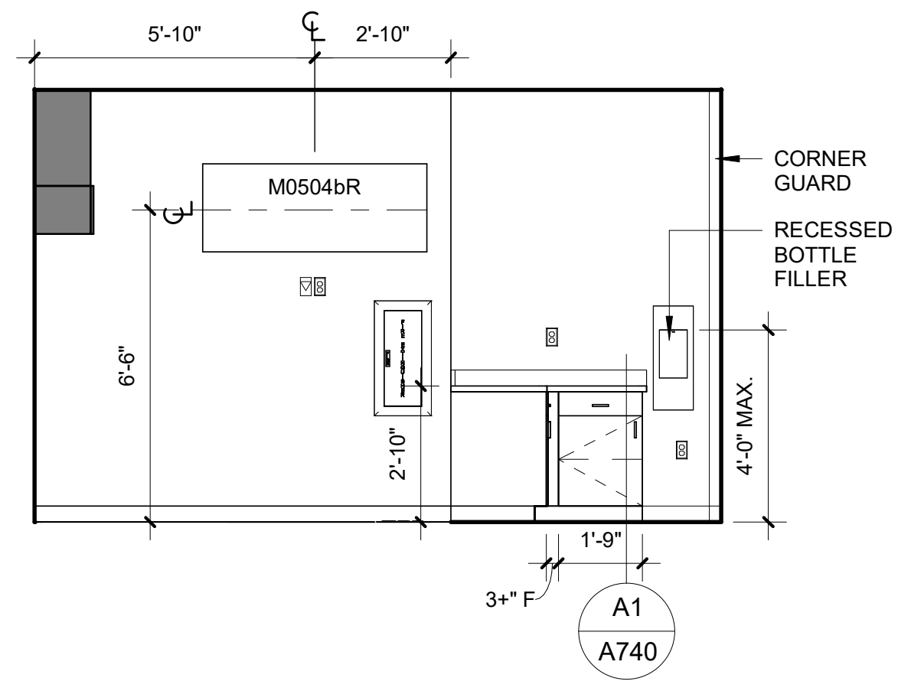
C3 TYPICAL EXAM - NORTH
1/4" = 1'-0"

02-2E524	
BASE CABINETS	PLAM-3
WALL CABINETS	PLAM-3
COUNTERTOPS	SSF-3
SINKS	IS-1


11'-6"
M0506R
6'-6"

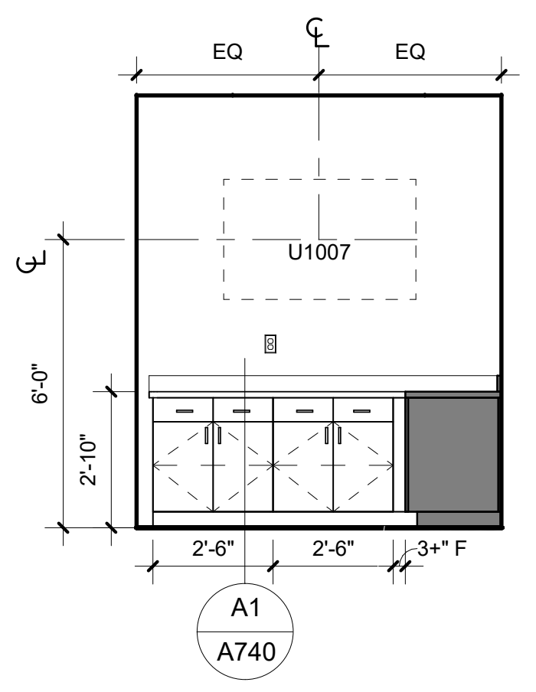
C2 STAFF LOUNGE - SOUTH
1/4" = 1'-0"

02-2E536	
BASE CABINETS	PLAM-2
WALL CABINETS	SSF-1
COUNTERTOPS	SSF-2
SINKS	IS-2


5'-10"
2'-10"
M0504bR
CORNER GUARD
RECESSED BOTTLE FILLER
6'-6"
2'-10"
4'-0" MAX.
1'-9"
3+" F
A1
A740

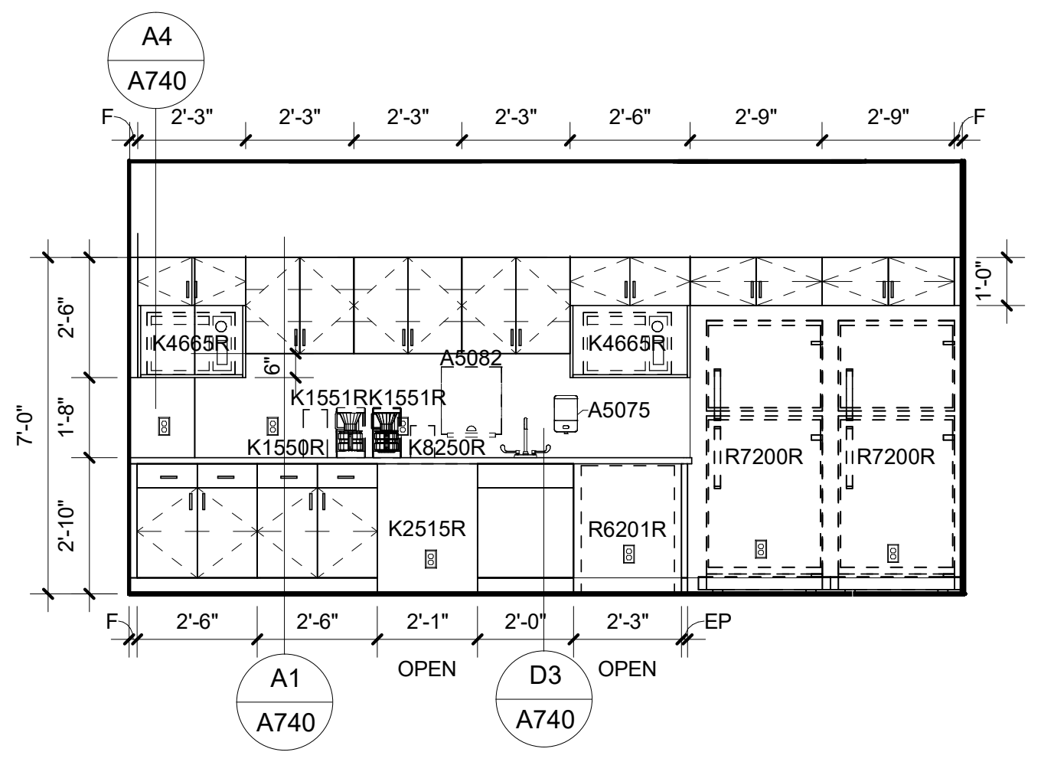
C1 STAFF LOUNGE - EAST 2
1/4" = 1'-0"

02-2E536	
BASE CABINETS	PLAM-2
WALL CABINETS	SSF-1
COUNTERTOPS	SSF-2
SINKS	IS-2


EQ
EQ
U1007
6'-0"
2'-10"
2'-6"
2'-6"
3+" F
A1
A740

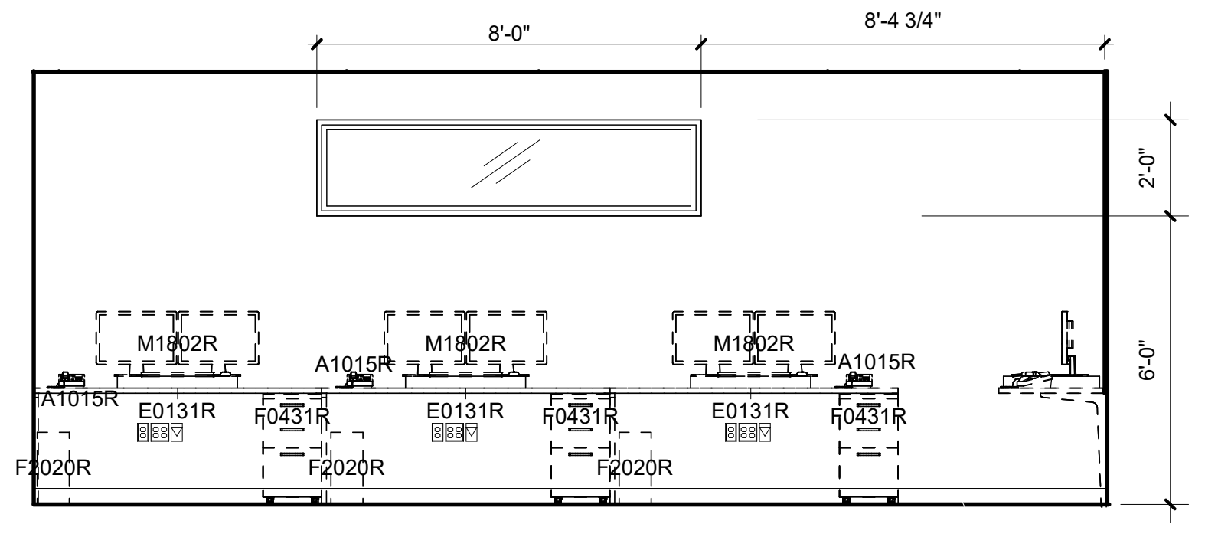
B6 STAFF LOUNGE - NORTH B
1/4" = 1'-0"

02-2E536	
BASE CABINETS	PLAM-2
WALL CABINETS	SSF-1
COUNTERTOPS	SSF-2
SINKS	IS-2


A4
A740
F
2'-3"
2'-3"
2'-3"
2'-3"
2'-6"
2'-9"
2'-9"
F
K4665R
A5082
K4665R
K1551R
K1551R
A5075
K1550R
K8250R
R7200R
R7200R
K2515R
R6201R
7'-0"
2'-6"
1'-8"
2'-10"
6"
1'-0"
F
2'-6"
2'-6"
2'-1"
2'-0"
2'-3"
EP
OPEN
OPEN
A1
A740
D3
A740

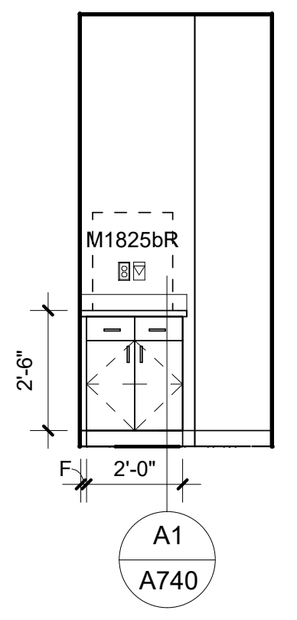
B5 STAFF LOUNGE - NORTH A
1/4" = 1'-0"

02-2E536	
BASE CABINETS	PLAM-2
WALL CABINETS	SSF-1
COUNTERTOPS	SSF-2
SINKS	IS-2


8'-0"
8'-4 3/4"
2'-0"
6'-0"
M1802R
M1802R
M1802R
A1015R
A1015R
A1015R
E0131R
E0131R
E0131R
F0431R
F0431R
F0431R
F2020R
F2020R
F2020R

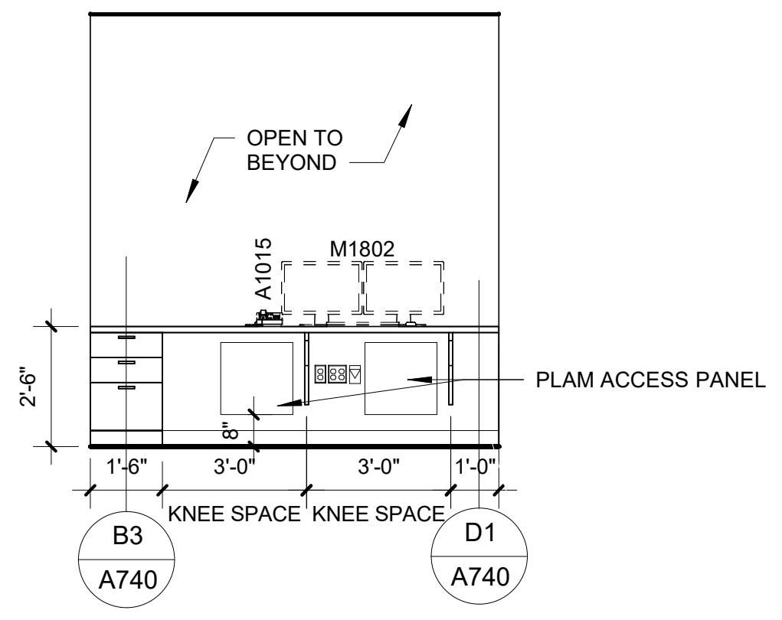
B4 SCHEDULER OFFICE - WEST
1/4" = 1'-0"

02-2E531	
BASE CABINETS	-
WALL CABINETS	-
COUNTERTOPS	-
SINKS	-


M1825bR
2'-6"
F
2'-0"
A1
A740

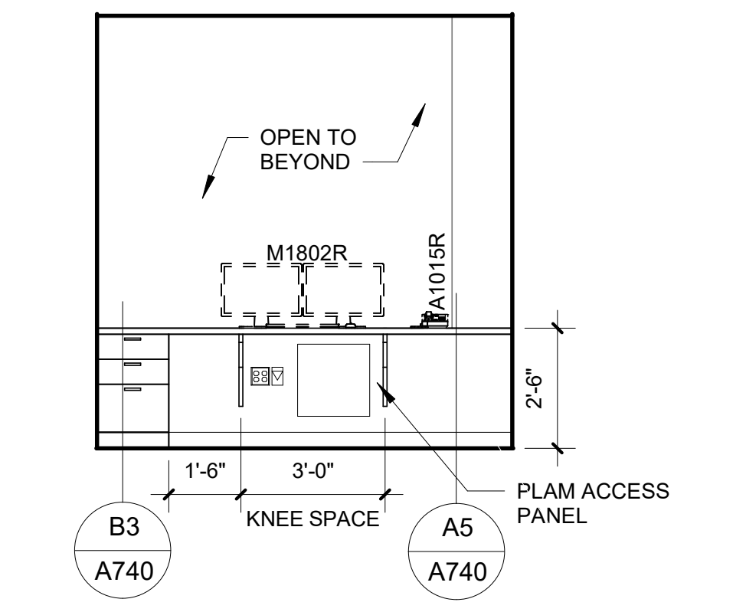
B3 CORRIDOR - WEST
1/4" = 1'-0"

02-2E500F	
BASE CABINETS	PLAM-2
WALL CABINETS	-
COUNTERTOPS	SSF-2
SINKS	-


OPEN TO BEYOND
A1015
M1802
PLAM ACCESS PANEL
2'-6"
8"
1'-6"
3'-0"
3'-0"
1'-0"
KNEE SPACE
KNEE SPACE
B3
A740
D1
A740

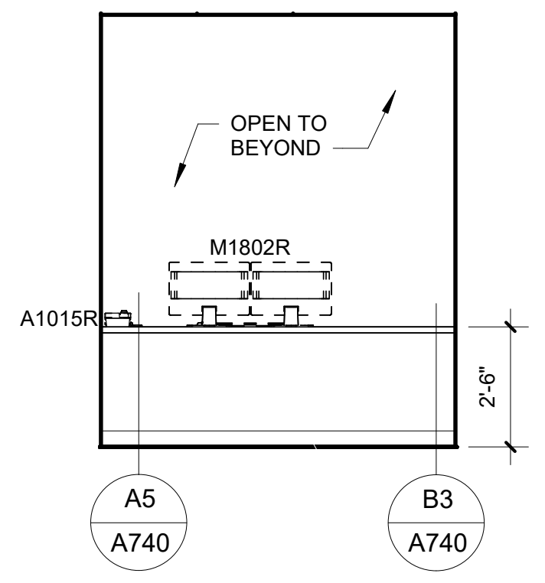
B2 CONSULT/CHECK OUT - NORTH
1/4" = 1'-0"

02-2E526	
BASE CABINETS	PLAM-1
WALL CABINETS	-
COUNTERTOPS	SSF-1
SINKS	-


OPEN TO BEYOND
M1802R
A1015R
2'-6"
1'-6"
3'-0"
KNEE SPACE
PLAM ACCESS PANEL
B3
A740
A5
A740

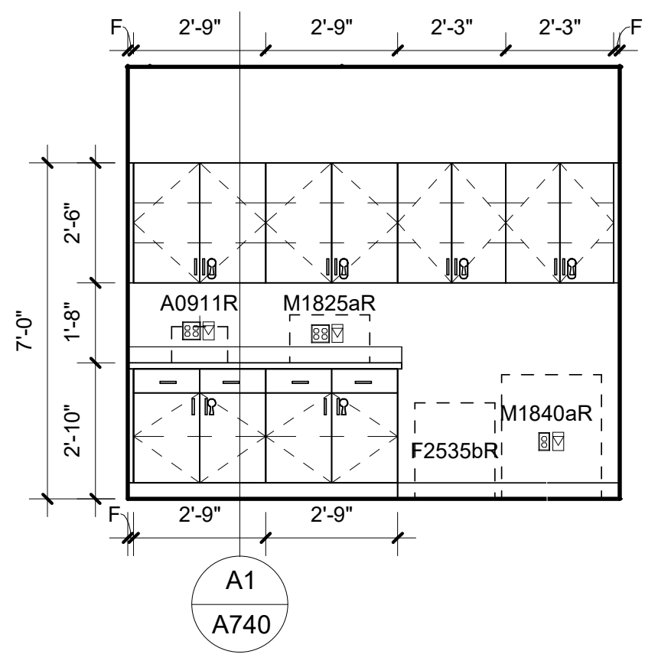
B1 CHECK OUT - SOUTH
1/4" = 1'-0"

02-2E529	
BASE CABINETS	PLAM-1
WALL CABINETS	-
COUNTERTOPS	SSF-1
SINKS	-


OPEN TO BEYOND
M1802R
A1015R
2'-6"
A5
A740
B3
A740

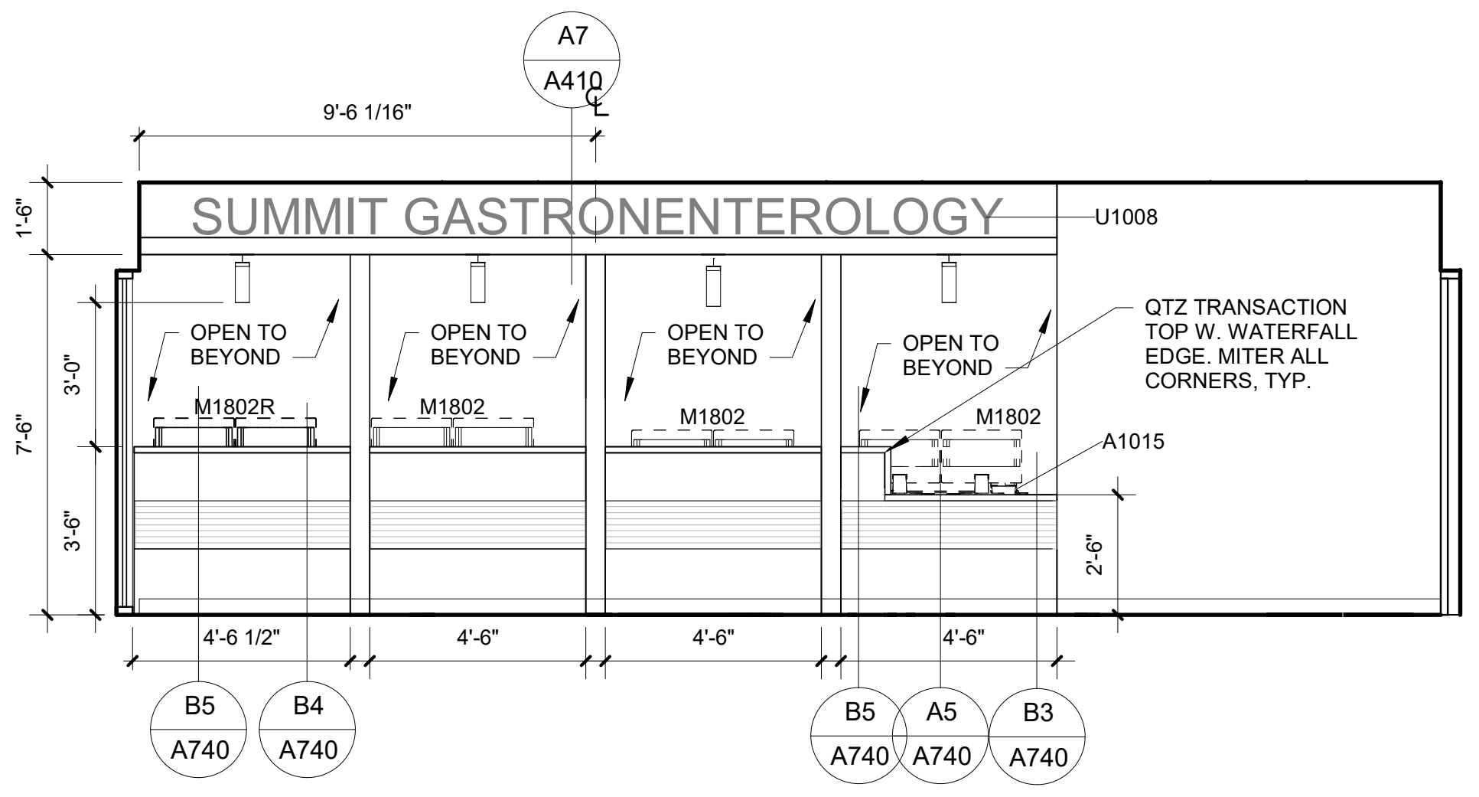
A6 CHECK OUT - NORTH
1/4" = 1'-0"

02-2E529	
BASE CABINETS	PLAM-1
WALL CABINETS	-
COUNTERTOPS	SSF-1
SINKS	-


F
2'-9"
2'-9"
2'-3"
2'-3"
F
7'-0"
2'-6"
1'-8"
2'-10"
A0911R
M1825aR
M1840aR
F2535bR
F
2'-9"
2'-9"
A1
A740

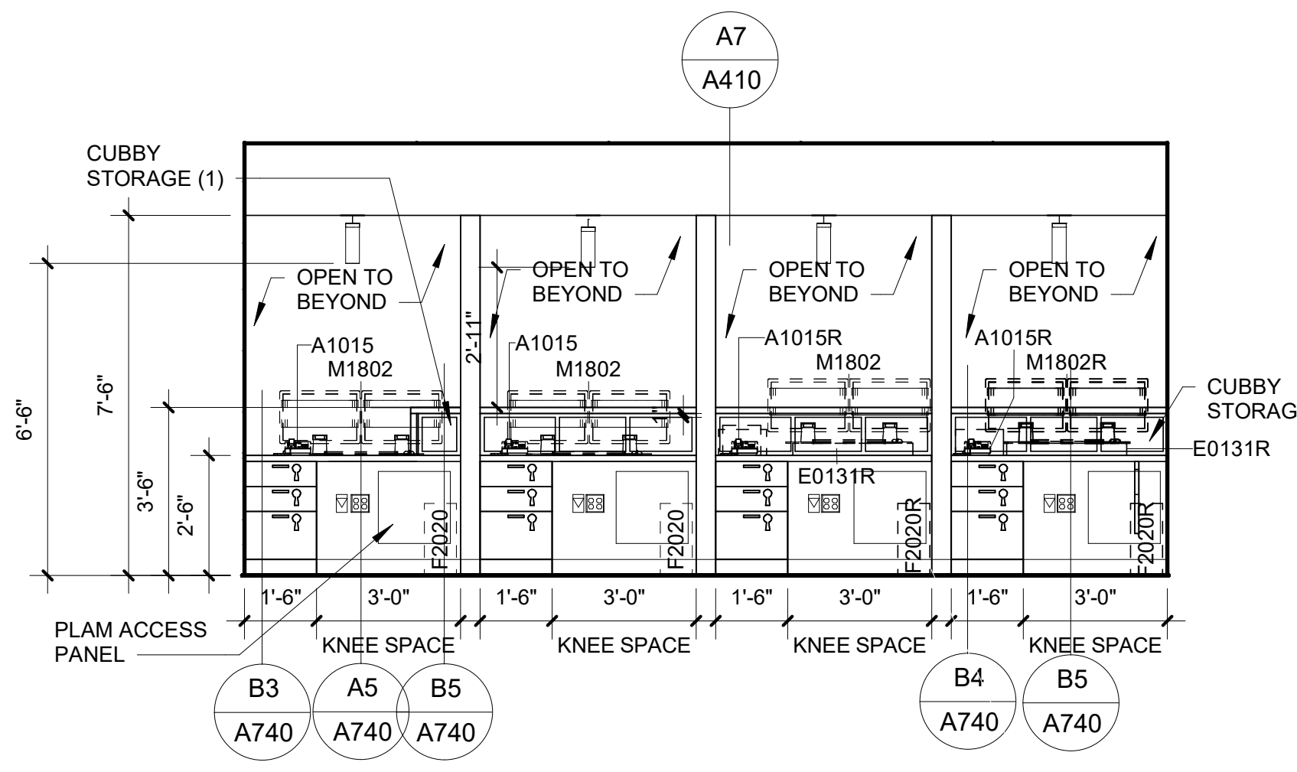
A5 HALLWAY - SOUTH
1/4" = 1'-0"

02-2E500E	
BASE CABINETS	PLAM-1
WALL CABINETS	PLAM-1
COUNTERTOPS	SSF-1
SINKS	-


A7
A410
9'-6 1/16"
SUMMIT GASTRONENTEROLOGY
U1008
1'-6"
7'-6"
3'-0"
3'-6"
OPEN TO BEYOND
OPEN TO BEYOND
OPEN TO BEYOND
OPEN TO BEYOND
QTZ TRANSACTION TOP W. WATERFALL EDGE. MITER ALL CORNERS, TYP.
M1802R
M1802
M1802
M1802
A1015
2'-6"
4'-6 1/2"
4'-6"
4'-6"
4'-6"
B5
A740
B4
A740
B5
A740
A5
A740
B3
A740

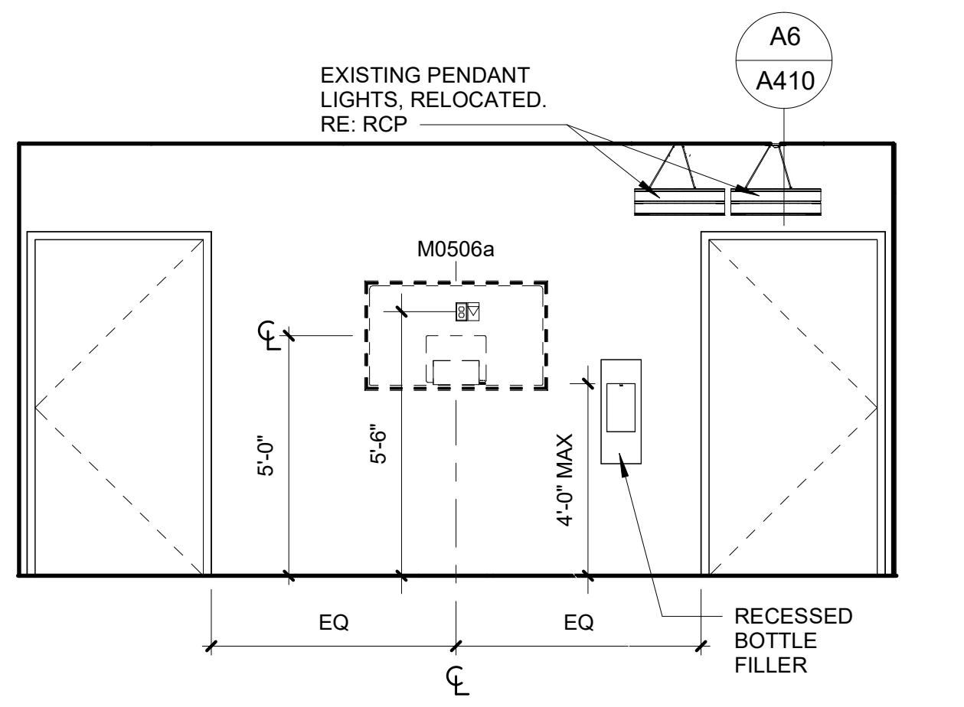
A4 WAITING ROOM - SOUTH
1/4" = 1'-0"

02-2E502A	
BASE CABINETS	PLAM-1
WALL CABINETS	PLAM-1, GLT-1
COUNTERTOPS	SSF-1, QTZ-1, PLAM-1
SINKS	-


A7
A410
CUBBY STORAGE (1)
OPEN TO BEYOND
OPEN TO BEYOND
OPEN TO BEYOND
OPEN TO BEYOND
2'-11"
A1015
M1802
A1015
M1802
A1015R
M1802
A1015R
M1802R
CUBBY STORAGE (3)
E0131R
E0131R
6'-6"
7'-6"
3'-6"
2'-6"
F2020
F2020
F2020R
F2020R
1'-6"
3'-0"
1'-6"
3'-0"
1'-6"
3'-0"
1'-6"
3'-0"
PLAM ACCESS PANEL
KNEE SPACE
KNEE SPACE
KNEE SPACE
KNEE SPACE
B3
A740
A5
A740
B5
A740
B4
A740
B5
A740

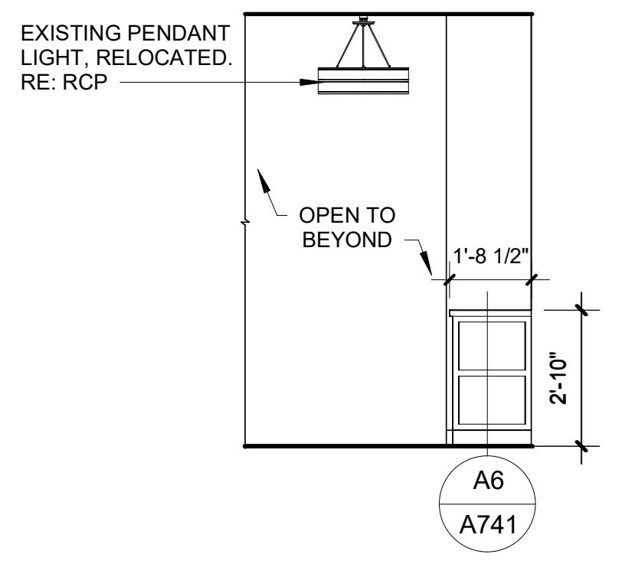
A3 CHECK IN- NORTH
1/4" = 1'-0"

02-2E502B	
BASE CABINETS	PLAM-1
WALL CABINETS	PLAM-1, GLT-1
COUNTERTOPS	SSF-1, QTZ-1
SINKS	-


EXISTING PENDANT LIGHTS, RELOCATED. RE: RCP
A6
A410
M0506a
5'-0"
5'-6"
4'-0" MAX
EQ
EQ
RECESSED BOTTLE FILLER

A2 WAITING AREA - WEST
1/4" = 1'-0"

02-2E502A	
BASE CABINETS	PLAM-1
WALL CABINETS	PLAM-1, GLT-1
COUNTERTOPS	SSF-1, QTZ-1, PLAM-1
SINKS	-


EXISTING PENDANT LIGHT, RELOCATED. RE: RCP
OPEN TO BEYOND
1'-8 1/2"
2'-10"
A6
A741

A1 DISPLAY CASEWORK AT ENTRY
1/4" = 1'-0"

02-2E502A	
BASE CABINETS	PLAM-1
WALL CABINETS	PLAM-1, GLT-1
COUNTERTOPS	SSF-1, QTZ-1, PLAM-1
SINKS	-

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
04/17/2025

SAMUEL K. BECKMAN
A-2011012130

4/8/2025 09:06:13 AM
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E-556D

SUMMIT GI ADDITION
SAINT LUKE'S EAST
100 NE SAINT LUKE'S BLVD.
LEE'S SUMMIT MO 64086

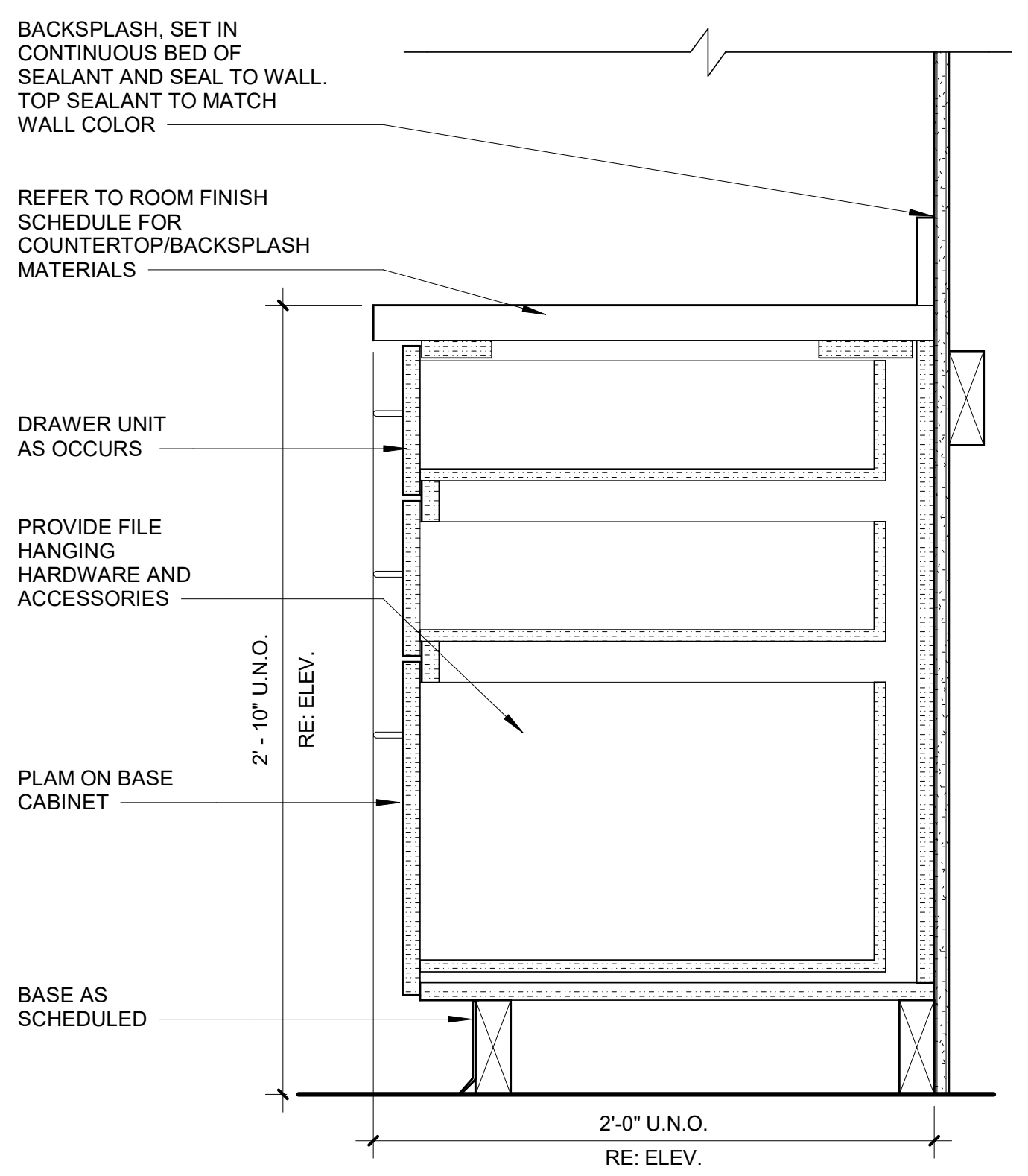
Date	04/07/25
Job Number	3-24100
Drawn By	HG
Checked By	KS/SB

Revision

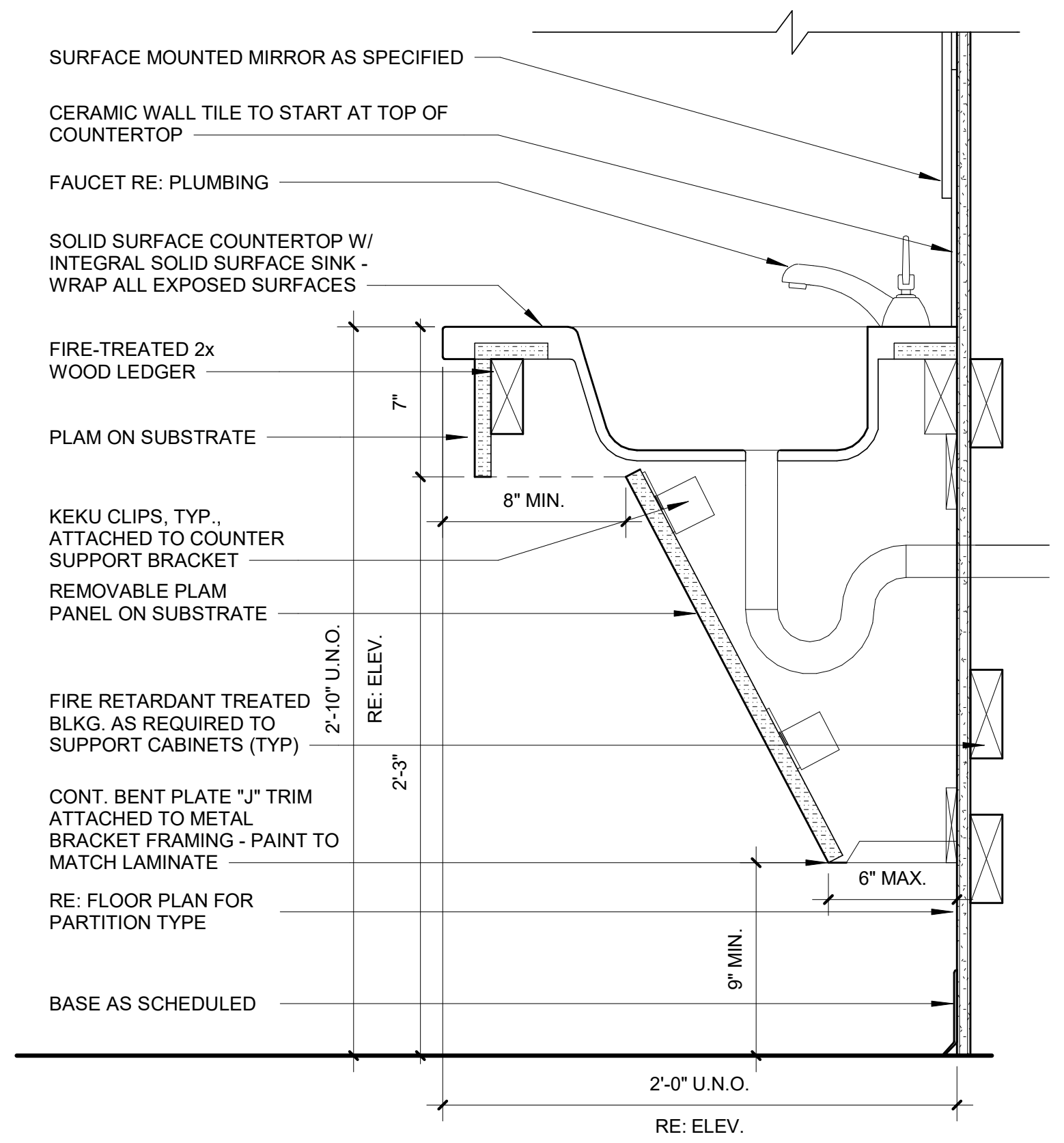
Number	Date	Description

A730

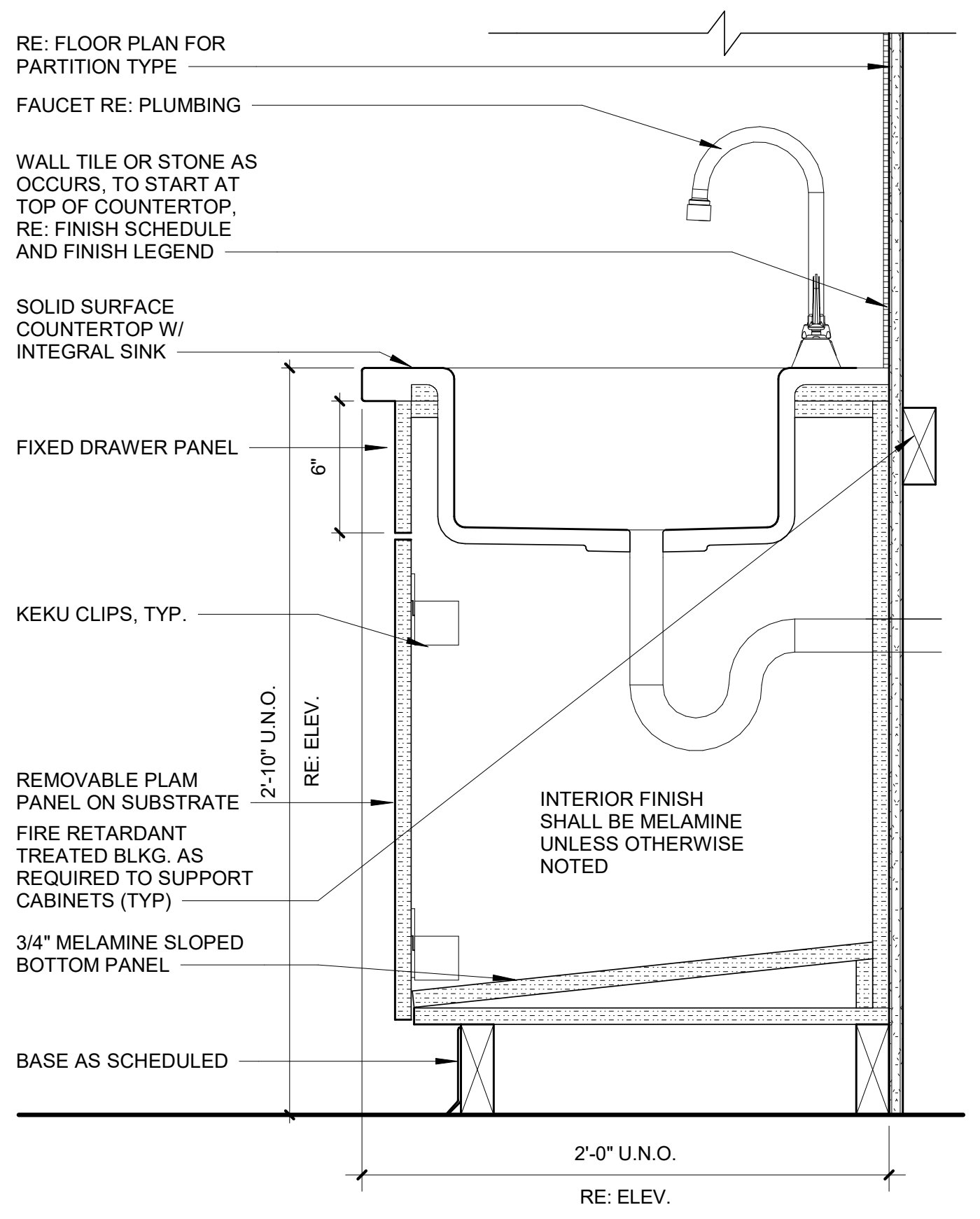
INTERIOR ELEVATIONS


BACKSPLASH, SET IN CONTINUOUS BED OF SEALANT AND SEAL TO WALL. TOP SEALANT TO MATCH WALL COLOR
REFER TO ROOM FINISH SCHEDULE FOR COUNTERTOP/BACKSPLASH MATERIALS
DRAWER UNIT AS OCCURS
PROVIDE FILE HANGING HARDWARE AND ACCESSORIES
PLAM ON BASE CABINET
BASE AS SCHEDULED
2' - 10" U.N.O.
RE: ELEV.
2'-0" U.N.O.
RE: ELEV.

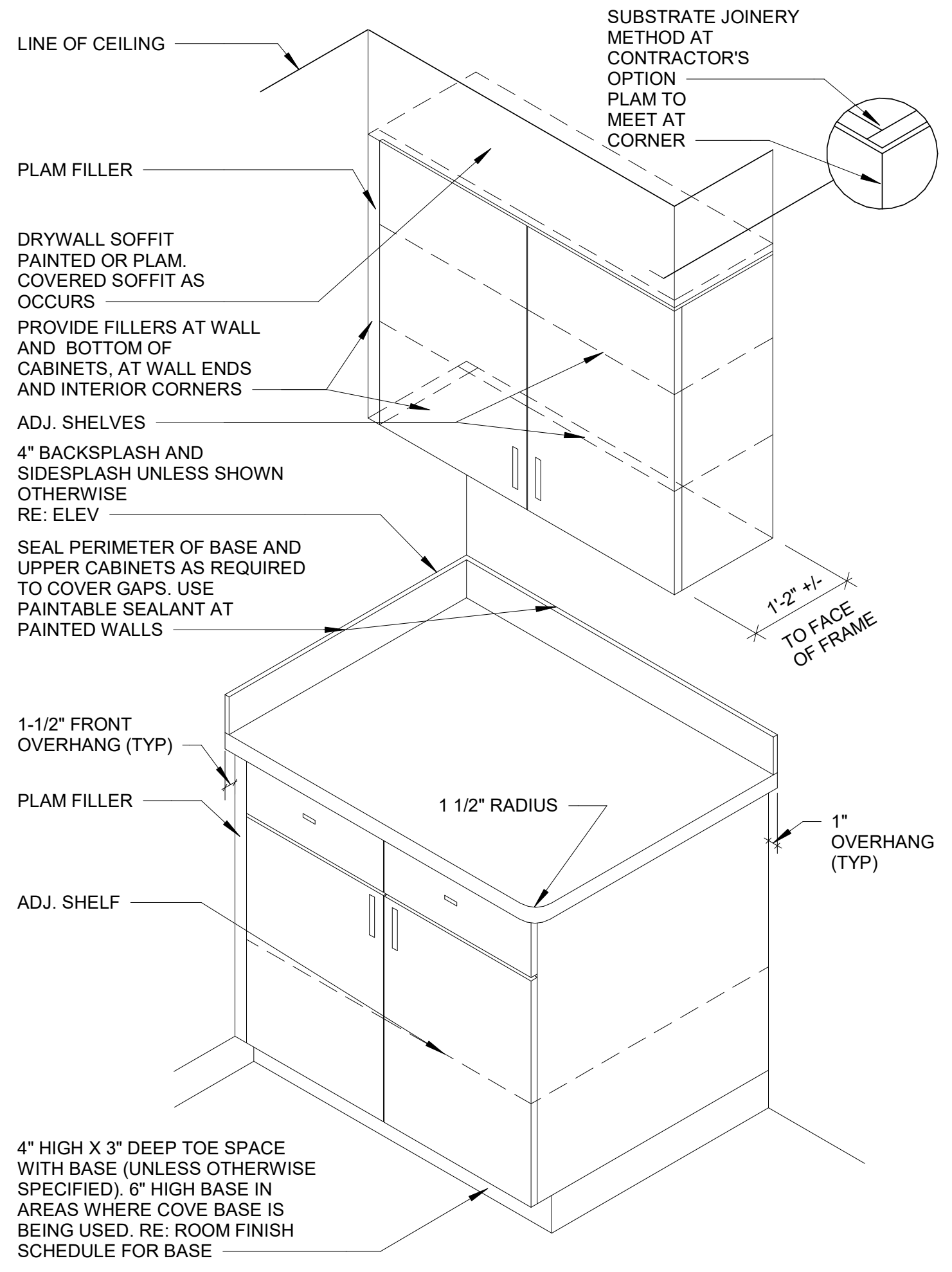
D5 DETAIL AT BUILT-IN BOX BOX FILE
1 1/2" = 1'-0"


SURFACE MOUNTED MIRROR AS SPECIFIED
CERAMIC WALL TILE TO START AT TOP OF COUNTERTOP
FAUCET RE: PLUMBING
SOLID SURFACE COUNTERTOP W/ INTEGRAL SOLID SURFACE SINK - WRAP ALL EXPOSED SURFACES
FIRE-TREATED 2x WOOD LEDGER
PLAM ON SUBSTRATE
KEKU CLIPS, TYP., ATTACHED TO COUNTER SUPPORT BRACKET
REMOVABLE PLAM PANEL ON SUBSTRATE
FIRE RETARDANT TREATED BLKG. AS REQUIRED TO SUPPORT CABINETS (TYP)
CONT. BENT PLATE "J" TRIM ATTACHED TO METAL BRACKET FRAMING - PAINT TO MATCH LAMINATE
RE: FLOOR PLAN FOR PARTITION TYPE
BASE AS SCHEDULED
7"
8" MIN.
2'-10" U.N.O.
RE: ELEV.
2'-3"
6" MAX.
9" MIN.
2'-0" U.N.O.
RE: ELEV.

D4 DETAIL AT APRON SINK BASE CABINET - SOLID SURFACE
1 1/2" = 1'-0"


RE: FLOOR PLAN FOR PARTITION TYPE
FAUCET RE: PLUMBING
WALL TILE OR STONE AS OCCURS, TO START AT TOP OF COUNTERTOP, RE: FINISH SCHEDULE AND FINISH LEGEND
SOLID SURFACE COUNTERTOP W/ INTEGRAL SINK
FIXED DRAWER PANEL
KEKU CLIPS, TYP.
REMOVABLE PLAM PANEL ON SUBSTRATE
FIRE RETARDANT TREATED BLKG. AS REQUIRED TO SUPPORT CABINETS (TYP)
3/4" MELAMINE SLOPED BOTTOM PANEL
BASE AS SCHEDULED
INTERIOR FINISH SHALL BE MELAMINE UNLESS OTHERWISE NOTED
6"
2'-10" U.N.O.
RE: ELEV.
2'-0" U.N.O.
RE: ELEV.

D3 DETAIL AT SINK BASE CABINET - SOLID SURFACE
1 1/2" = 1'-0"


LINE OF CEILING
PLAM FILLER
DRYWALL SOFFIT PAINTED OR PLAM. COVERED SOFFIT AS OCCURS
PROVIDE FILLERS AT WALL AND BOTTOM OF CABINETS, AT WALL ENDS AND INTERIOR CORNERS
ADJ. SHELVES
4" BACKSPLASH AND SIDESPLASH UNLESS SHOWN OTHERWISE RE: ELEV
SEAL PERIMETER OF BASE AND UPPER CABINETS AS REQUIRED TO COVER GAPS. USE PAINTABLE SEALANT AT PAINTED WALLS
1-1/2" FRONT OVERHANG (TYP)
PLAM FILLER
ADJ. SHELF
4" HIGH X 3" DEEP TOE SPACE WITH BASE (UNLESS OTHERWISE SPECIFIED). 6" HIGH BASE IN AREAS WHERE COVE BASE IS BEING USED. RE: ROOM FINISH SCHEDULE FOR BASE
SUBSTRATE JOINERY METHOD AT CONTRACTOR'S OPTION
PLAM TO MEET AT CORNER
1'-2" +/- TO FACE OF FRAME
1 1/2" RADIUS
1" OVERHANG (TYP)

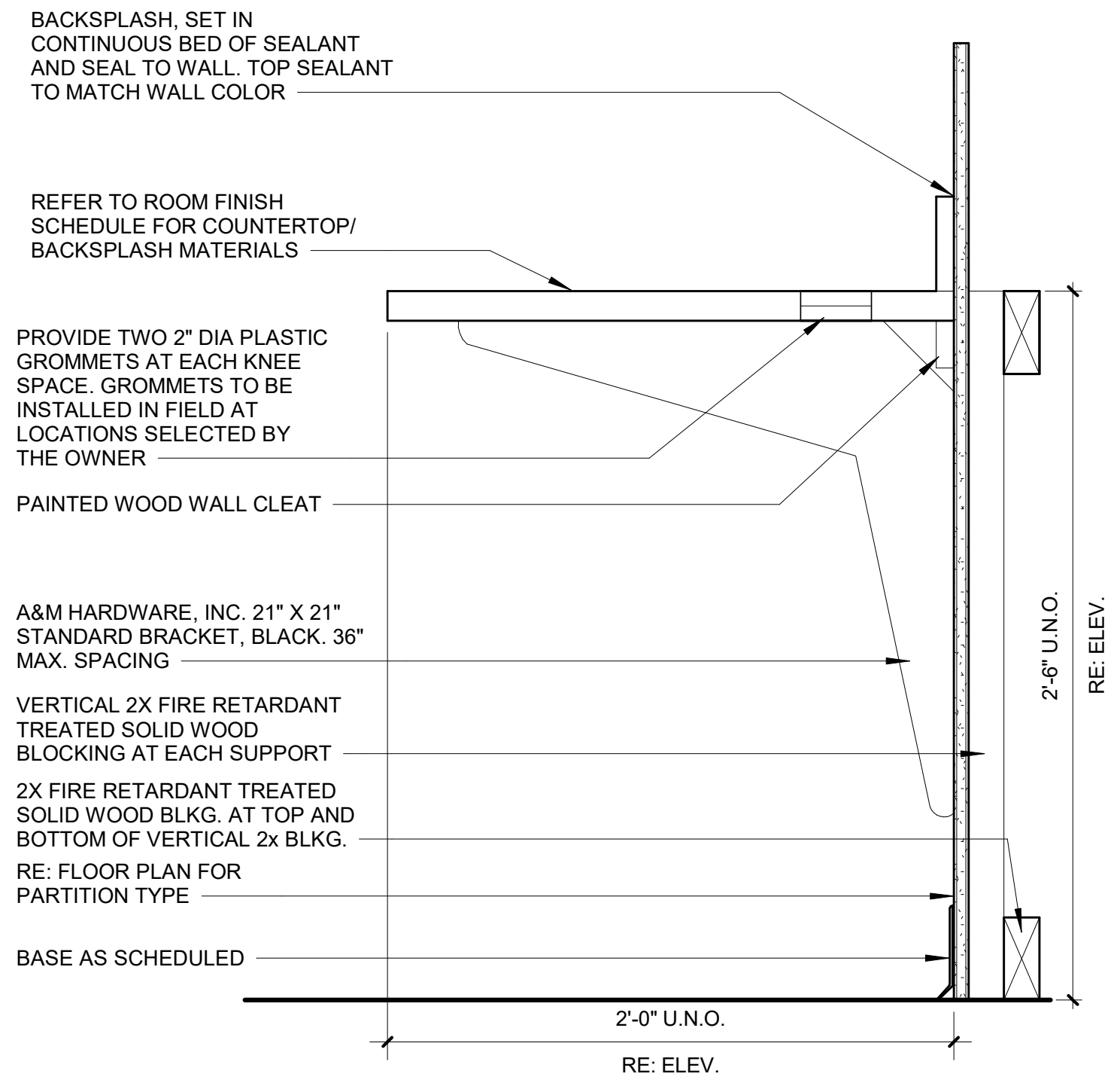
TYP. CABINET NOTES:

1. PROVIDE PLAM FILLER WHERE CABINETS BUTT UP TO WALLS.
2. ALL COUNTERTOPS HAVE A 4" BACKSPLASH (MATERIAL TO MATCH COUNTERTOP) AND OUTSIDE CORNERS HAVE 1 1/2" RADIUS EXCEPT WHERE NOTED OTHERWISE.
3. GROMMETS FOR CABLE PASSAGE THROUGH WORK COUNTERS: 2-1/2 INCH OD, MOLDED-PLASTIC GROMMETS WITH MATCHING PLASTIC CAPS WITH A SLOT FOR WIRE PASSAGE. PROVIDE (2) GROMMETS CENTERED BETWEEN THE COUNTERTOP SUPPORT BRACKETS AT EACH KNEE SPACE MODULE. GROMMETS TO BE INSTALLED IN FIELD AS DIRECTED BY OWNER. COLOR TO BE SELECTED BY ARCHITECT.
4. PLAM COUNTERTOP EDGES SHALL BE 3 MM PLASTIC. COLOR AS SELECTED BY ARCHITECT.

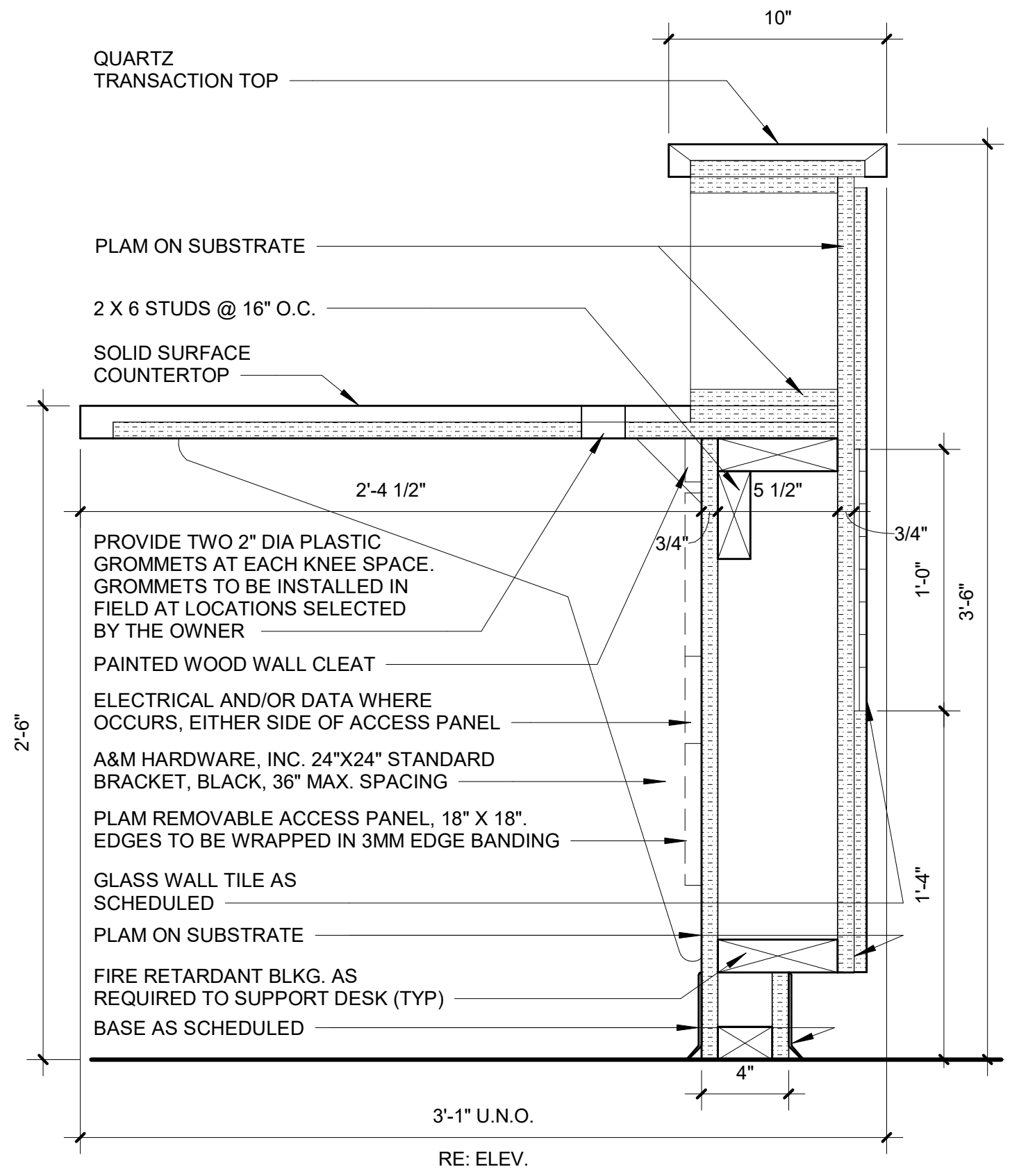
D2 CASEWORK ISOMETRIC
1 1/2" = 1'-0"

GENERAL CASEWORK NOTES

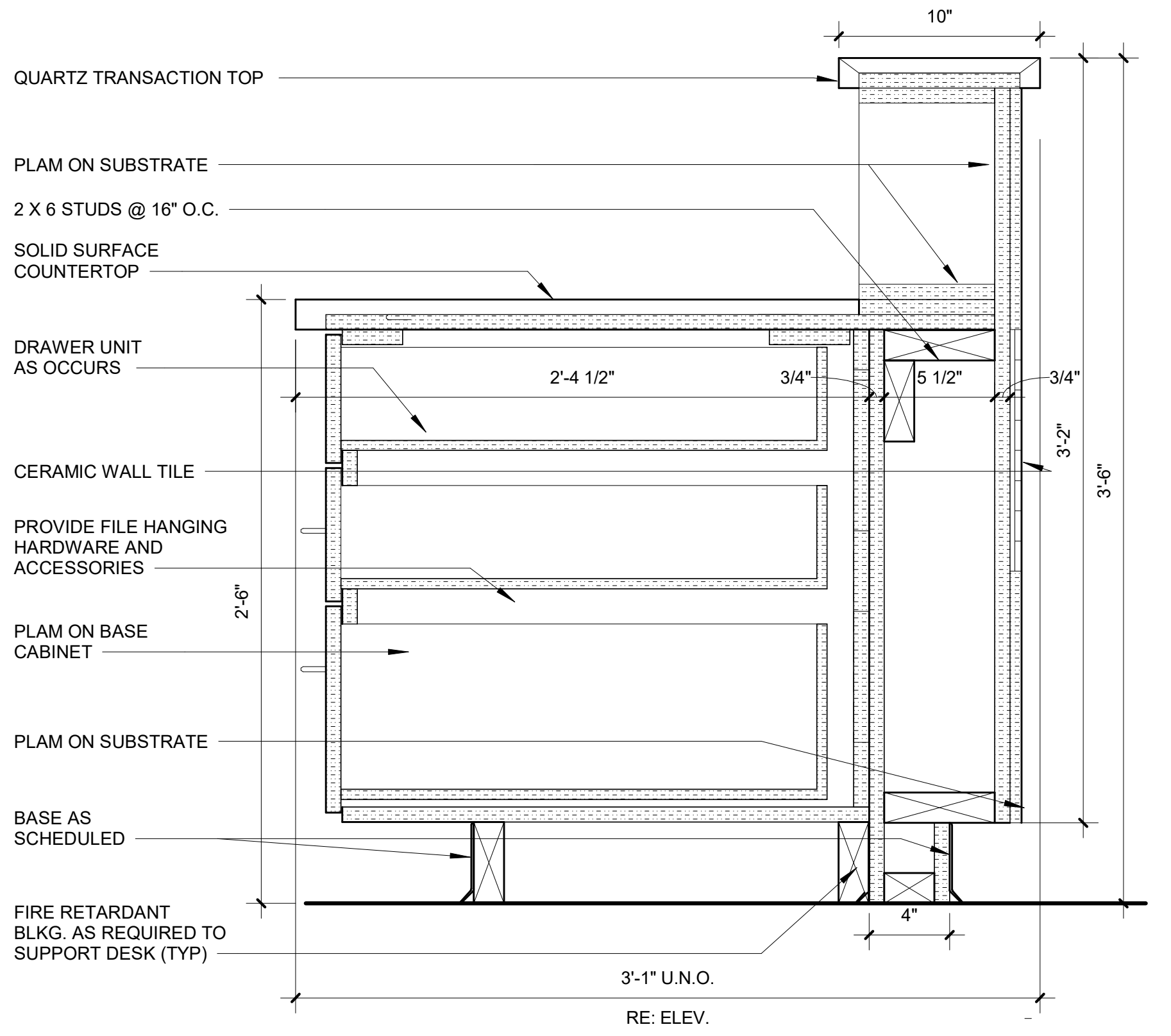
1. GENERAL CASEWORK NOTES APPLY TO ALL INTERIOR ELEVATIONS.
2. PROVIDE 3 MM PVC EDGE BANDING ON COUNTERTOP EDGE AND (.018 MIN.) VINYL EDGING ON DRAWER, AND DOOR EDGES UNLESS NOTED OTHERWISE. EDGE BANDING TO MATCH ADJACENT PLAM SURFACE.
3. ALL EXPOSED FACES AND SHELVES TO BE WRAPPED WITH PLAM UNLESS NOTED OTHERWISE.
4. ALL INTERIOR SURFACES TO BE WHITE MELAMINE UNLESS NOTED OTHERWISE.
5. PROVIDE WOOD BLOCKING OR 12" HIGH X 16 GA. CONTINUOUS SHEET METAL BRIDGING IN WALL AS REQUIRED FOR ADEQUATE SUPPORT OF ALL CASEWORK.
6. WALL BASE TO BE INSTALLED ON ALL CASEWORK UNLESS NOTED OTHERWISE. REFER TO FINISH SCHEDULE FOR TYPE.
7. "F" INDICATES FILLER PANEL, 1-1/2" MIN.
8. "EP" INDICATES END PANEL, 1-1/2" MIN.
9. PROVIDE FINISHED ENDS AT ALL EXPOSED ENDS OF CASEWORK.
10. ALL ELECTRICAL, MECHANICAL, AND PLUMBING ITEMS SHOWN IN ELEVATION ARE FOR REFERENCE AND LOCATION ONLY. REFER TO MEP DRAWINGS FOR SIZES, TYPES AND QUANTITIES.
11. ALL SOFFITS ABOVE CASEWORK TO BE PLAM UNLESS NOTES OTHERWISE.


BACKSPLASH, SET IN CONTINUOUS BED OF SEALANT AND SEAL TO WALL. TOP SEALANT TO MATCH WALL COLOR
REFER TO ROOM FINISH SCHEDULE FOR COUNTERTOP/ BACKSPLASH MATERIALS
PROVIDE TWO 2" DIA PLASTIC GROMMETS AT EACH KNEE SPACE. GROMMETS TO BE INSTALLED IN FIELD AT LOCATIONS SELECTED BY THE OWNER
PAINTED WOOD WALL CLEAT
A&M HARDWARE, INC. 21" X 21" STANDARD BRACKET, BLACK. 36" MAX. SPACING
VERTICAL 2X FIRE RETARDANT TREATED SOLID WOOD BLOCKING AT EACH SUPPORT
2X FIRE RETARDANT TREATED SOLID WOOD BLKG. AT TOP AND BOTTOM OF VERTICAL 2x BLKG.
RE: FLOOR PLAN FOR PARTITION TYPE
BASE AS SCHEDULED
2'-6" U.N.O.
RE: ELEV.
2'-0" U.N.O.
RE: ELEV.

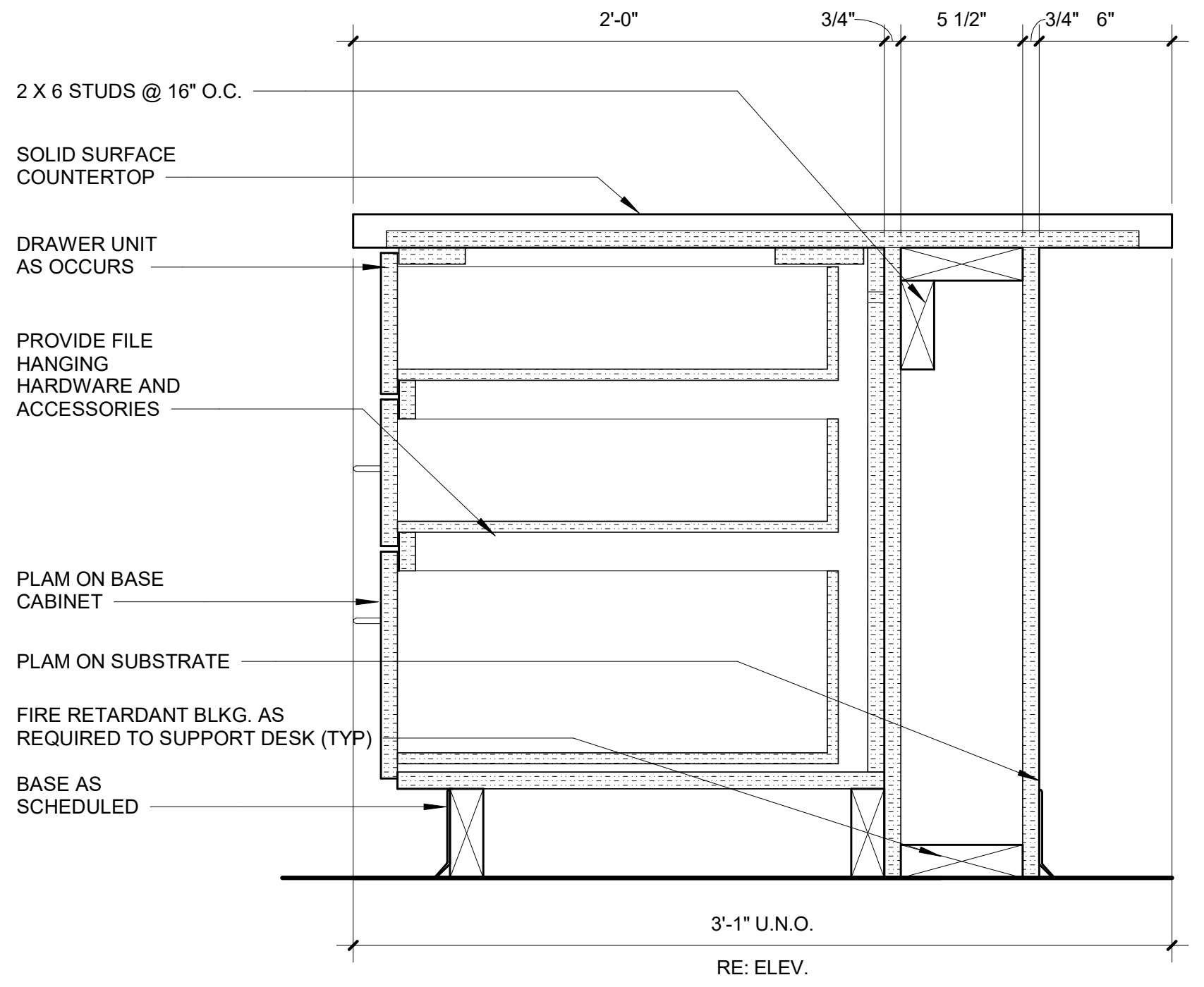
D1 DETAIL AT KNEE SPACE SUPPORT BRACKET
1 1/2" = 1'-0"


10"
QUARTZ TRANSACTION TOP
PLAM ON SUBSTRATE
2 X 6 STUDS @ 16" O.C.
SOLID SURFACE COUNTERTOP
2'-4 1/2"
5 1/2"
3/4"
3/4"
PROVIDE TWO 2" DIA PLASTIC GROMMETS AT EACH KNEE SPACE. GROMMETS TO BE INSTALLED IN FIELD AT LOCATIONS SELECTED BY THE OWNER
PAINTED WOOD WALL CLEAT
ELECTRICAL AND/OR DATA WHERE OCCURS, EITHER SIDE OF ACCESS PANEL
A&M HARDWARE, INC. 24"X24" STANDARD BRACKET, BLACK, 36" MAX. SPACING
PLAM REMOVABLE ACCESS PANEL, 18" X 18". EDGES TO BE WRAPPED IN 3MM EDGE BANDING
GLASS WALL TILE AS SCHEDULED
PLAM ON SUBSTRATE
FIRE RETARDANT BLKG. AS REQUIRED TO SUPPORT DESK (TYP)
BASE AS SCHEDULED
2'-6"
1'-0"
3'-6"
1'-4"
4"
3'-1" U.N.O.
RE: ELEV.

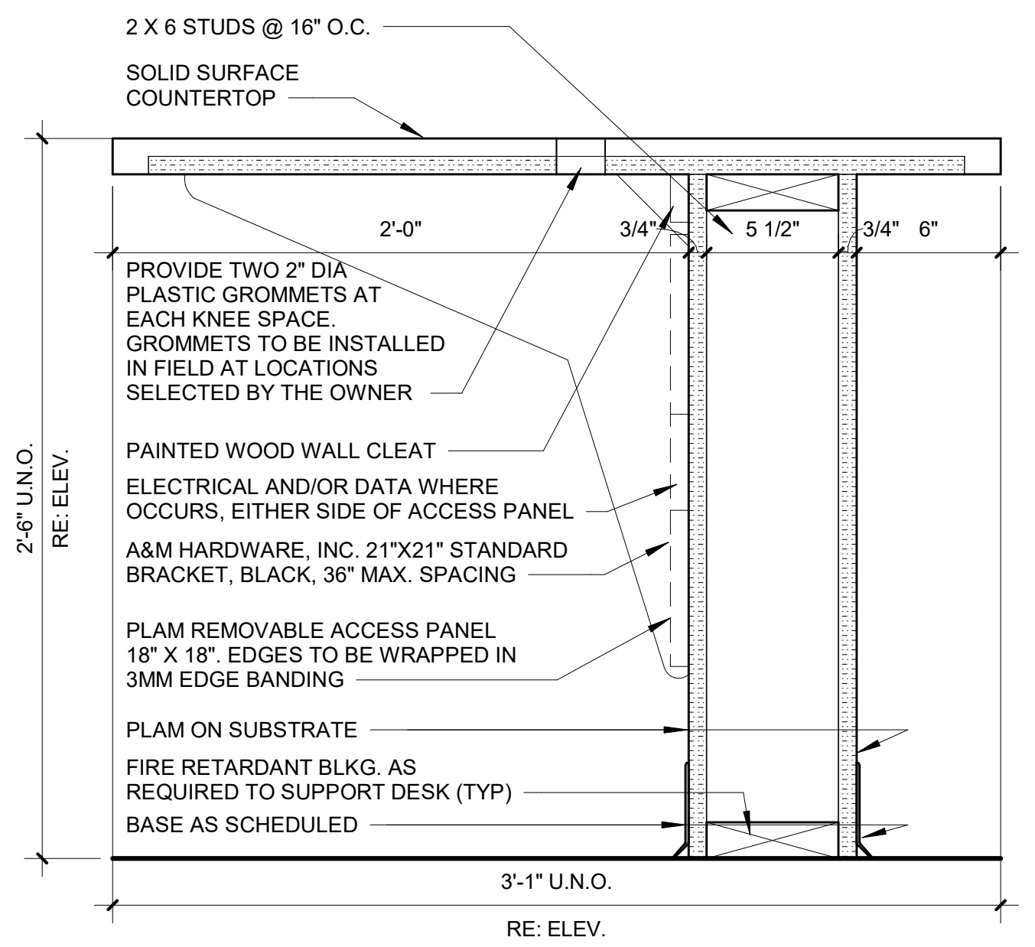
B5 DETAIL AT RECEPTION
1 1/2" = 1'-0"


10"
QUARTZ TRANSACTION TOP
PLAM ON SUBSTRATE
2 X 6 STUDS @ 16" O.C.
SOLID SURFACE COUNTERTOP
DRAWER UNIT AS OCCURS
2'-4 1/2"
3/4"
5 1/2"
3/4"
CERAMIC WALL TILE
PROVIDE FILE HANGING HARDWARE AND ACCESSORIES
PLAM ON BASE CABINET
PLAM ON SUBSTRATE
BASE AS SCHEDULED
FIRE RETARDANT BLKG. AS REQUIRED TO SUPPORT DESK (TYP)
2'-6"
3'-2"
3'-6"
4"
3'-1" U.N.O.
RE: ELEV.

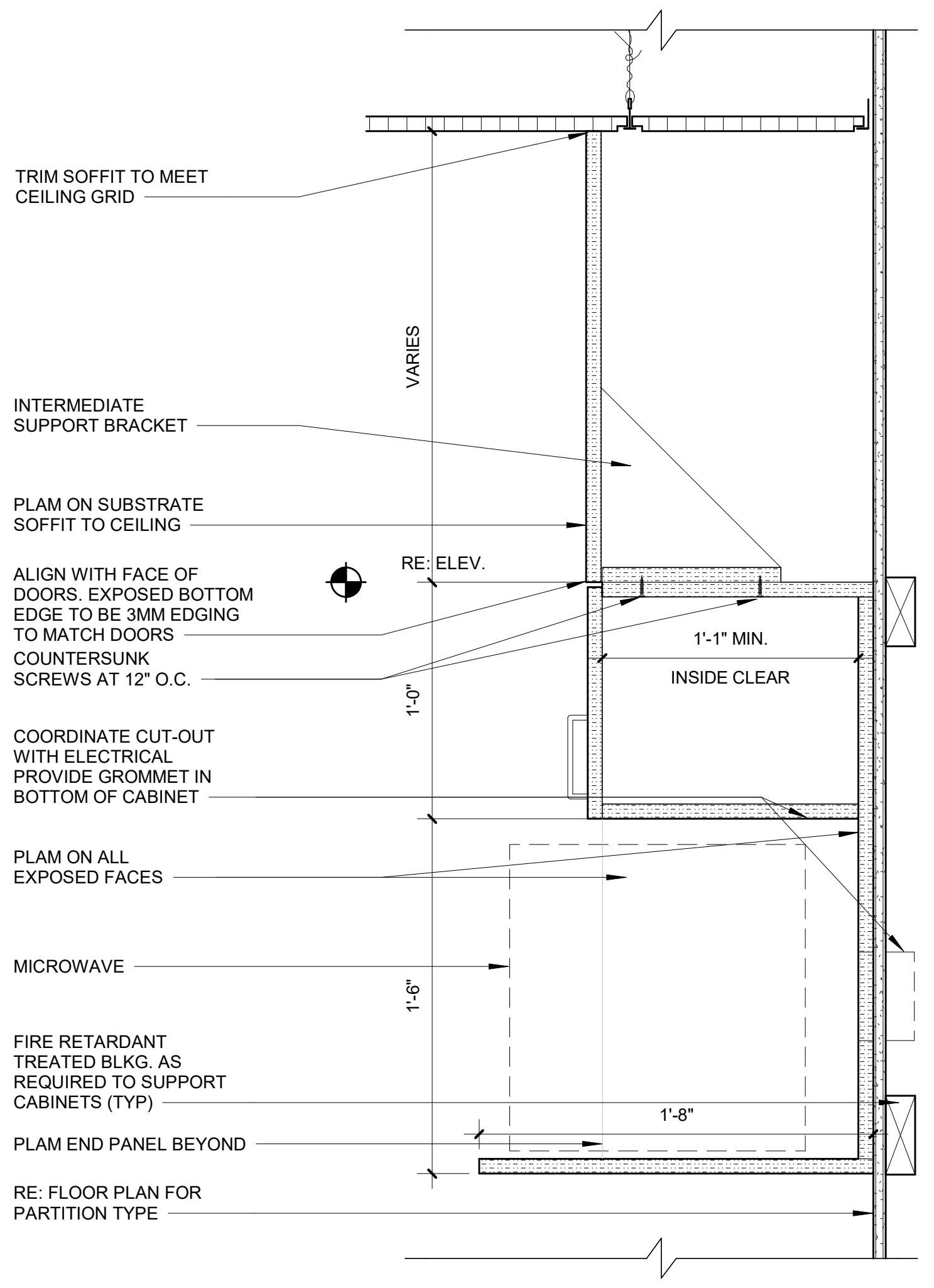
B4 DETAIL AT RECEPTION CUBBY STORAGE
1 1/2" = 1'-0"


2'-0"
3/4"
5 1/2"
3/4"
6"
2 X 6 STUDS @ 16" O.C.
SOLID SURFACE COUNTERTOP
DRAWER UNIT AS OCCURS
PROVIDE FILE HANGING HARDWARE AND ACCESSORIES
PLAM ON BASE CABINET
PLAM ON SUBSTRATE
FIRE RETARDANT BLKG. AS REQUIRED TO SUPPORT DESK (TYP)
BASE AS SCHEDULED
3'-1" U.N.O.
RE: ELEV.

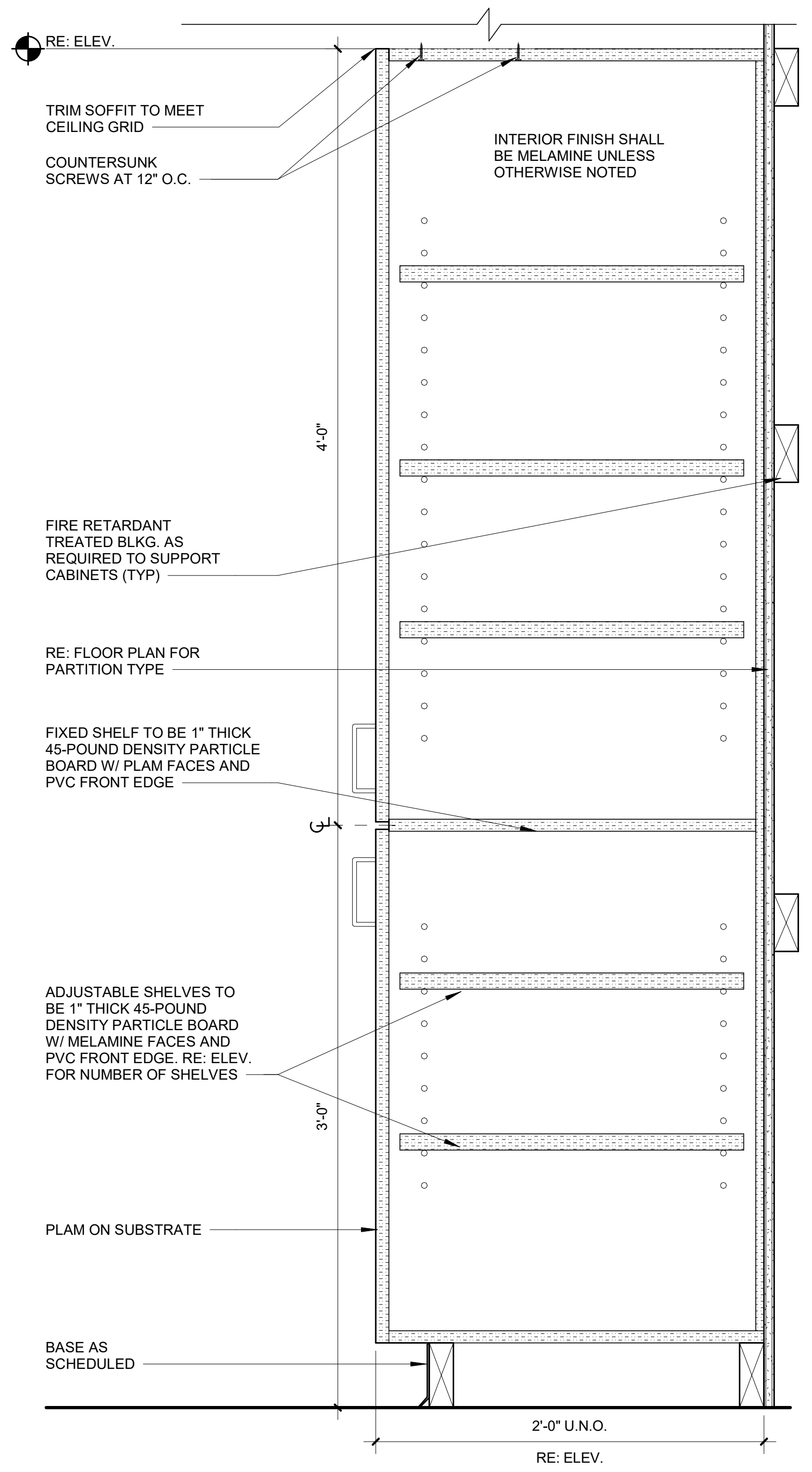
B3 DETAIL AT CONSULT/CHECK OUT/ WORK SURFACE
1 1/2" = 1'-0"


2 X 6 STUDS @ 16" O.C.
SOLID SURFACE COUNTERTOP
2'-0"
3/4"
5 1/2"
3/4"
6"
PROVIDE TWO 2" DIA PLASTIC GROMMETS AT EACH KNEE SPACE. GROMMETS TO BE INSTALLED IN FIELD AT LOCATIONS SELECTED BY THE OWNER
PAINTED WOOD WALL CLEAT
ELECTRICAL AND/OR DATA WHERE OCCURS, EITHER SIDE OF ACCESS PANEL
A&M HARDWARE, INC. 21"X21" STANDARD BRACKET, BLACK, 36" MAX. SPACING
PLAM REMOVABLE ACCESS PANEL 18" X 18". EDGES TO BE WRAPPED IN 3MM EDGE BANDING
PLAM ON SUBSTRATE
FIRE RETARDANT BLKG. AS REQUIRED TO SUPPORT DESK (TYP)
BASE AS SCHEDULED
2'-6" U.N.O.
RE: ELEV.
3'-1" U.N.O.
RE: ELEV.

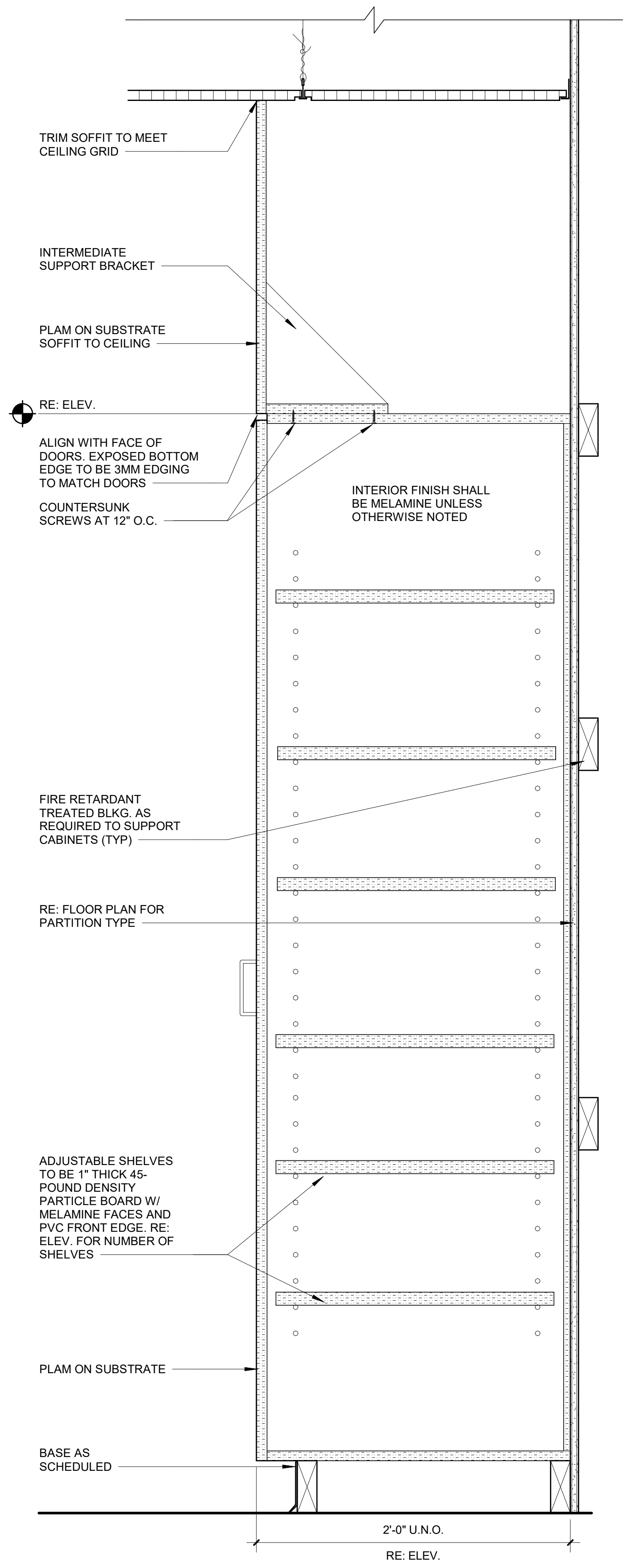
A5 DETAIL AT RECEPTION DESK/CHECK-OUT - WORK SURFACE
1 1/2" = 1'-0"


TRIM SOFFIT TO MEET CEILING GRID
VARIES
INTERMEDIATE SUPPORT BRACKET
PLAM ON SUBSTRATE SOFFIT TO CEILING
RE: ELEV.
ALIGN WITH FACE OF DOORS. EXPOSED BOTTOM EDGE TO BE 3MM EDGING TO MATCH DOORS
COUNTERSUNK SCREWS AT 12" O.C.
1'-1" MIN.
INSIDE CLEAR
1'-0"
COORDINATE CUT-OUT WITH ELECTRICAL PROVIDE GROMMET IN BOTTOM OF CABINET
PLAM ON ALL EXPOSED FACES
MICROWAVE
1'-6"
FIRE RETARDANT TREATED BLKG. AS REQUIRED TO SUPPORT CABINETS (TYP)
1'-8"
PLAM END PANEL BEYOND
RE: FLOOR PLAN FOR PARTITION TYPE

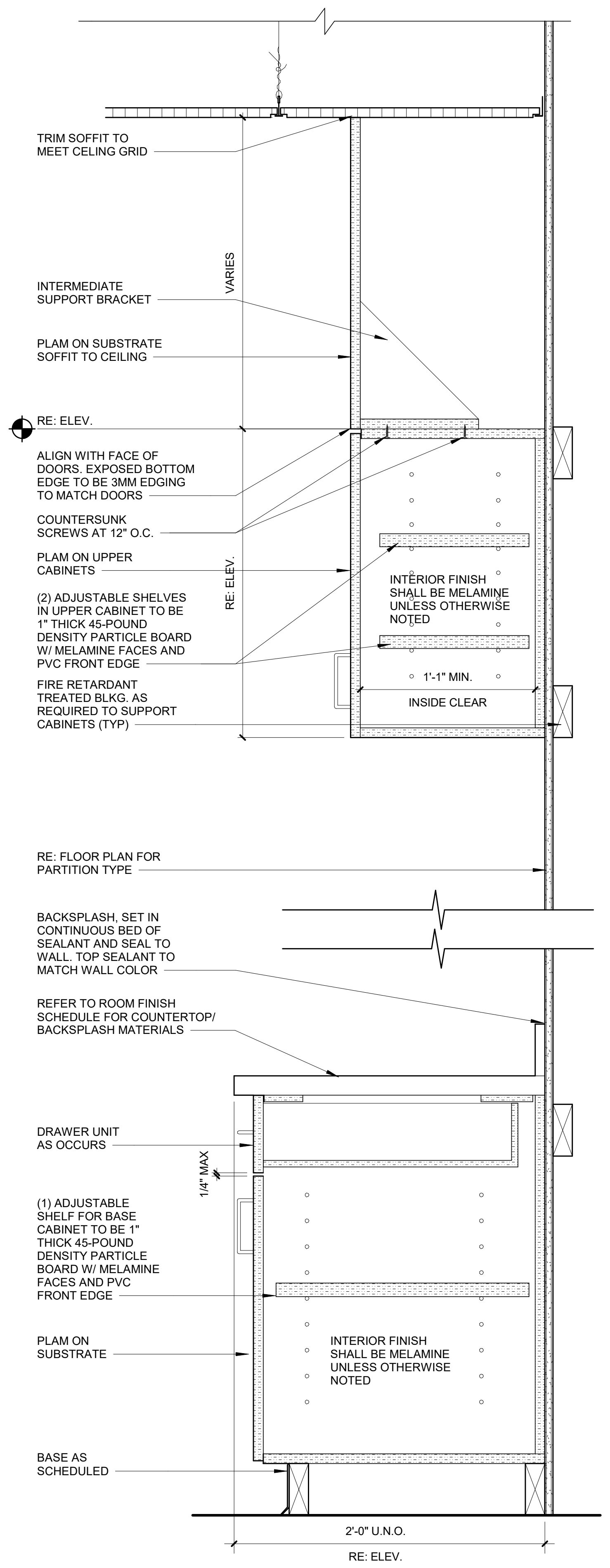
A4 DETAIL AT MICROWAVE CABINET
1 1/2" = 1'-0"


RE: ELEV.
TRIM SOFFIT TO MEET CEILING GRID
COUNTERSUNK SCREWS AT 12" O.C.
INTERIOR FINISH SHALL BE MELAMINE UNLESS OTHERWISE NOTED
4'-0"
FIRE RETARDANT TREATED BLKG. AS REQUIRED TO SUPPORT CABINETS (TYP)
RE: FLOOR PLAN FOR PARTITION TYPE
FIXED SHELF TO BE 1" THICK 45-POUND DENSITY PARTICLE BOARD W/ PLAM FACES AND PVC FRONT EDGE
ADJUSTABLE SHELVES TO BE 1" THICK 45-POUND DENSITY PARTICLE BOARD W/ MELAMINE FACES AND PVC FRONT EDGE. RE: ELEV. FOR NUMBER OF SHELVES
3'-0"
PLAM ON SUBSTRATE
BASE AS SCHEDULED
2'-0" U.N.O.
RE: ELEV.

A3 DETAIL AT FULL HT- CABINET - 2 DOOR
1 1/2" = 1'-0"


TRIM SOFFIT TO MEET CEILING GRID
INTERMEDIATE SUPPORT BRACKET
PLAM ON SUBSTRATE SOFFIT TO CEILING
RE: ELEV.
ALIGN WITH FACE OF DOORS. EXPOSED BOTTOM EDGE TO BE 3MM EDGING TO MATCH DOORS
COUNTERSUNK SCREWS AT 12" O.C.
INTERIOR FINISH SHALL BE MELAMINE UNLESS OTHERWISE NOTED
FIRE RETARDANT TREATED BLKG. AS REQUIRED TO SUPPORT CABINETS (TYP)
RE: FLOOR PLAN FOR PARTITION TYPE
ADJUSTABLE SHELVES TO BE 1" THICK 45-POUND DENSITY PARTICLE BOARD W/ MELAMINE FACES AND PVC FRONT EDGE. RE: ELEV. FOR NUMBER OF SHELVES
PLAM ON SUBSTRATE
BASE AS SCHEDULED
2'-0" U.N.O.
RE: ELEV.

A2 DETAIL AT FULL HEIGHT CABINET
1 1/2" = 1'-0"


TRIM SOFFIT TO MEET CELING GRID
VARIES
INTERMEDIATE SUPPORT BRACKET
PLAM ON SUBSTRATE SOFFIT TO CEILING
RE: ELEV.
ALIGN WITH FACE OF DOORS. EXPOSED BOTTOM EDGE TO BE 3MM EDGING TO MATCH DOORS
COUNTERSUNK SCREWS AT 12" O.C.
PLAM ON UPPER CABINETS
(2) ADJUSTABLE SHELVES IN UPPER CABINET TO BE 1" THICK 45-POUND DENSITY PARTICLE BOARD W/ MELAMINE FACES AND PVC FRONT EDGE
FIRE RETARDANT TREATED BLKG. AS REQUIRED TO SUPPORT CABINETS (TYP)
RE: ELEV.
INTERIOR FINISH SHALL BE MELAMINE UNLESS OTHERWISE NOTED
1'-1" MIN.
INSIDE CLEAR
RE: FLOOR PLAN FOR PARTITION TYPE
BACKSPLASH, SET IN CONTINUOUS BED OF SEALANT AND SEAL TO WALL. TOP SEALANT TO MATCH WALL COLOR
REFER TO ROOM FINISH SCHEDULE FOR COUNTERTOP/ BACKSPLASH MATERIALS
DRAWER UNIT AS OCCURS
1/4" MAX
(1) ADJUSTABLE SHELF FOR BASE CABINET TO BE 1" THICK 45-POUND DENSITY PARTICLE BOARD W/ MELAMINE FACES AND PVC FRONT EDGE
PLAM ON SUBSTRATE
INTERIOR FINISH SHALL BE MELAMINE UNLESS OTHERWISE NOTED
BASE AS SCHEDULED
2'-0" U.N.O.
RE: ELEV.

A1 DETAIL AT CASEWORK
1 1/2" = 1'-0"

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
04/17/2025

SAMUEL K. BECKMAN
NUMBER A-2011012130

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913.894.9720
Licensee's Certificate of Authority Number:
E-556D

SUMMIT GI ADDITION
SAINT LUKE'S EAST
100 NE SAINT LUKE'S BLVD.
LEE'S SUMMIT MO 64086

Date	04/07/25
Job Number	3-24100
Drawn By	HG
Checked By	KS/SB

Revision

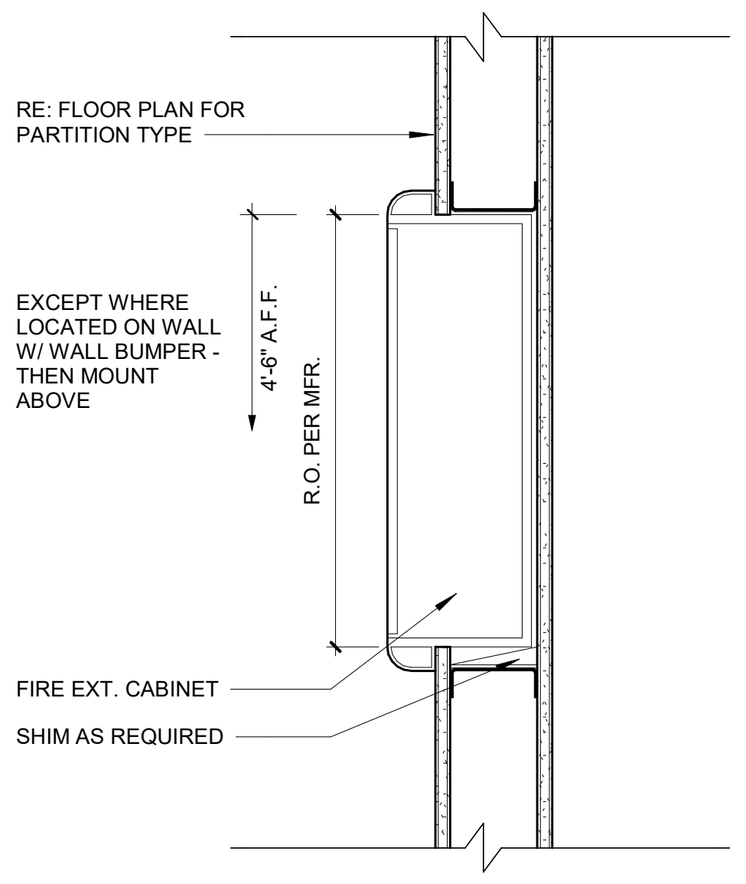
Number	Date	Description

A740

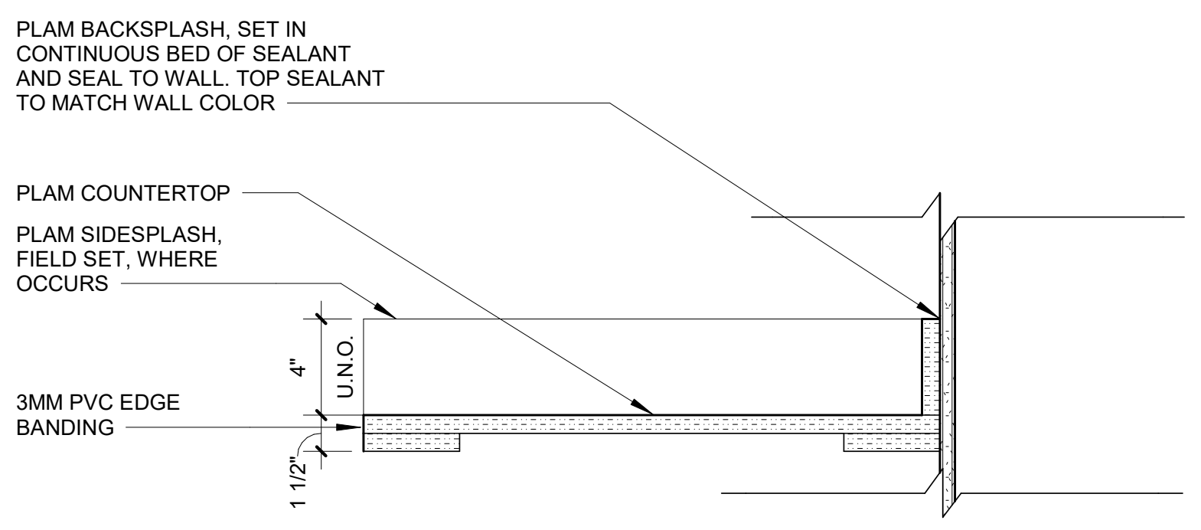
INTERIOR DETAILS

GENERAL CASEWORK NOTES

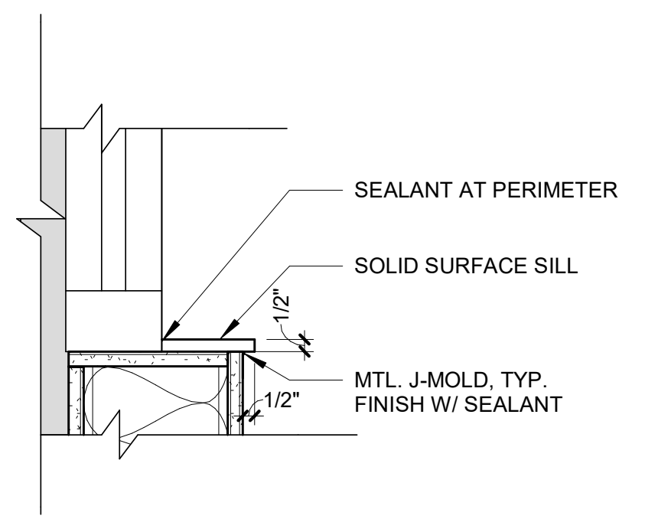
1. GENERAL CASEWORK NOTES APPLY TO ALL INTERIOR ELEVATIONS.
2. PROVIDE 3 MM PVC EDGE BANDING ON COUNTERTOP EDGE AND (.018 MIN.) VINYL EDGING ON DRAWER, AND DOOR EDGES UNLESS NOTED OTHERWISE. EDGE BANDING TO MATCH ADJACENT PLAM SURFACE.
3. ALL EXPOSED FACES AND SHELVES TO BE WRAPPED WITH PLAM UNLESS NOTED OTHERWISE.
4. ALL INTERIOR SURFACES TO BE WHITE MELAMINE UNLESS NOTED OTHERWISE.
5. PROVIDE WOOD BLOCKING OR 12" HIGH X 16 GA. CONTINUOUS SHEET METAL BRIDGING IN WALL AS REQUIRED FOR ADEQUATE SUPPORT OF ALL CASEWORK.
6. WALL BASE TO BE INSTALLED ON ALL CASEWORK UNLESS NOTED OTHERWISE. REFER TO FINISH SCHEDULE FOR TYPE.
7. "F" INDICATES FILLER PANEL, 1-1/2" MIN.
8. "EP" INDICATES END PANEL, 1-1/2" MIN.
9. PROVIDE FINISHED ENDS AT ALL EXPOSED ENDS OF CASEWORK.
10. ALL ELECTRICAL, MECHANICAL, AND PLUMBING ITEMS SHOWN IN ELEVATION ARE FOR REFERENCE AND LOCATION ONLY. REFER TO MEP DRAWINGS FOR SIZES, TYPES AND QUANTITIES.
11. ALL SOFFITS ABOVE CASEWORK TO BE PLAM UNLESS NOTES OTHERWISE.


RE: FLOOR PLAN FOR PARTITION TYPE
EXCEPT WHERE LOCATED ON WALL W/ WALL BUMPER - THEN MOUNT ABOVE
4'-6" A.F.F.
R.O. PER MFR.
FIRE EXT. CABINET
SHIM AS REQUIRED

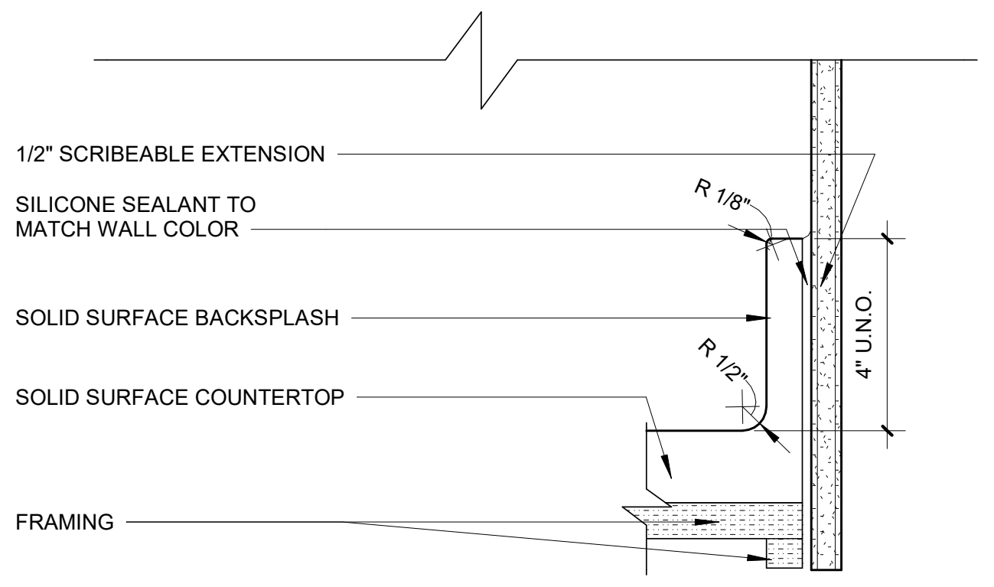
C1 DETAIL AT FIRE EXTINGUISHER CABINET
1 1/2" = 1'-0"


PLAM BACKSPLASH, SET IN CONTINUOUS BED OF SEALANT AND SEAL TO WALL. TOP SEALANT TO MATCH WALL COLOR
PLAM COUNTERTOP
PLAM SIDESPLASH, FIELD SET, WHERE OCCURS
3MM PVC EDGE BANDING
4"
U.N.O.
1 1/2"

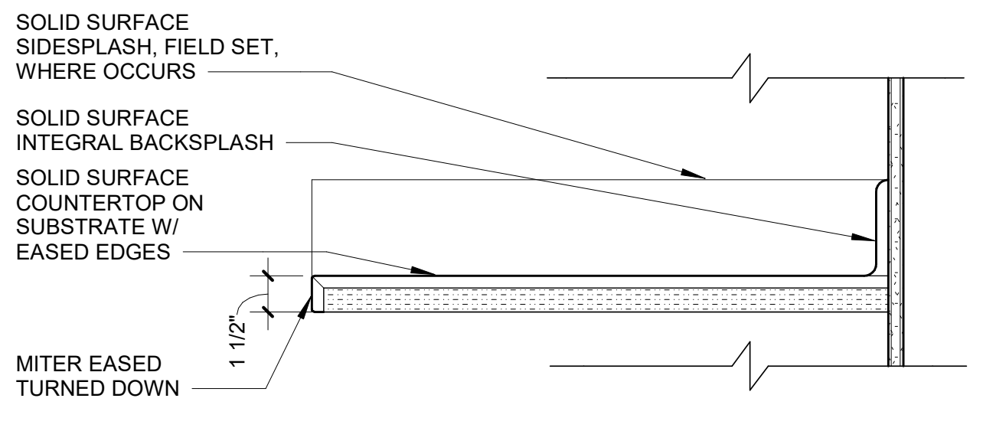
B6 TYPICAL PLASTIC LAMINATE COUNTERTOP
1 1/2" = 1'-0"


SEALANT AT PERIMETER
SOLID SURFACE SILL
1/2"
MTL. J-MOLD, TYP. FINISH W/ SEALANT
1/2"

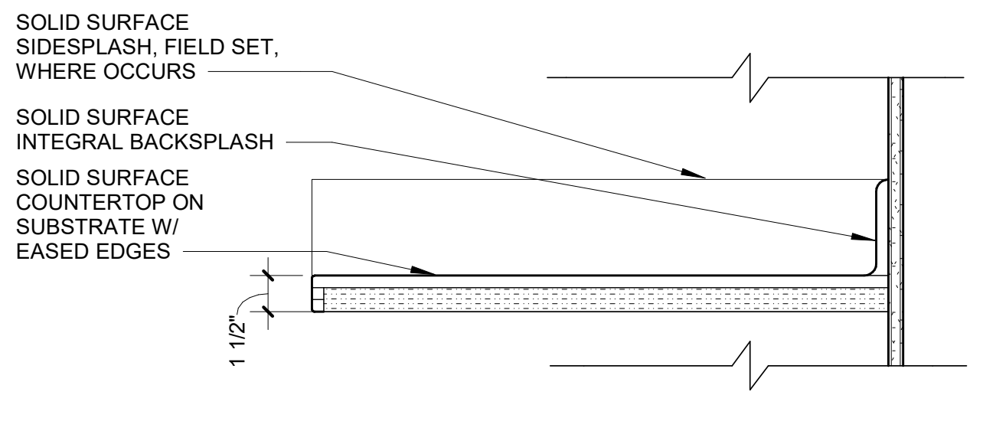
B5 DETAIL AT SOLID SURFACE WINDOW SILL
1 1/2" = 1'-0"


1/2" SCRIBEABLE EXTENSION
SILICONE SEALANT TO MATCH WALL COLOR
R 1/8"
SOLID SURFACE BACKSPLASH
R 1/2"
4" U.N.O.
SOLID SURFACE COUNTERTOP
FRAMING

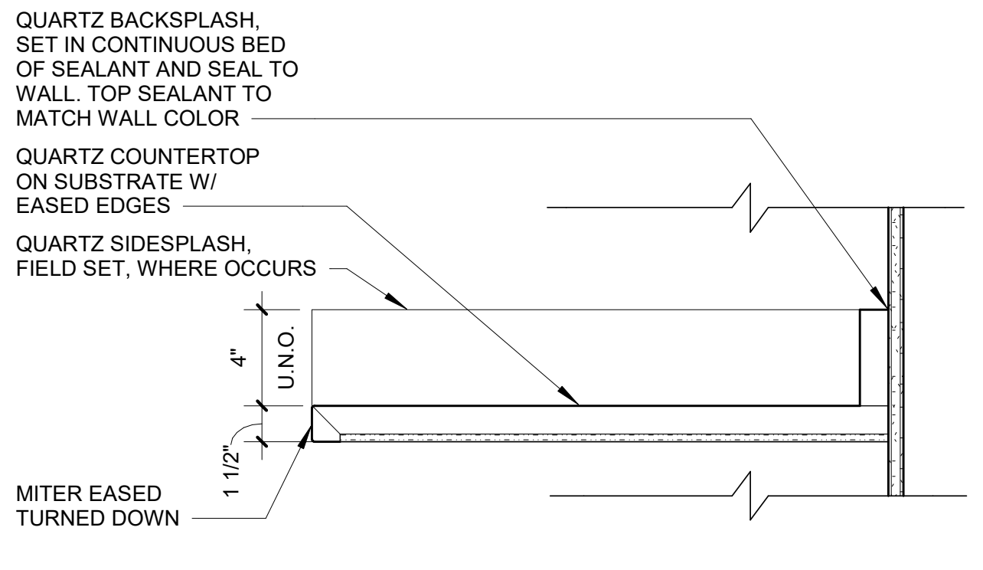
B4 DETAIL AT SOLID SURFACE BACKSPLASH
3" = 1'-0"


SOLID SURFACE SIDESPLASH, FIELD SET, WHERE OCCURS
SOLID SURFACE INTEGRAL BACKSPLASH
SOLID SURFACE COUNTERTOP ON SUBSTRATE W/ EASED EDGES
1 1/2"
MITER EASED TURNED DOWN

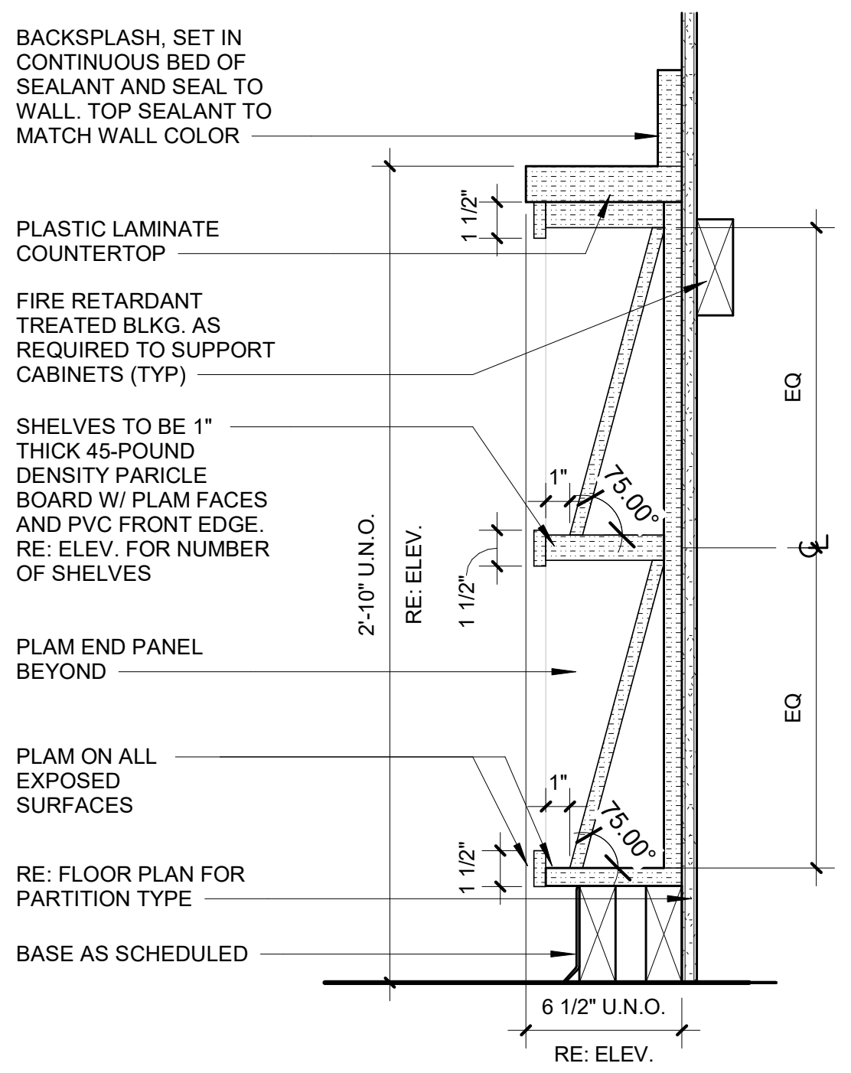
B3 SOLID SURFACE COUNTERTOP - V-GROOVE
1 1/2" = 1'-0"


SOLID SURFACE SIDESPLASH, FIELD SET, WHERE OCCURS
SOLID SURFACE INTEGRAL BACKSPLASH
SOLID SURFACE COUNTERTOP ON SUBSTRATE W/ EASED EDGES
1 1/2"

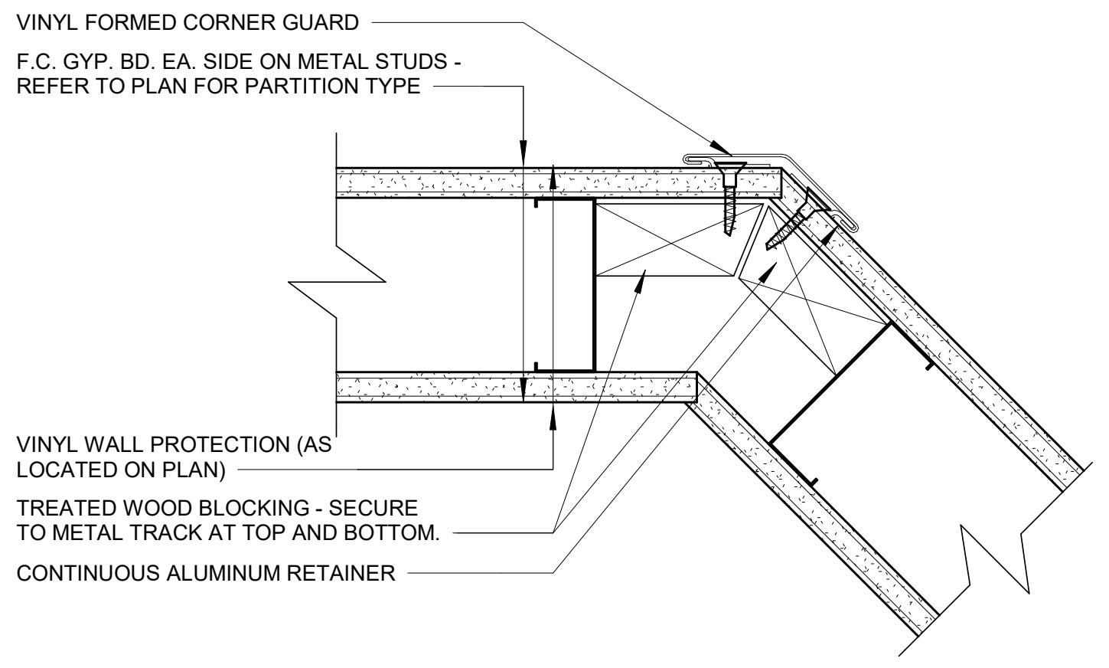
B2 TYPICAL SOLID SURFACE COUNTERTOP
1 1/2" = 1'-0"


QUARTZ BACKSPLASH, SET IN CONTINUOUS BED OF SEALANT AND SEAL TO WALL. TOP SEALANT TO MATCH WALL COLOR
QUARTZ COUNTERTOP ON SUBSTRATE W/ EASED EDGES
QUARTZ SIDESPLASH, FIELD SET, WHERE OCCURS
4"
U.N.O.
1 1/2"
MITER EASED TURNED DOWN

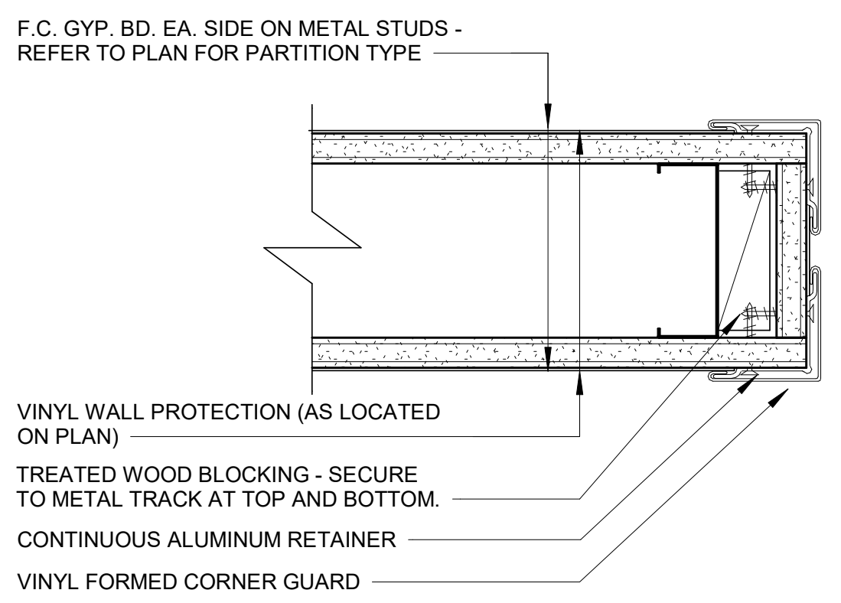
B1 TYPICAL QUARTZ COUNTERTOP
1 1/2" = 1'-0"


BACKSPLASH, SET IN CONTINUOUS BED OF SEALANT AND SEAL TO WALL. TOP SEALANT TO MATCH WALL COLOR
PLASTIC LAMINATE COUNTERTOP
1 1/2"
FIRE RETARDANT TREATED BLKG. AS REQUIRED TO SUPPORT CABINETS (TYP)
SHELVES TO BE 1" THICK 45-POUND DENSITY PARICLE BOARD W/ PLAM FACES AND PVC FRONT EDGE. RE: ELEV. FOR NUMBER OF SHELVES
1"
75.00°
EQ
EQ
2'-10" U.N.O.
RE: ELEV.
1 1/2"
PLAM END PANEL BEYOND
PLAM ON ALL EXPOSED SURFACES
1"
75.00°
1 1/2"
RE: FLOOR PLAN FOR PARTITION TYPE
BASE AS SCHEDULED
6 1/2" U.N.O.
RE: ELEV.

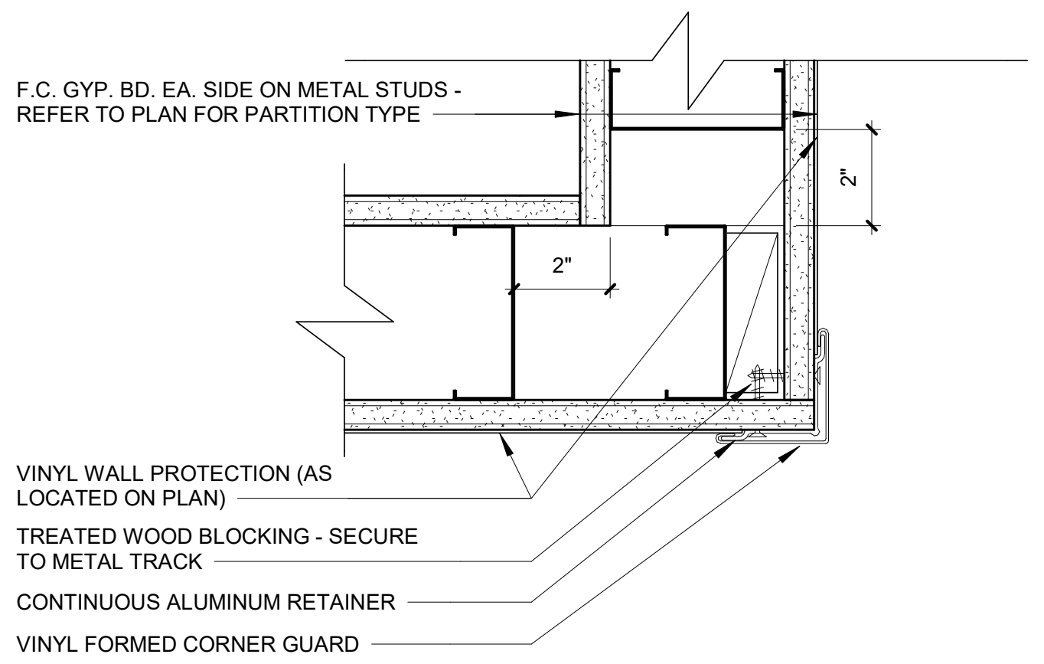
A6 DETAIL AT DISPLAY CASEWORK
1 1/2" = 1'-0"


VINYL FORMED CORNER GUARD
F.C. GYP. BD. EA. SIDE ON METAL STUDS - REFER TO PLAN FOR PARTITION TYPE
VINYL WALL PROTECTION (AS LOCATED ON PLAN)
TREATED WOOD BLOCKING - SECURE TO METAL TRACK AT TOP AND BOTTOM.
CONTINUOUS ALUMINUM RETAINER

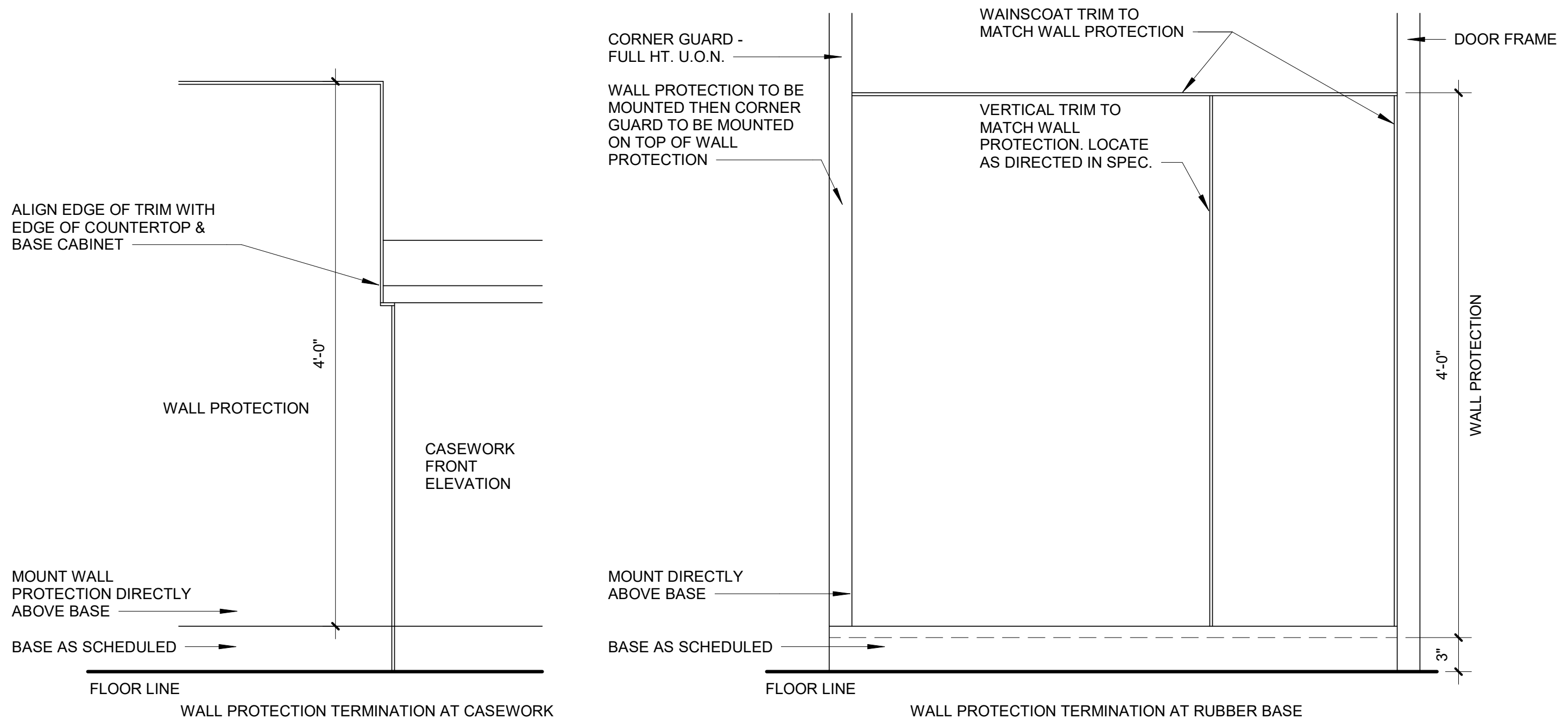
A5 TYPICAL ANGLED VINYL CORNER GUARD
3" = 1'-0"


F.C. GYP. BD. EA. SIDE ON METAL STUDS - REFER TO PLAN FOR PARTITION TYPE
VINYL WALL PROTECTION (AS LOCATED ON PLAN)
TREATED WOOD BLOCKING - SECURE TO METAL TRACK AT TOP AND BOTTOM.
CONTINUOUS ALUMINUM RETAINER
VINYL FORMED CORNER GUARD

A4 TYPICAL DOUBLE VINYL CORNER GUARD
3" = 1'-0"


F.C. GYP. BD. EA. SIDE ON METAL STUDS - REFER TO PLAN FOR PARTITION TYPE
2"
2"
VINYL WALL PROTECTION (AS LOCATED ON PLAN)
TREATED WOOD BLOCKING - SECURE TO METAL TRACK
CONTINUOUS ALUMINUM RETAINER
VINYL FORMED CORNER GUARD

A3 TYPICAL SINGLE VINYL CORNER GUARD
3" = 1'-0"


ALIGN EDGE OF TRIM WITH EDGE OF COUNTERTOP & BASE CABINET
4'-0"
WALL PROTECTION
CASEWORK FRONT ELEVATION
MOUNT WALL PROTECTION DIRECTLY ABOVE BASE
BASE AS SCHEDULED
FLOOR LINE
WALL PROTECTION TERMINATION AT CASEWORK
CORNER GUARD - FULL HT. U.O.N.
WALL PROTECTION TO BE MOUNTED THEN CORNER GUARD TO BE MOUNTED ON TOP OF WALL PROTECTION
WAINSCOAT TRIM TO MATCH WALL PROTECTION
VERTICAL TRIM TO MATCH WALL PROTECTION. LOCATE AS DIRECTED IN SPEC.
DOOR FRAME
4'-0"
WALL PROTECTION
3"
MOUNT DIRECTLY ABOVE BASE
BASE AS SCHEDULED
FLOOR LINE
WALL PROTECTION TERMINATION AT RUBBER BASE

A2 TYP- ELEV- OF WALL PROTECTION-CORNER GUARD
1" = 1'-0"

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
04/17/2025

SAMUEL K. BECKMAN
A-2011012130

4/8/2025 09:10:44 AM
Samuel K. Beckman - Architect
License - Missouri #A-2011012130

ACI BOLAND ARCHITECTS

ACI/Boland, Inc.
Kansas City | St. Louis

1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600

Licensee's Certificate of Authority Number:
Missouri: #000958

MEP ENGINEER

HENDERSON ENGINEERS
1600 1091 WEST 84TH TER., SUITE 300
LENEXA, KS 66214
913.894.9720
Licensee's Certificate of Authority Number:
E-556D

SUMMIT GI ADDITION
SAINT LUKE'S EAST
100 NE SAINT LUKE'S BLVD.
LEE'S SUMMIT MO 64086

Date	04/07/25
Job Number	3-24100
Drawn By	HG
Checked By	KS/SB

Revision

Number	Date	Description

A741

INTERIOR DETAILS

MECHANICAL SYMBOLS

THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED. V3.02

STANDARD MOUNTING HEIGHT

THERMOSTATS (USER ADJUSTABLE) (TOP OF DEVICE)	46"
CONTROLS (TOP OF DEVICE)	46"

INSTALL DEVICES AT THE MOUNTING HEIGHTS SHOWN ABOVE UNO IN THE CONSTRUCTION DOCUMENTS. MOUNTING HEIGHTS LISTED ABOVE OR ELSEWHERE IN THE CONSTRUCTION DOCUMENTS ARE AFF OR AFG TO TOP OF THE DEVICE UNO. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.

ANNOTATION

1	MECHANICAL PLAN NOTE CALLOUT
CU 1	MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE)
◕	CONNECTION POINT OF NEW WORK TO EXISTING
1 M1	DETAIL REFERENCE. UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER
1 M1	SECTION CUT DESIGNATION
▩	DEDICATED EQUIPMENT ACCESS TILE
☐	ACCESS PANEL

ABBREVIATIONS

A/C	AIR CONDITIONING
ACC	AIR COOLED CHILLER
ACCU	AIR COOLED CONDENSING UNIT
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
AO	ANALOG OUTPUT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
AWG	AMERICAN WIRE GAUGE
B	BOILER
BAS	BUILDING AUTOMATION SYSTEM
BB	BACKBONE
BD	BACKDRAFT DAMPER
BD	BLOWDOWN
BFC	BELOW FINISHED CEILING
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BFP	BOILER FEED PUMP
BHP	BRAKE HORSEPOWER
BI	BINARY INPUT
BO	BINARY OUTPUT
BOD	BOTTOM OF DUCT
BOS	BOTTOM OF STRUCTURE
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CLG	COOLING
CP	CONDENSATE PUMP
CPT	CONTROL POWER TRANSFORMER
CRAC	COMPUTER ROOM AIR CONDITIONING UNIT
CRU	COMPUTER ROOM UNIT
CT	COOLING TOWER
CV	CONTROL VALVE
CWP	CONDENSER WATER PUMP
CU	CONDENSING UNIT
CHWP	CHILLED WATER PUMP
DB	DECIBELS
DBA	DECIBEL AVERAGE
DDC	DIRECT DIGITAL CONTROL
DI	DIGITAL INPUT
DISC	DISCONNECT
DN	DOWN
DS	DUCT SILENCER
DX	DIRECT EXPANSION
(E)	EXISTING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
ED	EXHAUST DUCT
EDB	ENTERING DRY BULB
EF	EXHAUST FAN
EFF	EFFICIENCY
EMS	ENERGY MANAGEMENT SYSTEM
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
FCU	FAN COIL UNIT
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
FF	FINISHED FLOOR
FPI	FINS PER INCH
FPM	FEET PER MINUTE
GC	GENERAL CONTRACTOR
GEA	GREASE EXHAUST AIR
GPM	GALLONS PER MINUTE
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HTG	HEATING
HWP	HEATING WATER PUMP
IN WC	INCHES OF WATER COLUMN
L	LOUVER
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB
LP	LOW PRESSURE
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MBH	1000 BTU PER HOUR
MD	MOTORIZED DAMPER
MFR	MANUFACTURER
MIN	MINIMUM
N/A	NOT APPLICABLE
N/C	NORMALLY CLOSED
N/O	NORMALLY OPEN
NOM	NOMINAL
NC	NOISE CRITERIA
NF	NON-FUSED
NIC	NOT IN CONTRACT
OA	OUTSIDE AIR
PICV	PRESSURE INDEP. CONTROL VALVE
PROVIDE	FURNISH AND INSTALL
QTY	QUANTITY
RA	RETURN AIR
RC	ROOM CRITERIA
RD	RETURN DUCT
REA	RELIEF AIR
RF	RETURN FAN
RFR	REFRIGERANT
RH	RELATIVE HUMIDITY
RH	ROOF HOOD
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
SCP	STEAM CONDENSATE PUMP
SD	SMOKE DUCT DETECTOR
SD	SUPPLY DUCT
SF	SUPPLY FAN
SH	SENSIBLE HEAT CAPACITY
SOW	SCOPE OF WORK
SP	STATIC PRESSURE
ST	STEAM TRAP
STM	STEAM
TBD	TO BE DETERMINED
TC/C	TEMPERATURE CONTROLS CONTRACTOR
TCP	TEMPERATURE CONTROL PANEL
TF	TRANSFER FAN
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
TH	TOTAL HEAT CAPACITY
TSP	TOTAL STATIC PRESSURE
TT	TEMPERATURE TRANSMITTAL
TYP	TYPICAL
U/F	UNDERFLOOR
U/G	UNDERGROUND
U/S	UNDERSLAB
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
VRV	VARIABLE REFRIGERANT VOLUME
W/	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER COLUMN
WPD	WATER PRESSURE DROP
XP	EXPLOSION PROOF

HVAC DUCTWORK AND ACCESSORIES

	DUCTWORK/EQUIPMENT TO BE REMOVED OR RELOCATED
	EXISTING DUCTWORK/EQUIPMENT TO REMAIN
	LINEAR SLOT DIFFUSER
	INSULATED FLEXIBLE DUCT (MAX. 5'-0" LONG)
	BRANCH DUCT WITH 45° RECTANGLE-ROUND BRANCH FITTING AND MANUAL VOLUME DAMPER
	ELBOW WITH TURNING VANES
	BRANCH DUCT WITH BELL-MOUTH FITTING & MANUAL VOLUME CONTROL DAMPER
N	DUCT UP
N	DUCT DOWN
EA	EXHAUST AIR
GEA	EXHAUST AIR - GREASE
OA	OUTSIDE AIR
REA	RELIEF AIR
RA	RETURN AIR
XEA	SPECIAL EXHAUST
SA	SUPPLY AIR
	EQUIPMENT WITH FLEXIBLE DUCT CONNECTION
	10" (NECK SIZE) CSD-1 (TYPE) 300 CFM (CFM OF SUPPLY DIFFUSER OR REGISTER)
	24x24 (NECK SIZE) CEG-1 (TYPE) 800 CFM (CFM OF EXHAUST GRILLE)
▩	EQUIPMENT ACCESS TILE (IN ACT CEILINGS)
☐	ACCESS PANEL (IN GYPSUM)
	MANUAL VOLUME DAMPER
	SQUARE TO ROUND TRANSITION
RD	DUCT MOUNTED SMOKE DETECTOR (SD=SUPPLY/RD=RETURN)
XX" Ø	ROUND DUCT TAG INDICATING DIAMETER
XX" x XX"	RECTANGULAR DUCT TAG INDICATING INTERNAL DUCT DIMENSIONS.
XX" / XX" θ	FLAT OVAL DUCT TAG INDICATING INTERNAL DUCT DIMENSIONS
#	RISER DESIGNATION
FD	FIRE DAMPER
FSD	FIRE SMOKE DAMPER
SD	SMOKE DAMPER
VD	VOLUME DAMPER
MD	MOTORIZED DAMPER
BD	BACKDRAFT DAMPER

ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE DIMENSIONS. REFER TO DUCTWORK SPECIFICATIONS FOR DUCTWORK INSULATION AND LINER INFORMATION.

HVAC CONTROL DEVICES

H	HUMIDISTAT
T	THERMOSTAT
CO	CARBON MONOXIDE SENSOR
CO2	CARBON DIOXIDE SENSOR
DP	DIFFERENTIAL PRESSURE SENSOR
FS	FLOW SWITCH
HS	HUMIDITY SENSOR
PS	PULL STATION
RT	REMOTE TESTING STATION WITH INDICATING LIGHT
SP	STATIC PRESSURE
TS	TEMPERATURE SENSOR

PIPING SYMBOLS

	DIRECTION OF FLOW
	CONTROL VALVE
	THREE-WAY CONTROL VALVE
	SHUTOFF VALVE
	CHECK VALVE
	BALANCING VALVE WITH PRESSURE PORTS
	TRIPLE DUTY VALVE WITH PRESSURE PORTS
	STRAINER
	STRAINER WITH BLOWOFF
	RELIEF / SAFETY VALVE
	SOLENOID VALVE
	PRESSURE REDUCING VALVE
	GAS PRESSURE REGULATOR
	THERMOSTATIC MIXING VALVE
PA	PIPE ANCHOR
	EXPANSION JOINT
	PIPE GUIDE
	PIPING SUPPORT
	F & T TRAP
	BUCKET TRAP
	THERMOSTATIC TRAP
	BACKFLOW PREVENTER
	PRESSURE GAUGE
	THERMOMETER
	PRESSURE AND TEMPERATURE TEST PLUG
	UNION
	FLANGE CONNECTION
	VACUUM RELIEF VALVE
AV	AUTOMATIC AIR VENT
MV	MANUAL AIR VENT
	PRESSURE / VACUUM SWITCH
	CLEANOUT
	CAP
	ELBOW UP
	ELBOW DOWN
	TEE UP
	TEE DOWN
	ELBOW UP WITH SHUT-OFF VALVE (SOV)
	ELBOW DOWN WITH SHUT-OFF VALVE (SOV)
	TEE UP WITH SHUT-OFF VALVE (SOV)
	TEE DOWN WITH SHUT-OFF VALVE (SOV)
	REDUCER
	RECIRCULATION PUMP
	P-TRAP
	GAS COCK
	TOP BEAM CLAMP
	TRAPEZE HANGER
	FLEXIBLE CONNECTION

PIPING LINETYPES

	EXISTING PIPING TO BE REMOVED OR RELOCATED
	EXISTING PIPING TO REMAIN
CD	CONDENSATE DRAIN (CD)
ACD	AUXILIARY CONDENSATE DRAIN (ACD)
NPW	NON-POTABLE WATER (NPW)
G	NATURAL GAS (G)
G	NATURAL GAS ON ROOF (G)
MPG	MEDIUM PRESSURE NATURAL GAS (MPG)
MPG	MEDIUM PRESSURE NATURAL GAS ON ROOF (MGP)
FOS	FUEL OIL SUPPLY (FOS)
FOR	FUEL OIL RETURN (FOR)
FOV	FUEL OIL VENT (FOV)
LPG	LIQUEFIED PETROLEUM GAS (LPG)
BFW	BOILER FEED WATER (BFW)
HPS	HIGH PRESSURE STEAM SUPPLY (HPS)
HPC	HIGH PRESSURE STEAM CONDENSATE (HPC)
LPS	LOW PRESSURE STEAM SUPPLY (LPS)
LPC	LOW PRESSURE STEAM CONDENSATE (LPC)
CPD	CONDENSATE PUMP DISCHARGE (CPD)
HWS	HEATING HOT WATER SUPPLY (HWS)
HWR	HEATING HOT WATER RETURN (HWR)
CHWS	CHILLED WATER SUPPLY (CHWS)
CHWR	CHILLED WATER RETURN (CHWR)
HCS	HOT / CHILLED WATER SUPPLY (HCS)
HCR	HOT / CHILLED WATER RETURN (HCR)
CWS	CONDENSER WATER SUPPLY (CWS)
CWR	CONDENSER WATER RETURN (CWR)
RL	REFRIGERANT LIQUID (RL)
RD	REFRIGERANT DISCHARGE (HOT GAS) (RD)
RS	REFRIGERANT SUCTION (RS)
RDB	REFRIGERANT DISCHARGE BYPASS (RDB)
RV	REFRIGERANT VENT (RV)

HATCHING LEGEND

ENLARGED PLAN	▨
NOT IN SCOPE (NIS)	▩

LINETYPE LEGEND

THROUGHOUT THE DRAWINGS DIFFERENT LINETYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF NEW WORK AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASES DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC.

EXISTING	———	NEW	━━━
DEMOLISH	— — — —	FUTURE	- - - - - - -

GENERAL NEW NOTES:

1. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SLH MASTER SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.

2. PROVIDE SEISMIC RESTRAINTS AS NEEDED FOR THE MECHANICAL SYSTEMS IN THE PROJECT BASED ON THE SEISMIC ANALYSIS REQUIRED BY THE SPECIFICATIONS.

3. EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. COORDINATE NEW WORK AND DEMOLITION WITH OTHER DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

4. COORDINATE THE INSTALLATION OF THE MECHANICAL SYSTEMS WITH OTHER TRADES TO ENSURE A NEAT AND ORDERLY INSTALLATION. INSTALL DUCTWORK AND PIPING AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE INSTALLATION OF DUCTWORK AND PIPING TO AVOID CONFLICTS WITH ELECTRICAL PANELS, LIGHTING FIXTURES, ETC. ANY MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.

5. WHERE SHUTDOWN OF EXISTING SYSTEMS IS REQUIRED DURING NEW WORK, COORDINATE SHUTDOWN TIME AND DURATION WITH THE OWNER TO MINIMIZE DOWNTIME. NOTIFY OWNER SEVEN (7) DAYS PRIOR TO INTERRUPTION OF SERVICE.

6. DURING INSTALLATION OF NEW WORK, AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN. REPAIR DAMAGE CAUSED DURING CONSTRUCTION AT NO EXTRA COST TO THE OWNER.

7. PROVIDE TEMPORARY BARRIERS TO CONTAIN DUST AND DEBRIS RESULTING FROM THE PERFORMANCE OF THE WORK TO THE AREA WHERE WORK IS BEING PERFORMED.

8. ALL MECHANICAL EQUIPMENT SHOWN ON THE MECHANICAL PLANS SHALL BE PROVIDED BY DIVISION 23 UNLESS OTHERWISE NOTED.

9. NEW MECHANICAL EQUIPMENT, DUCTWORK AND PIPING ARE SHOWN AT APPROXIMATE LOCATIONS. FIELD MEASURE FINAL DUCTWORK AND PIPING LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED TO FIT THE DUCTWORK AND PIPING WITHIN THE AVAILABLE SPACE. VERIFY THAT FINAL EQUIPMENT LOCATIONS MEET MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.

10. REFER TO ARCHITECTURAL DRAWINGS FOR RELATED CONSTRUCTION DETAILS AS APPLICABLE TO THE HVAC SYSTEM. VERIFY CHASES AND PENETRATIONS SHOWN ON ARCHITECTURAL DRAWINGS THAT ARE INTENDED FOR DUCTWORK AND PIPING MEET REQUIREMENTS.

11. COORDINATE LOCATION OF ROOF MOUNTED HVAC EQUIPMENT AND ROOF PENETRATIONS WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.

12. INDOOR AIR QUALITY MEASURES: PROTECT INSIDE OF (INSTALLED AND DELIVERED) DUCTWORK AND HVAC UNITS FROM EXPOSURE TO DUST, DIRT, PAINT AND MOISTURE. REPLACE INSULATION THAT HAS BECOME WET AT ANY TIME DURING CONSTRUCTION, DRYING THE INSULATION IS NOT ACCEPTABLE. SEAL ANY TEARS OR JOINTS OF INTERNAL FIBERGLASS INSULATION. REMOVE DEBRIS FROM CEILING/RETURN AIR PLENUM INCLUDING DUST. AN INDEPENDENT, PROFESSIONAL DUCT CLEANING COMPANY SHALL VACUUM CLEAN ANY DUCTWORK CONNECTED TO HVAC UNITS THAT WERE OPERATED DURING THE CONSTRUCTION PERIOD AFTER NEW FILTERS ARE INSTALLED AND PRIOR TO TURNING SYSTEM OVER TO THE OWNER. THE INTERNAL SURFACES AND ASSOCIATED COILS OF ANY HVAC UNITS THAT WERE OPERATED SHALL ALSO BE CLEANED.

13. INSTALL DUCTWORK AND PIPING PARALLEL TO BUILDING COLUMN LINES UNLESS OTHERWISE SHOWN OR NOTED.

14. OVERHEAD HANGERS AND SUPPORTS FOR EQUIPMENT, DUCTWORK AND PIPING SHALL BE FASTENED TO BUILDING JOISTS OR BEAMS. DO NOT ATTACH HANGERS AND SUPPORTS TO THE ABOVE FLOOR SLAB OR ROOF EXCEPT WHERE CONCRETE INSERTS IN CONCRETE SLABS ARE ALLOWED BY THE SPECIFICATIONS.

15. COORDINATE LOCATION OF EQUIPMENT SUPPORTS WITH LOCATION OF EQUIPMENT ACCESS PANELS/DOORS TO ENABLE SERVICE OF EQUIPMENT AND/OR FILTER REPLACEMENT.

16. SEAL PENETRATIONS THROUGH THE BUILDING COMPONENTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS.

17. FOR HYDRONIC, STEAM AND STEAM CONDENSATE PIPING TO EQUIPMENT, MINIMUM ACCEPTABLE SIZE FOR STEEL AND COPPER PIPE IS 3/4 INCH. USE THIS CRITERIA WHERE PIPE SIZES ARE NOT SHOWN ON PLAN.

18. DRAIN, FLUSH, AND REFILL ALL PIPING SYSTEMS NECESSARY TO PERFORM THE WORK. REFERENCE SPECIFICATIONS FOR FLUSHING PERFORMANCE REQUIREMENTS AND SUBMIT FLUSHING PLAN TO ENGINEER FOR REVIEW. PROVIDE CHEMICAL TREATMENT FOR ALL PIPING SYSTEMS AFTER FLUSHING AND REFILLING THE SYSTEM.

19. COORDINATE THE EXACT MOUNTING SIZE AND FRAME TYPE OF DIFFUSERS, REGISTERS AND GRILLES WITH THE SUPPLIER TO MEET THE CEILING, WALL AND DUCT INSTALLATION REQUIREMENTS.

20. ADJUST LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES AS REQUIRED TO ACCOMMODATE FINAL CEILING GRID AND LIGHTING LOCATIONS.

21. PAINT PORTIONS OF DUCTWORK AND INSULATION THAT ARE EXPOSED TO VIEW BY THE INSTALLATION OF DIFFUSERS, REGISTERS, AND GRILLES IN CEILINGS OR WALLS FLAT BLACK. PORTIONS INCLUDE BOTH THE INTERIOR OF UNLINED DUCTWORK AND THE EXTERIOR OF DUCTWORK AND INSULATION.

22. DUCTWORK CROSSING FIRE RATED WALLS OR OTHER FIRE RATED ASSEMBLIES SHALL BE MINIMUM 26 GAUGE SHEET METAL.

23. PROVIDE FIRE OR FIRE/SMOKE DAMPERS, AS APPLICABLE, IN DUCTWORK AT CEILINGS AND WALLS AT LOCATIONS SHOWN ON THE PLANS. FIRE AND FIRE/SMOKE DAMPERS SHALL CONFORM TO NFPA AS APPLICABLE. COORDINATE SLEEVE LENGTH WITH REQUIREMENTS OF INSTALLED LOCATION.

24. PROVIDE WALL OR DUCT ACCESS PANELS OR DOORS FOR ACCESS TO FIRE AND FIRE/SMOKE DAMPERS. ACCESS PANEL OR DOOR SHALL BE MINIMUM SIZE OF 10" BY 10" AND SHALL BE INSTALLED WITHIN 12" OF DAMPER. PROVIDE A REMOVABLE DUCT SECTION WHERE DUCT SIZE IS TOO SMALL FOR A 10" BY 10" ACCESS DOOR.

25. LOCATE AND SET THERMOSTATS AND HUMIDISTATS AT LOCATIONS SHOWN ON PLANS. VERIFY EXACT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. DEVICE MOUNTING HEIGHT SHALL MEET ADA REQUIREMENTS UNLESS OTHERWISE NOTED ON PLANS. PROVIDE INSULATED BACKING FOR THERMOSTATS MOUNTED ON EXTERIOR BUILDING WALLS. INSTALL WIRING IN CONDUIT PROVIDED BY DIVISION 26. AT A MINIMUM, PROVIDE CONDUIT IN THE WALL FROM THE JUNCTION BOX TO 6" ABOVE THE CEILING.

26. COORDINATE THE LOCATION AND ELEVATION OF WALL-MOUNTED DEVICES WITH PRESENTATION BOARDS, DISPLAY CABINETS, SHELVES OR OTHER COMPONENTS SHOWN ON THE ARCHITECTURAL DRAWINGS THAT ARE TO BE INSTALLED UNDER OTHER DIVISIONS. CONTRACTOR WILL NOT BE REIMBURSED FOR RELOCATION OF WALL-MOUNTED DEVICES CAUSED BY A LACK OF COORDINATION.

27. PROVIDE A MANUAL BALANCING DAMPER IN EACH DUCT TAKEOFF FROM SUPPLY, RETURN, OUTDOOR AND EXHAUST AIR DUCTS.

28. PROVIDE A PREFABRICATED 45 DEGREE, HIGH EFFICIENCY, RECTANGULAR/ROUND BRANCH DUCT TAKEOFF FITTING FOR BRANCH DUCT CONNECTIONS AND TAKE-OFFS TO INDIVIDUAL DIFFUSERS, REGISTERS AND GRILLES. PROVIDE WITH INTEGRAL MANUAL BALANCING DAMPER AND LOCKING QUADRANT WHERE INDICATED ON PLANS.

29. BRANCH DUCTWORK TO AIR OUTLETS SHALL BE SAME SIZE AS OUTLET NECK SIZE UNLESS OTHERWISE NOTED.

30. REFER TO SPECIFICATIONS FOR DUCTWORK AND PIPING INSULATION REQUIREMENTS. DUCT SIZES ON MECHANICAL PLANS INDICATE CLEAR INSIDE AIRFLOW DIMENSIONS, INCREASE SHEET METAL SIZES ACCORDINGLY TO ACCOUNT FOR THICKNESS OF DUCT LINER.

31. FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'-0" IN LENGTH AND SHALL BE INSTALLED AND SUPPORTED TO AVOID SHARP BENDS AND SAGGING. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

32. RIGIDLY SUSPEND UNIT HEATER FROM STRUCTURE WITH SUPPORTING ANGLES AND ALL-THREAD HANGING RODS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

33. PROVIDE EQUIPMENT VENTS AND FLUES PER EQUIPMENT MANUFACTURERS RECOMMENDATIONS AND EQUIPMENT SPECIFICATIONS. KEEP PENETRATIONS THROUGH ROOF A MINIMUM OF 10'-0" FROM HVAC EQUIPMENT FRESH AIR INLETS AND 2'-0" FROM ROOF PARAPETS.

34. PROVIDE WALL MOUNTED LOUVERS AND DAMPERS WITH SUITABLE MOUNTING FRAME TO MATCH WALL CONSTRUCTION. COORDINATE WITH ARCHITECTURAL DRAWINGS.

35. PROVIDE A NEW SET OF AIR FILTERS IN UNITS PRIOR TO TESTING, ADJUSTING AND BALANCING AND BEFORE TURNING SYSTEM(S) OVER TO OWNER.

36. FIELD VERIFY THAT THE EXISTING EQUIPMENT INCLUDING ACCESSORIES BEING REUSED FOR THIS PROJECT IS NOT DAMAGED AND IS IN GOOD WORKING ORDER. REPORT ANY DEFICIENCIES TO THE OWNER OR ARCHITECT. SUBMIT TO THE OWNER AND ARCHITECT A WRITTEN REPORT DESCRIBING TESTS PERFORMED TO VERIFY OPERATION AND RESULTS OF THE TESTS.

37. CLEAN EXISTING EQUIPMENT AND EQUIPMENT COMPONENTS BEING REUSED FOR THIS PROJECT. PROVIDE NEW FILTERS FOR EXISTING AIR HANDLING EQUIPMENT PRIOR TO STARTUP OF EQUIPMENT. NEW FILTERS SHALL BE COMPATIBLE WITH THE EXISTING EQUIPMENT AND EQUAL IN PERFORMANCE TO THE EXISTING FILTERS AT NEW CONDITION UNLESS OTHERWISE NOTED. CLEAN STRAINERS IN PIPING SYSTEMS PRIOR TO STARTING PUMPS.

38. CLEAN THE EXTERIOR OF EXISTING COILS TO BE REUSED FOR THIS PROJECT. VACUUM BRUSH THE COIL IN THE DIRECTION OF THE FINS AND CLEAN THE COILS WITH COIL CLEANING FLUID. COMB ANY FINS BENT TO PROVIDE A STRAIGHT SURFACE FOR AIRFLOW.

39. LUBRICATE EXISTING EQUIPMENT BEING REUSED FOR THIS PROJECT IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. OBTAIN INSTRUCTIONS FROM MANUFACTURER IF THEY ARE NOT AVAILABLE AT THE SITE.

40. FULLY CHARGE EXISTING REFRIGERANT SYSTEMS BEING REUSED FOR THIS PROJECT IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. CHARGE SYSTEMS WITH NEW REFRIGERANT MATCHING EXISTING.

41. TEMPORARY INSTALLATIONS OF INFECTION CONTROL MEASURES DURING CONSTRUCTION SHALL BE COORDINATED WITH THE FACILITY'S INFECTION CONTROL STAFF. PRIOR TO CONSTRUCTION PROVIDE ALL REQUIRED TEMPORARY INSTALLATIONS, INCLUDING DETAILS OF THE INFECTION CONTROL MEASURES SUCH AS TEMPORARY BARRIERS AND MEMBRANES, PORTABLE EXHAUST FANS AND TEMPORARY DUCTWORK. TEMPORARY INSTALLATIONS MUST NOT HAVE A NEGATIVE IMPACT ON EXISTING SYSTEMS NOR CAUSE UNSAFE CONDITIONS. TEMPORARY INSTALLATIONS SHALL MAINTAIN ADEQUATE EGRESS AND SHALL NOT OBSTRUCT EXISTING EXITS, CREATE A FIRE HAZARD OR REDUCE REQUIRED FIRE RESISTANCE. TEMPORARY VENTILATION SYSTEMS SHALL NOT CAUSE THE AIR BALANCE OF ADJACENT ROOMS OR SPACES TO BE IMPACTED OR ALTER THE PERFORMANCE OF PERMANENT BUILDING VENTILATION SYSTEMS. AIRFLOW MEASUREMENTS SHALL BE TAKEN TO VERIFY ADJACENT ROOMS OR SPACES ARE NOT IMPACTED.

GENERAL DEMOLITION NOTES:

1. COORDINATE ALL DEMOLITION WITH WHAT IS SHOWN ON ARCHITECTURAL PLANS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.

2. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER OR OWNER, AS DEFINED IN BID DOCUMENTS, OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.

3. OWNER RETAINS RIGHTS OF SALVAGE FOR EQUIPMENT AND FIXTURES TO BE REMOVED. COORDINATE WITH OWNER THE EQUIPMENT AND FIXTURES TO BE SALVAGED AND THE LOCATION FOR STORAGE. AVOID DAMAGE TO SALVAGED EQUIPMENT, FIXTURES AND DEVICES DURING DEMOLITION WORK AND DURING TRANSPORT TO OWNER'S DESIGNATED STORAGE LOCATION.

4. REMOVE ITEMS SHOWN HEAVY-LINED DASHED, AND/OR NOTED TO BE REMOVED.

5. AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN FOR NEW INSTALLATION. REPAIR DAMAGE CAUSED DURING WORK AT NO EXTRA COST TO THE OWNER.

6. SEAL PENETRATIONS THROUGH FLOORS, WALLS, CEILINGS AND ROOFS WHERE MECHANICAL COMPONENTS ARE REMOVED AND WHERE THE EXISTING PENETRATION IS NOT USED FOR THE NEW INSTALLATION. REPAIR DAMAGED SURFACES TO MATCH ADJACENT AREAS OR AS INDICATED ON THE ARCHITECTURAL DRAWINGS.

7. REMOVE HANGERS AND SUPPORTS WHERE DUCTWORK, PIPING AND/OR EQUIPMENT ARE REMOVED AND THE EXISTING HANGERS AND SUPPORTS ARE NOT USED FOR THE NEW INSTALLATION.

8. INSTALL PERMANENT CAPS WHERE DUCTWORK AND PIPING IS REMOVED AND THE EXISTING TAPS ARE NOT USED FOR THE NEW INSTALLATION. WHERE DUCTWORK AND PIPING ARE REMOVED AND THE EXISTING TAPS WILL BE USED FOR THE NEW INSTALLATION, INSTALL TEMPORARY CAPS TO PROTECT THE INTERIOR SURFACES UNTIL NEW DUCTWORK AND PIPING ARE INSTALLED.

9. INSPECT EXISTING EQUIPMENT TO REMAIN TO VERIFY THAT EQUIPMENT IS OPERATING PROPERLY. NOTIFY OWNER OF DAMAGED AND/OR MALFUNCTIONING COMPONENTS.

10. WHERE SHUTDOWN OF EXISTING SYSTEMS IS REQUIRED DURING DEMOLITION, COORDINATE SHUTDOWN TIME AND DURATION WITH OWNER TO MINIMIZE DOWNTIME. NOTIFY OWNER SEVEN (7) DAYS PRIOR TO INTERRUPTION OF SERVICE.

11. CEASE WORK AND IMMEDIATELY NOTIFY THE OWNER SHOULD ANY HAZARDOUS MATERIALS BE ENCOUNTERED DURING THE PERFORMANCE OF THE WORK.

12. REMOVAL, RECOVERY, RECYCLING, AND DISPOSAL OF REFRIGERANT, CONTAINED IN ANY EQUIPMENT TO BE REMOVED, SHALL BE PERFORMED IN STRICT ACCORDANCE WITH CURRENT EPA GUIDELINES.

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
04/17/2025

BRADLEY E. CHAMBON
NUMBER
PE-028603

04/07/2025
BRADLEY E. CHAMBON
LICENSE # 028603

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MO. CORPORATE NO: E-556D
EXPIRES 10/31/2025

SUMMIT GI ADDITION
SAINT LUKE'S EAST
100 NE SAINT LUKE'S BLVD.
LEE'S SUMMIT MO 64086

Date	04/07/25
Job Number	3-24100
Drawn By	JI
Checked By	BC

Revision

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M000

MECHANICAL GENERAL NOTES AND LEGEND

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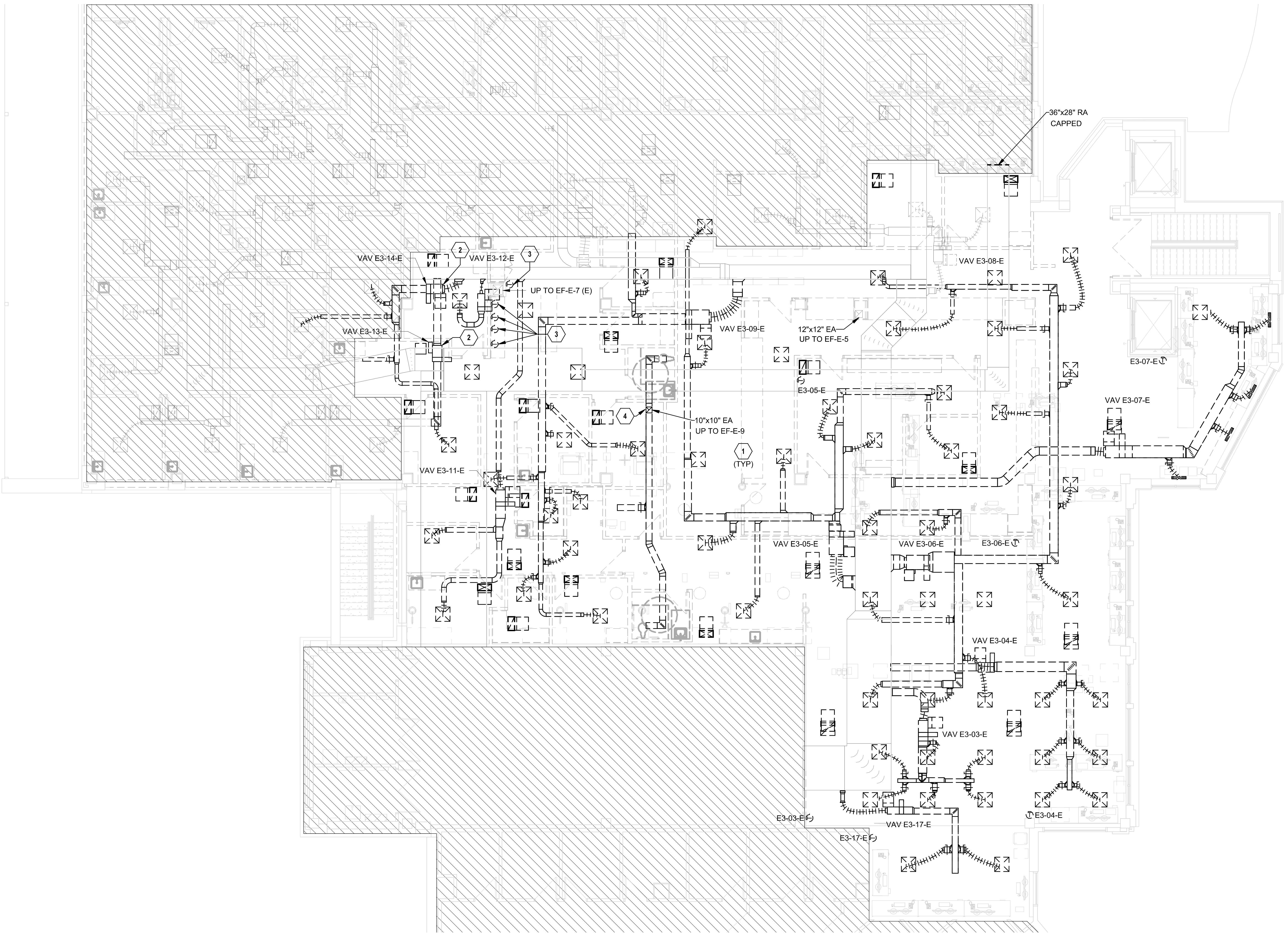
⬡ MECHANICAL DEMOLITION PLAN NOTES:

1 PERFORM A PRE-DEMO AIRFLOW READING OF ALL AIR DEVICES WITHIN SCOPE OF PROJECT AND SUBMIT REPORT TO ENGINEER FOR RECORD.
2 REROUTE VAV BOX AND ASSOCIATED DUCTWORK / HHW PIPE TO AVOID NEW ELECTRICAL ROOM. REFER TO PLANS FOR NEW LOCATION.
3 CONTRACTOR TO VERIFY THERMOSTATS SERVE VAV BOXES IN SCOPE OF WORK. REPORT TO ENGINEER IF NOT ACCURATE.
4 DEMO EXISTING FAN EF-E-9 AND ASSOCIATED DUCTWORK. CONTRACTOR TO VERIFY IF FAN IS SERVING AREAS OUTSIDE OF SCOPE OF WORK. NOTIFY ENGINEER IF NOT ACCURATE.


36"x28" RA
CAPPED
VAV E3-14-E
2
VAV E3-12-E
3
UP TO EF-E-7 (E)
VAV E3-13-E
2
3
VAV E3-08-E
VAV E3-09-E
12"x12" EA
UP TO EF-E-5
E3-05-E
E3-07-E
VAV E3-07-E
4
10"x10" EA
UP TO EF-E-9
1
(TYP)
VAV E3-11-E
VAV E3-05-E
VAV E3-06-E
E3-06-E
VAV E3-04-E
VAV E3-03-E
E3-03-E
E3-17-E
VAV E3-17-E
E3-04-E

① HVAC DEMOLITION PLAN
1/8" = 1'-0"

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LEE'S SUMMIT MO 64086

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MD101

HVAC DEMOLITION PLAN

BRADLEY E. CHAMBON
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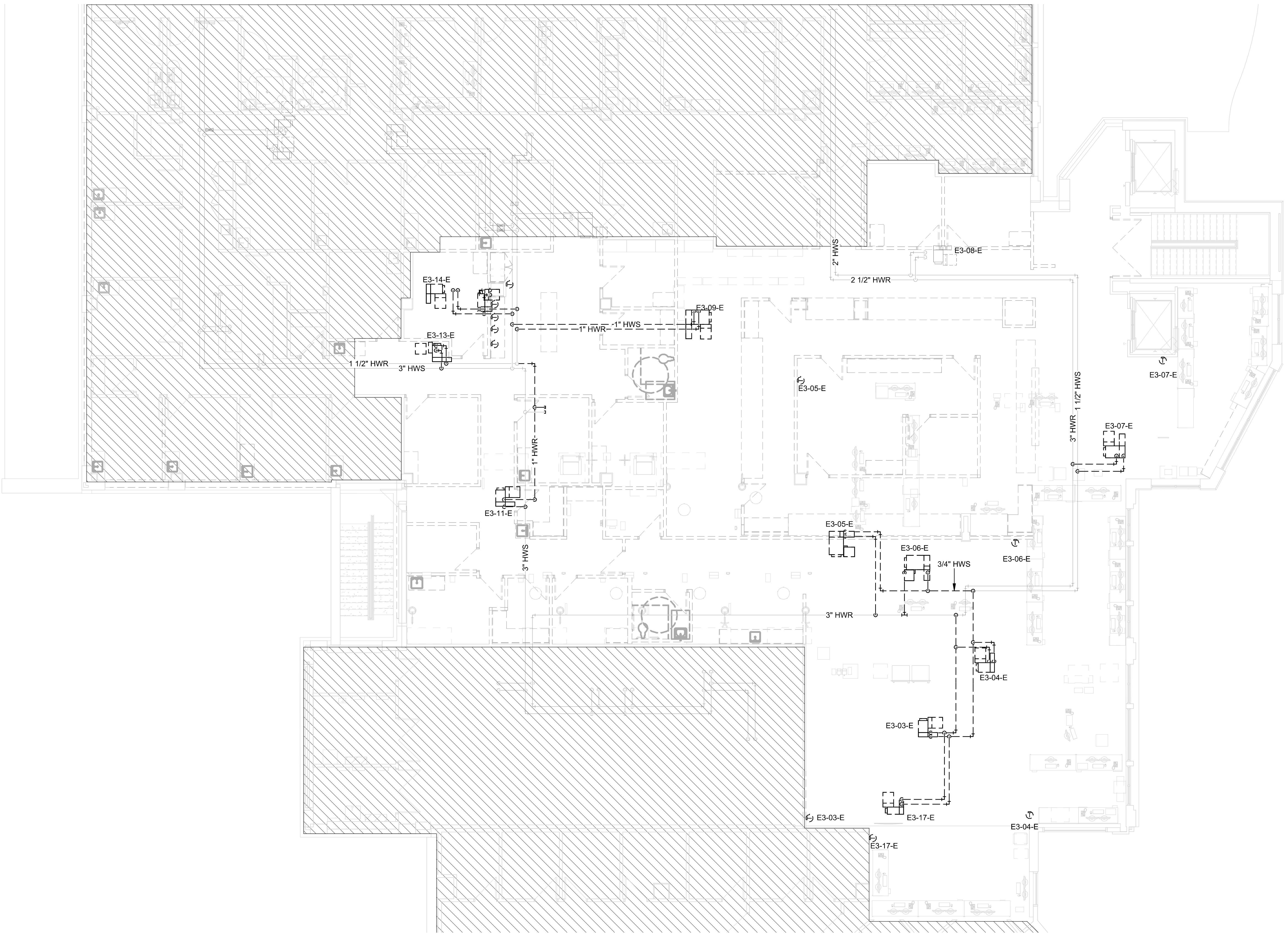
MECHANICAL DEMOLITION PLAN NOTES:


E3-14-E
E3-13-E
E3-09-E
E3-08-E
E3-11-E
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E3-05-E
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E3-06-E
E3-07-E
E3-07-E
E3-04-E
E3-04-E
E3-03-E
E3-03-E
E3-17-E
E3-17-E
2" HWS
2 1/2" HWR
1" HWR
1" HWS
1 1/2" HWR
3" HWS
1" HWR
3" HWS
1 1/2" HWS
3" HWR
3/4" HWS
3" HWR

① PIPING DEMOLITION PLAN
1/8" = 1'-0"

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MD201

PIPING DEMOLITION PLAN

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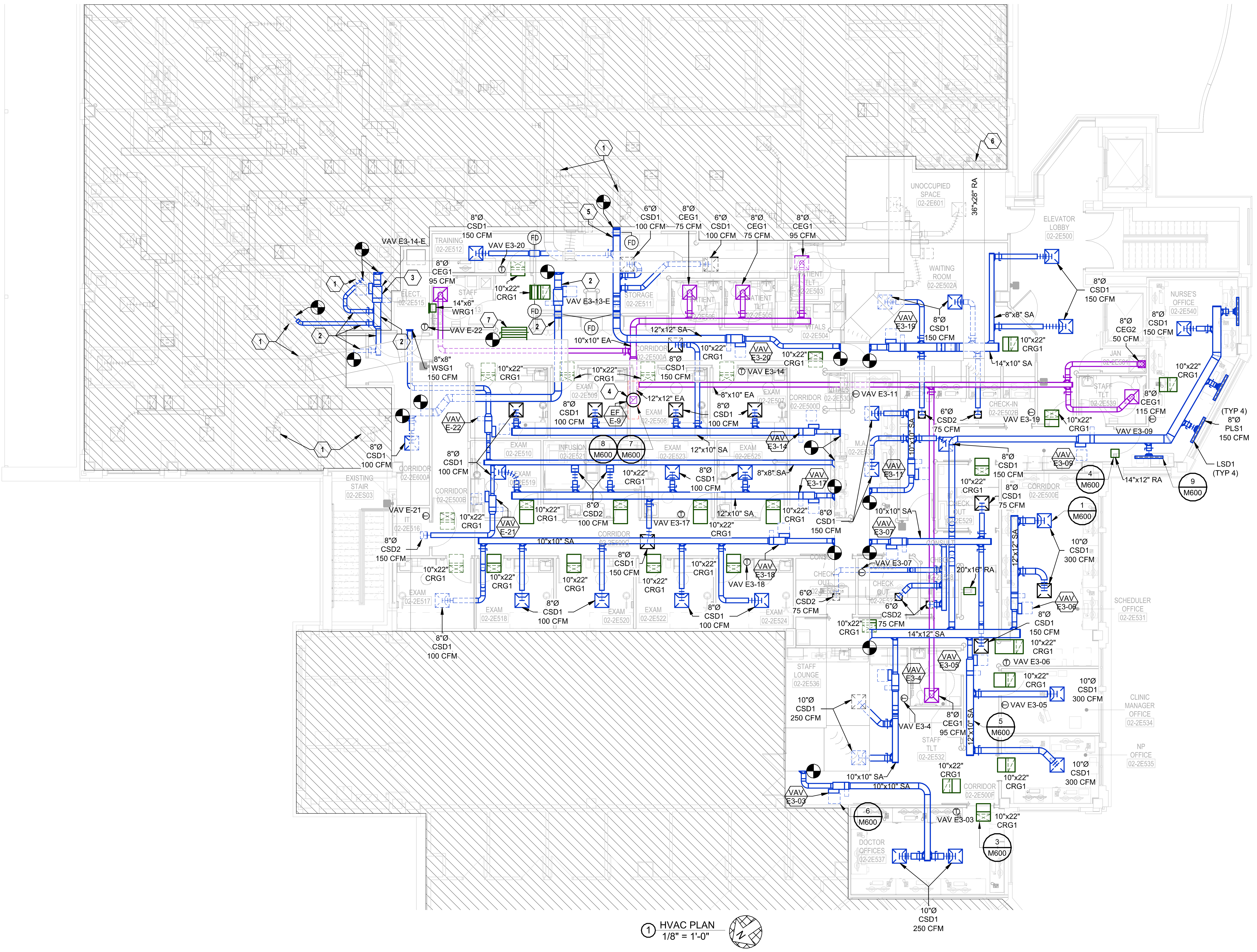
MECHANICAL PLAN NOTES:

1 REBALANCE TO CFM FROM AIRFLOW READINGS.
2 MATCH DUCT SIZE PRIOR TO DEMO.
3 REBALANCE VAV AS NEEDED FOR AIRFLOW CHANGES.
4 12X12 EXHAUST DUCT UP TO NEW FAN EF-E-9.
5 PROVIDE TRANSITIONS AS NEEDED TO CONNECT TO EXISTING.
6 UNCAP EXISTING RETURN.
7 PROVIDE NEW RETURN AIR OPENING.


1
5
6
8"Ø
CSD1
150 CFM
VAV E3-14-E
TRAINING
02-2E512
VAV E3-20
FD
8"Ø
CEG1
95 CFM
10"x22"
CRG1
6"Ø
CSD1
100 CFM
8"Ø
CEG1
75 CFM
6"Ø
CSD1
100 CFM
8"Ø
CEG1
75 CFM
8"Ø
CEG1
95 CFM
3
2
ELECT.
02-2E515
STAFF
14"x6"
WRG1
VAV E3-13-E
STORAGE
02-2E511
PATIENT
TLT
02-2E506
PATIENT
TLT
02-2E505
PATIENT
TLT
02-2E503
VITALS
02-2E504
7
VAV E-22
12"x12" SA
10"x10" EA
CORRIDOR
02-2E500A
10"x22"
CRG1
VAV
E3-20
8"x8"
WSG1
150 CFM
8"Ø
CSD1
150 CFM
VAV E3-14
EXAM
02-2E509
4
12"x12" EA
8"x10" EA
EXAM
02-2E507
CORRIDOR
02-2E500D
VITALS
02-2E530A
VAV E3-11
EF
E-9
EXAM
02-2E508
8"Ø
CSD1
100 CFM
VAV
E-22
EXAM
02-2E510
INFUSION
02-2E521
8
M600
7
M600
EXAM
02-2E523
12"x10" SA
EXAM
02-2E525
VAV
E3-14
M.A.
02-2E530
CORRIDOR
02-2E600A
EXISTING
STAIR
02-2ES03
CORRIDOR
02-2E500B
EXAM
02-2E519
8"x8" SA
VAV
E3-17
VAV E-21
IT
02-2E516
VAV
E-21
8"Ø
CSD2
100 CFM
VAV E3-17
8"Ø
CSD2
150 CFM
10"x10" SA
CORRIDOR
02-2E500C
VAV
E3-18
VAV E3-18
EXAM
02-2E517
EXAM
02-2E518
EXAM
02-2E520
EXAM
02-2E522
EXAM
02-2E524
UNOCCUPIED
SPACE
02-2E601
36"x28" RA
ELEVATOR
LOBBY
02-2E500
WAITING
ROOM
02-2E502A
VAV
E3-19
8"x8" SA
14"x10" SA
NURSE'S
OFFICE
02-2E540
8"Ø
CEG2
50 CFM
JAN
02-2E501
STAFF
TLT
02-2E539
8"Ø
CEG1
115 CFM
CHECK-IN
02-2E502B
VAV E3-19
6"Ø
CSD2
75 CFM
VAV E3-09
(TYP 4)
8"Ø
PLS1
150 CFM
LSD1
(TYP 4)
10"x10" SA
VAV
E3-11
VAV
E3-09
4
M600
14"x12" RA
9
M600
CORRIDOR
02-2E500E
CHECK
OUT
02-2E529
8"Ø
CSD1
75 CFM
1
M600
10"Ø
CSD1
300 CFM
VAV
E3-07
VAV E3-07
CONSULT
CHECK
OUT
02-2E526
02-2E527
02-2E528
20"x16" RA
12"x12" SA
VAV
E3-06
SCHEDULER
OFFICE
02-2E531
14"x12" SA
VAV E3-06
STAFF
LOUNGE
02-2E536
10"Ø
CSD1
250 CFM
VAV
E3-4
VAV
E3-05
VAV E3-4
8"Ø
CEG1
95 CFM
STAFF
TLT
02-2E532
VAV E3-05
5
M600
12"x10" SA
CLINIC
MANAGER
OFFICE
02-2E534
NP
OFFICE
02-2E535
CORRIDOR
02-2E500F
VAV
E3-03
6
M600
VAV E3-03
3
M600
DOCTOR
OFFICES
02-2E537
N

1 HVAC PLAN
1/8" = 1'-0"

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BRADLEY E. CHAMBON
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PROFESSIONAL ENGINEER

BEC

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HVAC PLAN

BRADLEY E. CHAMBON
Autodesk Docs://3-24100 SLE Summit GI/2450004866 SLEH - Summit GI Second Floor - Lees Summit MO MEP v24.rvt

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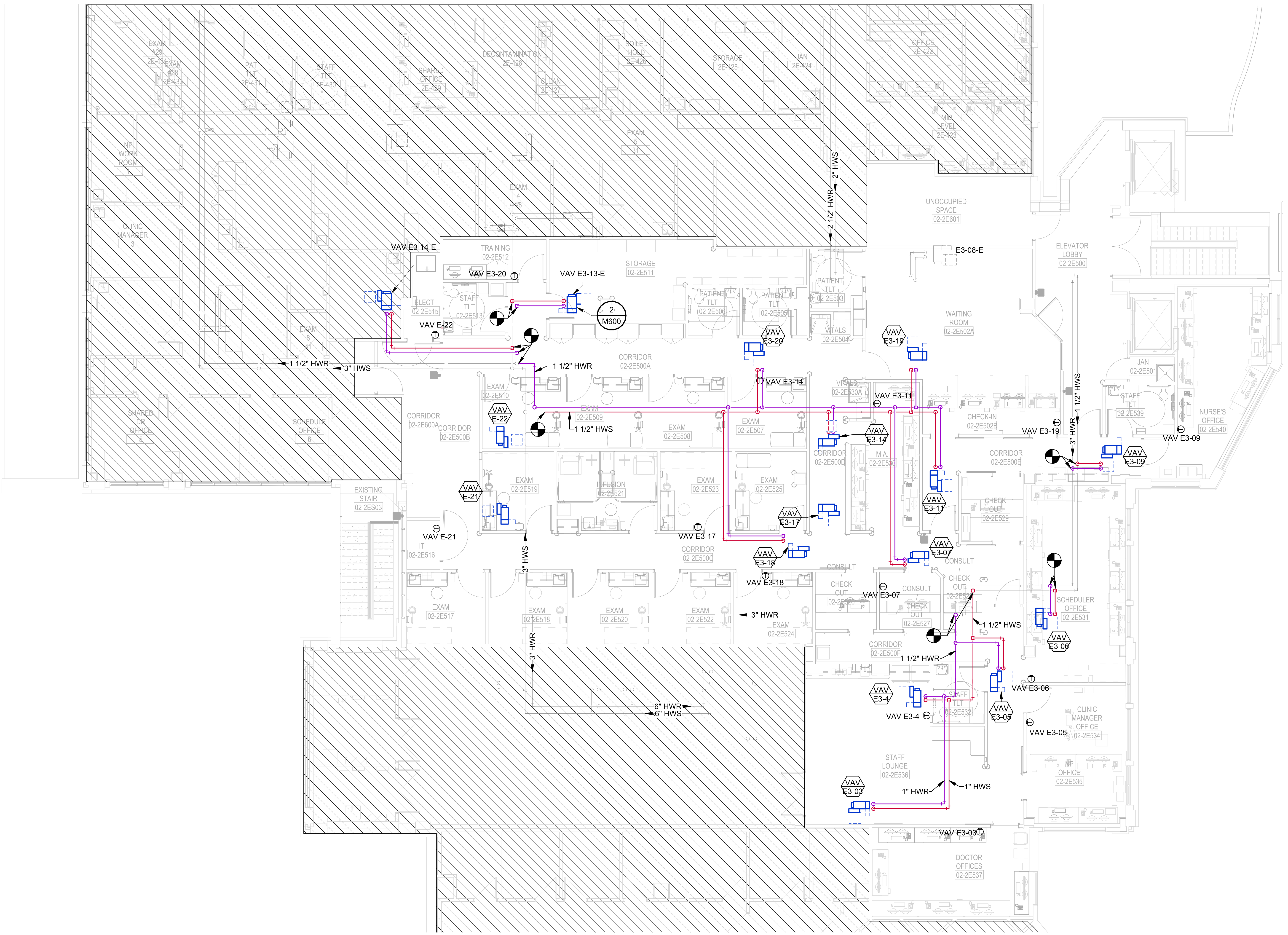
RELEASED FOR CONSTRUCTION
~~As Noted on Plans Review~~
Development Services Department
Lee's Summit, Missouri
04/17/2025

⬡ MECHANICAL PLAN NOTES:


VAV E3-14-E
VAV E3-20
VAV E3-13-E
2
M600
VAV E-22
1 1/2" HWR
3" HWS
1 1/2" HWR
1 1/2" HWS
TRAINING 02-2E512
STORAGE 02-2E511
ELECT. 02-2E515
STAFF TLT 02-2E513
PATIENT TLT 02-2E506
PATIENT TLT 02-2E505
PATIENT TLT 02-2E503
VITALS 02-2E504
2 1/2" HWR
2" HWS
UNOCCUPIED SPACE 02-2E601
E3-08-E
ELEVATOR LOBBY 02-2E500
WAITING ROOM 02-2E502A
VAV E3-20
VAV E3-19
VAV E3-14
VAV E3-11
VITALS 02-2E530A
CORRIDOR 02-2E500A
CORRIDOR 02-2E600A
CORRIDOR 02-2E500B
SCHEDULE OFFICE
EXAM 02-2E510
EXAM 02-2E509
EXAM 02-2E508
EXAM 02-2E507
VAV E-22
CHECK-IN 02-2E502B
JAN 02-2E501
STAFF TLT 02-2E539
NURSE'S OFFICE 02-2E540
1 1/2" HWS
3" HWR
VAV E3-19
VAV E3-09
VAV E3-14
CORRIDOR 02-2E500D
M.A. 02-2E530
CORRIDOR 02-2E500E
VAV E3-09
VAV E-21
EXISTING STAIR 02-2ES03
EXAM 02-2E519
INFUSION 02-2E521
EXAM 02-2E523
EXAM 02-2E525
VAV E3-17
VAV E3-11
CHECK OUT 02-2E529
VAV E3-07
VAV E-21
IT 02-2E516
VAV E3-17
CORRIDOR 02-2E500C
VAV E3-18
3" HWS
VAV E3-18
CONSULT
CHECK OUT 02-2E526
VAV E3-07
CONSULT
CHECK OUT 02-2E527
CONSULT
CHECK OUT 02-2E528
SCHEDULER OFFICE 02-2E531
EXAM 02-2E517
EXAM 02-2E518
EXAM 02-2E520
EXAM 02-2E522
3" HWR
EXAM 02-2E524
1 1/2" HWS
CORRIDOR 02-2E500F
1 1/2" HWR
VAV E3-06
3" HWR
VAV E3-06
6" HWR
6" HWS
VAV E3-4
VAV E3-4
STAFF TLT 02-2E532
VAV E3-05
VAV E3-05
CLINIC MANAGER OFFICE 02-2E534
STAFF LOUNGE 02-2E536
NP OFFICE 02-2E535
VAV E3-03
1" HWR
1" HWS
VAV E3-03
DOCTOR OFFICES 02-2E537

① PIPING PLAN
1/8" = 1'-0"

04/07/2025
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LICENSE # 028603

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EXPIRES 10/31/2025

SUMMIT GI ADDITION
SAINT LUKE'S EAST
100 NE SAINT LUKE'S BLVD.
LEE'S SUMMIT MO 64086

Date	04/07/25
Job Number	3-24100
Drawn By	JI
Checked By	BC

Revision

Number	Date	Description

M201

PIPING PLAN

BRADLEY E. CHAMBON
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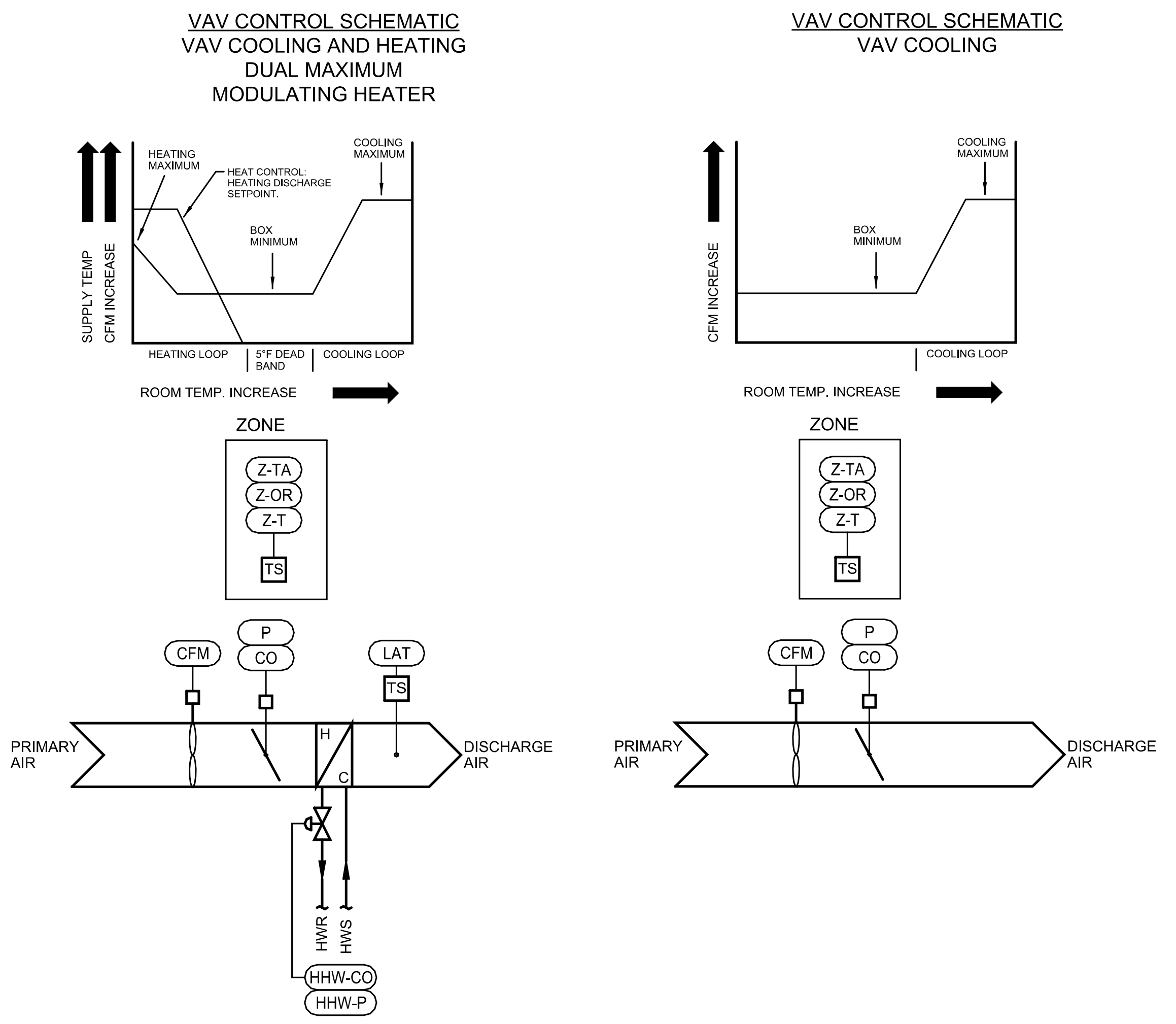


1 TERMINAL UNIT WITH AND WITHOUT REHEAT CONTROL DIAGRAM

NOT TO SCALE

SEQUENCE OF OPERATIONS
SINGLE DUCT WITH HYDRONIC HEAT

This sequence of operations is organized into the following main categories: operating modes, control setpoint resets, safeties, overrides and interlocks, and component control loops. The operating modes describe the criteria that either enable or disable the various modes of operation. If a mode of operation is not listed within a component control loop section then that mode of operation has no direct influence on the operation of the component. The control setpoint reset section describes the logic and reference variables that will be used to reset control setpoints to a new value within its reset range. The safeties, overrides, and interlocks section outlines the hardwired interlocks that are required to meet life safety requirements. Safeties and interlocks take precedence over all other control strategies outlined in this document. The control responses of each component for the various modes of operation are described in the component control loop sections. Setpoints shall be adjustable (adj.) as noted.

The sequence of operations, the points list and control diagrams shall be used to provide a complete description of the control philosophy for the controlled equipment. Individual setpoint values, reset ranges, and alarm action levels are listed in the points list. Components and control sensor locations are graphically depicted on the control diagram.

GENERAL DESCRIPTION

The air terminal units described by this sequence consist of single duct VAV or CAV unit with or without hydronic heat.

OPERATING MODES

OCCUPIED MODE:

The unit shall be in occupied mode per the owner's schedule.

COOLING MODE:

The unit shall be in cooling mode when the zone temperature (Z-T) rises above the dead band (Z-T-DB).

HEATING MODE (HEATING BOXES ONLY):

The unit shall be in heating mode when the zone temperature (Z-T) falls below the dead band (Z-T-DB).

SAFETIES, OVERRIDES AND INTERLOCKS

MANUAL TEMPERATURE SETPOINT OVERRIDE:

The zone temperature setpoint shall be reset based on occupant manual temperature setpoint adjustment (Z-TA).

COMPONENT CONTROL LOOPS

PRIMARY AIR DAMPER - DUAL MAXIMUM

When in Cooling Mode:

The unit shall modulate the primary air damper between the maximum airflow setpoint and minimum airflow setpoint as required to maintain zone temperature setpoint. An increase in room temperature causes airflow to increase.

When in Heating Mode:

The unit shall remain at the box minimum airflow setpoint while heating coil operates as described in the Heating Coil component control loop.
After the unit discharge temperature (LAT) has reached its maximum value, the primary air damper shall be allowed to modulate between the heating maximum airflow setpoint and box minimum airflows setpoint as required to maintain space temperature. A decrease in room temperature causes airflow to increase.

HEATING COIL - HOT WATER VALVE - MODULATING WITH DUAL MAXIMUM

When in Cooling Mode:

The heating coil shall be closed.

When in Heating Mode:

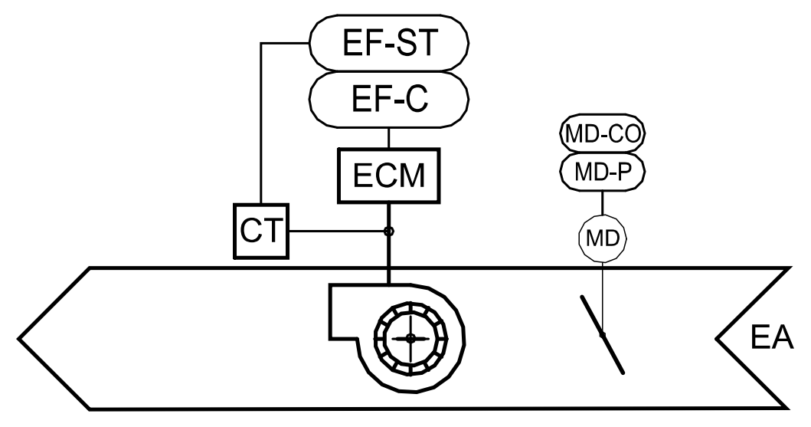
The heating coil control valve shall modulate as required to maintain zone temperature setpoint (Z-T) up to discharge temperature (LAT) maximum value.
Once the discharge temperature (LAT) has reached its maximum scheduled value the heating coil control valve shall modulate as required to maintain constant discharge temperature (LAT) at maximum scheduled value.
When the heating load decreases and the primary airflow (CFM) again reaches its scheduled minimum value, the discharge temperature (LAT) shall be permitted to modulate below its maximum value.

POINTS LIST - SINGLE DUCT VAV BOX

POINT ID	DESCRIPTION	POINT TYPE	SETPOINT	SETPOINT RESET RANGE	FAIL POSITION	TRENDING INTERVAL	TRENDING STORAGE	GRAPHIC DISPLAY	STATUS ALARM	ALARM RANGE	NOTES
ZONE LEVEL SENSORS											
Z-T	ZONE TEMPERATURE	AI	SCHED.				X	X			A, D
Z-OR	ZONE MANUAL OCCUPANCY OVERRIDE	BI					X	X			D
Z-TA	MANUAL TEMPERATURE SETPOINT ADJUST	AI	+/- 2 F				X	X			C, D
SINGLE DUCT BOX											
CFM	PRIMARY AIRFLOW	AI		SCHED.			X	X			
CFM-MAX	PRIMARY AIRFLOW SETPOINT	AV	SCHED.				X				D
CFM-MIN	MINIMUM PRIMARY AIRFLOW SETPOINT	AV	SCHED.				X				D
CFM-H-MAX	MAXIMUM HEATING AIRFLOW SETPOINT	AV	SCHED.				X				D
CFM-H-MIN	MINIMUM HEATING AIRFLOW SETPOINT	AV	SCHED.				X				D
CO	PRIMARY AIR DAMPER CONTROL OUTPUT	AO					X	X			
P	DAMPER POSITION	AI			FIP		X	X			
LAT	LEAVING AIR TEMPERATURE	AI					X	X			
TERMINAL HEATING COIL - HOT WATER MODULATING											
HHW-CO	HEATING HOT WATER VALVE CONTROL OUTPUT	AO			FIP		X	X			
HHW-P	HEATING HOT WATER VALVE POSITION (PERCENT)	AI					X	X	X	HHWV-P <> HHWV-CO	

ALL POINTS SHOWN SHALL BE PROVIDED BY BAS CONTRACTOR UNLESS NOTED OTHERWISE.
PROVIDE UNIQUE POINT NAME FOR EACH CONTROL POINT CONSISTENT WITH THE MARK IDENTIFIER ON THE EQUIPMENT SCHEDULE (E.G. RH01-D-C)
REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

NOTES:
A. REFERENCE GLOBAL BUILDING MONITORING SCHEDULE FOR CONTROL POINT.
B. DIVISION 26 SHALL PROVIDE SENSOR WITH DRY CONTACT FOR BAS INTERFACE.
C. REFERENCE OWNER'S SCHEDULE FOR SETPOINT.
D. POINT SHALL BE ADJUSTABLE.
E. DETERMINE SETPOINT DURING TESTING AND BALANCING. COORDINATE WITH THE TEST AND BALANCE CONTRACTOR.



2 EXHAUST FAN CONTROL DIAGRAM

NTS

SEQUENCE OF OPERATIONS
GENERAL EXHAUST FAN (EF-E-9)

OPERATING MODES

OCCUPIED MODE:

The fan shall be in occupied mode at all times.

SAFETIES, OVERRIDES AND INTERLOCKS

ISOLATION DAMPER INTERLOCK:

Interlock the motorized isolation damper with the associated fan. Prove damper position is open and include time delay prior to starting fan. Close damper after fan is commended OFF.

BUILDING SEISMIC VIBRATION INTERLOCK:

The fan shall shut down when commanded by the BAS during a seismic event. All equipment and accessories shall be in disabled mode.

COMPONENT CONTROL LOOPS

FAN CONTROL - CONSTANT VOLUME BAS SCHEDULED

When in Occupied Mode:

The fan shall be ON.

POINTS LIST - EXHAUST FANS

POINT ID	DESCRIPTION	POINT TYPE	DEFAULT SET POINT	SET POINT RESET RANGE	FAIL POSITION	ALARM STATUS	ALARM RANGE	NOTES
GENERAL EXHAUST FANS								
EF-C	FAN COMMAND (START/STOP)	BO						
EF-ST	FAN STATUS	BI				X	EF-ST <> EF-C	
DAMPER (MODULATING)								
MD-CO	DAMPER CONTROL OUTPUT	AO			NO			
MD-P	DAMPER POSITION	AI				X	ED-P <> ED-CO	

PROVIDE UNIQUE POINT NAME FOR EACH CONTROL POINT CONSISTENT WITH THE MARK IDENTIFER ON THE EQUIPMENT SCHEDULE (E.G. EF01-F-C).
REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
BAS CONTRACTOR SHALL PROVIDE POINT AND DEVICE UNLESS OTHERWISE NOTED.

NOTES:

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NUMBER PE-028603

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EXPIRES 10/31/2025

SUMMIT GI ADDITION
SAINT LUKE'S EAST
100 NE SAINT LUKE'S BLVD.
LEE'S SUMMIT MO 64086

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Job Number	3-24100
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Checked By	BC

Revision

Number	Date	Description

M300

MECHANICAL CONTROLS

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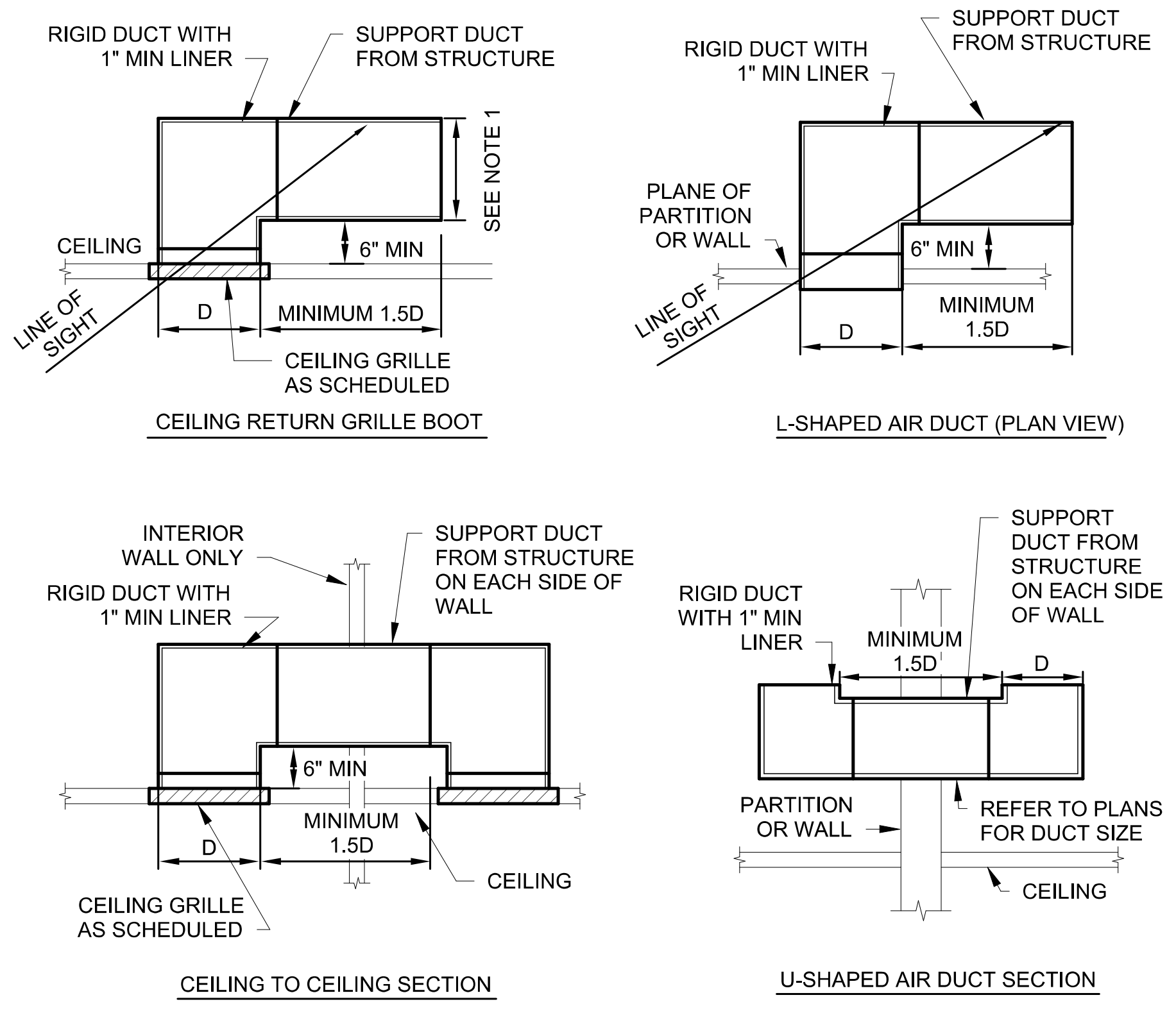
BRADLEY E. CHAMBON


RIGID DUCT WITH 1" MIN LINER
SUPPORT DUCT FROM STRUCTURE
SEE NOTE 1
CEILING
6" MIN
LINE OF SIGHT
D
MINIMUM 1.5D
CEILING GRILLE AS SCHEDULED
PLANE OF PARTITION OR WALL
INTERIOR WALL ONLY
SUPPORT DUCT FROM STRUCTURE ON EACH SIDE OF WALL
RIGID DUCT WITH 1" MIN LINER
SUPPORT DUCT FROM STRUCTURE ON EACH SIDE OF WALL
PARTITION OR WALL
REFER TO PLANS FOR DUCT SIZE

CEILING RETURN GRILLE BOOT

L-SHAPED AIR DUCT (PLAN VIEW)

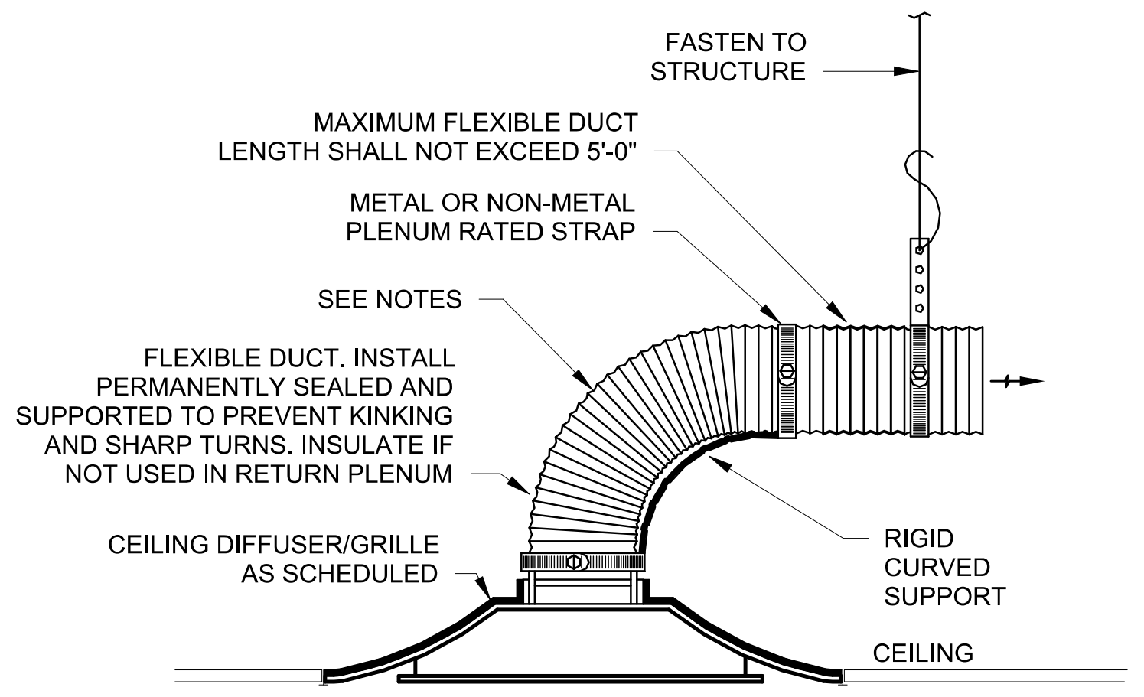
CEILING TO CEILING SECTION

U-SHAPED AIR DUCT SECTION

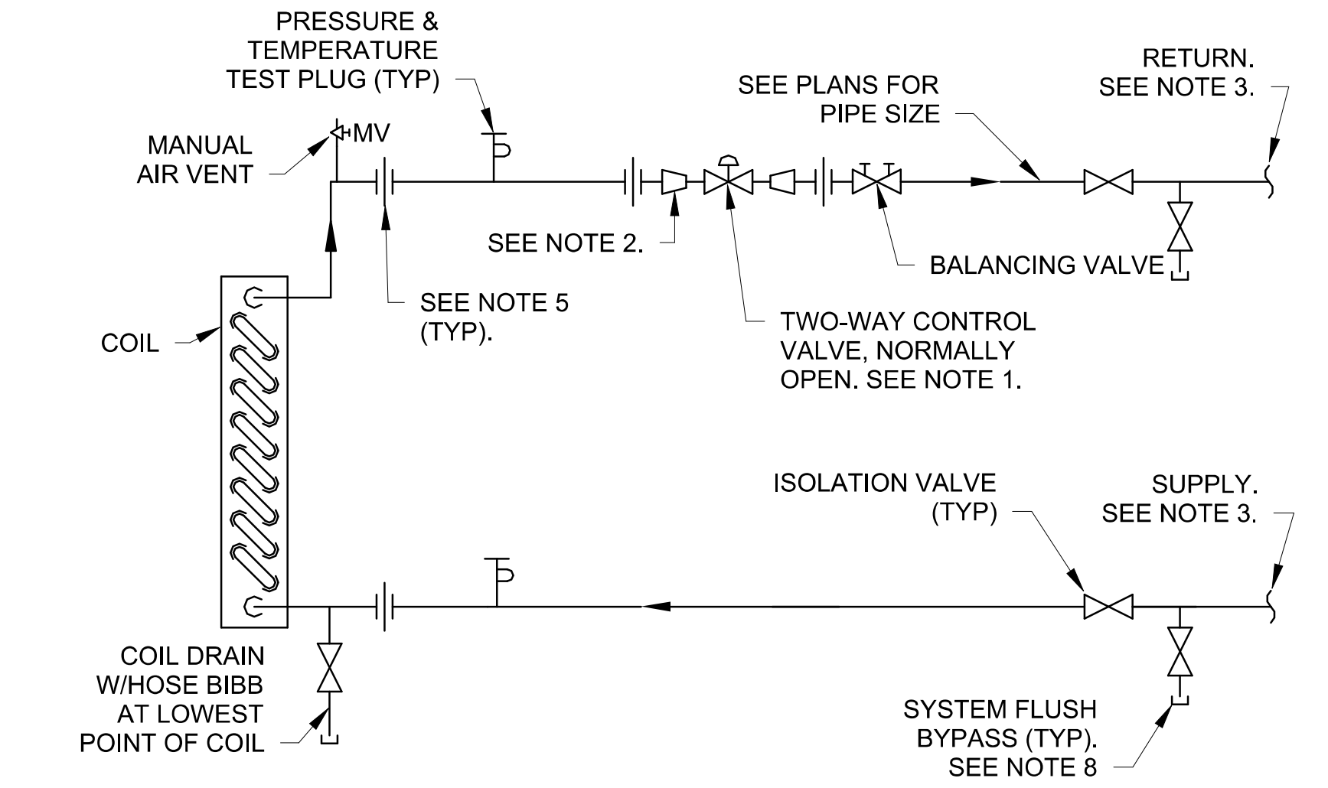
NOTES:

1. REFER TO FLOOR PLAN FOR OUTLET DEPTH. WHEN NO DEPTH IS SHOWN, MINIMUM DEPTH SHALL BE AS REQUIRED TO LIMIT AIR VELOCITY TO 500 FPM WITH A MINIMUM SIZE OF 0.5D.

④ RETURN TRANSFER AIR DUCT DETAILS
NTS

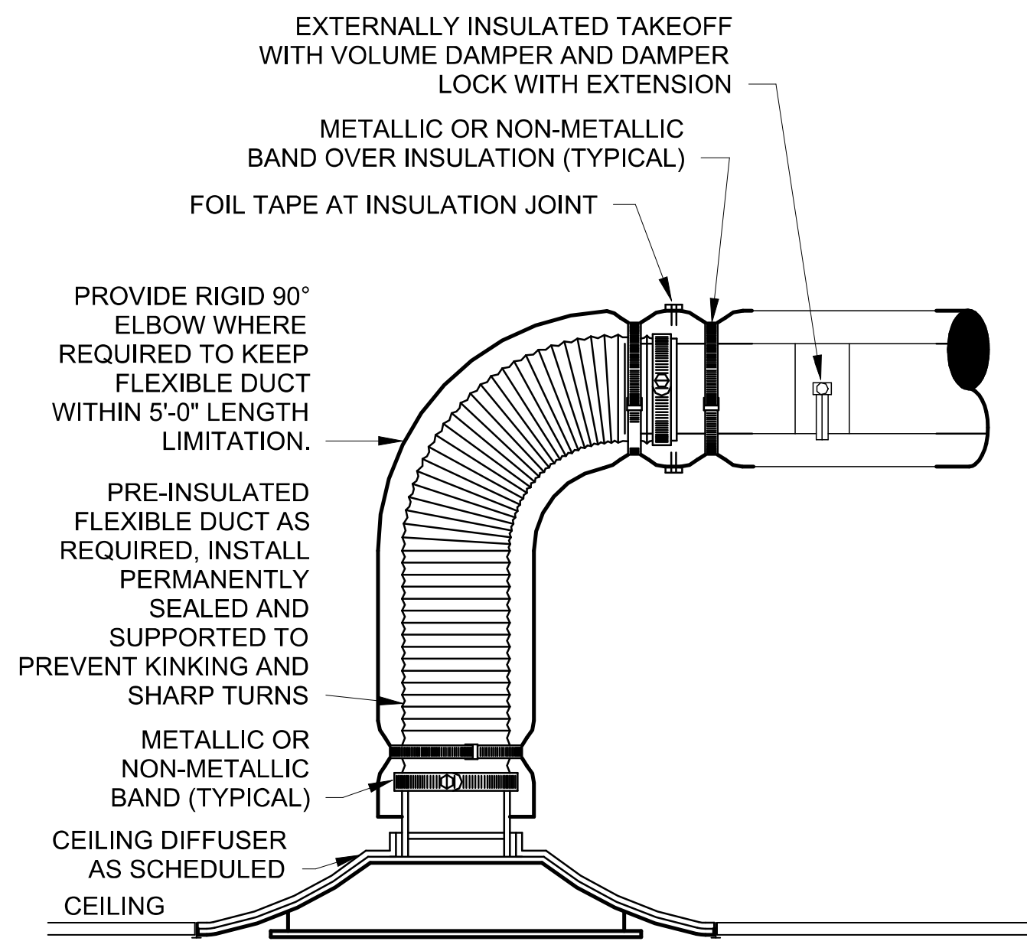

FASTEN TO STRUCTURE
MAXIMUM FLEXIBLE DUCT LENGTH SHALL NOT EXCEED 5'-0"
METAL OR NON-METAL PLENUM RATED STRAP
SEE NOTES
FLEXIBLE DUCT. INSTALL PERMANENTLY SEALED AND SUPPORTED TO PREVENT KINKING AND SHARP TURNS. INSULATE IF NOT USED IN RETURN PLENUM
CEILING DIFFUSER/GRILLE AS SCHEDULED
RIGID CURVED SUPPORT
CEILING

③ RETURN AIR BOOT DETAIL
NTS


PRESSURE & TEMPERATURE TEST PLUG (TYP)
MANUAL AIR VENT
MV
SEE PLANS FOR PIPE SIZE
RETURN. SEE NOTE 3.
SEE NOTE 2.
BALANCING VALVE
COIL
SEE NOTE 5 (TYP).
TWO-WAY CONTROL VALVE, NORMALLY OPEN. SEE NOTE 1.
ISOLATION VALVE (TYP)
SUPPLY. SEE NOTE 3.
COIL DRAIN W/HOSE BIBB AT LOWEST POINT OF COIL
SYSTEM FLUSH BYPASS (TYP). SEE NOTE 8

NOTES:
1. INSTALL CONTROL VALVE BETWEEN UNIONS OR FLANGES.
2. PROVIDE CONCENTRIC REDUCERS BOTH SIDES OF CONTROL VALVE AS REQUIRED.
3. WHEN TAPPED INTO TOP OF MAINS, AIR VENT REQUIRED.
4. ARRANGEMENT SHOWN FOR FULL FLOW THROUGH COIL ON FAILURE.
5. REPLACE UNION/FLANGE SET WITH FLEXIBLE PIPE CONNECTOR WHERE EQUIPMENT IS SUPPORTED OR SUSPENDED BY SPRING ISOLATORS.
6. PROVIDE WIDE-OPEN BALANCING VALVE ON THE RETURN SIDE OF HYDRONIC PIPING FOR FLOW VERIFICATION ONLY. DO NOT BALANCE.
7. PRE-ASSEMBLED HOSE KITS ARE ACCEPTABLE. ALL COMPONENTS SHALL BE INCLUDED AND ARRANGED AS SHOWN. ALL SIZES SHALL BE LINE SIZE EXCEPT CONTROL VALVE MAY BE REDUCED SIZE AS SELECTED BY MANUFACTURER. FLEXIBLE PIPE CONNECTORS SHALL NOT EXCEED 24 INCHES.
8. PROVIDE MEANS TO BYPASS COIL CIRCUIT FOR FLUSHING. PROVIDE DEDICATED BYPASS VALVES, FLEXIBLE HOSE, OR PERMANENT BYPASS LINE WITH SHUTOFF VALVE.

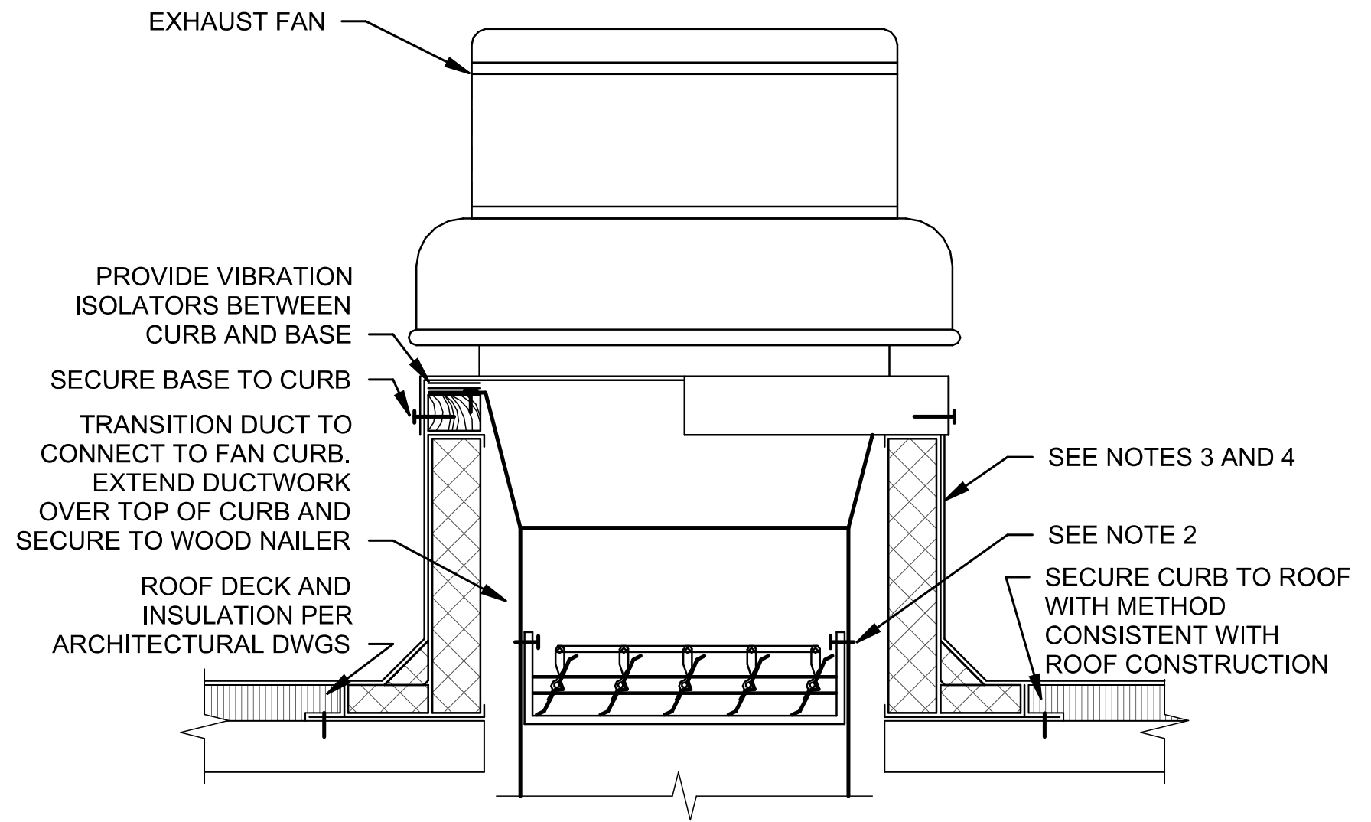
② 2-WAY HYDRONIC COIL PIPING DETAIL
NTS


EXTERNALLY INSULATED TAKEOFF WITH VOLUME DAMPER AND DAMPER LOCK WITH EXTENSION
METALLIC OR NON-METALLIC BAND OVER INSULATION (TYPICAL)
FOIL TAPE AT INSULATION JOINT
PROVIDE RIGID 90° ELBOW WHERE REQUIRED TO KEEP FLEXIBLE DUCT WITHIN 5'-0" LENGTH LIMITATION.
PRE-INSULATED FLEXIBLE DUCT AS REQUIRED, INSTALL PERMANENTLY SEALED AND SUPPORTED TO PREVENT KINKING AND SHARP TURNS
METALLIC OR NON-METALLIC BAND (TYPICAL)
CEILING DIFFUSER AS SCHEDULED
CEILING

NOTES:

1. FLEXIBLE DUCT LENGTH MAY NOT EXCEED 5'-0". EXTEND RIGID DUCT AS REQUIRED.
2. REFER TO SPECIFICATIONS FOR FLEXIBLE DUCTWORK INSTALLATION REQUIREMENTS.

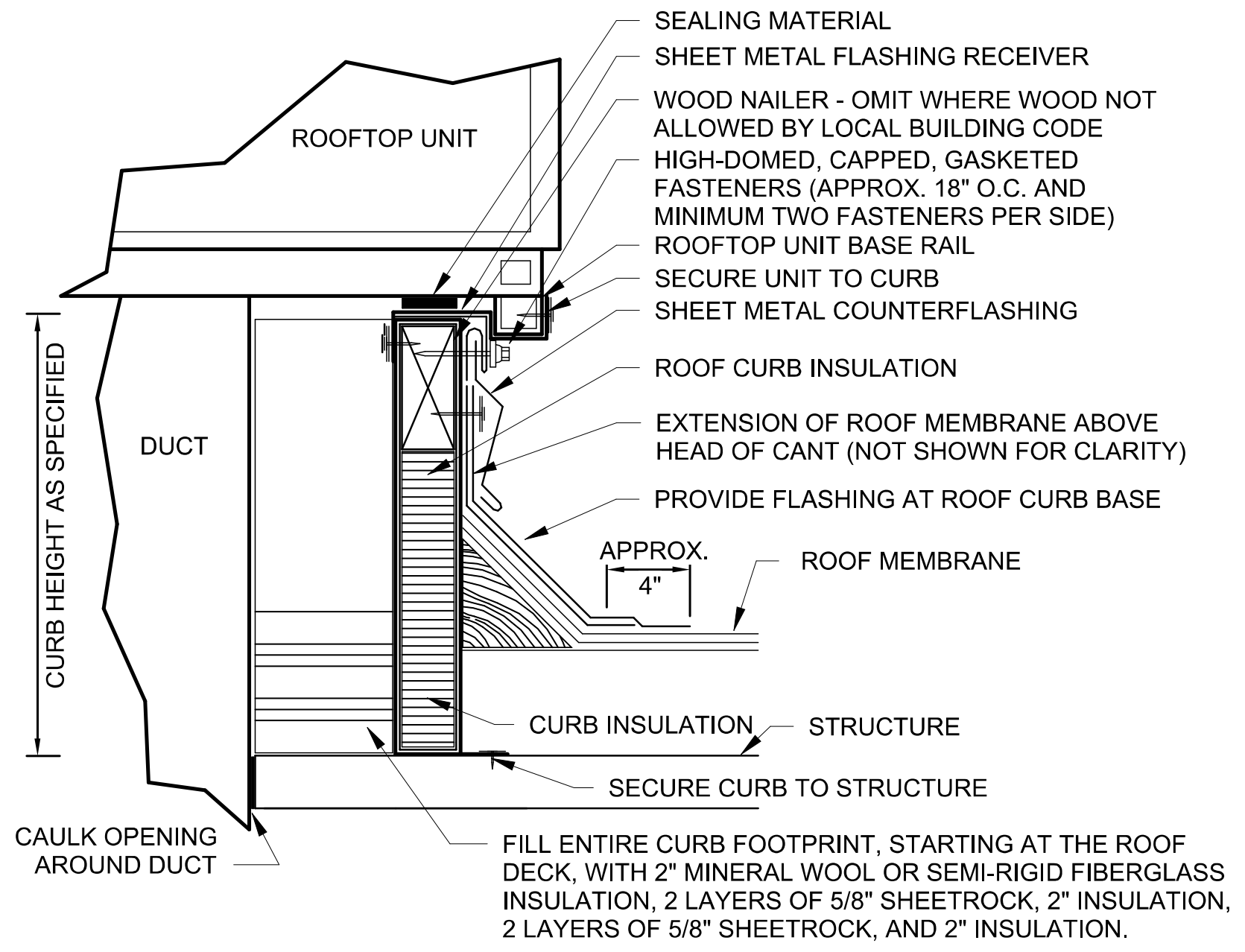
① CEILING DIFFUSER DETAIL
NTS


EXHAUST FAN
PROVIDE VIBRATION ISOLATORS BETWEEN CURB AND BASE
SECURE BASE TO CURB
TRANSITION DUCT TO CONNECT TO FAN CURB. EXTEND DUCTWORK OVER TOP OF CURB AND SECURE TO WOOD NAILER
ROOF DECK AND INSULATION PER ARCHITECTURAL DWGS
SEE NOTES 3 AND 4
SEE NOTE 2
SECURE CURB TO ROOF WITH METHOD CONSISTENT WITH ROOF CONSTRUCTION

NOTES:
1. ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS AND MEET LOCAL CODE.
2. IF DAMPER IS SPECIFIED IN EQUIPMENT SCHEDULE, INSTALL DAMPER AT BASE OF CURB AND SECURE FROM ABOVE TO ALLOW SERVICE THROUGH TOP OF CURB.
3. PREFABRICATED INSULATED ROOF CURB WITH TREATED WOOD NAILER, CANT, AND STEP AS REQUIRED TO ACCOMMODATE ROOF INSULATION. FRAME AND SECURE CURB TO ROOF WITH METHOD CONSISTENT WITH ROOF CONSTRUCTION. ROOF CURB SHALL BEAR ON ROOF STRUCTURE. REFER TO ARCHITECTURAL DRAWINGS AND CURB MANUFACTURER'S DETAILS FOR MORE INFORMATION.
4. FOR SLOPED ROOFS, PROVIDE CURB WITH DIMENSIONS CAPABLE OF COMPENSATING ROOF SLOPE TO ENSURE FAN IS INSTALLED LEVEL.

HIGH WIND STRAPPING: PROVIDE STAINLESS STEEL STRAPS OF LENGTH, WIDTH, THICKNESS, AND SPACING SUFFICIENT TO SECURE FAN TO CURB TO WITHSTAND WIND SPEED REQUIREMENTS PER LOCAL CODE. WRAP STRAPS OVER FAN AND SECURELY ATTACH TO OPPOSITE SIDE OF THE CURB.

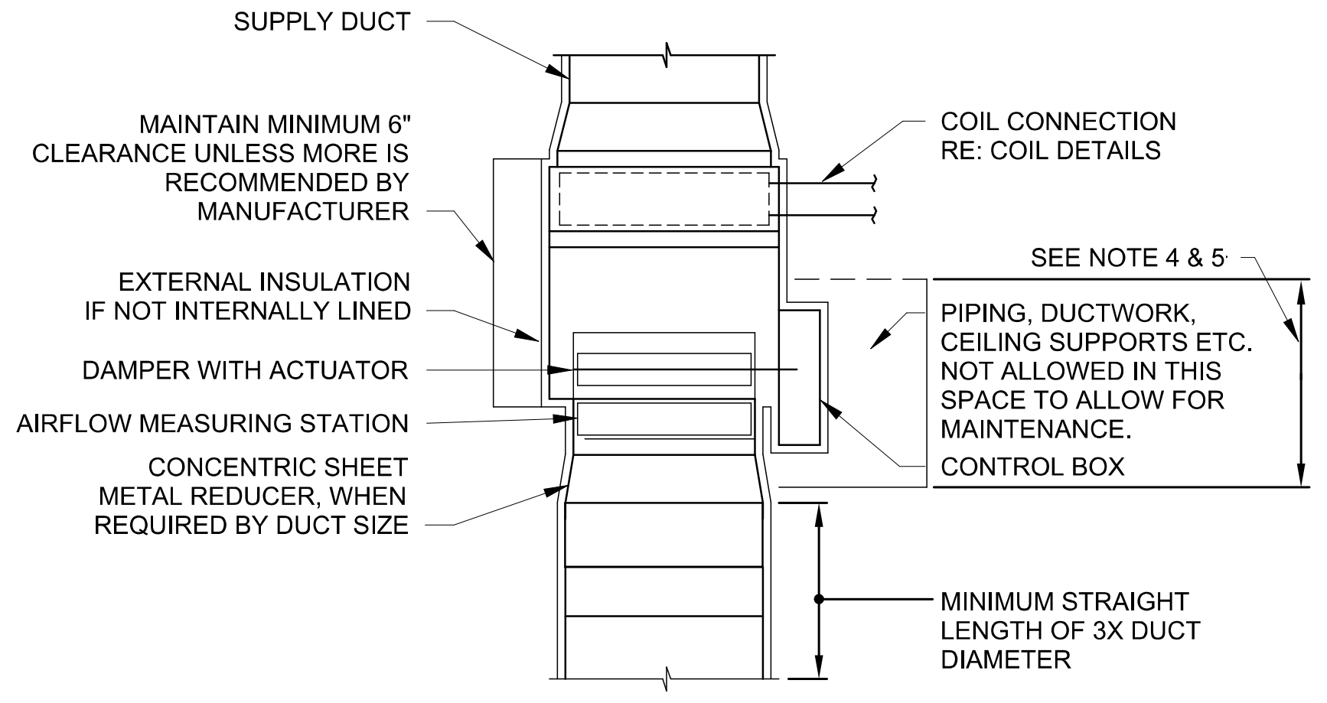
⑧ ROOF MOUNTED DOWNBLAST FAN DETAIL
NTS


ROOFTOP UNIT
SEALING MATERIAL
SHEET METAL FLASHING RECEIVER
WOOD NAILER - OMIT WHERE WOOD NOT ALLOWED BY LOCAL BUILDING CODE
HIGH-DOMED, CAPPED, GASKETED FASTENERS (APPROX. 18" O.C. AND MINIMUM TWO FASTENERS PER SIDE)
ROOFTOP UNIT BASE RAIL
SECURE UNIT TO CURB
SHEET METAL COUNTERFLASHING
ROOF CURB INSULATION
EXTENSION OF ROOF MEMBRANE ABOVE HEAD OF CANT (NOT SHOWN FOR CLARITY)
PROVIDE FLASHING AT ROOF CURB BASE
APPROX. 4"
ROOF MEMBRANE
DUCT
CURB HEIGHT AS SPECIFIED
CURB INSULATION
STRUCTURE
SECURE CURB TO STRUCTURE
CAULK OPENING AROUND DUCT
FILL ENTIRE CURB FOOTPRINT, STARTING AT THE ROOF DECK, WITH 2" MINERAL WOOL OR SEMI-RIGID FIBERGLASS INSULATION, 2 LAYERS OF 5/8" SHEETROCK, 2" INSULATION, 2 LAYERS OF 5/8" SHEETROCK, AND 2" INSULATION.

NOTES:

1. CUT METAL DECKING TO ALLOW CURB INSTALLATION ON STEEL FRAMING. AFTER CURB IS SET IN PLACE, TRIM REMAINING METAL DECKING AND INSTALL WITHIN CURB. TACK WELD DECKING TO SUPPORT STEEL. DO NOT WELD INTERIOR DECKING TO ROOF CURB. PROVIDE ADDITIONAL CROSS FRAMING TO SUPPORT INTERIOR DECKING AND FILL MATERIAL AS REQUIRED.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR ROOF CURBS, ANCHORING AND SEISMIC/WIND RESISTANCE.

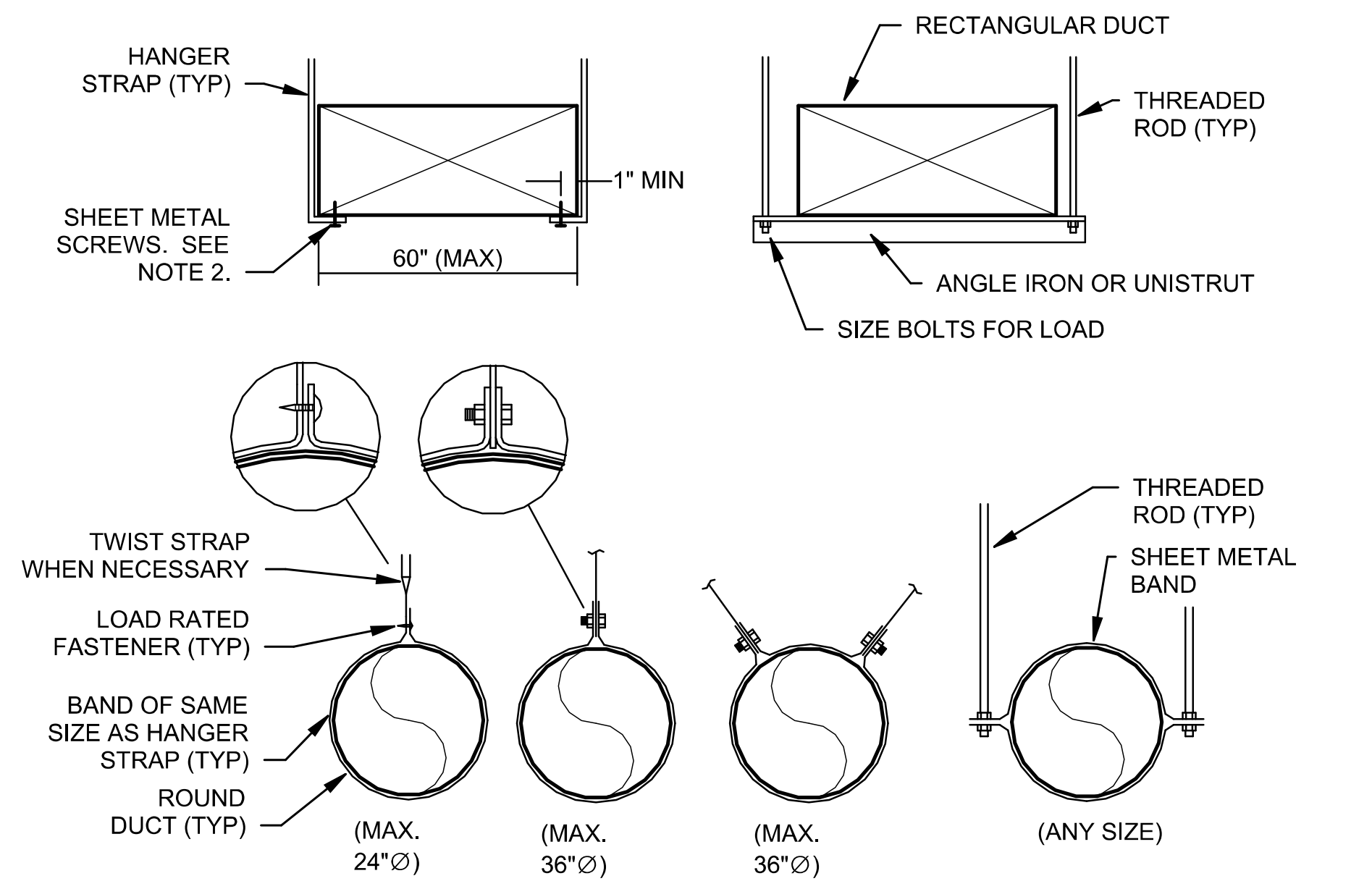
⑦ ROOF CURB DETAIL
NTS


SUPPLY DUCT
MAINTAIN MINIMUM 6" CLEARANCE UNLESS MORE IS RECOMMENDED BY MANUFACTURER
EXTERNAL INSULATION IF NOT INTERNALLY LINED
DAMPER WITH ACTUATOR
AIRFLOW MEASURING STATION
CONCENTRIC SHEET METAL REDUCER, WHEN REQUIRED BY DUCT SIZE
COIL CONNECTION RE: COIL DETAILS
SEE NOTE 4 & 5
PIPING, DUCTWORK, CEILING SUPPORTS ETC. NOT ALLOWED IN THIS SPACE TO ALLOW FOR MAINTENANCE.
CONTROL BOX
MINIMUM STRAIGHT LENGTH OF 3X DUCT DIAMETER

NOTES:
1. ARRANGEMENT SHOWN IS SCHEMATIC, ADJUST TO SUIT FIELD CONDITIONS AND MEET LOCAL CODE REQUIREMENTS.
2. SUPPORT TERMINAL UNIT AT BOTH ENDS WITH MINIMUM 2 INCH WIDE GALVANIZED 22 GA. HANGER STRAPS.
3. INSTALL TERMINAL UNIT NOT MORE THAN 3 FEET ABOVE CEILING FOR MAINTENANCE ACCESS.
4. THE GREATER OF A 30" MINIMUM CLEARANCE WIDTH OR THE TOTAL WIDTH OF THE HEATING COIL CONTROLS ENCLOSURE (IF SCHEDULED) AND BOX CONTROLLER/ACTUATOR IS REQUIRED.
5. ALL ACCESS DOORS MUST BE ABLE TO OPEN A MINIMUM OF 90 DEGREES.

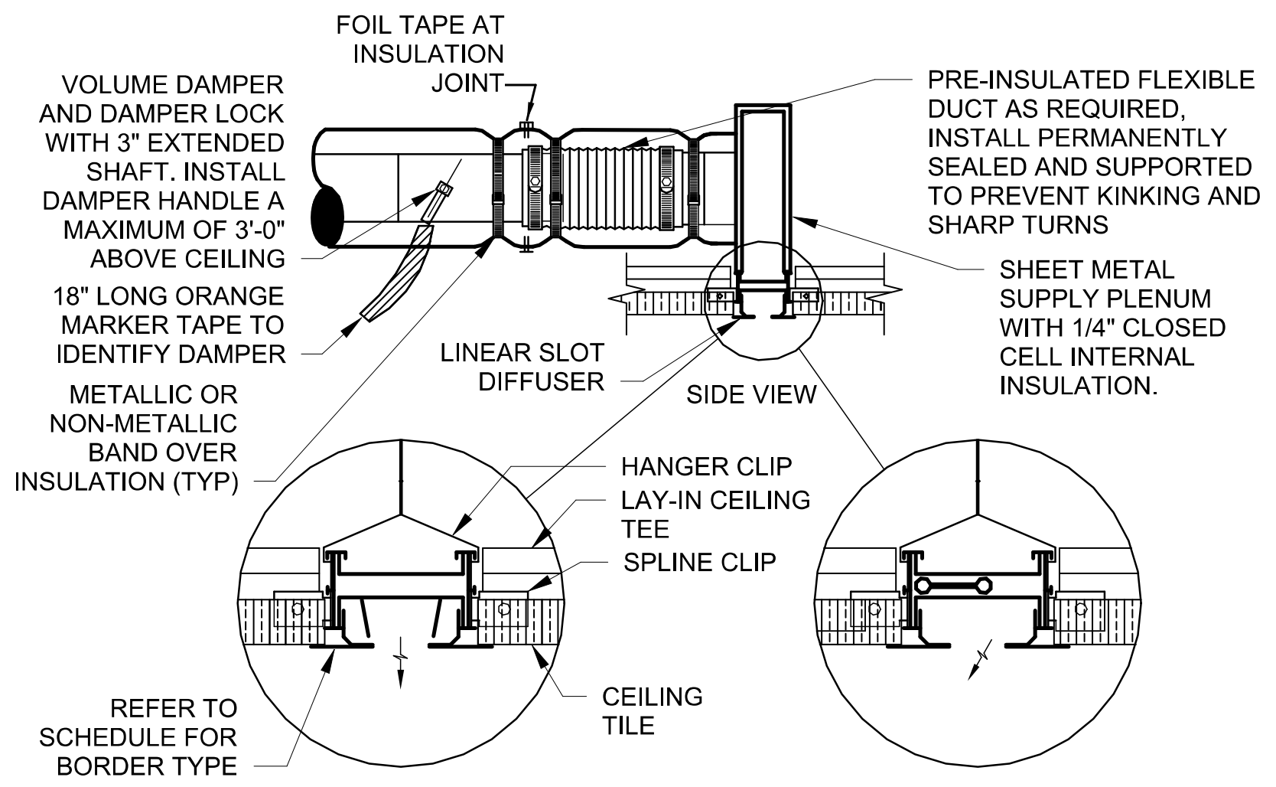
ELECTRIC HEATING COIL NOTES:
1. REFER TO ELECTRICAL CODE TO DETERMINE EXACT CLEARANCE DEPTH REQUIRED BASED ON FIELD CONDITIONS. THE CLEARANCE SHALL NOT BE LESS THAN 36".

⑥ SINGLE DUCT TERMINAL UNIT DETAIL
NTS


HANGER STRAP (TYP)
SHEET METAL SCREWS. SEE NOTE 2.
60" (MAX)
1" MIN
RECTANGULAR DUCT
THREADED ROD (TYP)
ANGLE IRON OR UNISTRUT
SIZE BOLTS FOR LOAD
TWIST STRAP WHEN NECESSARY
LOAD RATED FASTENER (TYP)
BAND OF SAME SIZE AS HANGER STRAP (TYP)
ROUND DUCT (TYP)
(MAX. 24"Ø)
(MAX. 36"Ø)
(MAX. 36"Ø)
THREADED ROD (TYP)
SHEET METAL BAND
(ANY SIZE)

NOTES:
1. USE THREADED ROD FOR RECTANGULAR DUCTS LARGER THAN 60" WIDE.
2. OMIT SHEET METAL SCREWS IF HANGER STRAP IS CONTINUOUS AND LOOPS UNDER ENTIRE RECTANGULAR DUCT.
3. FOR ROUND DUCTS LARGER THAN 36" Ø. USE TWO HANGER RODS TO SUPPORT DUCT FROM EACH
4. HANGERS MUST NOT DEFORM DUCT SHAPE.

⑤ DUCT HANGER LOWER ATTACHMENT DETAILS
NTS


FOIL TAPE AT INSULATION JOINT
VOLUME DAMPER AND DAMPER LOCK WITH 3" EXTENDED SHAFT. INSTALL DAMPER HANDLE A MAXIMUM OF 3'-0" ABOVE CEILING
18" LONG ORANGE MARKER TAPE TO IDENTIFY DAMPER
METALLIC OR NON-METALLIC BAND OVER INSULATION (TYP)
LINEAR SLOT DIFFUSER
SIDE VIEW
PRE-INSULATED FLEXIBLE DUCT AS REQUIRED, INSTALL PERMANENTLY SEALED AND SUPPORTED TO PREVENT KINKING AND SHARP TURNS
SHEET METAL SUPPLY PLENUM WITH 1/4" CLOSED CELL INTERNAL INSULATION.
HANGER CLIP
LAY-IN CEILING TEE
SPLINE CLIP
REFER TO SCHEDULE FOR BORDER TYPE
CEILING TILE

JET THROW

HIGH THROW

NOTES:

1. EXTEND HARD METAL DUCT SO THAT MAXIMUM FLEXIBLE DUCT LENGTH DOES NOT EXCEED 5'-0". PROVIDE RIGID 90° ELBOW WHERE REQUIRED TO KEEP FLEXIBLE DUCT WITHIN 5'-0" LENGTH LIMITATION.
2. COORDINATE EXACT LENGTH AND LOCATION OF SLOT DIFFUSER WITH ARCHITECT'S REFLECTED CEILING PLAN.
3. REFER TO DIFFUSER MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EACH SCHEDULED BORDER TYPE.
4. REFER TO SPECIFICATIONS FOR FLEXIBLE DUCTWORK INSTALLATION REQUIREMENTS.

⑨ LINEAR SLOT DIFFUSER IN LAY-IN CEILING DETAIL
NTS

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
04/17/2025

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04/07/2025
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SUMMIT GI ADDITION
SAINT LUKE'S EAST
100 NE SAINT LUKE'S BLVD.
LEE'S SUMMIT MO 64086

Date	04/07/25
Job Number	3-24100
Drawn By	JI
Checked By	BC

Revision

Number	Date	Description

M600

MECHANICAL DETAILS

RELEASED FOR CONSTRUCTION
~~As Noted on Plans Review~~
Development Services Department
Lee's Summit, Missouri
04/17/2025

GRILLE, REGISTER AND DIFFUSER SCHEDULE

MARK	MANUFACTURER	SERVICE	MODEL	CONSTRUCTION TYPE	FACE TYPE	MOUNTING LOCATION	FACE SIZE (IN)	MAX NC	MAX PRESS DROP (IN W.C.)	NOTES
CSD1	TITUS	SUPPLY	OMNI	STEEL	PLAQUE	CEILING	24X24	25	0.1	A-C,F,H,I,J
CSD2	TITUS	SUPPLY	OMNI	STEEL	PLAQUE	CELING	12X12	25	0.1	A-C,F,H,I,J
LSD1	TITUS	SUPPLY	FL-10-HT	ALUMINUM	1" LINEAR SLOT	CELING	1" LINEAR SLOT	25	0.1	B,F-J
PLS1	TITUS	SUPPLY	FBPI-10	PLENUM	--	CONCEALED	48" LENGTH	25	--	F,H,K-M
WSG1	TITUS	SUPPLY	300RL	STEEL	LOUVERED DIFFUSER	WALL	SEE PLANS	25	0.1	B,E-G,I
CRG1	TITUS	RETURN	350RL	STEEL	LOUVERED GRILLE	CEILING	24X12	25	0.1	B-J
WRG1	TITUS	RETURN	350RL	STEEL	LOUVERED GRILLE	WALL	SEE PLANS	25	0.1	B-J
CEG1	TITUS	EXHAUST	PAR	STEEL	PERFORATED	CEILING	24X24	25	0.1	B,C,F,H-J
CEG2	TITUS	EXHAUST	PAR	STEEL	PERFORATED	CEILING	12X12	25	0.1	B,C,F,H-J

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

NOTES:

A. 4-WAY THROW PATTERN UNLESS OTHERWISE INDICATED BY FLOW ARROWS ON DRAWINGS.
B. NECK SIZE SHOWN ON DRAWINGS. PROVIDE BRANCH DUCT TO MATCH NECK SIZE UNLESS OTHERWISE SHOWN ON DRAWINGS.
C. BAKED ENAMEL FINISH, WHITE TO MATCH CEILING COLOR.
D. FRONT BLADES PARALLEL TO LONG DIMENSION.
E. DOUBLE DEFLECTION BARS SHALL BE ADJUSTABLE.
F. FRAME TYPE TO MATCH CEILING/WALL CONSTRUCTION, COORDINATE WITH ARCHITECTURAL REFLECTED CEILING/WALL PLAN.
G. PROVIDE OPPOSED BLADE DAMPER ADJUSTABLE FROM FACE OF DEVICE.
H. PROVIDE BORDER TYPE TO MATCH CEILING CONSTRUCTION WITH CONCEALED BORDER MOUNTING, AND INSULATED PLENUM BOX WITH NECK.
I. PROVIDE DIFFUSERS, LINEAR SLOTS, AND GRILLES WITH NO EXPOSED MOUNTING SCREWS.
J. PROVIDE WITH RAPID MOUNT FRAMING OPTION FOR LAY-IN TYPE DIFFUSERS INSTALLED IN A HARD CEILING.
K. PAINT ALL INTERIOR SURFACES SLOTS, GRILLES AND PLENUMS FLAT BLACK.
L. PROVIDE FULL LENGTH PLENUM PURCHASED FROM THE SLOT DIFFUSER MANUFACTURER. PROVIDE 1/4" INSULATION ON THE EXTERIOR OF THE SUPPLY PLENUM.
M. PLENUM MAY BE FIELD FABRICATED BASED ON PROVIDED DETAILS, OR PURCHASED FROM THE SLOT DIFFUSER MANUFACTURER. PROVIDE 1/4" CLOSED CELL INSULATION ON THE EXTERIOR OF THE SUPPLY PLENUM.

VAV TERMINAL SCHEDULE (COOLING ONLY)

MARK	MANUFACTURER	MODEL	INLET SIZE (IN)	PRIMARY CFM	MIN PRIM CFM	CP TRANS V/PH	CONTROL TYPE	NOTES
VAV E3-21	TITUS	DESV	6	150	150	277V / 1PH	CONSTANT VOLUME	ALL
VAV E3-22	TITUS	DESV	6	150	150	277V / 1PH	CONSTANT VOLUME	ALL

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

NOTES:
A. INSTALL FLEXIBLE DUCT CONNECTOR AT INLET CONNECTION.
B. PROVIDE INTEGRAL DISCONNECT SWITCH.
C. PROVIDE CONTROL POWER (CP) TRANSFORMER FACTORY INSTALLED. COORDINATE PRIMARY POWER WITH ELECTRICAL DRAWINGS.
D. BOX NOT TO EXCEED SCHEDULED DISCHARGE OR RADIATED SOUND NC LEVEL USING 0.5 INCH PRESSURE DROP.
E. PROVIDE FACTORY-INSTALLED, PRESSURE INDEPENDENT, DDC CONTROL PACKAGE.
G. PROVIDE BOX WITH EITHER RIGHT HAND OR LEFT HAND CONFIGURATION AS SHOWN ON DRAWINGS.
J. INLET SIZE SHOWN IS THE MINIMUM ALLOWABLE INLET SIZE. NO SMALLER SIZES SHALL BE ACCEPTED.

VARIABLE AIR VOLUME TERMINAL SCHEDULE (HYDRONIC HEAT)

MARK	MANUFACTURER	MODEL	INLET SIZE (IN)	PRIMARY CFM	MIN PRIM CFM	MIN HEAT CFM	MAX HEAT CFM	HEATING COIL						CP TRANS V/PH	CONTROL TYPE	NOTES
								EAT	LAT	MBH	EWT	GPM	ROW			
VAV E3-03	TITUS	DESV	8	500	200	200	350	55	85	11.3	180	1.1	2	277V / 1PH	DUAL MAX, SINGLE MIN	ALL
VAV E3-04	TITUS	DESV	8	500	200	200	350	55	85	11.3	180	1.1	2	277V / 1PH	DUAL MAX, SINGLE MIN	ALL
VAV E3-05	TITUS	DESV	8	600	240	240	420	55	85	13.6	180	1.4	2	277V / 1PH	DUAL MAX, SINGLE MIN	ALL
VAV E3-06	TITUS	DESV	8	600	240	240	420	55	85	13.6	180	1.4	2	277V / 1PH	DUAL MAX, SINGLE MIN	ALL
VAV E3-07	TITUS	DESV	8	450	180	180	315	55	85	10.2	180	1.0	2	277V / 1PH	DUAL MAX, SINGLE MIN	ALL
VAV E3-09	TITUS	DESV	10	750	300	300	525	55	85	17.0	180	1.7	2	277V / 1PH	DUAL MAX, SINGLE MIN	ALL
VAV E3-11	TITUS	DESV	8	450	90	90	160	55	85	10.2	180	1.0	2	277V / 1PH	DUAL MAX, SINGLE MIN	ALL
VAV E3-14	TITUS	DESV	8	550	220	220	385	55	85	12.5	180	1.2	2	277V / 1PH	DUAL MAX, SINGLE MIN	ALL
VAV E3-17	TITUS	DESV	8	650	260	260	455	55	85	14.7	180	1.5	2	277V / 1PH	DUAL MAX, SINGLE MIN	ALL
VAV E3-18	TITUS	DESV	8	500	85	85	350	55	85	11.3	180	1.1	2	277V / 1PH	DUAL MAX, SINGLE MIN	ALL
VAV E3-19	TITUS	DESV	10	750	90	90	90	55	85	17.0	180	1.7	2	277V / 1PH	DUAL MAX, SINGLE MIN	ALL
VAV E3-20	TITUS	DESV	10	800	320	320	560	55	85	18.1	180	1.8	2	277V / 1PH	DUAL MAX, SINGLE MIN	ALL

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

NOTES:
A. HEATING COIL CAPACITY BASED ON SCHEDULED ENTERING WATER TEMPERATURE. GPM IS BASED ON A DESIRED COIL DELTA T OF 20 F. ADJUST GPM TO REFLECT ACTUAL COIL SELECTION AND PERFORMANCE.
B. INSTALL FLEXIBLE DUCT CONNECTOR AT ALL CONNECTIONS.
C. PROVIDE INTEGRAL DISCONNECT SWITCH.
D. PROVIDE CONTROL POWER (CP) TRANSFORMER FACTORY INSTALLED. COORDINATE PRIMARY POWER WITH ELECTRICAL DRAWINGS.
E. BOX NOT TO EXCEED SCHEDULED DISCHARGE OR RADIATED SOUND NC LEVEL USING 0.5 INCH PRESSURE DROP.
F. PROVIDE FACTORY-INSTALLED, PRESSURE INDEPENDENT DDC CONTROL PACKAGE.
G. PROVIDE BOX WITH EITHER RIGHT HAND OR LEFT HAND CONFIGURATION AS SHOWN ON DRAWINGS.
H. INLET SIZE SHOWN IS THE MINIMUM ALLOWABLE INLET SIZE. NO SMALLER SIZES SHALL BE ACCEPTED.
I. VAV BOXES SHALL BE SIZED TO MEET THE SCHEDULED VALUES BASED ON THE FOLLOWING PRIORITIES: 1 - HEATING COIL CAPACITY, 2 - LEAVING AIR TEMPERATURE.

FAN SCHEDULE

MARK	SERVICE DESCRIPTION	MANUFACTURER	MOUNTING	MODEL	CFM	ESP (IN)	BHP	NOM HP	FAN RPM	DRIVE (BELT/DIRECT)	ELECTRICAL		WEIGHT (LBS)	NOTES
											V/PH	STARTER TYPE		
EF-E-9	GENERAL EXHAUST	GREENHECK	ROOF	G-099-VG	600	1	0.19	0.25	1609	DIRECT	115/1	ECM	75	ALL

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

NOTES:

A. PROVIDE STANDARD INSULATED ROOF CURB WITH MINIMUM HEIGHT OF 16 INCHES. PROVIDE SLOPED CURB IF NEEDED TO MATCH ROOF SLOPE. COORDINATE WITH ROOF INSULATION THICKNESS AND ROOF TAPER AT INSTALLED LOCATION. COORDINATE CURB TYPE WITH DRAWINGS.
B. PROVIDE WITH MOTORIZED DAMPER AND BIRDSCREEN.
C. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.
D. INTERLOCK FAN OPERATION WITH BUILDING AUTOMATION SYSTEM.
E. PROVIDE WITH MANUFACTURER'S FAN SPEED CONTROLLER FOR BALANCING PURPOSES.
F. PROVIDE WITH MANUFACTURER'S ELECTRONICALLY COMMUTATED (EC) MOTOR.
G. NOMINAL MOTOR HP SHALL BE NO LARGER THAN THE FIRST AVAILABLE NOMINAL MOTOR SIZE GREATER THAN THE BHP.

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EXPIRES 10/31/2025

SUMMIT GI ADDITION
SAINT LUKE'S EAST
100 NE SAINT LUKE'S BLVD.
LEE'S SUMMIT MO 64086

Date	04/07/25
Job Number	3-24100
Drawn By	JI
Checked By	BC

Revision

Number	Date	Description

M700

MECHANICAL SCHEDULES

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BRADLEY E. CHAMBON
Autodesk Docs://3-24100 SLE Summit GI/2450004866 SLEH - Summit GI Second Floor - Lees Summit MO MEP v24.rvt

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PLUMBING SYMBOLS

THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED. V2.02

STANDARD MOUNTING HEIGHTS

CLINIC SERVICE SINKS (RIM)	30"
HOSE BIBB (CENTERLINE)	36"
ICE MAKER OUTLET BOX (CENTER OF BOX)	24"
JANITOR'S SINK FAUCET FITTINGS (CENTERLINE)	42"
LAVATORY OR SINK	
STANDARD HEIGHT (RIM)	31"
ADA ACCESSIBLE (RIM)	34"
CHILD HEIGHT (RIM)	24"
NON FREEZE WALL HYDRANT (AFG TO CENTERLINE)	18"
SHOWER HEAD	
MEN (CENTERLINE)	78"
WOMEN (CENTERLINE)	72"
SHOWER VALVE	
STANDARD HEIGHT - MEN (CENTERLINE)	48"
STANDARD HEIGHT - WOMEN (CENTERLINE)	42"
ADA ACCESSIBLE (CENTERLINE)	38" TO 48"
SURGEON'S SCRUB-UP SINK (FRONT RIM)	35"
TUB VALVE	
STANDARD HEIGHT (CENTERLINE)	32"
ADA ACCESSIBLE	CENTER BETWEEN GRAB BAR AND TUB RIM
URINAL	
STANDARD HEIGHT (RIM)	24"
ADA ACCESSIBLE (RIM)	17"
CHILD HEIGHT (RIM)	14"
WASHING MACHINE OUTLET BOX (RIM)	42"
WATER CLOSET	
STANDARD HEIGHT (RIM)	15"
ADA ACCESSIBLE (TOP OF SEAT)	17" TO 19"
CHILD HEIGHT (RIM)	10"
WATER COOLER OR DRINKING FOUNTAIN	
STANDARD HEIGHT (SPOUT)	41"
ADA ACCESSIBLE (SPOUT)	36"
CHILD HEIGHT (SPOUT)	30"

INSTALL PLUMBING FIXTURES AT THE MOUNTING HEIGHTS SHOWN ABOVE UNO IN THE ARCHITECTURAL DRAWINGS OR ELSEWHERE IN THE CONSTRUCTION DOCUMENTS. FINAL APPROVAL OF LOCATIONS BY ARCHITECT. MOUNTING HEIGHTS LISTED ABOVE, OR ELSEWHERE IN THE CONSTRUCTION DOCUMENTS, ARE AFF, UNO. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.

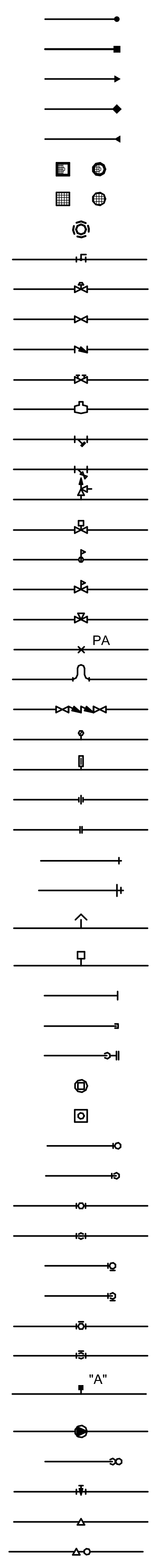
ANNOTATION

(1)	PLUMBING PLAN NOTE CALLOUT
(1)	PLUMBING EQUIPMENT DESIGNATION. (CONTRACTOR FURNISHED AND INSTALLED). REFER TO PLUMBING FIXTURE OR EQUIPMENT SCHEDULES
1	EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED)
CU 1	MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE)
◐	CONNECTION POINT OF NEW WORK TO EXISTING
1 P1	DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER
1 P1	SECTION CUT DESIGNATION
▨	DEDICATED EQUIPMENT ACCESS TILE
▽	ACCESS PANEL

ABBREVIATIONS

ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
BAS	BUILDING AUTOMATION SYSTEM
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STRUCTURE
BTU	BRITISH THERMAL UNIT
CP	CONDENSATE PUMP
CPVC	CHLORINATED POLYVINYL CHLORIDE
CU	COPPER
DI	DUCTILE IRON
DN	DOWN
DFU	DRAINAGE FIXTURE UNIT
DS	DOWNSPOUT
(E)	EXISTING
EMS	ENERGY MANAGEMENT SYSTEM
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
FD	FLOOR DRAIN
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
FF	FINISHED FLOOR
FL	FLOW LINE
FLA	FULL LOAD AMPS
FLR	FLOOR
GPM	GALLONS PER MINUTE
HD	HEAD, HUB DRAIN
HZ	HERTZ
IE	INVERT ELEVATION
IN WC	INCHES OF WATER COLUMN
JB	JUNCTION BOX
J-BOX	JUNCTION BOX
KW	KILOWATT
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MBH	1000 BTU PER HOUR
MH	MANHOLE
MIN	MINIMUM
N/C	NORMALLY CLOSED
N/O	NORMALLY OPEN
NIC	NOT IN CONTRACT
ORD	OVERFLOW ROOF DRAIN
PDI	PLUMBING DRAINAGE INSTITUTE
PH/Ø	PHASE
PRV	PRESSURE REDUCING VALVE
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
SF	SQUARE FEET
SP	SUMP
SS	STAINLESS STEEL SANITARY SEWER, SOIL STACK
TDH	TOTAL DYNAMIC HEAD
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
VCP	VITRIFIED CLAY PIPE
VFD	VARIABLE FREQUENCY DRIVE
VS	VENT STACK
VTR	VENT THROUGH ROOF
W/	WITH
W/O	WITHOUT
WC	WATER COLUMN
WS	WASTE STACK
WSFU	WATER SUPPLY FIXTURE UNIT
WVS	WASTE VENT STACK

PIPING SYMBOLS



- OXYGEN OUTLET
- NITROUS OXIDE OUTLET
- MEDICAL AIR OUTLET
- NITROGEN OUTLET
- MEDICAL VACUUM INLET
- FLOOR SINK (FS), SIZE & TYPE
- FLOOR DRAIN (FD), SIZE & TYPE
- ROOF DRAIN (RD), SIZE & TYPE
- BALL VALVE
- CONTROL VALVE
- SHUTOFF VALVE
- CHECK VALVE
- BALANCING VALVE WITH PRESSURE PORTS
- WATER METER
- STRAINER
- STRAINER WITH BLOWOFF
- RELIEF/SAFETY VALVE
- SOLENOID VALVE
- PRESSURE REDUCING VALVE
- GAS PRESSURE REGULATOR
- THERMOSTATIC MIXING VALVE
- PIPE ANCHOR
- EXPANSION JOINT
- BACKFLOW PREVENTER
- PRESSURE GAUGE
- THERMOMETER
- UNION
- FLANGE CONNECTION
- HOSE BIBB (HB)
- NON-FREEZING WALL HYDRANT (NW)
- MANUAL / AUTOMATIC AIR VENT OR VACUUM RELIEF VALVE
- PRESSURE / VACUUM SWITCH
- CLEANOUT
- CAP
- WALL CLEANOUT (WCO)
- FLOOR CLEANOUT (FCO)
- EXTERIOR CLEANOUT (ECO)
- ELBOW UP
- ELBOW DOWN
- TEE UP
- TEE DOWN
- ELBOW UP WITH SHUT-OFF VALVE (SOV)
- ELBOW DOWN WITH SHUT-OFF VALVE (SOV)
- TEE UP WITH SHUT-OFF VALVE (SOV)
- TEE DOWN WITH SHUT OFF VALVE (SOV)
- WATER HAMMER ARRESTER (WHA) WITH PDI SIZES, (A, B, C, D, & E)
- RECIRCULATION PUMP
- P-TRAP
- GAS COCK
- TRAP PRIMER
- TRAP PRIMER WITH DISTRIBUTION UNIT

PIPING LINETYPES

——CW——	DOMESTIC COLD WATER (CW)
——SCW——	SOFTENED COLD WATER (SCW)
——HW——	DOMESTIC HOT WATER (HW)
——HWR——	DOMESTIC HOT WATER RECIRC. (HWR)
——140°——	DOMESTIC HOT WATER (140°)
——T——	TRAP PRIMER LINE (T)
——S——	SOIL PIPING - ABOVE FLOOR (S)
— —S— —	SOIL PIPING - BELOW FLOOR (S)
——W——	WASTE PIPING - ABOVE FLOOR (W)
— —W— —	WASTE PIPING - BELOW FLOOR (W)
——GW——	GREASE WASTE - ABOVE FLOOR (GW)
— — GW — —	GREASE WASTE - BELOW FLOOR (GW)
——CGWV——	COMBINATION GREASE WASTE AND VENT (CGWV)
——CWV——	COMBINATION WASTE AND VENT (CWV)
——ST——	STORM DRAIN - ABOVE FLOOR (ST)
— — ST — —	STORM DRAIN - BELOW FLOOR (ST)
——OST——	OVERFLOW STORM DRAIN - ABOVE FLOOR (OST)
— — VBG — —	VENT BELOW GRADE (VBG)
— — VBF — —	VENT BELOW FLOOR (VBF)
——ID——	INDIRECT DRAIN (ID)
——CDH——	CONDENSATE DRAIN - HIGH EFFICIENCY RTU (CDH)
——CD——	CONDENSATE DRAIN (CD)
——ACD——	AUXILIARY CONDENSATE DRAIN (ACD)
——SPD——	SUMP OR SEWAGE PUMP DISCHARGE (SPD)
——G——	NATURAL GAS (G)
— — G — —	NATURAL GAS ON ROOF (G)
——MPG——	MEDIUM PRESSURE NATURAL GAS (MPG)
— — MPG — —	MEDIUM PRESSURE NATURAL GAS ON ROOF (MPG)
——NPW——	NON-POTABLE WATER (NPW)
——LPG——	LIQUEFIED PETROLEUM GAS (LPG)
——WS——	WATER SERVICE (WS)
——DFP——	FIRE PROTECTION SPRINKLER DRY (DFP)
——FP——	FIRE PROTECTION SPRINKLER WET (FP)
——DSP——	FIRE PROTECTION STANDPIPE DRY (DSP)
——WSP——	FIRE PROTECTION STANDPIPE WET (WSP)
——PD——	CONDENSATE PUMP DISCHARGE (PD)
——V——	VENT PIPING (V)
——AW——	ACID WASTE - ABOVE FLOOR (AW)
— — AW — —	ACID WASTE - BELOW FLOOR (AW)
——AV——	ACID VENT (AV)
——GWS——	GRAY WATER (GWS)
——CA——	COMPRESSED AIR (CA)
——MA——	MEDICAL AIR (MA)
——MV——	MEDICAL VACUUM (VE)
——HE——	HELIUM (HE)
——IA——	INSTRUMENT AIR (IA)
——IV——	INSTRUMENT VACUUM (IV)
——N2——	NITROGEN (N2)
——N2O——	NITROUS OXIDE (N20)
——O2——	OXYGEN (O2)
——EV——	EVAC/WAGD (EV)
——CO2——	CARBON DIOXIDE (CO2)
——AI——	MEDICAL AIR INTAKE (AI)
——VE——	MEDICAL VACUUM EXHAUST (VE)
——DA——	DENTAL AIR (DA)
——DV——	DENTAL VACUUM (DV)
——FW1——	FILTERED WATER (FW1)
——FW2——	FILTERED WATER W/ SCALE INHIBITOR (FW2)
——RO——	REVERSE OSMOSIS (RO)
——ROR——	REVERSE OSMOSIS REMINERALIZATION (ROR)

LINETYPE LEGEND

THROUGHOUT THE DRAWINGS DIFFERENT LINETYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF NEW WORK AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASES DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC.

EXISTING	————	NEW	━━━━
DEMOLISH	— — — —	FUTURE	- - - - - -

HATCHING LEGEND

ENLARGED PLAN	▨
NOT IN SCOPE (NIS)	▩

GENERAL DEMOLITION NOTES:

1. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
2. EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. COORDINATE NEW WORK AND DEMOLITION WITH OTHER DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
3. OWNER RETAINS RIGHTS OF SALVAGE FOR EQUIPMENT AND FIXTURES TO BE REMOVED. COORDINATE WITH THE OWNER THE EQUIPMENT AND FIXTURES TO BE SALVAGED AND THE LOCATION FOR STORAGE. AVOID DAMAGE TO EQUIPMENT, FIXTURES AND DEVICES DURING DEMOLITION WORK AND DURING TRANSPORT TO OWNER'S DESIGNATED STORAGE LOCATION.
4. REMOVE ITEMS SHOWN HEAVY LINED AND/OR CROSSHATCHED AND/OR NOTED TO BE REMOVED.
5. AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN FOR NEW INSTALLATION. REPAIR ANY DAMAGE CAUSED DURING WORK AT NO EXTRA COST TO THE OWNER.
6. SEAL ALL PENETRATIONS THROUGH FLOORS, WALLS, CEILINGS AND/OR ROOFS WHERE PLUMBING COMPONENTS ARE REMOVED AND WHERE THE EXISTING PENETRATION IS NOT USED FOR THE NEW INSTALLATION. REPAIR SURFACES TO MATCH ADJACENT AREAS.
7. INSTALL PERMANENT CAPS WHERE PIPING IS REMOVED AND THE EXISTING TAPS ARE NOT USED FOR THE NEW INSTALLATION. INSTALL TEMPORARY CAPS WHERE PIPING IS REMOVED AND THE EXISTING TAPS WILL BE USED FOR THE NEW INSTALLATION TO PROTECT THE INTERIOR SURFACES UNTIL NEW PIPING IS INSTALLED.
8. REMOVE PIPE HANGERS, PIPE SUPPORTS AND EQUIPMENT SUPPORTS WHERE PIPING OR EQUIPMENT IS REMOVED AND THE EXISTING HANGERS AND SUPPORTS ARE NOT USED FOR THE NEW INSTALLATION.
9. VERIFY THAT EXISTING EQUIPMENT TO REMAIN IS OPERATING PROPERLY. NOTIFY THE ARCHITECT, ENGINEER AND/OR OWNER OF ANY DAMAGED AND/OR MALFUNCTIONING COMPONENTS.
10. WHERE SHUTDOWN OF EXISTING ACTIVE PIPING SYSTEMS IS REQUIRED DURING DEMOLITION PHASE OF WORK IN PREPARATION FOR NEW TIE-IN PHASE OF WORK, COORDINATE WITH THE OWNER AND MINIMIZE DOWNTIME. VERIFY EXISTING SYSTEMS, EQUIPMENT, AND COMPONENTS WILL BE PROVIDED WITH BACKUP SERVICE WHERE REQUIRED. NOTIFY OWNER A MINIMUM OF SEVEN (7) DAYS PRIOR TO INTERRUPTION OF SERVICE.

GENERAL NOTES:

1. PROVIDE A CONSTRUCTION RECORD SET OF "AS-BUILT" DOCUMENTS TO THE ARCHITECT REFLECTING ANY VARIANCES OF INSTALLED PIPING LOCATIONS OR EQUIPMENT CONTRARY TO THE CONSTRUCTION DOCUMENTS; REFER TO SPECIFICATIONS.
2. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE TO OBSERVE THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS, AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY THE ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
3. PROVIDE TO THE ARCHITECT A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS; REFER TO SPECIFICATIONS.
4. INSTALLATION SHALL COMPLY WITH LEGALLY CONSTITUTED CODES AND THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION AND ALSO MEET ALL REQUIREMENTS OF THE OWNER. OBTAIN A COPY OF THE OWNER'S REQUIREMENTS, IF AVAILABLE, AND REVIEW PRIOR TO SUBMITTING BID.
5. PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.
6. VERIFY LOCATION AND ELEVATION OF UTILITIES AT POINTS OF CONNECTION BEFORE START OF PIPING INSTALLATION.
7. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.
8. DO NOT SCALE FLOOR PLANS FOR EXACT HORIZONTAL LOCATION OF PIPE ROUTING.
9. VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.
10. INSTALL SHUTOFF VALVES IN BRANCH PIPING AS NEAR TO THEIR MAINS AS POSSIBLE IN ACCESSIBLE LOCATIONS, UNLESS SHOWN OTHERWISE ON THE PLANS.
11. DO NOT INSTALL BULLHEAD TEES IN WATER PIPING WHERE DIRECTION OF FLOW IS FROM THE BRANCH CONNECTION TO THE STRAIGHT RUN.
12. INSTALL PIPING AS CLOSE TO CENTERPOINT OF WALL CAVITIES AS POSSIBLE TO HELP PREVENT PENETRATION OF PIPING BY SCREWS, NAILS, ETC.
13. INSTALL CONCEALED PIPING TIGHT TO THE STRUCTURE AND AS HIGH AS POSSIBLE.
14. INSTALL EXPOSED PIPING, WHERE NECESSARY, IN FINISHED AREAS TIGHT TO THE STRUCTURE, WALL, OR CEILING AND AS HIGH AS POSSIBLE. INSTALL PIPING PARALLEL AND/OR PERPENDICULAR TO WALLS.
15. INSTALL VALVES AND APPURTENANCES A MAXIMUM OF 24" ABOVE CEILING IN ACCESSIBLE LOCATION WITHIN 24" OF ACCESS DOORS OR ACCESSIBLE CEILING TILES. PROVIDE PIPE AND FITTINGS TO INSTALL VALVES AND APPURTENANCES AT REQUIRED HEIGHT AND WITHIN 24" OF ACCESS DOORS OR ACCESSIBLE CEILING TILES.
16. INSTALL NO PLASTIC PIPE OF ANY KIND ABOVE SLAB INSIDE THE BUILDING.
17. COORDINATE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
18. COORDINATE PIPING INSTALLATION WITH EXISTING STRUCTURAL MEMBERS, ABOVE SLAB. CORE DRILL AND/OR SLEEVE PIPING THROUGH EXISTING STRUCTURAL MEMBERS WHERE REQUIRED AND/OR AS NOTED ON PLANS. PIPING JOINTS AND FITTINGS SHALL NOT BE LOCATED WITHIN SLEEVES. COORDINATE SLEEVE INSTALLATIONS WITH THE ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR, AND/OR GENERAL CONTRACTOR BEFORE CORE DRILLING TAKES PLACE.
19. CLEAN FAUCET OUTLETS AND PIPE STRAINERS PRIOR TO TURNING BUILDING OVER TO THE OWNER.
20. COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL EQUIPMENT AND/OR PANELS. DO NOT INSTALL PIPING OVER ELECTRICAL EQUIPMENT AND/OR PANELS.
21. PROVIDE "HEAVY-DUTY" NO-HUB COUPLINGS ON SOIL AND WASTE STACKS, SOIL AND WASTE PIPING CONNECTIONS TO SOIL AND WASTE STACKS, AND ALL SOIL AND WASTE PIPING 4" AND LARGER ABOVE SLAB ON GRADE. SEE DIVISION 22 SPECIFICATION SECTION "SANITARY WASTE AND VENT PIPING" FOR MORE INFORMATION.
22. FLOW CONTROL VALVES SHALL BE 1/2" SIZE AND SET AT 0.5 GPM, UNLESS NOTED OTHERWISE.
23. WATER HAMMER ARRESTERS SHALL BE SIZE "A" UNLESS NOTED OTHERWISE. SIZE "AA" WATER HAMMER ARRESTERS WILL NOT BE ACCEPTABLE.
24. FOR INDIVIDUAL FIXTURE LOCATIONS, INSTALL WATER HAMMER ARRESTERS CONCEALED IN WALL CONSTRUCTION WITHIN SIX FEET OF FIXTURE ROUGH-INS OR SOURCE OF SHOCK. PLACEMENT OF ARRESTERS AT TOP OF RISERS WITHOUT OFFSETS AND WITH ONLY THE ELBOW FITTINGS AT FIXTURE ROUGH-INS IS ALSO ACCEPTABLE IF IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
25. PROVIDE VERTICAL LIFT SPRING LOADED CHECK VALVES IN DEDICATED COLD AND HOT WATER BRANCH LINES TO JANITOR'S SINK FAUCETS DOWNSTREAM OF SHUTOFF VALVES.
26. PROVIDE WALL PIPES AT PIPING PENETRATIONS OF ELEVATED WATERPROOF FLOOR SLABS; REFER TO SPECIFICATIONS.
27. VERIFY EXISTING EQUIPMENT AND FIXTURES, INCLUDING ACCESSORIES, ARE NOT DAMAGED AND ARE IN GOOD WORKING ORDER. REPORT ANY DEFICIENCIES TO THE ARCHITECT.
28. PROVIDE SIZE AND MAXIMUM LENGTH OF HOT WATER SUPPLY PIPE FROM CIRCULATED HOT WATER BRANCH OR MAIN TO TERMINATION OF HOT WATER SUPPLY PIPE SERVING EACH FIXTURE PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE, TABLE C404.5.1.

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NUMBER PE-028603

04/07/2025
BRADLEY E. CHAMBON
LICENSE # 028603

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SUMMIT GI ADDITION
SAINT LUKE'S EAST
100 NE SAINT LUKE'S BLVD.
LEE'S SUMMIT MO 64086

Date	04/07/25
Job Number	3-24100
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Checked By	HEI

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PLUMBING GENERAL NOTES AND LEGEND

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○ PLUMBING DEMOLITION PLAN NOTES:

2 REMOVE PIPING BACK TO POINT INDICATED AND MAINTAIN FOR RECONNECTION IN NEW WORK.
3 REMOVE PIPING BACK TO POINT INDICATED AND CAP PERMANENTLY.
4 REMOVE SANITARY PIPING SERVING REMOVED PLUMBING FIXTURE ON FLOOR ABOVE BACK TO POINT INDICATED.
5 REMOVE EXISTING 1-1/2"S PIPING BACK TO POINT INDICATED. REFER TO NEW WORK FOR NEW SANITARY PIPING INSTALLED IN SAME LOCATION.
6 REMOVE EXISTING PORTION OF VENT PIPING IN DEMOLISHED WALL BACK TO POINT INDICATED. REFER TO NEW WORK PLANS FOR CONTINUATION.

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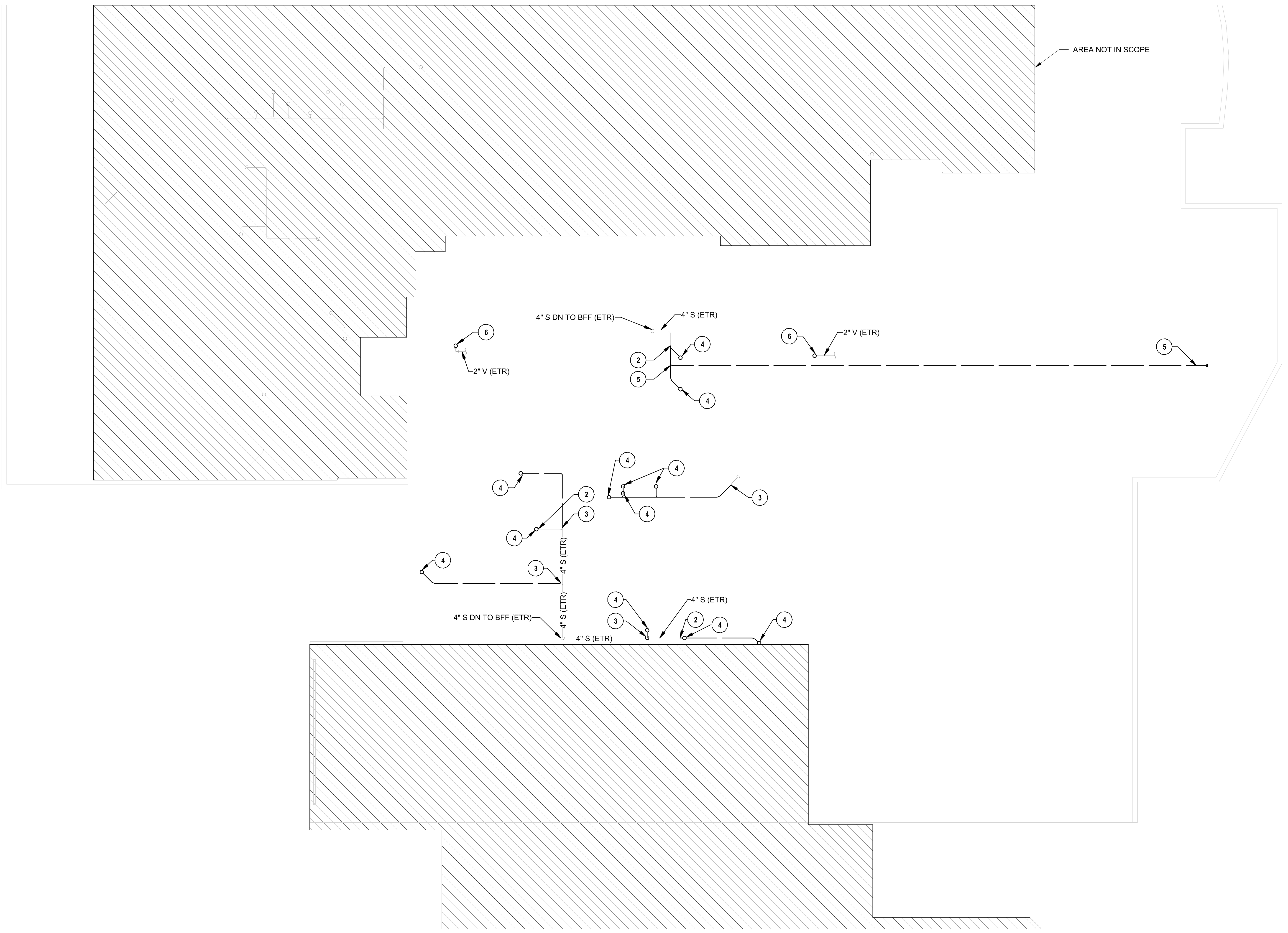

① PLUMBING DEMOLITION PLAN - LEVEL 1
1/8" = 1'-0"

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PLUMBING DEMOLITION PLAN - LEVEL 1

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○ PLUMBING DEMOLITION PLAN NOTES:

1 REMOVE EXISTING PLUMBING FIXTURE INDICATED AS WELL AS PIPING (WASTE, VENT, HOT AND COLD WATER) TO BELOW FINISHED FLOOR AND TO WHERE INDICATED ON PLANS ABOVE CEILING AND CAP.

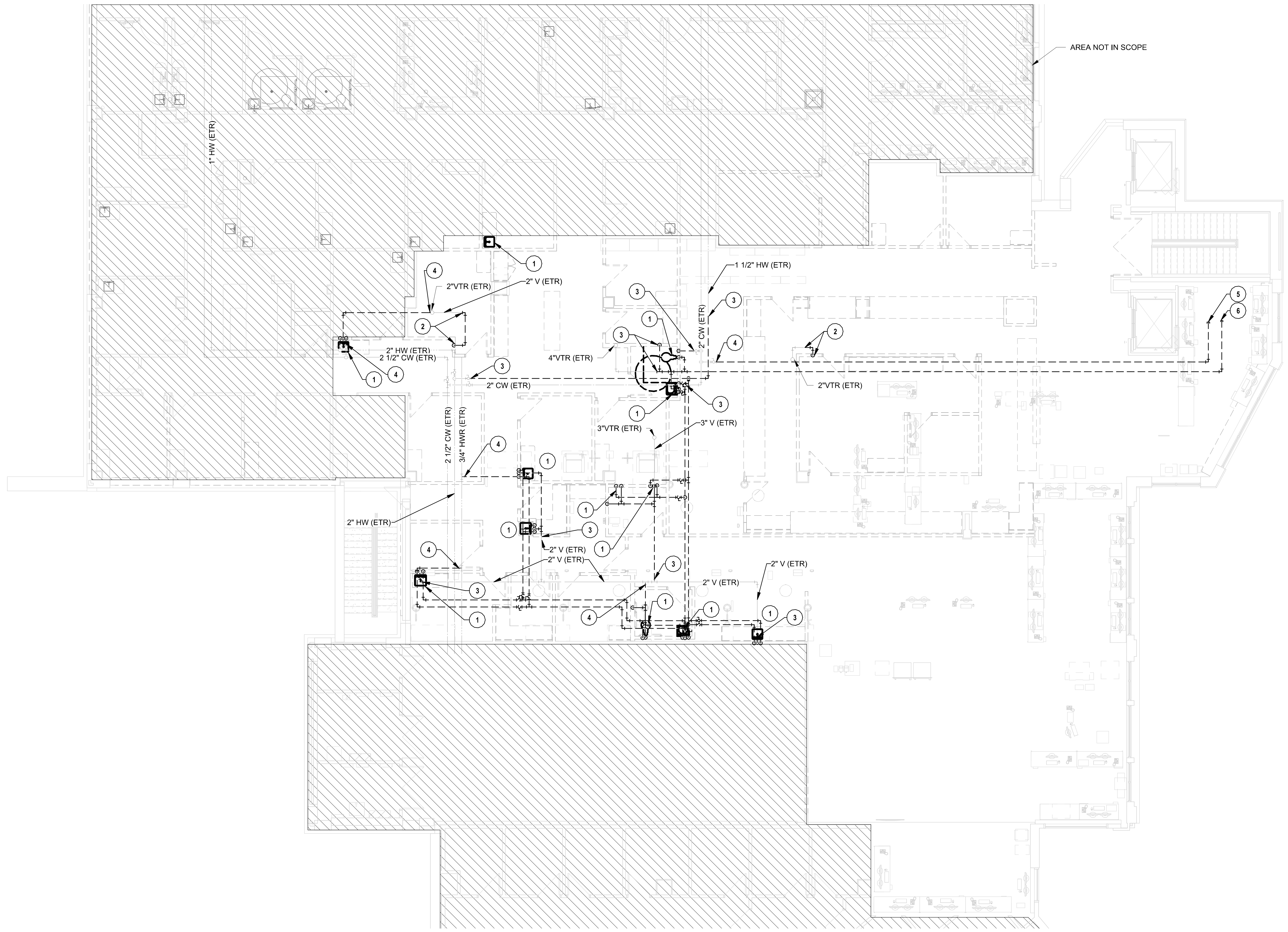
2 REMOVE EXISTING PORTION OF VENT PIPING IN DEMOLISHED WALL BACK TO POINT INDICATED. REFER TO NEW WORK PLANS FOR CONTINUATION.

3 REMOVE PIPING BACK TO POINT INDICATED AND MAINTAIN FOR RECONNECTION IN NEW WORK.

4 REMOVE PIPING BACK TO POINT INDICATED AND CAP PERMANENTLY.

5 REMOVE EXISTING 3/4"CW BACK TO POINT INDICATED. REFER TO NEW WORK FOR NEW SANITARY PIPING INSTALLED IN SAME LOCATION.

6 REMOVE EXISTING 1-1/2"V BACK TO POINT INDICATED. REFER TO NEW WORK FOR NEW SANITARY PIPING INSTALLED IN SAME LOCATION.



① PLUMBING DEMOLITION PLAN - LEVEL 2
1/8" = 1'-0"

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PLUMBING DEMOLITION PLAN - LEVEL 2

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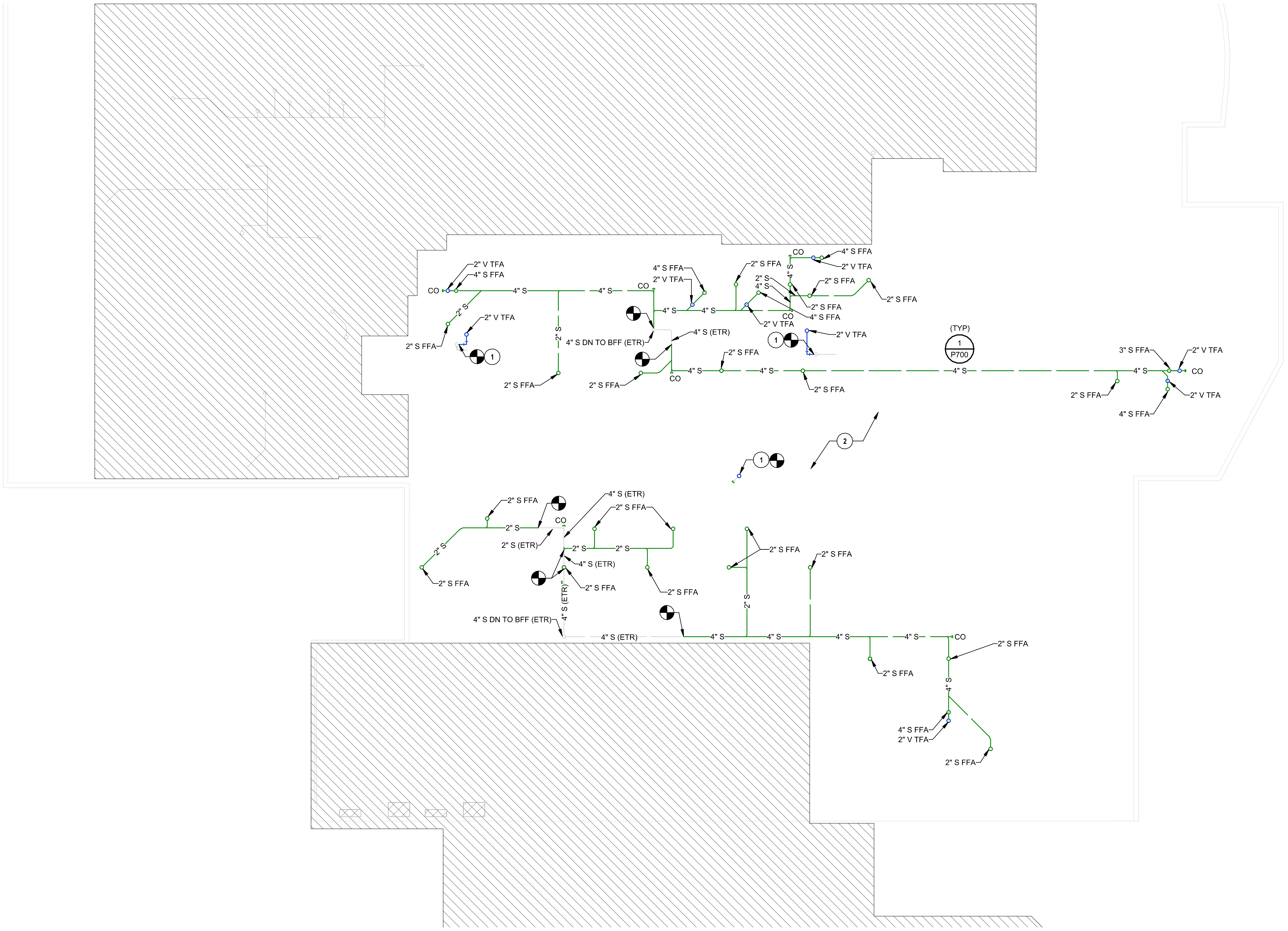
○ PLUMBING PLAN NOTES:

1 ROUTE NEW VENT PIPING UP TO LEVEL 2 AND CONNECT INTO VENT SYSTEM IN CEILING SPACE AS INDICATED.

2 WITH FLOOR PLAN LAYOUT NOT AVAILABLE, COORDINATE PIPE ROUTING ABOVE CEILING AS NECESSARY SO AS TO AVOID ROUTING OVER ELECTRICAL ROOMS, ELECTRICAL PANELS, OR OTHER TYPES OF CRITICAL SPACES OR EQUIPMENT.


CO
2" V TFA
4" S FFA
4" S
2" S
2" S FFA
2" V TFA
1
2" S
2" S FFA
4" S
CO
4" S FFA
2" V TFA
4" S
4" S
4" S DN TO BFF (ETR)
4" S (ETR)
2" S FFA
CO
4" S
2" S FFA
2" S FFA
4" S
2" S FFA
CO
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2" S FFA
4" S FFA
CO
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CO
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CO
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① PLUMBING WASTE & VENT PLAN - LEVEL 1
1/8" = 1'-0"

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PLUMBING WASTE & VENT PLAN - LEVEL 1

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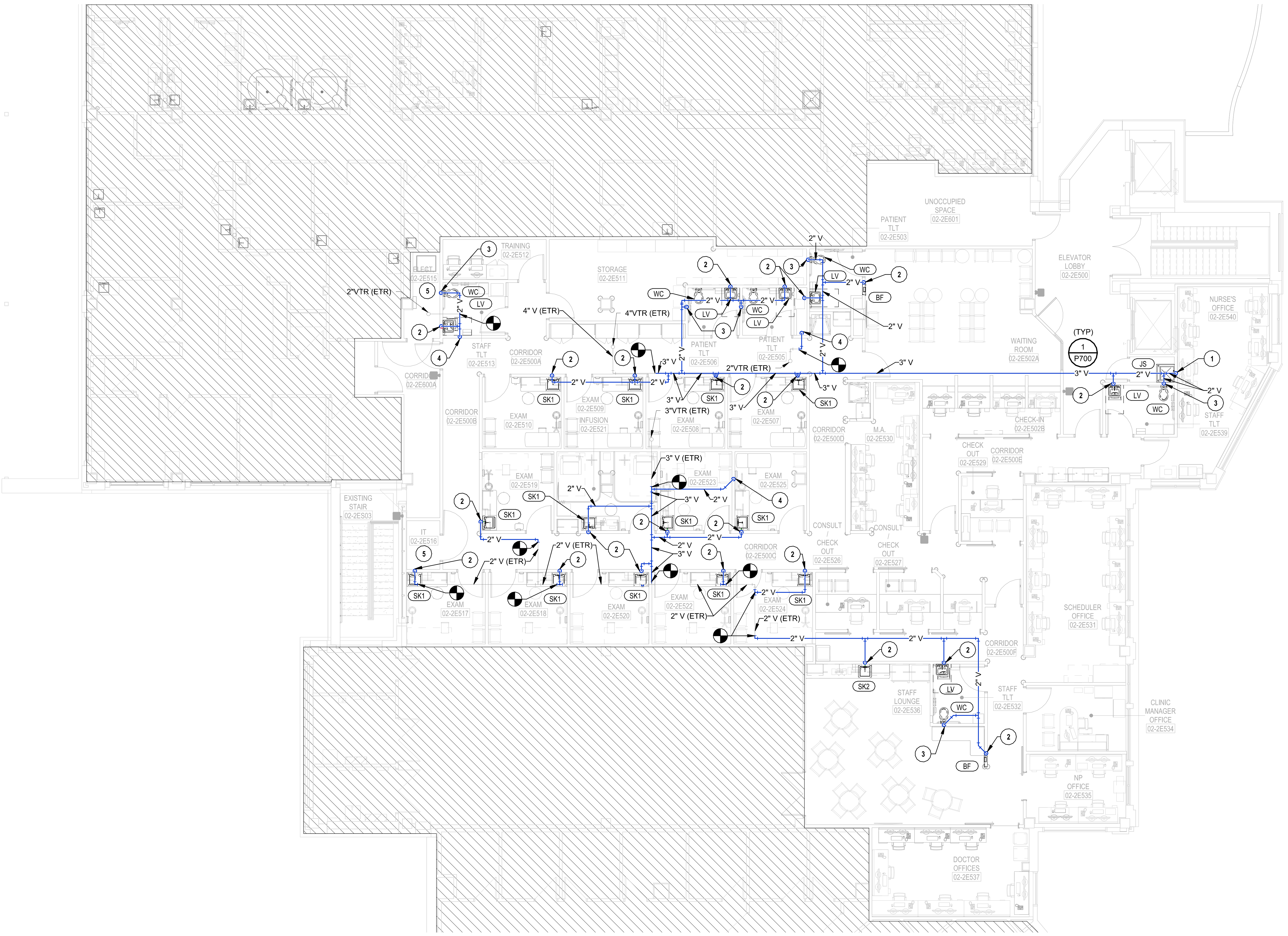
○ PLUMBING PLAN NOTES:

1 3"S & 2"V
2 2"S & 2"V
3 4"S & 2"V
4 2"V FFB
5 DO NOT ROUTE ANY PLUMBING PIPING ABOVE ELECTRICAL EQUIPMENT.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STORAGE 02-2E511
ELECT. 02-2E515
STAFF TLT 02-2E513
CORRIDOR 02-2E500A
CORRIDOR 02-2E600A
CORRIDOR 02-2E500B
EXAM 02-2E510
EXAM 02-2E509
INFUSION 02-2E521
EXAM 02-2E508
EXAM 02-2E507
PATIENT TLT 02-2E506
PATIENT TLT 02-2E505
PATIENT TLT 02-2E503
UNOCCUPIED SPACE 02-2E601
ELEVATOR LOBBY 02-2E500
WAITING ROOM 02-2E502A
NURSE'S OFFICE 02-2E540
STAFF TLT 02-2E539
CHECK-IN 02-2E502B
CORRIDOR 02-2E500D
M.A. 02-2E530
CHECK OUT 02-2E529
CORRIDOR 02-2E500E
EXAM 02-2E519
EXAM 02-2E523
EXAM 02-2E525
EXISTING STAIR 02-2ES03
IT 02-2E516
EXAM 02-2E517
EXAM 02-2E518
EXAM 02-2E520
EXAM 02-2E522
EXAM 02-2E524
CORRIDOR 02-2E500C
CONSULT / CHECK OUT 02-2E526
CONSULT / CHECK OUT 02-2E527
SCHEDULER OFFICE 02-2E531
CORRIDOR 02-2E500F
STAFF LOUNGE 02-2E536
STAFF TLT 02-2E532
CLINIC MANAGER OFFICE 02-2E534
NP OFFICE 02-2E535
DOCTOR OFFICES 02-2E537
2"VTR (ETR)
4" V (ETR)
4"VTR (ETR)
2"VTR (ETR)
3"VTR (ETR)
3" V (ETR)
2" V (ETR)
2" V
3" V
WC
LV
SK1
SK2
BF
JS
(TYP)
1
P700
1
2
3
4
5
N

① PLUMBING WASTE & VENT PLAN - LEVEL 2
1/8" = 1'-0"

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PLUMBING WASTE & VENT PLAN - LEVEL 2

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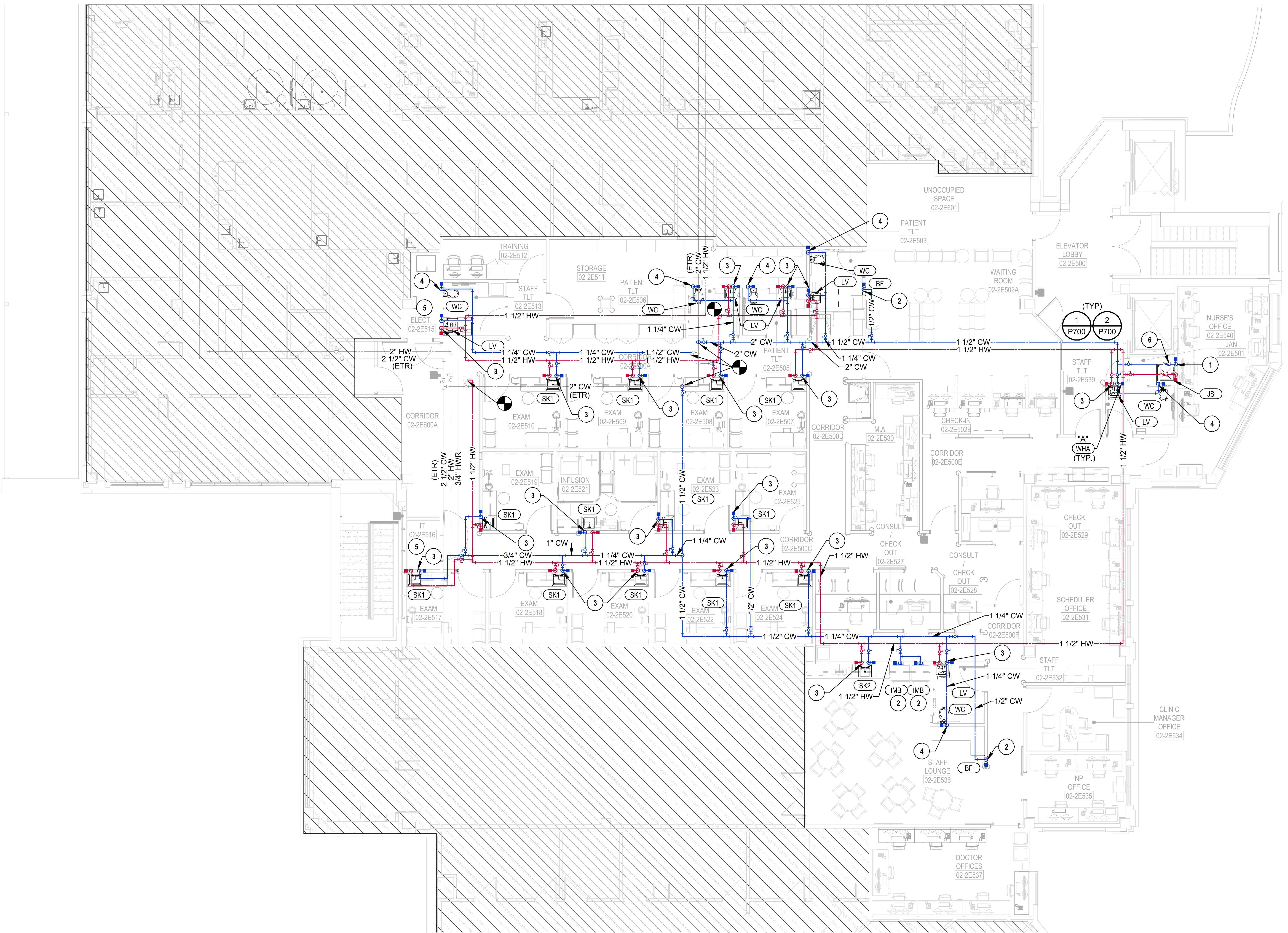
○ PLUMBING PLAN NOTES:

1 1/2" HW & 1/2" CW TO JANITOR'S SINK.
2 1/2" CW DN.
3 1/2" HW & 1/2" CW TO LAVATORYSINK.
4 1-1/4" CW TO WATER CLOSET.
5 DO NOT ROUTE ANY PLUMBING PIPING ABOVE ELECTRICAL EQUIPMENT.
6 PROVIDE LINE SIZE CHECK VALES IN COLD AND HOT WATER LINES SERVING JANITOR'S SINK.


TRAINING 02-2E512
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STAFF TLT 02-2E513
PATIENT TLT 02-2E506
PATIENT TLT 02-2E503
UNOCCUPIED SPACE 02-2E601
ELEVATOR LOBBY 02-2E500
WAITING ROOM 02-2E502A
NURSE'S OFFICE 02-2E540
JAN 02-2E501
STAFF TLT 02-2E539
ELECT. 02-2E515
CORRIDOR 02-2E600A
PATIENT TLT 02-2E505
EXAM 02-2E510
EXAM 02-2E509
EXAM 02-2E508
EXAM 02-2E507
CORRIDOR 02-2E500A
CORRIDOR 02-2E500D
M.A. 02-2E530
CHECK-IN 02-2E502B
CORRIDOR 02-2E500E
EXAM 02-2E519
INFUSION 02-2E521
EXAM 02-2E523
EXAM 02-2E525
IT 02-2E516
EXAM 02-2E517
EXAM 02-2E518
EXAM 02-2E520
EXAM 02-2E522
EXAM 02-2E524
CORRIDOR 02-2E500C
CONSULT / CHECK OUT 02-2E527
CONSULT / CHECK OUT 02-2E528
CHECK OUT 02-2E529
SCHEDULER OFFICE 02-2E531
CORRIDOR 02-2E500F
STAFF TLT 02-2E532
CLINIC MANAGER OFFICE 02-2E534
STAFF LOUNGE 02-2E536
NP OFFICE 02-2E535
DOCTOR OFFICES 02-2E537
WC
LV
BF
SK1
SK2
IMB
JS
"A" WHA (TYP.)
(TYP)
1 P700
2 P700
1
2
3
4
5
6
1 1/2" HW
1 1/4" CW
1 1/2" CW
2" CW
(ETR) 2" CW 1 1/2" HW
2" HW 2 1/2" CW (ETR)
2" CW (ETR)
(ETR) 2 1/2" CW 2" HW 3/4" HWR
1/2" CW
1" CW
3/4" CW

① PLUMBING WATER PLAN - LEVEL 2
1/8" = 1'-0"

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MO. CORPORATE NO: E-556D
EXPIRES 10/31/2025

SUMMIT GI ADDITION
SAINT LUKE'S EAST
100 NE SAINT LUKE'S BLVD.
LEE'S SUMMIT MO 64086

Date	04/07/25
Job Number	3-24100
Drawn By	HEI
Checked By	HEI

Revision

Number	Date	Description

P201

PLUMBING WATER & GAS PLAN - LEVEL 2

4/7/2025 1:19:14 PM

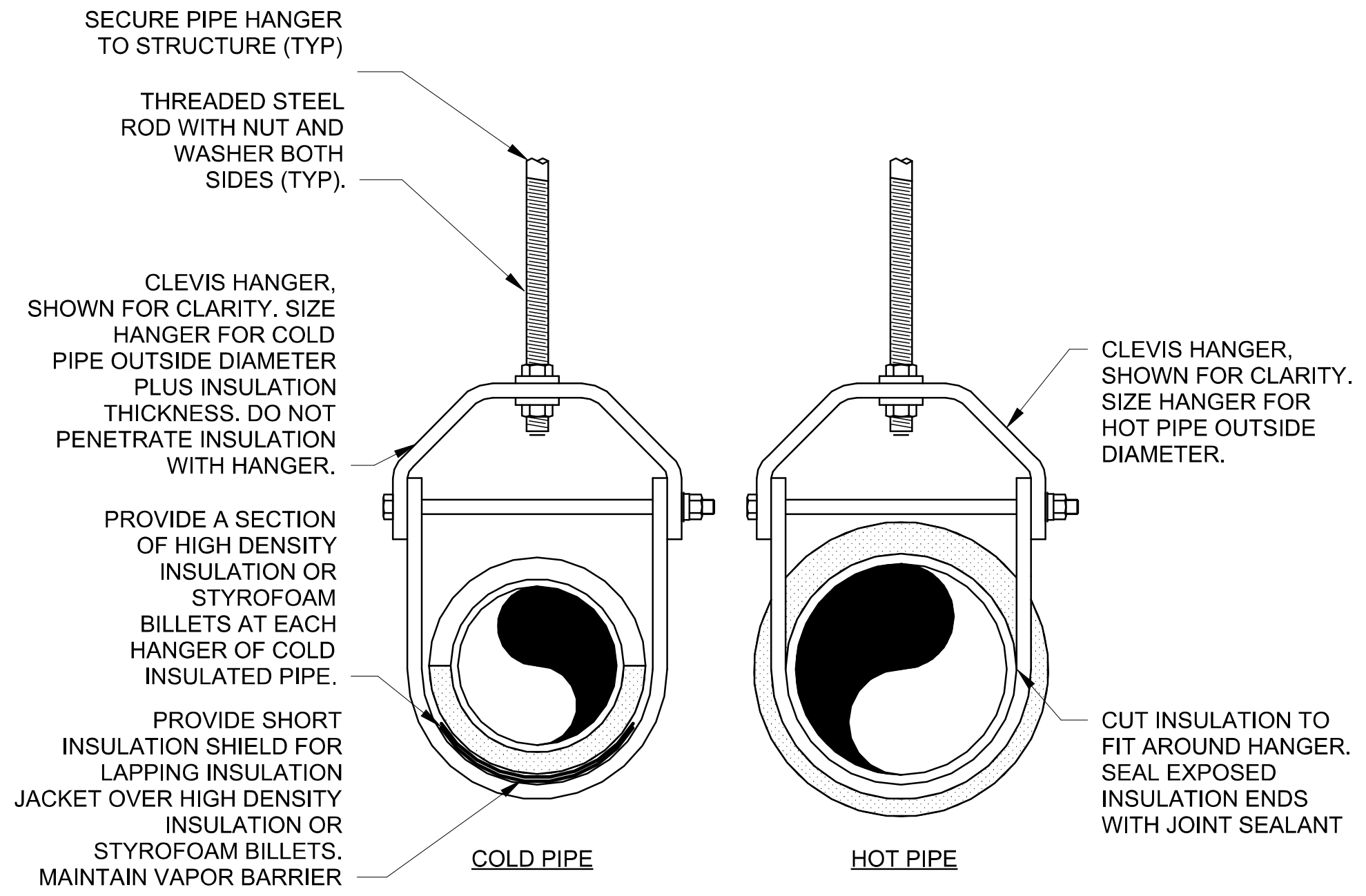
PLUMBING FIXTURES CONNECTION SCHEDULE

FIXTURE	COLD WATER	HOT WATER	WASTE	VENT
BOTTLE FILLER	1/2"		2"	2"
JANITOR'S SINK	1/2"	1/2"	3"	2"
LAVATORY	1/2"	1/2"	2"	2"
SINK	1/2"	1/2"	2"	2"
WATER CLOSET (FLUSH VALVE)	1 1/4"(NOTE 1)		4"	2"

NOTES:

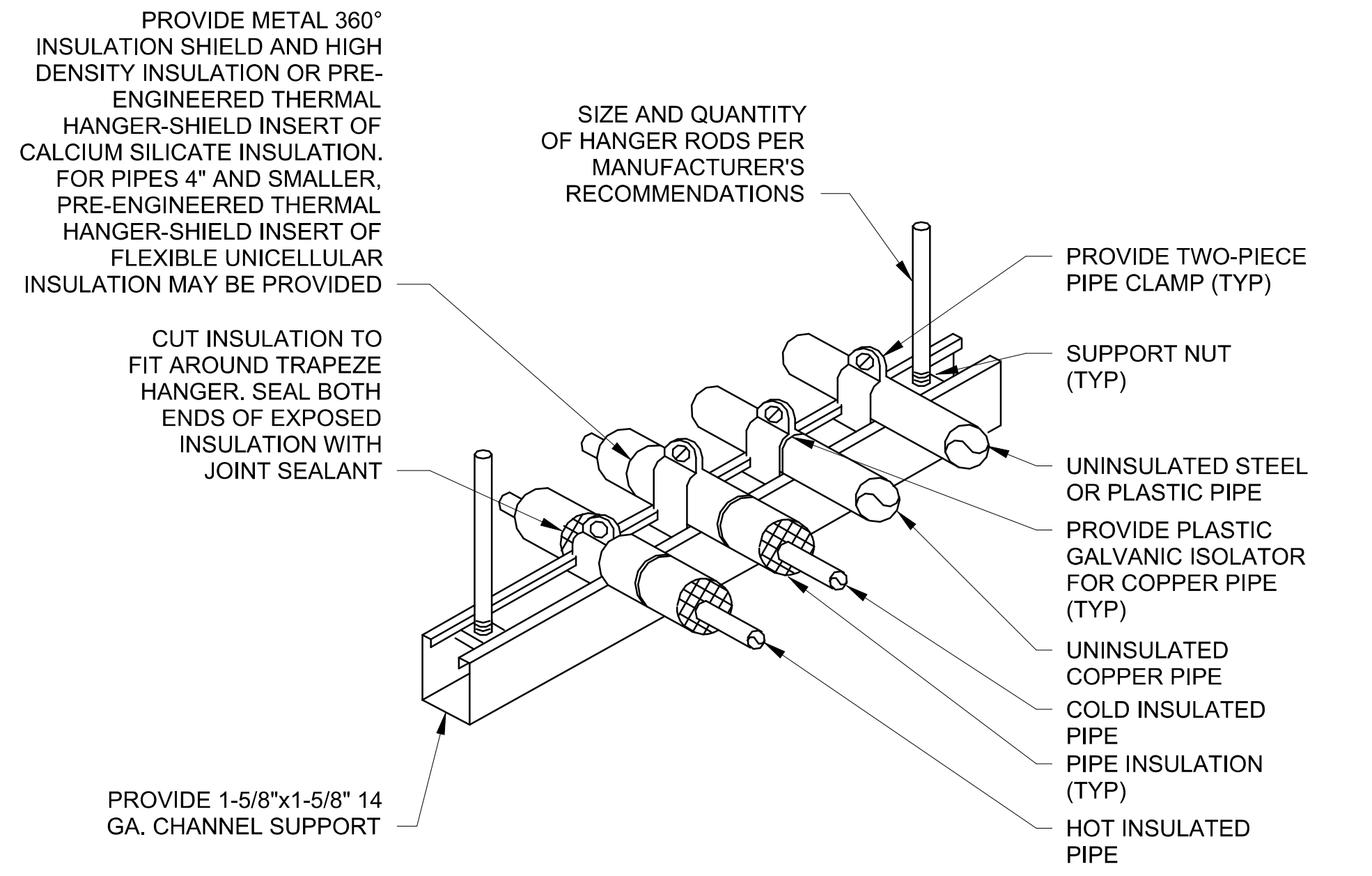
PIPE SIZES SHOWN ARE MINIMUM.

(NOTE1) PROVIDE 1-1/4" CW TO FLUSH VALVE. REDUCE TO 1" PRIOR TO CONNECTING TO FLUSH VALVE INLET AT INSIDE OF WALL


SECURE PIPE HANGER TO STRUCTURE (TYP)
THREADED STEEL ROD WITH NUT AND WASHER BOTH SIDES (TYP).
CLEVIS HANGER, SHOWN FOR CLARITY. SIZE HANGER FOR COLD PIPE OUTSIDE DIAMETER PLUS INSULATION THICKNESS. DO NOT PENETRATE INSULATION WITH HANGER.
PROVIDE A SECTION OF HIGH DENSITY INSULATION OR STYROFOAM BILLETS AT EACH HANGER OF COLD INSULATED PIPE.
PROVIDE SHORT INSULATION SHIELD FOR LAPPING INSULATION JACKET OVER HIGH DENSITY INSULATION OR STYROFOAM BILLETS. MAINTAIN VAPOR BARRIER
COLD PIPE
HOT PIPE
CLEVIS HANGER, SHOWN FOR CLARITY. SIZE HANGER FOR HOT PIPE OUTSIDE DIAMETER.
CUT INSULATION TO FIT AROUND HANGER. SEAL EXPOSED INSULATION ENDS WITH JOINT SEALANT

REFER TO SPECIFICATIONS FOR INSULATION TYPES, INSULATION THICKNESSES, HANGER TYPES, HANGER ROD CONNECTIONS TO STRUCTURE AND HANGER SPACING.

① PIPE HANGER DETAIL
NTS


PROVIDE METAL 360° INSULATION SHIELD AND HIGH DENSITY INSULATION OR PRE-ENGINEERED THERMAL HANGER-SHIELD INSERT OF CALCIUM SILICATE INSULATION. FOR PIPES 4" AND SMALLER, PRE-ENGINEERED THERMAL HANGER-SHIELD INSERT OF FLEXIBLE UNICELLULAR INSULATION MAY BE PROVIDED
CUT INSULATION TO FIT AROUND TRAPEZE HANGER. SEAL BOTH ENDS OF EXPOSED INSULATION WITH JOINT SEALANT
SIZE AND QUANTITY OF HANGER RODS PER MANUFACTURER'S RECOMMENDATIONS
PROVIDE TWO-PIECE PIPE CLAMP (TYP)
SUPPORT NUT (TYP)
UNINSULATED STEEL OR PLASTIC PIPE
PROVIDE PLASTIC GALVANIC ISOLATOR FOR COPPER PIPE (TYP)
UNINSULATED COPPER PIPE
COLD INSULATED PIPE
PIPE INSULATION (TYP)
HOT INSULATED PIPE
PROVIDE 1-5/8"x1-5/8" 14 GA. CHANNEL SUPPORT

PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITONS. REFER TO SPECIFICATIONS FOR MORE INFORMATION. PIPE AND CONDUIT OF ALL TRADES MAY BE COMBINED ON THE SAME SUPPORT CHANNEL. COORDINATE SUPPORT CHANNEL LENGTH WITH PIPING AND CONDUIT TO BE SUPPORTED. SUPPORT CHANNEL SPACING SHALL BE DETERMINED BY SMALLEST PIPE TO BE SUPPORTED. CHANNEL SUPPORT MAY BE USED AS A WALL BRACKET, ATTACH TO WALL WITH ANCHOR BOLTS PER SPECIFICATIONS. FOR HORIZONTAL INSULATED PIPING, ATTACH CLAMPS AS INDICATED ABOVE, FOR VERTICAL INSULATED PIPING, ATTACH CLAMPS TO THE PIPE AND SEAL INSULATION AT BOTH CLAMP ENDS.

② TRAPEZE PIPE HANGER
NTS

PLUMBING FIXTURE SCHEDULE

PLUMBING PLAN MARK	DESCRIPTION
BF	ELECTRIC NON-FILTERED BOTTLE FILLING STATION (ADA ACCESSIBLE): ELKAY # EZWSM8K BARRIER FREE / LEAD FREE IN-WALL RECESSED BOTTLE FILLING STATION. SENSOR-ACTIVATION WITH AN AUTO 20-SECOND SHUT-OFF TIMER. STAINLESS STEEL CONSTRUCTION WITH PLASTIC ABS ALCOVE, STAINLESS STEEL LOUVERED VENTILATED LOWER PANEL. UNIT PROVIDES 1.1-1.5 GPM WITH LAMINAR FLOW TO MINIMALIZE SPLASHING. CHILLER CAPACITY OF 8.0 GALLONS PER HOUR, 50° F DRINKING WATER AT 80° F INLET TEMPERATURE AT 90° F ROOM TEMPERATURE. FURNISHED WITH GALVANIZED STEEL WALL MOUNTING BOX FRAME. TRIM: McGUIRE # LF2165CC LEAD FREE BRASS COMPRESSION ANGLE STOP VALVE WITH RISER AND ESCUTCHEON, McGUIRE # B8872CF 1-1/4” 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT PLUG AND ESCUTCHEON, AND SUITABLE CARRIER WITH STANCHIONS TO FLOOR. ELECTRICAL REQUIREMENTS: 120-VOLT, 5 FULL LOAD AMPS
IMB	ICE MAKER BOX: GUY GRAY MODEL # BIM875AB, 20 GAUGE GALVANIZED STEEL BOX, 20 GAUGE STEEL FACEPLATE, BOTTOM INLET WATER SUPPLY WITH 1/2" x 1/4" LEAD FREE COMPRESSION ANGLE STOP VALVE. TRIM: LOOP 4 FEET OF 1/4" TYPE “K” SOFT COPPER TUBING.
JS	JANITOR'S SINK: STERN-WILLIAMS #MTB-2424, 24” x 24” x 10” HIGH SQUARE TERRAZZO BASIN WITH INTEGRAL 3” CAST BRASS DRAIN BODY WITH STAINLESS STEEL DOME STRAINER. FAUCET: CHICAGO FAUCETS #897-CP POLISHED CHROME-PLATED, WALL-MOUNTED, 8 ” CENTERSET FAUCET WITH LEVER HANDLES, QUARTER TURN CERAMIC DISC CARTRIDGES, INTEGRAL SUPPLY STOPS WITH WALL FLANGES, INTEGRAL VACUUM BREAKER, AND RIGID SPOUT WITH 3/4" MALE HOSE THREADED OUTLET, PAIL HOOK, AND WALL BRACE. SECURE FAUCET IN WALL WITH BACKBOARD. TRIM: STERN-WILLIAMS #BP-2-24” 20 GAUGE TYPE 304 STAINLESS STEEL WALL GUARDS WITH TWO PANELS AND ONE CORNER; (2) #V-70-24” EXTRUDED VINYL BUMPER GUARDS; #T-35 THREE FOOT LONG REINFORCED HOSE WITH 3/4” CHROME COUPLING AND WALL HOOK; AND #T-40 24 ” LONG STAINLESS STEEL MOP HANGER WITH THREE RUBBER GRIPS.
LV	LAVATORY (ADA ACCESSIBLE): AMERICAN STANDARD #0356.421 "LUCERNE" WHITE VITREOUS CHINA, 21-1/4" x 18-1/4" RECTANGULAR, WALL-HUNG FIXTURE WITH SINGLE HOLE FAUCET LEDGE AND FRONT OVERFLOW. FAUCET: SLOAN “OPTIMA IQ” #EAF-100-HLT-ISM-CP-0.5GPM-MLM-IR-IQ-FCT POLISHED CHROME-PLATED, LEAD FREE, ELECTRONIC FAUCET, HARDWIRED LESS TRANSFORMER WITH MODULAR ONE-PIECE DESIGN WITH COMPONENTS CONCEALED IN SPOUT HOUSING ABOVE DECK, INTEGRATED SIDE MIXER TEMPERATURE CONTROL, DUAL INFRARED SENSORS FOR AUTOMATIC OPERATION, SOLENOID VALVE, IQ-CLICK ACTIVATION, AND 0.5 GPM MULTI-LAMINAR SPRAY OUTLET. FAUCET SHALL BE POWERED BY TRANSFORMER AS SCHEDULED HEREIN AND SHOWN ON THE DRAWINGS. THERMOSTATIC MIXING VALVE: POWERS #LFG480-00, SOLID LEAD FREE BRASS BODY WITH ROUGH BRONZE FINISH, THERMOSTATIC WAX ELEMENT, CORROSION RESISTANT INTERNAL PARTS, AND INTEGRAL CHECKS, ASSE 1070 COMPLIANT, CAPABLE OF 2.0 GPM WITH A 20 PSI DIFFERENTIAL AND A MINIMUM FLOW RATE OF 0.25 GPM. SET OUTLET TEMPERATURE TO 110°F. MOUNT BELOW THE PLUMBING FIXTURE. TRIM: McGUIRE #155A CHROME-PLATED BRASS GRID DRAIN WITH 1-1/4 ” x 6” 17 GAUGE TAILPIECE WITH OVERFLOW OPENING WITH OVERFLOW OPENING; McGUIRE #B8872CBF ADJUSTABLE 1-1/4 ” P-TRAP AND WASTE ARM, 17 GAUGE TUBULAR POLISHED CHROME-PLATED BRASS WITH CLEANOUT PLUG AND DEEP BOX ESCUTCHEON; (2) McGUIRE #LF2165CCSS12 LEAD FREE BRASS, FULL TURN, WHEEL HANDLE, COMPRESSION ANGLE STOP VALVES WITH ESCUTCHEONS AND 12 ” LONG FLEXIBLE BRAIDED RISERS FROM ANGLE STOPS TO MIXING VALVE, ALL PARTS CHROME-PLATED; (2) McGUIRE #SSLAV12050050 LEAD FREE 12” LONG STAINLESS STEEL FLEXIBLE BRAIDED RISERS FROM MIXING VALVE TO FAUCET; TRUEBRO #102E-Z “LAV GUARD2” WHITE MOLDED VINYL INSULATION KIT FOR P-TRAP, WASTE ARM, AND WATER SUPPLY ANGLE STOPS AND RISERS; AND SUITABLE CONCEALED ARM FIXTURE CARRIER WITH STANCHIONS SECURED TO FLOOR.
SK1	SINK: BOWL WITH OVERFLOW SHALL BE PROVIDED INTEGRAL WITH SOLID SURFACE COUNTERTOP UNDER ANOTHER DIVISION OF WORK. FAUCET: CHICAGO FAUCETS #786-GN2FCXKABCP POLISHED CHROME-PLATED, LEAD FREE, 8 ” CENTERSET FAUCET WITH 4” WRIST BLADE HANDLES, CERAMIC QUARTER TURN CARTRIDGES, AND 5-1/4 ” RIGID GOOSENECK SPOUT WITH PLAIN END OUTLET AND 1.5 GPM LAMINAR FLOW CONTROL INSERT. INSTALL FAUCET AS CLOSE TO BACK EDGE OF BOWL AS PRACTICAL WITHOUT COMPROMISING INTEGRITY OF COUNTERTOP TO ALLOW FLOW STREAM TO HIT NEAR CENTER OF BOWL. THERMOSTATIC MIXING VALVE: POWERS #LFe480-00, SOLID LEAD FREE BRASS BODY WITH ROUGH BRONZE FINISH, THERMOSTATIC WAX ELEMENT, CORROSION RESISTANT INTERNAL PARTS, AND INTEGRAL CHECKS, ASSE 1070 COMPLIANT, CAPABLE OF 2.8 GPM WITH A 20 PSI DIFFERENTIAL AND A MINIMUM FLOW RATE OF 0.5 GPM. SET OUTLET TEMPERATURE TO 120°F. MOUNT BELOW THE PLUMBING FIXTURE. TRIM: McGUIRE #155A2 CHROME-PLATED BRASS GRID DRAIN WITH 1-1/2 ” x 6” 17 GAUGE TAILPIECE; McGUIRE #B8912CBF ADJUSTABLE 1-1/2” P-TRAP AND WASTE ARM, 17 GAUGE TUBULAR POLISHED CHROME-PLATED BRASS WITH CLEANOUT PLUG AND DEEP BOX ESCUTCHEON; (2) McGUIRE #LF2165CCSS12 LEAD FREE BRASS, FULL TURN, WHEEL HANDLE, COMPRESSION ANGLE STOP VALVES WITH ESCUTCHEONS AND 12” LONG FLEXIBLE BRAIDED RISERS FROM ANGLE STOPS TO MIXING VALVE, ALL PARTS CHROME-PLATED; AND (2) McGUIRE #SSLAV12050050 LEAD FREE 12” LONG STAINLESS STEEL FLEXIBLE BRAIDED RISERS FROM MIXING VALVE TO FAUCET.
SK2	SINK: BOWL WITHOUT OVERFLOW SHALL BE PROVIDED INTEGRAL WITH SOLID SURFACE COUNTERTOP UNDER ANOTHER DIVISION OF WORK. FAUCET: CHICAGO FAUCETS #786-GN2FCXKABCP POLISHED CHROME-PLATED, LEAD FREE, 8 ” CENTERSET FAUCET WITH 4” WRIST BLADE HANDLES, CERAMIC QUARTER TURN CARTRIDGES, AND 5-1/4 ” RIGID GOOSENECK SPOUT WITH PLAIN END OUTLET AND 1.5 GPM LAMINAR FLOW CONTROL INSERT. INSTALL FAUCET AS CLOSE TO BACK EDGE OF BOWL AS PRACTICAL WITHOUT COMPROMISING INTEGRITY OF COUNTERTOP TO ALLOW FLOW STREAM TO HIT NEAR CENTER OF BOWL. THERMOSTATIC MIXING VALVE: POWERS #LFe480-00, SOLID LEAD FREE BRASS BODY WITH ROUGH BRONZE FINISH, THERMOSTATIC WAX ELEMENT, CORROSION RESISTANT INTERNAL PARTS, AND INTEGRAL CHECKS, ASSE 1070 COMPLIANT, CAPABLE OF 2.8 GPM WITH A 20 PSI DIFFERENTIAL AND A MINIMUM FLOW RATE OF 0.5 GPM. SET OUTLET TEMPERATURE TO 120°F. MOUNT BELOW THE PLUMBING FIXTURE. TRIM: McGUIRE #151M POLISHED CHROME-PLATED BRASS BASKET STRAINER WITH 1-1/2 ” x 4” 17 GAUGE TAILPIECE; McGUIRE #B8912CBF ADJUSTABLE 1-1/2” P-TRAP AND WASTE ARM, 17 GAUGE TUBULAR POLISHED CHROME-PLATED BRASS WITH CLEANOUT PLUG AND DEEP BOX ESCUTCHEON; (2) McGUIRE #LF2165CCSS12 LEAD FREE BRASS, FULL TURN, WHEEL HANDLE, COMPRESSION ANGLE STOP VALVES WITH ESCUTCHEONS AND 12 ” LONG FLEXIBLE BRAIDED RISERS FROM ANGLE STOPS TO MIXING VALVE, ALL PARTS CHROME-PLATED; AND (2) McGUIRE #SSLAV12050050 LEAD FREE 12” LONG STAINLESS STEEL FLEXIBLE BRAIDED RISERS FROM MIXING VALVE TO FAUCET.
WC	WATER CLOSET (ADA ACCESSIBLE): AMERICAN STANDARD #3043.001 “MADERA FLOWISE” WHITE VITREOUS CHINA, FLOOR-MOUNTED FIXTURE WITH ELONGATED UNIVERSAL BOWL, 1-1/2” TOP SPUD, 16-1/2” RIM HEIGHT, AND DIRECT-FED SIPHON JET ACTION MEETING PERFORMANCE FOR HIGH EFFICIENCY TOILET (HET). VALVE: SLOAN "G2 OPTIMA PLUS" #8111-1.28 HIGH EFFICIENCY, 1.28 GALLONS PER FLUSH, EXPOSED, POLISHED CHROME-PLATED, BATTERY POWERED, SENSOR OPERATED, DIAPHRAGM TYPE FLUSH VALVE WITH CHLORAMINE RESISTANT DIAPHRAGM AND PROTECTED ORIFICE, TOP MOUNTED HOUSING WITH PLASTIC LENS WINDOW, COURTESY FLUSH OVERRIDE BUTTON, ESCUTCHEON, INTEGRAL SCREWDRIVER STOP WITH VANDAL RESISTANT CAP, VACUUM BREAKER, AND SWEAT SOLDER ADAPTER KIT. TRIM: CHURCH #9500SSCT WHITE OPEN-FRONT CONTOURED, SOLID PLASTIC, ELONGATED, HEAVY DUTY SEAT LESS COVER WITH SELF-SUSTAINING CHECK HINGES AND STAINLESS STEEL BOLTS.
WHA	WATER HAMMER ARRESTER: SIOUX CHIEF #650-S SERIES “HYDRA-RESTER”, HARD DRAWN COPPER BODY WITH MALE SWEAT FITTING, PISTON TYPE WITH DUAL LUBRICATED EPDM “O” RING SEALS, AND ASSE 1010 CERTIFICATION. PROVIDE PDI SIZE “A”, UNLESS SHOWN OTHERWISE ON THE PLANS. SIZE "AA" ARRESTERS ARE NOT ALLOWED.

RELEASED FOR CONSTRUCTION
~~As Noted on Plans Review~~
Development Services Department
Lee's Summit, Missouri
04/17/2025

BRADLEY E. CHAMBON
NUMBER PE-028603

04/07/2025
BRADLEY E. CHAMBON
LICENSE # 028603

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SUMMIT GI ADDITION
SAINT LUKE'S EAST
100 NE SAINT LUKE'S BLVD.
LEE'S SUMMIT MO 64086

Date 04/07/25
Job Number 3-24100
Drawn By HEI
Checked By HEI

Revision

Number	Date	Description

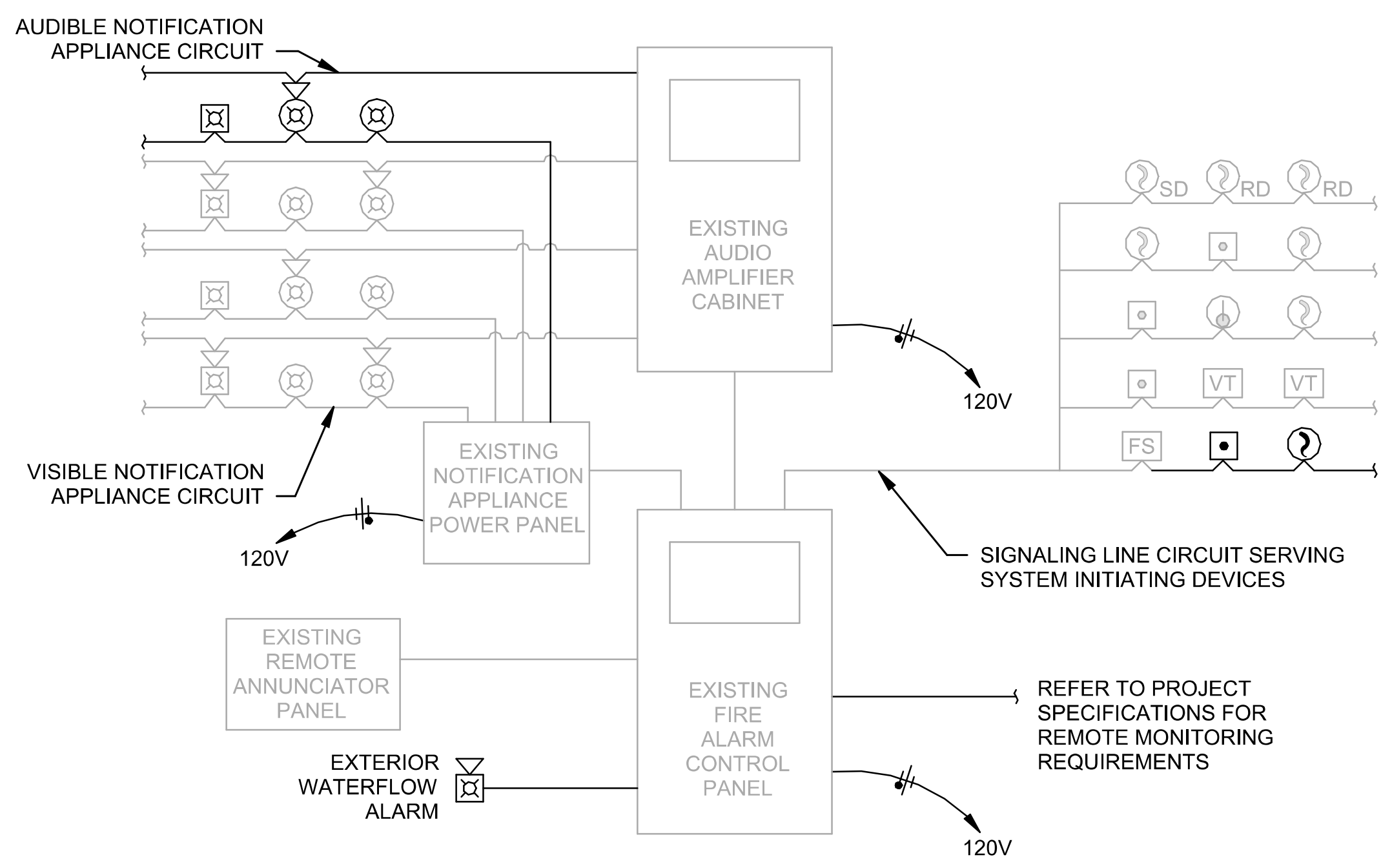
P700

PLUMBING SCHEDULES & DETAILS

Autodesk Docs://3-24100 SLE Summit GI/2450004866 SLEH - Summit GI Second Floor - Lees Summit MO MEP v24.rvt

BRADLEY E. CHAMBON

4/7/2025 10:10:16 AM
Autodesk Docs://3-24100 SLE Summit GI/2450004866 SLEH - Summit GI Second Floor - Lees Summit MO MEP v24.rvt
MARK P. CHRISMAN


AUDIBLE NOTIFICATION APPLIANCE CIRCUIT
VISIBLE NOTIFICATION APPLIANCE CIRCUIT
120V
EXISTING AUDIO AMPLIFIER CABINET
EXISTING NOTIFICATION APPLIANCE POWER PANEL
120V
SD
RD
RD
VT
VT
FS
SIGNALING LINE CIRCUIT SERVING SYSTEM INITIATING DEVICES
EXISTING REMOTE ANNUNCIATOR PANEL
EXISTING FIRE ALARM CONTROL PANEL
EXTERIOR WATERFLOW ALARM
REFER TO PROJECT SPECIFICATIONS FOR REMOTE MONITORING REQUIREMENTS
120V

RISER DIAGRAM IS SCHEMATIC IN NATURE. NOT ALL DEVICES ARE SHOWN. REFER TO PLANS FOR EQUIPMENT QUANTITIES AND LOCATIONS.

DUCT DETECTORS MAY HAVE INTEGRAL RELAYS FOR AIR HANDLING UNIT SHUT-DOWN AND FIRE/SMOKE DAMPER CONTROL. WIRING FOR THIS FUNCTION HAS NOT BEEN SHOWN. COORDINATE WITH MECHANICAL SYSTEM INSTALLER.

REFER TO PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

② FIRE ALARM RISER DIAGRAM - ADDRESSABLE SYSTEM (VOICE)
NTS

	PRIORITY			SYSTEM OUTPUTS											
SYSTEM INPUTS	ALARM	SUPERVISORY	TROUBLE	REPORT TO FIRE ALARM CONTROL PANEL	SIGNAL SUPERVISING STATION	ACTIVATE GENERAL FIRE ALARM AUDIBLE/VISIBLE NOTIFICATION APPLIANCES	ACTIVATE FDC NOTIFICATION APPLIANCE	SHUTDOWN INDIVIDUAL FAN POWERED MECHANICAL AIR HANDLING EQUIPMENT AND DAMPER(S)	SHUTDOWN ALL FAN POWERED MECHANICAL AIR HANDLING EQUIPMENT FOR AFFECTED HVAC SYSTEM	SHUTDOWN ALL FAN POWERED MECHANICAL AIR HANDLING EQUIPMENT	CLOSE ASSOCIATED SMOKE DAMPER	SHUTDOWN TENANT AUDIO / VIDEO SYSTEM(S) IN COMMON AREAS			INITIATE ELEVATOR RECALL TO ALTERNATE FLOOR
SIGNALING LINE OR NOTIFICATION APPLIANCE CIRCUIT - OPEN			●	●	●										
SIGNALING LINE OR NOTIFICATION APPLIANCE CIRCUIT - SHORT			●	●	●										
SIGNALING LINE OR NOTIFICATION APPLIANCE CIRCUIT - GROUND			●	●	●										
FIRE ALARM CONTROL PANEL LOSS OF POWER			●		●										
MANUAL PULL STATION	●			●	●	●				●		●			
SMOKE DETECTOR - SPOT TYPE	●			●	●	●				●	●	●			
WATERFLOW ALARM SWITCH	●			●	●	●	●			●		●			
VALVE TAMPER SWITCH		●		●	●										
SMOKE DETECTOR - ELEVATOR LOBBY - PRIMARY FLOOR	●			●	●	●				●		●			●

CONTRACTOR TO PROVIDE ALL NECESSARY EQUIPMENT AND CONNECTIONS REQUIRED TO ACCOMPLISH THE FUNCTIONS INDICATED, AT MINIMUM.

SEQUENCE OF OPERATIONS INDICATED IS SCHEMATIC. MODIFY TO SUIT CONDITIONS AND MEET APPLICABLE CODE REQUIREMENTS.

① FIRE ALARM SEQUENCE OF OPERATIONS
NTS

FIRE PROTECTION GENERAL NOTES:

1. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SLH MASTER SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
2. SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS. SYSTEM SHALL ALSO MEET ALL APPLICABLE BUILDING CODES, FIRE CODES AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER. VERIFY REQUIREMENTS PRIOR TO BID SUBMITTAL.
3. INFORMATION ON CONTRACT DOCUMENTS IS GENERAL INFORMATION AND FOR BID PURPOSES ONLY. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE FINAL SYSTEM DESIGN AND LAYOUT OF ALL COMPONENTS, COORDINATION WITH ALL OTHER TRADES, AND SYSTEM CALCULATIONS REQUIRED FOR APPROVAL BY THE AUTHORITY HAVING JURISDICTION, ENGINEER, AND OWNER’S INSURER.
4. THE CONTRACTOR SHALL FOLLOW THE ENGINEER OF RECORD’S SYSTEM DESIGN AND LAYOUT OF ALL COMPONENTS EXCEPT WHERE MODIFICATION TO THE DESIGN IS NECESSARY. MODIFICATIONS SHALL BE REFLECTED IN THE CONTRACTOR’S SHOP DRAWINGS AND CALCULATIONS.
5. DEVIATIONS FROM ENGINEER’S DESIGN WILL NOT BE CONSIDERED UNLESS A FORMALLY SUBMITTED RFI IS RECEIVED AND APPROVED.
6. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND LABOR REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM AS INDICATED IN THE DRAWINGS AND SPECIFICATIONS.
7. WHERE EXISTING SYSTEMS ARE PRESENT, CONTRACTOR SHALL MODIFY, RELOCATE AND/OR PROVIDE ADDITIONAL EQUIPMENT AS REQUIRED FOR SCOPE OF WORK AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. COORDINATE WITH WALLS, CEILINGS, LIGHTS, DIFFUSERS, STRUCTURE, OBSTRUCTIONS, ETC. IN AREAS AFFECTED BY SCOPE OF WORK. NEW EQUIPMENT SHALL BE COMPATIBLE WITH EXISTING SYSTEMS. CONTRACTOR SHALL REMOVE ALL ABANDONED EQUIPMENT, COORDINATE SYSTEM MODIFICATIONS TO MINIMIZE SYSTEM IMPAIRMENT, AND PROVIDE FIRE WATCH AND/OR INTERIM FIRE PROTECTION MEASURES WHERE REQUIRED BY THE AUTHORITY HAVING JURISDICTION, INSURANCE CARRIER OR OWNER.
8. PROVIDE ADDITIONAL MATERIALS AND LABOR REQUIRED DUE TO LACK OF COORDINATION OR TO MEET AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.
9. FORWARD COMPLETED CERTIFICATE OF COMPLETION AND CONTRACTOR MATERIAL TEST CERTIFICATES TO THE OWNER.
10. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

FIRE PROTECTION GENERAL DEMOLITION NOTES:

1. COORDINATE ALL DEMOLITION WITH WHAT IS SHOWN ON ARCHITECTURAL PLANS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
2. COORDINATE NEW WORK AND DEMOLITION WITH OTHER DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
3. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW GENERAL NOTES, SLH MASTER SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER OR OWNER, AS DEFINED IN BID DOCUMENTS, OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID. ADDITIONAL COMPENSATION WILL NOT BE PAID FOR LACK OF SUCH DETERMINATION, FAMILIARIZATION, AND/OR ALLOWANCE.
4. EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT EXACT “AS-BUILT” CONDITIONS. FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. COORDINATE NEW WORK AND DEMOLITION WITH OTHER DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
5. OWNER RETAINS RIGHTS OF SALVAGE FOR EQUIPMENT AND FIXTURES TO BE REMOVED. COORDINATE WITH THE OWNER THE EQUIPMENT AND FIXTURES TO BE SALVAGED AND THE LOCATION FOR STORAGE. AVOID DAMAGE TO EQUIPMENT DURING DEMOLITION WORK AND DURING TRANSPORT TO OWNER’S DESIGNATED STORAGE LOCATION. PROPERLY DISPOSE OF MATERIALS THAT ARE REMOVED AND ARE NOT REQUESTED TO BE SALVAGED BY THE OWNER.
6. REMOVE ITEMS SHOWN HEAVY LINED AND/OR CROSSHATCHED AND/OR NOTED TO BE REMOVED.
7. EQUIPMENT TO BE REMOVED SHALL BE KEPT FOR REINSTALLATION DURING THE CONSTRUCTION PHASE WHEN POSSIBLE AND/OR INDICATED ON THE DRAWINGS. AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN FOR NEW INSTALLATION. REPAIR ANY DAMAGE CAUSED DURING WORK AT NO EXTRA COST TO THE OWNER.
8. SEAL PENETRATIONS THROUGH FLOORS, WALLS, CEILINGS AND ROOFS WHERE COMPONENTS ARE REMOVED AND WHERE THE EXISTING PENETRATION IS NOT USED FOR THE NEW INSTALLATION. REPAIR DAMAGED SURFACES TO MATCH ADJACENT AREAS OR AS INDICATED ON THE ARCHITECTURAL DRAWINGS.
9. PERFORM ALL WORK ACCORDING TO THE PHASING SCHEDULE FOR THIS PROJECT. PROVIDE ALL TEMPORARY DESIGN AND/OR CONFIGURATIONS THAT MEET APPLICABLE CODE REQUIREMENTS AS NECESSARY TO CONFORM TO THE REQUIRED CONSTRUCTION PHASING OF THE PROJECT.
10. ONLY THE PORTIONS OF THE BUILDING AFFECTED BY THE SCOPE OF THE PROJECT HAVE BEEN SHOWN. INFORMATION SHOWN AS EXISTING TO REMAIN IS NOT BEING MODIFIED AS A PART OF THIS PROJECT.
11. ALL WORK SHALL BE PERFORMED SO AS TO NOT INTERRUPT SERVICE. THE CONTRACTOR SHALL PROPERLY NOTIFY THE BUILDING OWNER, LANDLORD, THE LEASER AND ADJACENT TENANTS AS APPLICABLE A MINIMUM OF 48 HOURS IN ADVANCE BEFORE PROCEEDING WITH THIS WORK.
12. REMOVE ALL UNUSED AND DEMOLISHED EQUIPMENT AND ASSOCIATED MATERIALS FROM SITE. ABANDONING UNUSED PORTIONS WILL NOT BE ACCEPTABLE.
13. SYSTEM(S) NOT ASSOCIATED WITH THE DEMOLITION SHALL BE LEFT IN SERVICE AS APPLICABLE.
14. INSPECT EXISTING EQUIPMENT TO REMAIN TO VERIFY THAT EQUIPMENT IS OPERATING PROPERLY. NOTIFY OWNER OF DAMAGED AND/OR MALFUNCTIONING COMPONENTS.
15. ALL SYSTEMS TO BE LEFT IN SERVICE PRIOR TO THE END OF EACH WORKDAY.

WATER SUPPLY INFORMATION:

WATER SUPPLY INFORMATION IS NOT AVAILABLE AT THIS TIME. CONTRACTOR SHALL SUBMIT RFI OR OBTAIN CURRENT WATER SUPPLY INFORMATION IN ACCORDANCE WITH NFPA 291 PRIOR TO BID SUBMITTAL.

FIRE PROTECTION SYMBOLS

THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	NIC	NOT IN CONTRACT
AFG	ABOVE FINISHED GRADE	OC	ON CENTER
CD	CANDELA	PIV	POST INDICATOR VALVE
DI	DUCTILE IRON	PROVIDE	FURNISH AND INSTALL
ESFR	EARLY SUPPRESSION FAST RESPONSE	PRV	PRESSURE REDUCING VALVE
ETR	EXISTING TO REMAIN	RD	RETURN DUCT
FHC	FIRE HOSE CABINET	REV	REVISION
FP	FIRE PROTECTION	SD	SUPPLY DUCT
GC	CONTRACTOR	SF	SQUARE FEET
GPM	GALLONS PER MINUTE	TYP	TYPICAL
JB/J-BOX	JUNCTION BOX	UNO	UNLESS NOTES OTHERWISE
MAX	MAXIMUM	V	VOLT(S)
MIN	MINIMUM	W	WATTS
N/A	NOT APPLICABLE	WP	WEATHERPROOF

ANNOTATION

⬡ 1	FIRE PROTECTION PLAN NOTE CALLOUT
◕	CONNECTION POINT OF NEW WORK TO EXISTING
1 / F1	DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER
1 / F1	SECTION CUT DESIGNATION
▩	DEDICATED EQUIPMENT ACCESS TILE
⊠	ACCESS PANEL

FIRE SPRINKLERS

○	UPRIGHT SPRINKLER
⊙	PENDENT SPRINKLER
●	CONCEALED SPRINKLER
◓	DRY PENDENT SPRINKLER
▽	DRY SIDEWALL SPRINKLER
▼	SIDEWALL SPRINKLER

FIRE SPRINKLER PIPING

FP	FIRE PROTECTION (FP)
⋈	SHUTOFF VALVE
	CHECK VALVE
	BACKFLOW PREVENTER
	CAP
	ELBOW UP
	ELBOW DOWN
	TEE UP
	TEE DOWN
	FIRE DEPARTMENT CONNECTION
	FIRE PUMP TEST HEADER
	INSPECTOR'S TEST CONNECTION / AUXILIARY DRAIN
⊗	SPRINKLER RISER
	TOP BEAM CLAMP
	TRAPEZE HANGER

STANDARD MOUNTING HEIGHTS

AUDIBLE APPLIANCE (TOP OF APPLIANCE)	90"
FIRE ALARM ANNUNCIATOR PANEL (TOP OF DISPLAY)	60"
FIRE ALARM BELL (EXTERIOR) (CENTERLINE)	120"
FIRE ALARM CONTROL PANEL/UNIT (TOP OF DISPLAY)	60"
PULL STATION (TOP OF DEVICE)	46"
VISIBLE APPLIANCE (CENTERLINE)	84"

INSTALL DEVICES AT THE MOUNTING HEIGHTS SHOWN ABOVE UNO IN THE CONSTRUCTION DOCUMENTS. MOUNTING HEIGHTS LISTED ABOVE, OR ELSEWHERE IN THE CONSTRUCTION DOCUMENTS, ARE AFF OR AFG TO TOP OF DEVICE, UNO. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.

FIRE ALARM

FACP	FIRE ALARM CONTROL PANEL/UNIT
FACP	RECESSED FIRE ALARM CONTROL PANEL/UNIT
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FAAP	RECESSED FIRE ALARM ANNUNCIATOR PANEL
AMP	AMPLIFIER PANEL
RPS	REMOTE POWER SUPPLY
RT	REMOTE TEST STATION WITH INDICATING LIGHT
RL	REMOTE INDICATING LIGHT
PS	PRESSURE SWITCH LOW/HIGH
FS	WATERFLOW ALARM SWITCH
VT	CONTROL VALVE TAMPER SWITCH
DH	MAGNETIC DOOR HOLD OPEN DEVICE
CM	CONTROL MODULE
MM	MONITOR MODULE
K	FIRE DEPARTMENT KEY BOX
⊡	PULL STATION
▼F	FIREFIGHTER'S PHONE JACK
	HEAT DETECTOR (E INDICATES ELEVATOR RECALL)
	SMOKE DETECTOR (E INDICATES ELEVATOR RECALL)
	SINGLE STATION SMOKE DETECTOR
	PROJECTED BEAM SMOKE DETECTOR
RD	DUCT MOUNTED SMOKE DETECTOR (SD=SUPPLY/RD=RETURN)
CO	CARBON MONOXIDE DETECTOR
☎	AREA OF REFUGE 2-WAY COMMUNICATION SYSTEM
F #W	WALL MOUNTED AUDIBLE NOTIFICATION APPLIANCE #W INDICATES WATTAGE (VOICE EVACUATION SYSTEMS ONLY)
##	WALL MOUNTED VISIBLE NOTIFICATION APPLIANCE ## INDICATES CANDELA
#W ##	WALL MOUNTED AUDIBLE/VISIBLE NOTIFICATION APPLIANCE ## INDICATES CANDELA #W INDICATES WATTAGE (VOICE EVACUATION SYSTEMS ONLY)
F #W	CEILING MOUNTED AUDIBLE NOTIFICATION APPLIANCE #W INDICATES WATTAGE (VOICE EVACUATION SYSTEMS ONLY)
##	CEILING MOUNTED VISIBLE NOTIFICATION APPLIANCE ## INDICATES CANDELA
#W ##	CEILING MOUNTED AUDIBLE/VISIBLE NOTIFICATION APPLIANCE ## INDICATES CANDELA #W INDICATES WATTAGE (VOICE EVACUATION SYSTEMS ONLY)
	END OF LINE RESISTOR
	ABORT SWITCH
	BELL

HATCHING LEGEND

ENLARGED PLAN	▨
NOT IN SCOPE (NIS)	▨

LINETYPE LEGEND

THROUGHOUT THE DRAWINGS DIFFERENT LINETYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF NEW WORK AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASES DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC.

EXISTING	─────	NEW	━━━━━
DEMOLISH	— — — — —	FUTURE	- - - - - - - -

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
04/17/2025

MARK P. CHRISMAN
NUMBER PE-2018036637

04/07/2025
MARK P. CHRISMAN
LICENSE # PE-2018036637

ACI
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ACI/Boland, Inc.
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2450004866
MO. CORPORATE NO: E-556D
EXPIRES 10/31/2025

SUMMIT GI ADDITION
SAINT LUKE'S EAST
100 NE SAINT LUKE'S BLVD.
LEE'S SUMMIT MO 64086

Date	04/07/25
Job Number	3-24100
Drawn By	CBW
Checked By	CJM

Revision

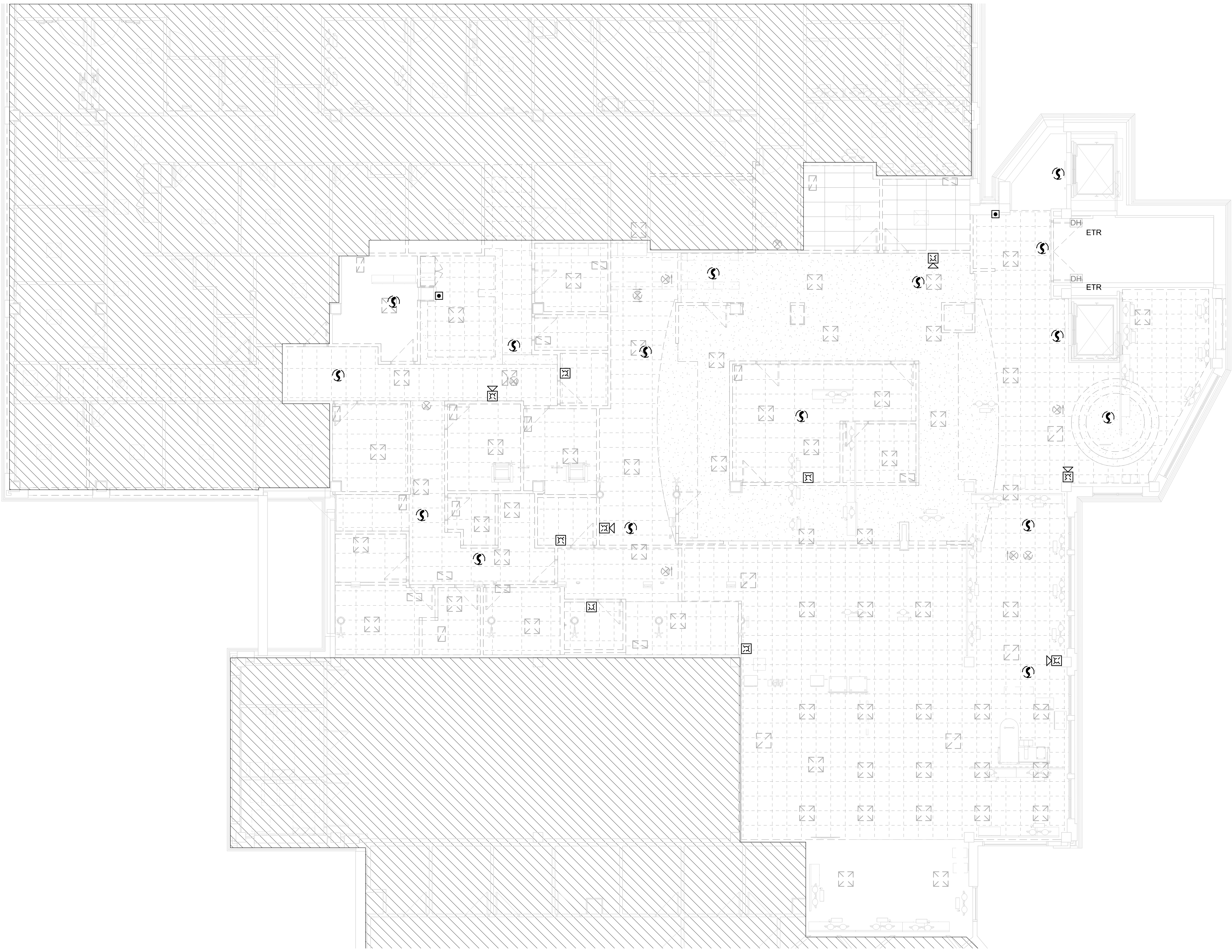
Number	Date	Description

FP000

FIRE PROTECTION GENERAL NOTES AND LEGEND

RELEASED FOR CONSTRUCTION
~~As Noted on Plans Review~~
Development Services Department
Lee's Summit, Missouri
04/17/2025

FIRE PROTECTION DEMOLITION PLAN NOTES:



① FIRE PROTECTION DEMOLITION PLAN
1/8" = 1'-0"

0 4' 8' 12'
SCALE: 1/8"=1'-0"

MARK P. CHRISMAN
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FPD101

FIRE PROTECTION DEMOLITION RCP

4/7/2025 10:10:21 AM

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Development Services Department
Lee's Summit, Missouri
04/17/2025

⬡ FIRE PROTECTION PLAN NOTES:

1 MODIFY EXISTING FIRE SPRINKLER SYSTEM, RELOCATE AND/OR PROVIDE ADDITIONAL SPRINKLERS AND PIPING AS REQUIRED FOR THE SCOPE OF WORK FOR A COMPLETE AND OPERATIONAL SPRINKLER SYSTEM AND TO MEET NFPA 13 REQUIREMENTS. REFER TO FIRE SPRINKLER NOTES, DETAILS, AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

2 EXISTING SPRINKLERS IN AREAS OUTSIDE OF SCOPE OF WORK ARE EXISTING TO REMAIN AND SHALL BE PROTECTED FROM DAMAGE AND REMAIN OPERATIONAL AT THE END OF EACH DAY.

3 EXISTING FIRE ALARM NOTIFICATION APPLIANCES IN AREAS OUTSIDE OF SCOPE OF WORK ARE EXISTING TO REMAIN AND SHALL BE PROTECTED FROM DAMAGE AND REMAIN OPERATIONAL AT THE END OF EACH DAY.

4 PROVIDE EQUIPMENT AND CONNECTION(S) REQUIRED FOR ELEVATOR RECALL AND/OR SHUTDOWN. REFER TO SEQUENCE OF OPERATION FOR ADDITIONAL INFORMATION.

5 DO NOT ROUTE SPRINKLER PIPING ABOVE ELECTRICAL DISTRIBUTION EQUIPMENT.

6 PROVIDE SMOKE DETECTOR FOR DOOR RELEASE IN ACCORDANCE WITH NFPA 72.

7 EXISTING DOOR HOLDERS TO REMAIN. VERIFY IN GOOD WORKING CONDITION AND REPLACE IF NECESSARY. DOOR HOLDERS SHALL RELEASE UPON ALARM SIGNAL FROM THE FIRE ALARM CONTROL PANEL.

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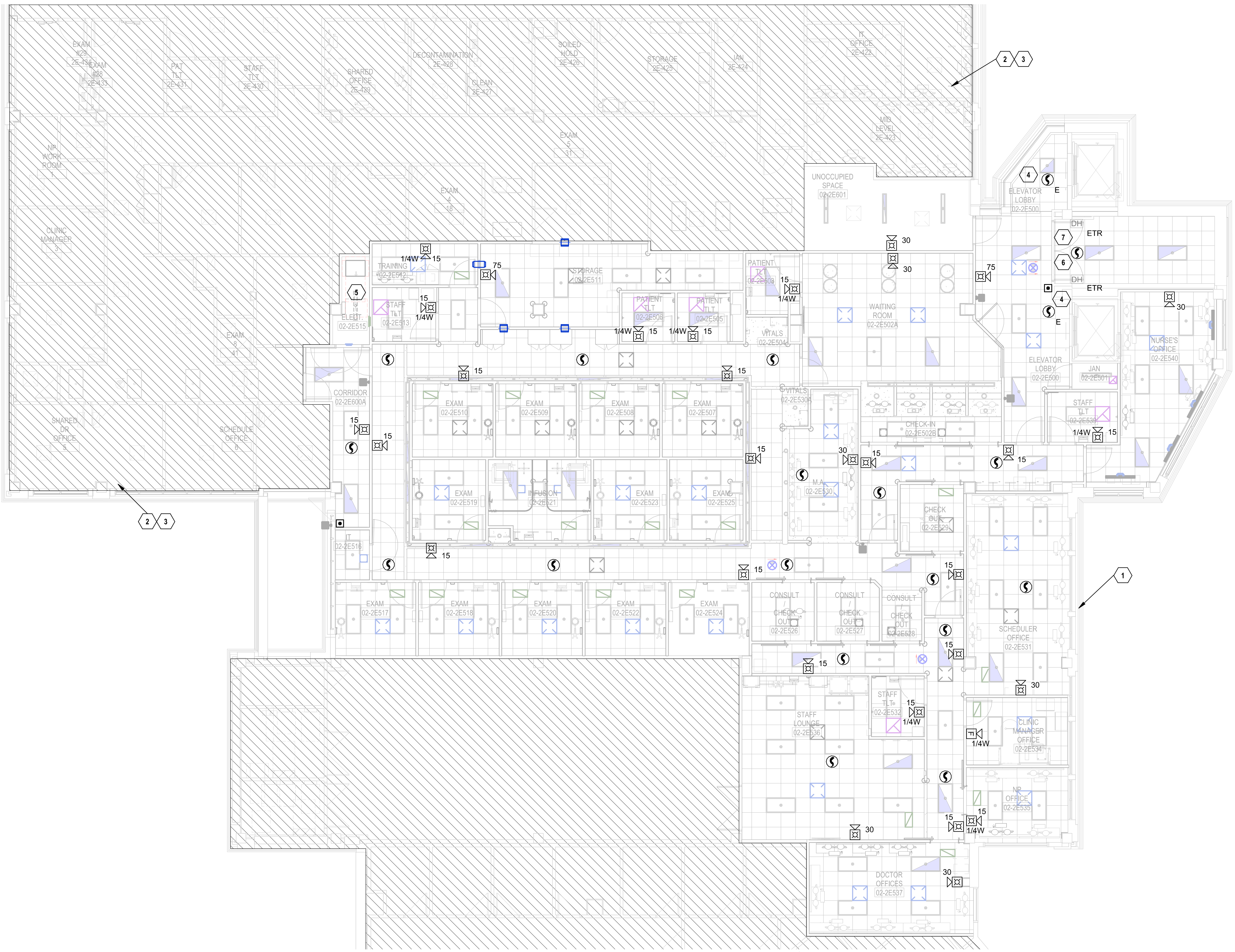

2 3
1
4
E
7
ETR
6
ETR
5
UNOCCUPIED SPACE 02-2E601
WAITING ROOM 02-2E502A
ELEVATOR LOBBY 02-2E500
ELEVATOR LOBBY 02-2E600
TRAINING 02-2E502
STORAGE 02-2E511
PATIENT TLT 02-2E503
PATIENT TLT 02-2E504
VITALS 02-2E504
CORRIDOR 02-2E600A
EXAM 02-2E510
EXAM 02-2E509
EXAM 02-2E508
EXAM 02-2E507
EXAM 02-2E519
EXAM 02-2E523
EXAM 02-2E525
EXAM 02-2E517
EXAM 02-2E518
EXAM 02-2E520
EXAM 02-2E522
EXAM 02-2E524
CHECK-IN 02-2E502B
NURSE'S OFFICE 02-2E540
STAFF TLT
SCHEDULER OFFICE 02-2E531
CONSULT
CLINIC MANAGER OFFICE
STAFF LOUNGE
DOCTOR OFFICES 02-2E537
IT 02-2E516
15
30
75
1/4W

① FIRE PROTECTION PLAN
1/8" = 1'-0"

0 4' 8' 12'
SCALE: 1/8"=1'-0"

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FP101

FIRE PROTECTION RCP

Autodesk Docs://3-24100 SLE Summit GI/2450004866 SLEH - Summit GI Second Floor - Lees Summit MO MEP v24.rvt

ELECTRICAL SYMBOLS

THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED.

V4.03

STANDARD MOUNTING HEIGHTS

AUDIBLE APPLIANCE (CENTERLINE)	84"
ALARM (TOP OF DEVICE)	46"
ANNUNCIATOR PANEL (TOP OF DISPLAY)	60"
CONTROLS (TOP OF DEVICE)	46"
DATA WALL OUTLET	SAME AS ADJACENT DEVICE, UNO
EXIT SIGN (WALL MOUNTED)	92"
FIRE ALARM ANNUNCIATOR PANEL (TOP OF DISPLAY)	60"
FIRE ALARM BELL (EXTERIOR) (CENTERLINE)	120"
FIRE ALARM CONTROL PANEL/UNIT (TOP OF DISPLAY)	60"
INTERCOM (TOP OF DEVICE)	46"
PULL STATION (TOP OF DEVICE)	46"
RECEPTACLE (BOTTOM OF DEVICE)	16"
RECEPTACLE (ABOVE COUNTER)	+6" ABOVE BACKSPLASH/COUNTER, 40" MAX
RECEPTACLE (CLOCK) (CENTERLINE)	84"
RECEPTACLE (EQUIPMENT ROOMS) (TOP OF DEVICE)	46"
RECEPTACLE (EXTERIOR)	24"
RECEPTACLE (GARAGES)	24"
REMOTE INDICATING LIGHT (EQUIPMENT ROOMS) (TOP OF DEVICE)	46"
REMOTE INDICATING LIGHT (FINISHED AREAS)	CEILING
SAFETY SWITCH (TOP OF DEVICE)	46"
STARTER (TOP OF DEVICE)	46"
SWITCH (TOP OF DEVICE)	46"
TELEPHONE WALL OUTLET (TOP OF DEVICE)	46"
TELECOMMUNICATIONS BACKBOARD	6"
TELEVISION OUTLET	REFER TO DRAWINGS
VISIBLE APPLIANCE (CENTERLINE)	84"

INSTALL DEVICES/OUTLET BOXES AT THE MOUNTING HEIGHTS SHOWN ABOVE UNO IN THE CONSTRUCTION DOCUMENTS. MOUNTING HEIGHTS LISTED ABOVE, OR ELSEWHERE IN THE CONSTRUCTION DOCUMENTS, ARE AFF OR AFG TO BOTTOM OF DEVICE, UNO. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.

ABBREVIATIONS

AF	AMPERE FUSE SIZE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AS	AMPERE SWITCH SIZE
AT	AMPERE TRIP SETTING
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
BAS	BUILDING AUTOMATION SYSTEM
BESS	BATTERY ENERGY STORAGE SYSTEM
BKR	BREAKER
C	CONDUIT
CAT	CATEGORY
CATV	CABLE TELEVISION SYSTEM
CCTV	CLOSED CIRCUIT TELEVISION
CD	CANDELA
CKT	CIRCUIT
CODE	APPLICABLE CODE ADOPTED BY JURISDICTION
CT	CURRENT TRANSFORMER
CTR	CENTER
CTRL	CONTROL/CONTROLLED
CVD	CUMULATIVE VOLTAGE DROP
D/DEMO	DEMOLITION
DPDT	DOUBLE-POLE, DOUBLE-THROW
DPST	DOUBLE-POLE, SINGLE-THROW
E/ETR/EX	EXISTING TO REMAIN
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EM	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
ELV	ELECTRONIC LOW-VOLTAGE
ERMS	ENERGY-REDUCING MAINTENANCE SWITCH
EV	ELECTRIC VEHICLE
EWC	ELECTRIC WATER COOLER
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FCA	FAULT CURRENT AMPS AVAILABLE
FCU	FAN COIL UNIT
FF	FINISHED FLOOR
FLA	FULL LOAD AMPS
FLR	FLOOR
GC	GENERAL CONTRACTOR
GEC	GROUNDING ELECTRODE CONDUCTOR
GES	GROUNDING ELECTRODE SYSTEM
GFR	GROUND FAULT RELAY
G	GROUND
IG	ISOLATED GROUND
ISC	SHORT CIRCUIT CURRENT
JB/J-BOX	JUNCTION BOX
LF	LINEAR FEET
LRA	LOCKED ROTOR AMPS
LTG/LTS	LIGHTING/LIGHTS
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MFR	MANUFACTURER
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MLV	MAGNETIC LOW-VOLTAGE
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NIS	NOT IN SCOPE
NF	NON-FUSED
NL	NIGHT LIGHT (24HR ON)
NRTL	NATIONALLY RECOGNIZED TESTING LABORATORY (CSA, ETL, NSF, UL)
NTS	NOT TO SCALE
OS	OCCUPANCY SENSOR
P	POLE
PART	PARTIAL CIRCUIT
PH/Ø	PHASE
PNL	PANEL
PNLBD	PANELBOARD
PROVIDE	FURNISH AND INSTALL
PT	POTENTIAL TRANSFORMER
PV	PHOTOVOLTAIC
QTY	QUANTITY
R/REL	RELOCATE
RCPT	RECEPTACLE
RLA	RUNNING LOAD AMPS
RTU	ROOFTOP UNIT
SCCR	SHORT-CIRCUIT CURRENT RATING
SD	SMOKE DUCT DETECTOR
SF	SQUARE FEET
SPDT	SINGLE-POLE, DOUBLE-THROW
SPST	SINGLE-POLE, SINGLE-THROW
SSBJ	SUPPLY-SIDE BONDING JUMPER
ST	SHUNT TRIP
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TBD	TO BE DETERMINED
TGB	TELECOMMUNICATIONS GROUND BUS BAR
TL	TWISTLOCK
TMGB	TELECOMMUNICATIONS MAIN GROUND BUS BAR
TX/XFMR	TRANSFORMER
TYP	TYPICAL
U/F	UNDERFLOOR
U/G	UNDERGROUND
U/S	UNDERSLAB
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
VD	VOLTAGE DROP
VFD	VARIABLE FREQUENCY DRIVE
VS	VACANCY SENSOR
W	WIRE
W/	WITH
WP	WEATHER PROOF
WR	WEATHER RESISTANT
WT	WATERTIGHT
XP	EXPLOSION PROOF

LINETYPE LEGEND

THROUGHOUT THE DRAWINGS DIFFERENT LINETYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF NEW WORK AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASES DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC.

EXISTING	———
DEMOLISH	— — — —
NEW	━━━
FUTURE	- - - - - - - -
ARTICLE 700 OR LIFE SAFETY*	🟥
ARTICLE 701 OR CRITICAL / EQUIPMENT BRANCH*	🟫
ARTICLE 702 OR OPTIONAL*	🟪

* APPLIES TO COLOR PLOTS ONLY

ANNOTATION

XX###	PLAN NOTE CALLOUT
1	MECHANICAL OR FIRE PROTECTION PLAN NOTE CALLOUT
1	PLUMBING PLAN NOTE CALLOUT
1	ELECTRICAL OR FIRE ALARM PLAN NOTE CALLOUT
1	TECHNOLOGY PLAN NOTE CALLOUT
1	PLUMBING EQUIPMENT DESIGNATION. (CONTRACTOR FURNISHED AND INSTALLED, UNO). REFER TO PLUMBING FIXTURE OR EQUIPMENT SCHEDULES
1	EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED, UNO)
CU 1	MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED, UNO)
	CONNECTION POINT OF NEW WORK TO EXISTING
1 E1	DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER
1 E1	SECTION CUT DESIGNATION
▨	DEDICATED EQUIPMENT ACCESS TILE
	ACCESS PANEL

CIRCUITING & WIRING

7 5 3 OR [R#] P1 P1-3,5,7	HOMERUN TO PANELBOARD. INFORMATION AT ARROWS ARE CIRCUIT NUMBERS AND PANELBOARD FOR TERMINATION. REFER TO PANELBOARD SCHEDULES FOR BRANCH CIRCUIT CONDUCTOR SIZES. INDICATES RELAY NUMBER
	CIRCUIT CONTINUATION OR PARTIAL CIRCUIT
	CONDUIT CONCEALED
EM	CONDUIT CONCEALED (EMERGENCY)
	CONDUIT IN/UNDER FLOOR/GROUND CONSTRUCTION
	EXPOSED CONDUIT
EM	EXPOSED CONDUIT (EMERGENCY)
	FLEXIBLE CONDUIT
	LOW VOLTAGE CABLE (NOT ROUTED IN CONDUIT)
	CONDUIT TURNING DOWN
	CONDUIT TURNING UP
	CONNECTION POINT OR EQUIPMENT TERMINATION
	EQUIPMENT TERMINATION

CONDUCTOR TICK MARK LEGEND

WHERE TICK MARKS ARE SHOWN, THE FOLLOWING SHALL GOVERN:

- SWITCHED HOT (PHASE) CONDUCTORS (SHOWN TRAILING NEUTRAL)
- NEUTRAL (GROUNDED) CONDUCTOR
- UNSWITCHED HOT (PHASE) CONDUCTORS (SHOWN LEADING NEUTRAL)
- NOTE: HASH MARKS INDICATE QUANTITY OF CONDUCTORS
- EQUIPMENT GROUNDING CONDUCTOR IN CONDUIT (GREEN INSULATION OR BARE)
- ISOLATED GROUNDING CONDUCTOR IN CONDUIT (GREEN INSULATION WITH YELLOW TRACER)

BRANCH CIRCUIT CONDUCTOR TABLE

WHERE TICK MARKS ARE NOT SHOWN, THE FOLLOWING SHALL GOVERN:

# OF POLES	HOT (PHASE)*	NEUTRAL (GROUNDED)**	GROUNDING***
1P	(1)	(1) UNO	(1)
2P	(2)	(1) UNO	(1)
3P	(3)	(1) UNO	(1)

* PROVIDE ADDITIONAL CONDUCTORS THROUGH ENTIRE CIRCUIT (SWITCHED, UNSWITCHED/EM, ETC.) AS INDICATED THROUGHOUT CONSTRUCTION DOCUMENTS AND AS REQUIRED FOR A COMPLETE AND WORKING SYSTEM.

** REFER TO SPECIFICATIONS FOR LIMITATIONS ON SHARING NEUTRAL (GROUNDED) CONDUCTORS. DO NOT CIRCUIT AS A MULTI-WIRE BRANCH CIRCUIT, UNO.

*** PROVIDE ADDITIONAL ISOLATED GROUNDING CONDUCTORS WHERE INDICATED.

REFER TO SPECIFICATIONS, PLANS, NOTES, WIRING AND CONTROL DIAGRAMS FOR ADDITIONAL CIRCUITING REQUIREMENTS.

HATCHING LEGEND

ENLARGED PLAN	▨
NOT IN SCOPE (NIS)	▨

LIGHTING

A a [OS]	LIGHT FIXTURE a = LOWER CASE LETTER IS SWITCH IDENTIFIER A = UPPER CASE LETTER INDICATES LIGHT FIXTURE TYPE [OS] = INTEGRAL OCCUPANCY SENSOR = WALL MOUNT = ARROW INDICATED AIMING DIRECTION
	LIGHT FIXTURE CIRCUITED AS A NIGHT LIGHT (NL)
	EMERGENCY LIGHT FIXTURE WITH EMERGENCY LIGHTING BATTERY PACK OR CONNECTED TO EMERGENCY SOURCE
	NIGHT LIGHT/EMERGENCY LIGHT FIXTURE WITH EMERGENCY BATTERY PACK OR CONNECTED TO EMERGENCY SOURCE
	LIGHT FIXTURE WITH DUAL BALLASTS CIRCUITED SEPARATELY (SHADING IMPLIES EMERGENCY LIGHT FIXTURE)
[#]	LIGHTING TRACK (# INDICATES RELAY NUMBER)
	MIRROR LIGHTS
	EXTERIOR PARKING LOT LIGHT FIXTURE
	EXTERIOR PEDESTRIAN POST TOP LIGHT FIXTURE
	EXTERIOR LIT BOLLARD LIGHT
	EXIT SIGN - CEILING / WALL MOUNTED, ARROWS AS INDICATED, FACE HATCHED
	EMERGENCY LIGHTING UNIT EQUIPMENT WITH BATTERY PACK - CEILING/WALL MOUNTED
	AFEA (AREA FOR EVACUATION ASSISTANCE) SIGN - CEILING/WALL MOUNTED, ARROWS AS INDICATED

REFER TO LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION

POWER EQUIPMENT

	ELECTRICAL PANELBOARD (SURFACE OR FLUSH MOUNT)
	ELECTRICAL CABINET (SURFACE OR FLUSH MOUNT), TYPE AS NOTED
	PLYWOOD TERMINAL BOARD FOR TELEPHONE SYSTEM, UNO. SIZE AS NOTED
	ELECTRICAL EQUIPMENT ON HOUSEKEEPING PAD
FRONT	TRANSFORMER
200/3/150/3R	DISCONNECT SWITCH, 200/3/150/3R = AMPERES/POLE/FUSE/NEMA ENCLOSURE RATING CB = CIRCUIT BREAKER (200/3/CB) FM = FACTORY FURNISHED AND MOUNTED NF = NON-FUSED OL = SIZE INDICATED ON ONE-LINE DIAGRAM NO VALUE FOR NEMA ENCLOSURE = NEMA 1
30/3/15/1/3R	COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER, 30/3/15/1/3R = AMPERES/POLE/FUSE/NEMA STARTER SIZE/NEMA ENCLOSURE RATING CB= CIRCUIT BREAKER (30/3/CB/1) FM = FACTORY FURNISHED AND MOUNTED NF= NON-FUSED NO VALUE FOR NEMA ENCLOSURE = NEMA 1
2	MAGNETIC MOTOR STARTER, NEMA SIZE AS NOTED. 3-POLE, UNO
VFD	VARIABLE FREQUENCY DRIVE
	INDICATING LIGHT
	EMERGENCY POWER OFF BUTTON
	STOP-START PUSH BUTTON CONTROL STATION
	HAND-OFF-AUTO PUSH BUTTON CONTROL STATION
	MUSHROOM-TYPE PUSH BUTTON
	OVERHEAD PADDLE FAN

NURSE CALL (HOSPITAL)

B	CODE BLUE PUSHBUTTON STATION
BR	BED RECEPTACLE
DS	DUTY STATION
E	STAFF EMERGENCY ASSIST STATION
EP	PATIENT EMERGENCY PULL CORD STATION
IC	INTERCOM
K	NURSE CALL KEY SWITCH
N1	NURSE CALL BEDSIDE STATION - SINGLE PATIENT
N2	NURSE CALL BEDSIDE STATION - DOUBLE PATIENT
NA	NURSE CALL VISUAL ANNUNCIATOR PANEL
SS	STAFF STATION (NORMAL, EMERGENCY & CODE BLUE)
NM	NURSE CALL MASTER STATION
B	DOME LIGHT - CEILING MOUNTED, B = BUZZER
B	DOME LIGHT - WALL MOUNTED, B = BUZZER
Z,B	ZONE DOME LIGHT, B = BUZZER

BOXES, LIGHTING CONTROL & WIRING DEVICES

$^#$ $^{30/3/3R}$	SWITCH LETTER DESIGNATIONS AS FOLLOWS: BLANK = SINGLE POLE 2 = TWO POLE 3 = THREE-WAY 4 = FOUR-WAY D = DIMMER F = FAN SPEED CONTROL FH = FRACTIONAL HORSEPOWER MANUAL CONTROLLER FM = FACTORY FURNISHED AND MOUNTED IH = INTEGRAL HORSEPOWER MANUAL CONTROLLER K = KEYED LV# = LOW VOLTAGE / DIGITAL M = MANUAL MOTOR STARTER DISCONNECT OS# = OCCUPANCY SENSOR P = SPST PILOT LIGHT WP = WEATHER PROOF 30/3/3R = AMPERES/POLES/NEMA ENCLOSURE RATING # = REFER TO LIGHTING CONTROL DEVICE SCHEDULE
ALC	AUTOMATIC LOAD CONTROL RELAY
BTS	BRANCH CIRCUIT TRANSFER SWITCH
# # # #	CEILING / WALL MOUNTED OCCUPANCY SENSOR (# INDICATES TYPE PER SCHEDULE) CORNER 90 DEGREE SENSING ONE-DIRECTION SENSING, CEILING/WALL MOUNT CEILING MOUNT, TWO-DIRECTION SENSING CEILING MOUNT, FOUR-DIRECTION SENSING
C#	CONTACTOR (SIZE, COIL VOLTAGE AND NUMBER OF POLES AS INDICATED)
CL##	TRACK-MOUNTED CURRENT LIMITER (## INDICATES AMPERAGE)
D#	DAYLIGHT SENSOR (# INDICATES TYPE PER SCHEDULE)
LC	LIGHTING CONTROLS PROCESSOR AND/OR EQUIPMENT
P#	POWER PACK (# INDICATES TYPE PER SCHEDULE)
PS#	PHOTOELECTRIC SWITCH
R##	ROOM CONTROLLER (# INDICATES TYPE PER SCHEDULE)
TS#	TIME SWITCH
	SIMPLEX RECEPTACLE - NEMA 5-20R, UNO
	DUPLEX RECEPTACLE - NEMA 5-20R, UNO
	DOUBLE DUPLEX RECEPTACLE - NEMA 5-20R, UNO
	SPECIAL RECEPTACLE - NEMA TYPE AS NOTED
	TWIST-LOCK TYPE RECEPTACLE
G	BLANK FACE GFCI FEED THROUGH DEVICE
OR GFCI	GFCI TYPE RECEPTACLE*
	AUTOMATICALLY CONTROLLED SIMPLEX RECEPTACLE
	SPLIT-WIRED DUPLEX RECEPTACLE*, HALF AUTOMATICALLY CONTROLLED
	AUTOMATICALLY CONTROLLED DUPLEX RECEPTACLE*
	DOUBLE DUPLEX RECEPTACLE WITH ONE DUPLEX AUTOMATICALLY CONTROLLED
	DOUBLE DUPLEX RECEPTACLE WITH BOTH DUPLEXES AUTOMATICALLY CONTROLLED
OR EM	EMERGENCY RECEPTACLE*
	RECEPTACLE INSTALLED ABOVE COUNTER OR BACKSPLASH*
	RECEPTACLE INSTALLED IN CEILING*
	RECEPTACLE INSTALLED VIA DROP CORD*
OR H	RECEPTACLE INSTALLED IN HORIZONTAL ORIENTATION*
#	ADDITIONAL RECEPTACLE LETTER DESIGNATIONS AS FOLLOWS: CH = CLOCK HANGER TYPE G = RCPT PROTECTED BY GFCI CIRCUIT BREAKER OR UPSTREAM GFCI DEVICE IG = ISOLATED GROUND S = MANUALLY SWITCHED SP / TVSS = SURGE PROTECTION TR = TAMPER RESISTANT TV = TELEVISION U / USB = USB WP = WEATHER PROOF COVER WR = WEATHER RESISTANT
	MULTI-OUTLET ASSEMBLY
	TELEPHONE OUTLET
	DATA OUTLET
	MULTI-SERVICE OUTLET; TELEPHONE AND DATA ABOVE COUNTER, TYP WALL, TYP
A	MULTI-SERVICE POWER POLE WITH TELEPHONE, DATA AND POWER OUTLETS A = TYPE, REFER TO PLANS, SCHEDULES AND SPECIFICATIONS
A	FLOOR BOX WITH TELEPHONE, DATA AND/OR POWER OUTLETS A = TYPE, REFER TO PLANS, SCHEDULES AND SPECIFICATIONS
A	POKE THROUGH, A = TYPE, REFER TO PLANS, SCHEDULES AND SPECIFICATIONS
T	THERMOSTAT
J J	JUNCTION/OUTLET BOX. MOUNTING AS NOTED OR DETAILED
B	SIGNALING BELL
B	SIGNALING BUZZER
T	LV TRANSFORMER

* SYMBOL DEMONSTRATED WITH DUPLEX RECEPTACLE, WHEN USED IN COMBINATION WITH OTHER DEVICES MEANING IS SIMILAR FOR THOSE DEVICE TYPES.

REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR MORE INFORMATION.

ELECTRICAL ONE-LINE & RISER DIAGRAM

##A 3P	SWITCH (RATING AND POLES AS INDICATED)
##A 3P ##AT ####	DRAWOUT CIRCUIT BREAKER (RATINGS, POLES, TRIP SIZE AND BREAKER TYPE AS INDICATED)
##AS 3P ##AF ####	FUSED SWITCH (RATING, POLES, FUSE SIZE AND TYPE AS INDICATED)
##AS 3P ##AF #### NEMA# NEMA#	COMBINATION FUSED SWITCH/STARTER (RATING, POLES, FUSE SIZE, FUSE TYPE, NEMA STARTER SIZE, NEMA ENCLOSURE TYPE AS INDICATED)
##A 3P ##AT ####	CIRCUIT BREAKER (RATING, POLES, TRIP SIZE AND BREAKER TYPE AS INDICATED)
##A 3P ##AT #### NEMA# NEMA#	COMBINATION CIRCUIT BREAKER/STARTER (RATING, POLES, TRIP SIZE, BREAKER TYPE, NEMA STARTER SIZE, NEMA ENCLOSURE TYPE AS INDICATED)
LSIG	CIRCUIT BREAKER TRIP FUNCTIONS L = LONG TIME S = SHORT TIME I = INSTANTANEOUS G = GROUND FAULT
	PANELBOARD, SINGLE OR MULTI-SECTION (REFER TO SCHEDULES)
	ISOLATED POWER PANELBOARD W/ INTEGRAL TRANSFORMER (REFER TO SCHEDULES)
TX#	TRANSFORMER (TYPE AND RATINGS AS INDICATED)
TX#	SHIELDED TRANSFORMER (TYPE AND RATINGS AS INDICATED)
ATS# ##A	TRANSFER SWITCH (RATINGS AS INDICATED) ATS = AUTOMATIC TRANSFER SWITCH MTS = MANUAL TRANSFER SWITCH NTS = NON-AUTOMATIC TRANSFER SWITCH
ATS# (W/BYPASS) ##A	TRANSFER SWITCH WITH BYPASS (RATINGS AS INDICATED)
##KW GENERATOR 480Y/277V, 3Ø, 4W ##A, 3P M/G	GENERATOR (RATINGS AS INDICATED) INDICATES CONNECTION TO GROUNDING ELECTRODE SYSTEM IF GENERATOR IS CONNECTED AS A SEPARATELY DERIVED SOURCE
MDP SWITCHBOARD ELEC ROOM ### AMPS 480Y/277V 3Ø 4W	SWITCHGEAR, SWITCHBOARD AND/OR DISTRIBUTION PANELBOARD (TYPE, RATING, DEVICES AND ACCESSORIES AS INDICATED)
AS	AMMETER SWITCH
VS	VOLTMETER SWITCH
AM	AMMETER (RANGE AS SPECIFIED OR REQUIRED)
VM	VOLTMETER (RANGE AS SPECIFIED OR REQUIRED)
DIGITAL VM AM	COMBINATION DIGITAL VOLT METER/AMMETER
UTILITY METER M	UTILITY METER (AS REQUIRED BY UTILITY)
WH D 15	WATT-HOUR METER, "D" DENOTES DEMAND REGISTER, "15" DENOTES MINUTES OF DEMAND INTERVAL
	CURRENT TRANSFORMER RATING AS SPECIFIED OR REQUIRED
	POTENTIAL TRANSFORMER RATING AS SPECIFIED OR REQUIRED
###	CIRCUIT/EQUIPMENT IDENTIFICATION (REFER TO SCHEDULE)
ERMS	ENERGY-REDUCING MAINTENANCE SWITCH
GFR	GROUND FAULT RELAY
PFR	PHASE FAILURE RELAY
PRM	PHASE ROTATION MONITOR
R	RELAY
KK#	KIRK-KEY INTERLOCK (# INDICATES KEY PAIR)
ST	SHUNT TRIP
SPD	SURGE-PROTECTIVE DEVICE
VFD	VARIABLE FREQUENCY DEVICE
	GROUND CONNECTION
	GROUND CONNECTION WITH TEST WELL
	GROUND ROD
	LIGHTNING ARRESTER
	CAPACITOR
= ≠	CONTACT (OPEN OR CLOSED)
	HEATER
HP	MOTOR
##	BLOCK LOAD KW OR KVA
×F# ×FP#	FAULT POINT REFERENCED IN SHORT CIRCUIT CURRENT AND VOLTAGE DROP SPREADSHEET

ELECTRICAL DEMOLITION GENERAL NOTES:

1. REFERENCE ARCHITECTURAL DRAWINGS FOR FULL EXTENT OF DEMOLITION WORK AND PHASING. NOTIFY ARCHITECT, ENGINEER AND OWNER, AS APPLICABLE, OF ANY CONFLICTS OR DISCREPANCIES BETWEEN DRAWINGS AND JOB SITE CONDITIONS PRIOR TO SUBMITTING BID.
2. COORDINATE DEMOLITION AND REMOVAL OF EXISTING ELECTRICAL EQUIPMENT AND LIGHTING SYSTEMS WITH ARCHITECTURAL PHASING DRAWING AND OWNER TO ALLOW NECESSARY SYSTEMS TO REMAIN OPERATIONAL DURING CONSTRUCTION. (NOTE: NOT ALL EXISTING/DEMOLISHED EQUIPMENT, LIGHT FIXTURES, DEVICES OR RACEWAYS WILL BE SHOWN ON THE DRAWINGS). COORDINATE ELECTRICAL REQUIREMENTS FOR REMODELED/RENOVATED SPACES WITH THE OWNER. SUPPORT ALL EXISTING TO REMAIN EQUIPMENT, CABLES, RACEWAYS AND DEVICES IN ACCORDANCE WITH THE CODE.
3. AVOID DAMAGING FACILITIES, INCLUDING EQUIPMENT, LIGHT FIXTURES AND DEVICES THAT ARE EXISTING TO REMAIN, NEW OR REUSED. REPAIR ALL DAMAGE CAUSED DURING WORK AT NO EXTRA COST TO THE OWNER.
4. DISPOSE OF ALL ELECTRICAL EQUIPMENT, LIGHT FIXTURES, AND DEVICES SHOWN TO BE REMOVED, UNLESS NOTED OTHERWISE. COORDINATE WITH THE OWNER THE ITEMS TO BE SALVAGED AND THE LOCATION FOR STORAGE. AVOID DAMAGING SALVAGED ITEMS DURING DEMOLITION WORK AND DURING TRANSPORT TO OWNER'S DESIGNATED STORAGE LOCATION. RECYCLE ALL ELECTRICAL EQUIPMENT, LIGHT FIXTURES AND LAMPS NOT BEING SALVAGED OR REUSED THAT MAY BE RECYCLED.
5. WHERE ALTERATION OF ELECTRICAL EQUIPMENT, LIGHT FIXTURES, RACEWAYS OR WIRING DEVICES AFFECTS EXISTING SURFACES/FINISHES: REPAIR/PAINT AFFECTED SURFACE TO MATCH EXISTING ADJACENT SURFACE IN ACCORDANCE WITH OWNER REQUIREMENTS. MAINTAIN FIRE RATING OF ALL FLOORS/WALLS/CEILINGS THAT ARE RATED.
6. WHERE DEMOLITION WORK INTERRUPTS ELECTRICAL CONTINUITY OF CIRCUITS THAT ARE TO REMAIN IN USE, PROVIDE NECESSARY DEVICES AND RELATED CIRCUITRY TO MAINTAIN ELECTRICAL CONTINUITY IN ACCORDANCE WITH OWNER REQUIREMENTS. RECIRCUIT REUSED ELECTRICAL EQUIPMENT, LIGHT FIXTURES AND WIRING DEVICES PREVIOUSLY POWERED FROM DEMOLISHED EQUIPMENT TO NEW OR TEMPORARY EQUIPMENT AS NEEDED.
7. COORDINATE DISCONNECTION OF POWER TO EQUIPMENT BEING DEMOLISHED/REMOVED/RELOCATED WITH OTHER TRADES PRIOR TO START OF WORK. ALL ELECTRICAL EQUIPMENT, LIGHT FIXTURES, RACEWAYS, WIRING DEVICES AND RELATED CIRCUITRY NOT BEING REUSED SHALL BE REMOVED IN ALL ACCESSIBLE AREAS AND IN FLOORS/WALLS/CEILINGS THAT ARE TO BE REMOVED, UNLESS NOTED OTHERWISE. AS ALLOWED BY OWNER, UNUSED ELECTRICAL EQUIPMENT, RACEWAYS AND RELATED CIRCUITRY THAT ARE INACCESSIBLE MAY BE ABANDONED IN PLACE AND SHALL BE PERMANENTLY DISCONNECTED FROM ALL POWER SOURCES, INSULATED FROM CONTACT WITH OTHER LIVE ELECTRICAL WIRING/DEVICES, AND IDENTIFIED AT THE TERMINATIONS AS NO LONGER BEING IN SERVICE.
8. LOW VOLTAGE CABLES/WIRING NOT BEING REUSED SHALL BE REMOVED UNLESS IDENTIFIED FOR FUTURE USE. COORDINATE REQUIREMENTS WITH OWNER. CARE SHOULD BE TAKEN DURING THE REMOVAL PROCESS TO PROTECT THE EXISTING REUSED CABLES/WIRING FROM DAMAGE.

LIGHTING GENERAL NOTES:

1. THE EMERGENCY LIGHTING SYSTEM HAS BEEN DESIGNED TO PROVIDE AN INITIAL FLOOR ILLUMINANCE LEVEL OF 1 FC AVERAGE, 0.1 FC MINIMUM AND NO MORE THAN A 40:1 MAX/MIN RATIO ALONG THE EMERGENCY EGRESS PATHS. WHERE APPLICABLE, ADJUST AIMING OF EMERGENCY LIGHTS AS REQUIRED TO PROVIDE PROPER ILLUMINATION AT FLOOR AVOIDING OBSTACLES AND SHADOWS AFTER STORE SET-UP IS COMPLETE.
2. WALL MOUNTED EXITS SIGNS SHALL BE MOUNTED 12" ABOVE DOOR FRAME AND CENTERED ABOVE DOOR OPENING, UNLESS NOTED OTHERWISE. CEILING/PENDANT MOUNTED EXIT SIGNS SHALL BE SUSPENDED TO 12'-0" AFF IN CUSTOMER AREAS OPEN TO STRUCTURE, AT BOTTOM OF BAR JOISTS IN BACKROOM AREAS AND ON FINISHED CEILING WHERE APPLICABLE, UNLESS NOTED OTHERWISE. EXIT SIGNS SHALL BE READILY VISIBLE FROM DIRECTION OF EGRESS TRAVEL. COORDINATE FINAL EXIT SIGN LOCATIONS WITH AHJ AND OWNER.
3. SUSPEND LIGHT FIXTURES IN SPACES WITHOUT CEILINGS AS HIGH AS PRACTICABLE, UNLESS NOTED OTHERWISE. SUSPEND JUST BELOW REFRIGERATION PIPING, DUCTWORK AND SIMILAR OBSTRUCTIONS WHERE NECESSARY TO AVOID SHADOWS. COORDINATE REQUIREMENTS WITH OWNER AND OTHER DISCIPLINES PRIOR TO INSTALLATION.
4. PROVIDE LABEL AT EACH MANUAL LIGHT SWITCH INDICATING THE LIGHT FIXTURE(S) THAT THE SWITCH CONTROLS AND THE RESPECTIVE "PNLBD-CKT#" DESIGNATION. A SINGLE LIGHT SWITCH FOR A SMALL ROOM DOES NOT NEED TO INDICATE THE SPACE CONTROLLED SINCE IT IS INTUITIVELY OBVIOUS. COORDINATE LABEL REQUIREMENTS WITH THE OWNER PRIOR TO INSTALLATION. REFER TO THE SPECIFICATIONS FOR MORE INFORMATION.
5. ALL REMOTELY LOCATED LIGHT FIXTURE POWER SUPPLIES AND CONTROLLERS SHALL BE LOCATED IN AN ACCESSIBLE LOCATION WITH PROPER VENTILATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CONCEAL DEVICES AND RELATED WIRING FROM CUSTOMER/PUBLIC VIEW. PROVIDE ENCLOSURE IF REQUIRED. COORDINATE LOCATION AND ENCLOSURE TYPE WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION. CONNECT POWER SUPPLIES TO LIGHT FIXTURES PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE APPROPRIATE WIRE SIZE FOR LOW-VOLTAGE WIRING TO REDUCE VOLTAGE DROP TO MANUFACTURER'S TOLERANCES FOR PROPER OPERATION.
6. PROVIDE ALL NECESSARY LOW VOLTAGE CONTROL WIRING, BOXES, AND CONDUIT FROM CONTROL DEVICES TO LIGHT FIXTURES AS REQUIRED FOR PROPER OPERATION. (LOW VOLTAGE WIRING MAY NOT BE SHOWN ON PLAN FOR CLARITY). COORDINATE REQUIREMENTS WITH LIGHT FIXTURE AND CONTROL MANUFACTURER PRIOR TO INSTALLATION.
7. THE NORMAL AND EMERGENCY EGRESS LIGHTING DESIGN IN SELECT AREAS IS OUTSIDE THE SCOPE OF WORK OF THIS PROJECT AND IS THE RESPONSIBILITY OF THE BUILDING OWNER.
8. REFER TO THE ARCHITECTURAL DRAWINGS FOR LIGHT FIXTURE LOCATIONS, MOUNTING HEIGHTS, LENGTHS AND ADDITIONAL MOUNTING INFORMATION. CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT COORDINATION AND CONFLICT ISSUES ARE RESOLVED PRIOR TO INSTALLATION OF LIGHT FIXTURES. CONTACT ARCHITECT/ENGINEER IMMEDIATELY IF THERE ARE DISCREPANCIES.
9. THROUGH WIRING OF RECESSED LIGHT FIXTURES, IN SUSPENDED CEILINGS, IS NOT PERMITTED. CONNECT EACH LIGHT FIXTURE BY A WHIP TO A JUNCTION BOX. PROVIDE CABLE WHIPS OF SUFFICIENT LENGTHS TO ALLOW FOR RELOCATING EACH LIGHT FIXTURE WITHIN A 5'-0" RADIUS OF ITS INDICATED LOCATION. CABLE WHIPS SHALL NOT EXCEED 6'-0" OF UNSUPPORTED LENGTHS.
10. EXIT SIGNS SHALL NOT BE SWITCHED. REFER TO MANUFACTURER'S WRITTEN INSTRUCTIONS FOR PROPER INSTALLATION AND TESTING.
11. PROVIDE A NEUTRAL CONDUCTOR TO ALL WALL MOUNTED LINE VOLTAGE LIGHT SWITCHES, UNLESS NOTED OTHERWISE. IF NEUTRAL TERMINATION IS NOT REQUIRED FOR THE DEVICE THEN CAP CONDUCTOR AND TAG AS "NEUTRAL FOR FUTURE USE".
12. COORDINATE ALL OCCUPANCY/VACANCY SENSOR SETTINGS WITH OWNER AND ADJUST AS NECESSARY FOR PROPER OPERATION. SETTINGS MUST COMPLY WITH AHJ AND LOCAL ENERGY CODE REQUIREMENTS.
13. DO NOT INSTALL OCCUPANCY/VACANCY SENSORS WITHIN 48" OF AIR DIFFUSER OR SIMILAR OBSTRUCTION THAT MAY ADVERSLY AFFECT THE SENSOR PERFORMANCE. COORDINATE FINAL SENSOR LOCATIONS WITH OTHER TRADES AND INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

APPLICABLE ELECTRICAL CODES:

NOTE: PROJECT IS DESIGNED IN COMPLIANCE WITH THE FOLLOWING CODES AS AMENDED BY LEE'S SUMMIT, MO. THIS IS NOT AN EXHAUSTIVE LIST. PROJECT SHALL COMPLY WITH ALL APPLICABLE CODES, STANDARDS AND LOCAL REQUIREMENTS. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE, (NFPA 70)
BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE
ENERGY CODE: 2018 INTERNATIONAL ENERGY CONSERVATION CODE

COMMISSIONING / FUNCTIONAL TESTING:

CONTRACTOR'S BID SHALL INCLUDE PROVISIONS TO PROVIDE ALL SERVICES RELATED TO THE CODE REQUIRED BUILDING SYSTEMS COMMISSIONING INCLUDING A COMMISSIONING PLAN, FUNCTIONAL TESTING, AND RELATED DOCUMENTATION, REPORTS AND OWNER TRAINING. THIS INCLUDES RETAINING THE SERVICES OF A 3RD PARTY REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY. REFER TO THE LATEST ADOPTED EDITION OF THE APPLICABLE ENERGY CODE FOR MORE INFORMATION. CONTRACTOR SHALL COMPLETE ALL RELATED COMMISSIONING REQUIREMENTS PRIOR TO FINAL INSPECTIONS IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS, CODE AND MANUFACTURER'S INSTRUCTIONS.

ELECTRICAL GENERAL NOTES:

1. EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT ACTUAL "AS-BUILT" CONDITIONS. VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BID. COORDINATE NEW AND DEMOLITION WORK WITH ALL OTHER TRADES AND EXISTING CONDITIONS.
2. NOTIFY ARCHITECT, ENGINEER AND OWNER, AS APPLICABLE, IF ANY DANGEROUS CONDITIONS EXIST ON JOB SITE BEFORE ANY DEMOLITION OR REMODEL WORK BEGINS.
3. COORDINATE DISCONNECTION OF POWER TO EQUIPMENT BEING DEMOLISHED/REMOVED/RELOCATED WITH TENANT AND OTHER TRADES PRIOR TO START OF WORK. COORDINATE ANY NECESSARY BUILDING/TENANT SPACE POWER OUTAGES WITH THE LANDLORD AND TENANT AND MAKE EVERY ATTEMPT TO SCHEDULE DURING NON-BUSINESS OR OFF-PEAK BUSINESS HOURS TO MINIMIZE DISRUPTION TO BUSINESS OPERATIONS. REQUESTS FOR ELECTRICAL SHUTDOWNS OF THE LANDLORD'S EQUIPMENT SHALL BE BROUGHT IN WRITING TO THE ATTENTION OF THE LANDLORD AT LEAST 7 DAYS IN ADVANCE. SHUTDOWNS SHALL NOT BE PERFORMED WITHOUT WRITTEN APPROVAL FROM THE LANDLORD.
4. ALL ROOF PENETRATIONS, FLOOR CHASING OR CORE DRILLING SHALL REQUIRE THE SPECIFIC APPROVAL OF THE LANDLORD AND OWNER. ALL WORK IN COMMON AREAS, SHAFTS OR OTHER OWNER SPACES MUST BE SPECIFICALLY REVIEWED AND APPROVED BY THE LANDLORD PRIOR TO ANY WORK BEING PERFORMED. MINIMIZE DISTURBANCE TO OTHER BUILDING TENANTS.
5. FOR AREAS AND EQUIPMENT WITHIN THE SCOPE OF THIS REMODEL: EXISTING ELECTRICAL EQUIPMENT AND CIRCUITRY MAY BE REUSED IF IN GOOD CONDITION AND NEW DESIGN REQUIREMENTS CAN BE MET; OTHERWISE REPLACE.
6. FOR AREAS AND EQUIPMENT WITHIN THE SCOPE OF THIS REMODEL: ELECTRICAL EQUIPMENT SHALL BE LOCATED SO THAT THE CODE REQUIRED MINIMUM WORKING CLEARANCE AND DEDICATED ELECTRICAL SPACE ARE MAINTAINED. EXISTING EQUIPMENT NOT MEETING CURRENT CODE CLEARANCE REQUIREMENTS MAY REMAIN IF ALLOWED TO REMAIN BY THE AHJ, ENGINEER AND OWNER.

ELECTRICAL SUPPLEMENTAL SPECIFICATIONS:

1. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS. AS APPLICABLE, REVIEW THE LANDLORD CRITERIA, GENERAL NOTES, OTHER TRADE DRAWINGS AND SLH MASTER SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMITTING BID.
2. ALL WORK SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES AS WELL AS APPLICABLE INDUSTRY STANDARDS. ALL EQUIPMENT SHALL BEAR LABELS FOR THE USE INTENDED BY AN AHJ ACCEPTED NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL), SUCH AS UL OR ETL. THE FINAL ELECTRICAL INSTALLATION OF THE FACILITY OCCUPIED BY OWNER SHALL BE FREE FROM ELECTRICAL DEFECTS TO THE SATISFACTION OF THE AHJ, OWNER, ARCHITECT AND ENGINEER.
3. COORDINATE FINAL LOCATION AND INSTALLATION REQUIREMENTS OF ALL LIGHT FIXTURES, ELECTRICAL EQUIPMENT AND ELECTRICAL DEVICES WITH ARCHITECTURAL DRAWINGS, EXISTING CONDITIONS AND OTHER TRADES PRIOR TO ROUGH-IN. PROVIDE ALL NECESSARY DEVICES, CORDS, PLUGS, DISCONNECTS AND FINAL CONNECTIONS TO ELECTRICAL EQUIPMENT FOR PROPER OPERATION IN ACCORDANCE WITH CODE, OWNER AND MANUFACTURER REQUIREMENTS.
4. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC/SCHEMATIC IN NATURE AND REPRESENT THE GENERAL SCOPE OF WORK. IT IS NOT WITHIN THE SCOPE OF THE ELECTRICAL DRAWINGS TO SHOW ALL NECESSARY RACEWAY ROUTING, BENDS, OFFSETS, PULL BOXES AND OBSTRUCTIONS. CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF EQUIPMENT AND WIRING DEVICES WITH OTHER TRADES PRIOR TO INSTALLATION AND INSTALL ALL WORK TO CONFORM TO THE OWNER REQUIREMENTS.
5. ALL CONDUCTOR AND CONDUIT LENGTHS SHOWN IN THESE DESIGN DOCUMENTS ARE INTENDED SOLELY FOR USE IN THE DESIGN CALCULATIONS BY THE DESIGN PROFESSIONAL, UNLESS NOTED OTHERWISE. LENGTHS SHOWN SHALL NOT BE USED TO ASSIST IN THE BIDDING TAKEOFF PROCESS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MATERIAL QUANTITIES REQUIRED TO BID AND CONSTRUCT THE COMPLETE PROJECT.
6. COORDINATE LOCATION AND ELECTRICAL REQUIREMENTS FOR ALL DISCONNECT SWITCHES, RECEPTACLES AND CONNECTIONS TO FIRE PROTECTION / HVAC / PLUMBING / REFRIGERATION AND OTHER EQUIPMENT WITH OTHER TRADES PRIOR TO ROUGH-IN. WHERE EQUIPMENT OR WALL MOUNTING IS NOT POSSIBLE, PROVIDE CHANNEL-STRUT (UNISTRUT) SECURED TO STRUCTURE ADJACENT TO EQUIPMENT AS NEEDED. ENSURE ALL CODE REQUIRED CLEARANCES AND ACCESS FOR EQUIPMENT AND DISCONNECTS ARE MAINTAINED. CONFIRM FINAL OVER-CURRENT PROTECTION DEVICE RATINGS WITH OTHER TRADES AND EQUIPMENT NAMEPLATE AND ADJUST ELECTRICAL PROVISIONS AS NEEDED.
7. PROVIDE PROPER FIRE PROOFING AND SEALANT FOR PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. THE FIRE STOPPING METHOD, MATERIAL AND ITS APPLICATION SHALL BE NRTL LISTED, CODE COMPLIANT AND APPROVED BY AHJ.
8. WHEN CONCRETE TRENCHING/CORING IS REQUIRED, THE METHODS, DEPTHS, AND LOCATIONS SHALL BE PRE-APPROVED BY LANDLORD, ARCHITECT, AND STRUCTURAL ENGINEER PRIOR TO THE START OF WORK. X-RAY SLAB AS NECESSARY TO AVOID DAMAGING ANY UNDER-SLAB UTILITIES OR STRUCTURE. SLAB REPLACEMENT SHALL BE INSTALLED WITH DOWELLING AND REINFORCED CONCRETE AS DIRECTED BY THE STRUCTURAL ENGINEER. WHERE SLAB ON GRADE IS SAW-CUT AND REMOVED FOR TRENCHING THE CONTRACTOR SHALL INSTALL MOISTURE BARRIER PER LANDLORD'S REQUIREMENTS. PROVIDE 3/4" MINIMUM CONDUITS ROUTED THROUGH SLAB AND STUBBED UP INTO DEVICES. FOR SLAB ON DECK, THE FLOOR SHALL BE SLEEVED AND EQUIPPED WITH THE APPROPRIATE LISTED ASSEMBLY. PROVIDE 3/4" MINIMUM CONDUITS ROUTED BELOW SLAB, TIGHT TO STRUCTURE, AND STUBBED UP INTO DEVICES.
9. ALL APPLICABLE SWITCHES, RECEPTACLES, OUTLETS, AND CONTROLS SHALL BE PLACED AT HEIGHTS THAT ARE IN ACCORDANCE WITH ADA ACCESSIBILITY GUIDELINES.
10. WIRING DEVICES ADJACENT TO EACH OTHER SHALL BE INSTALLED UNDER A SINGLE COVER PLATE, UNO.
11. WIRING DEVICES SHOWN BACK-TO-BACK ON A COMMON WALL SHALL BE OFFSET A MINIMUM OF 12" HORIZONTALLY TO REDUCE SOUND TRANSMISSION BETWEEN ROOMS, UNO.
12. ALL RECEPTACLES AND APPLIANCES SHALL BE GFCI PROTECTED IN LOCATIONS REQUIRED BY CODE; THIS INCLUDES BATHROOMS, KITCHENS/FOOD PREP AREAS, EXTERIOR LOCATIONS AND RECEPTACLES WITHIN 6 FEET OF A SINK. GFCI DEVICES SHALL BE READILY ACCESSIBLE AND SHALL NOT BE LOCATED BEHIND OBSTACLES. LABEL WIRING DEVICES PROTECTED BY AN UPSTREAM GFCI DEVICE.
13. PROVIDE TAMPER-RESISTANT (TR) TYPE RECEPTACLES AT ALL CODE REQUIRED LOCATIONS AND AT LOCATIONS WHERE RECEPTACLES ARE MOUNTED LESS THAN 5'-6" AFF AND ARE EASILY ACCESSIBLE BY CHILDREN, UNLESS NOTED OTHERWISE.
14. FLEXIBLE CONDUIT IS ONLY PERMITTED WHERE SPECIFICALLY ALLOWED IN THE CONSTRUCTION DOCUMENTS, WHERE CONCEALED FROM VIEW OR EXPOSED FINAL CONNECTIONS TO LIGHT FIXTURES AND EQUIPMENT IN LENGTHS OF 6'-0" OR LESS.
15. ALL EMPTY CONDUIT/RACEWAY SHALL BE INSTALLED WITH PULL STRINGS. TERMINATE CONDUITS WITH A NYLON BUSHING.
16. EXPOSED CONDUIT/RACEWAY SHALL BE PAINTED TO MATCH ADJACENT SURFACE, UNLESS NOTED OTHERWISE. COORDINATE REQUIREMENTS WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
17. CONDUITS/RACEWAYS AND CABLES SHALL BE CONCEALED FROM VIEW WHEREVER PRACTICABLE, UNLESS NOTED OTHERWISE. DO NOT ROUTE CONDUITS ACROSS SKYLIGHTS, ACCESS PANELS, HATCHED TILES, HVAC DIFFUSERS, OR EQUIPMENT WORKING CLEARANCE SPACE. ROUTE ALL EXPOSED NON-FLEXIBLE CONDUITS TIGHT TO STRUCTURE, PARALLEL TO BUILDING LINES AND IN STRUT OR CABLE/PIPE TRAY WHERE PRACTICABLE. INSTALL CONDUITS PLUMB/ LEVEL WHERE EXPOSED TO VIEW. COORDINATE RACEWAY ROUTING AND INSTALLATION WITH OTHER TRADES PRIOR TO ROUGH-IN.
18. ROUTE CONDUITS SERVING ROOFTOP EQUIPMENT CONCEALED INSIDE EQUIPMENT CURB AND MINIMIZE ROOF PENETRATIONS AND EXTERIOR CONDUIT RUNS WHERE PRACTICABLE. SUPPORT RACEWAY FROM STRUCTURE, NOT ROOF DECK. MAINTAIN 2" MIN SPACING FROM BOTTOM OF ROOF DECK TO PREVENT ROOFING SCREWS FROM PENETRATING RACEWAY.
19. PROVIDE LABEL AT EACH RECEPTACLE COVER PLATE WITH THE RESPECTIVE "PNLBD-CKT#" DESIGNATION. COORDINATE LABEL REQUIREMENTS WITH THE OWNER PRIOR TO INSTALLATION. REFER TO THE SPECIFICATIONS FOR MORE INFORMATION.
20. MULTIWIRE BRANCH CIRCUITS ARE NOT ALLOWED, UNLESS NOTED OTHERWISE.
21. PROVIDE INSULATED EQUIPMENT GROUNDING CONDUCTOR FOR ALL CIRCUITS, UNLESS NOTED OTHERWISE.

SPECIAL SYSTEMS SUPPLEMENTAL SPECIFICATIONS:

1. PROVIDE NECESSARY BOXES AND CONDUIT FOR MECHANICAL SYSTEM CONTROL DEVICES. THIS INCLUDES BUT IS NOT LIMITED TO: MAIN CONTROL PANELS, THERMOSTATS, HUMIDISTATS, AC SOLENOIDS, HEAT RECLAIM WIRING, AHU CONTROL WIRING, DUCT FURNACE CONTROL WIRING, TIMERS, AND SIMILAR EQUIPMENT. PROVIDE BOX, (FLUSH MOUNT WHEREVER PRACTICABLE), AND 3/4" CONDUIT FOR ALL WIRING WITHIN WALLS AND SIMILAR UNACCESSIBLE LOCATIONS. PROVIDE CONTROL AND INTERLOCK WIRING WHEN NOT PROVIDED BY OTHER TRADES. COORDINATE REQUIREMENTS WITH EQUIPMENT SUPPLIERS AND OTHER TRADES PRIOR TO ROUGH-IN.
2. PROVIDE LINE VOLTAGE WIRING AND MAKE FINAL CONNECTIONS TO ALL DUCT-MOUNTED SMOKE DETECTORS, FIRE/SMOKE AND SMOKE DAMPERS WHERE APPLICABLE. COORDINATE REQUIREMENTS WITH OTHER TRADES PRIOR TO INSTALLATION.
3. DEVICES MOUNTED ON ACOUSTICAL TILE CEILINGS SHALL BE CENTERED ON THE TILE, UNO.
4. AT A MINIMUM, PROVIDE EXTRA DEEP, DOUBLE GANG COMMUNICATION OUTLET BOXES, (FLUSH MOUNTED WHEREVER PRACTICABLE), WITH SINGLE-GANG PLASTER RING AND 1" CONDUIT STUBBED-UP CONCEALED TO ACCESSIBLE CEILING SPACE, UNLESS NOTED OTHERWISE. PROVIDE SURFACE MOUNTED DATA BOXES WITHIN CABINETRY, AND SELECT OTHER LOCATIONS AS INDICATED ON THE DRAWINGS. COORDINATE TELEPHONE/DATA BOX AND CONDUIT LOCATIONS AND SIZES WITH OWNER AND OTHER TRADES PRIOR TO ROUGH-IN.
5. PROVIDE NYLON BUSHINGS FOR ALL COMMUNICATIONS AND LOW VOLTAGE WIRING CONDUITS AND SLEEVES, UNLESS NOTED OTHERWISE.
6. ALL COMMUNICATIONS AND LOW VOLTAGE WIRING CONDUIT SHALL BE INSTALLED WITH AN ACCESSIBLE PULLBOX BETWEEN EVERY 180 DEGREE CHANGE IN DIRECTION AND AT 100' INTERVALS OF CONTINUOUS RUNS.
7. MINIMUM BEND RADIUS FOR COMMUNICATIONS CONDUIT IS 6 TIMES THE INSIDE DIAMETER FOR CONDUITS 2" IN DIAMETER AND SMALLER AND 10 TIMES THE INSIDE DIAMETER FOR CONDUITS GREATER THAN 2" IN DIAMETER, UNLESS NOTED OTHERWISE.
8. LOW VOLTAGE COMMUNICATION, ENERGY MANAGEMENT, SOUND SYSTEM, SECURITY AND RELATED WIRING IS TO BE PERFORMED BY OTHERS UNDER A SEPARATE CONTRACT, UNLESS NOTED OTHERWISE. PROVIDE BOXES AND CONDUIT IN FINISHED AND RATED FLOORS/WALLS/CEILINGS TO ACCESSIBLE LOCATIONS FOR ALL LOW VOLTAGE WIRING. PROVIDE ALL LINE VOLTAGE CIRCUITRY (120V AND HIGHER) TO OWNER FURNISHED EQUIPMENT AND LOW VOLTAGE STEP-DOWN TRANSFORMERS AS REQUIRED. COORDINATE ELECTRICAL REQUIREMENTS AND LOCATIONS WITH SYSTEM INSTALLER AND OWNER.
9. LOW VOLTAGE COMMUNICATION, CONTROL, ENERGY MANAGEMENT, SOUND SYSTEM, SECURITY AND SIMILAR WIRING NOT IN CONDUIT SHALL BE PLENUM RATED WHERE APPLICABLE.
10. LOW VOLTAGE AND LINE VOLTAGE WIRING SHALL BE IN SEPARATE RACEWAY OR OTHERWISE SEPARATED BY BARRIER OR DIVIDER PER CODE.
11. LOW VOLTAGE CABLE SHEATH LABELS AND RELATED MANUFACTURER INFO SHALL REMAIN APPARENT IN ALL EXPOSED APPLICATIONS. PROTECT ALL EXPOSED CABLING FROM PAINTING AND OVERSPRAY (INCLUDES CABLE NOT ROUTED IN CONDUIT AND THAT IS IN CABLE TRAY).
12. LOW VOLTAGE CABLES SHALL BE ROUTED THROUGH THE BUILDING CABLE TRAY/RACEWAY SYSTEM, UNLESS NOTED OTHERWISE. WHERE REQUIRED, PROVIDE CONDUIT FOR ALL LOW VOLTAGE WIRING; AT A MINIMUM, PROVIDE CONDUIT TO THE CABLE TRAY OR NEAREST ACCESSIBLE CEILING SPACE. EXPOSED CABLING SHALL NOT BE ROUTED IN AREAS EXPOSED TO STRUCTURE UNLESS SPECIFICALLY PERMITTED BY THE OWNER. IN AREAS WHERE EXPOSED CABLES ARE ALLOWED, IT SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER IN ACCORDANCE WITH THE OWNER'S REQUIREMENTS AND APPLICABLE STANDARDS.
13. CONDUITS FOR COMMUNICATIONS OUTLETS SERVING ELEVATOR EQUIPMENT ROOMS, FACP, AND SIMILAR CRITICAL EQUIPMENT AS DESIGNATED BY THE OWNER SHALL BE CONTINUOUS ("HOMERUN") FROM OUTLET TO SERVING COMMUNICATIONS ROOM.

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CARSON A. MOSER
NUMBER PE-2014015037

04/07/2025
CARSON A. MOSER
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2450004866
MO. CORPORATE NO: E-556D
EXPIRES 10/31/2025

SUMMIT GI ADDITION
SAINT LUKE'S EAST
100 NE SAINT LUKE'S BLVD.
LEE'S SUMMIT MO 64086

Date	04/07/25
Job Number	3-24100
Drawn By	AR
Checked By	EG

Revision

Number	Date	Description

E000

ELECTRICAL GENERAL NOTES AND LEGEND

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CARSON A. MOSER

☐ ELECTRICAL DEMOLITION PLAN NOTES:

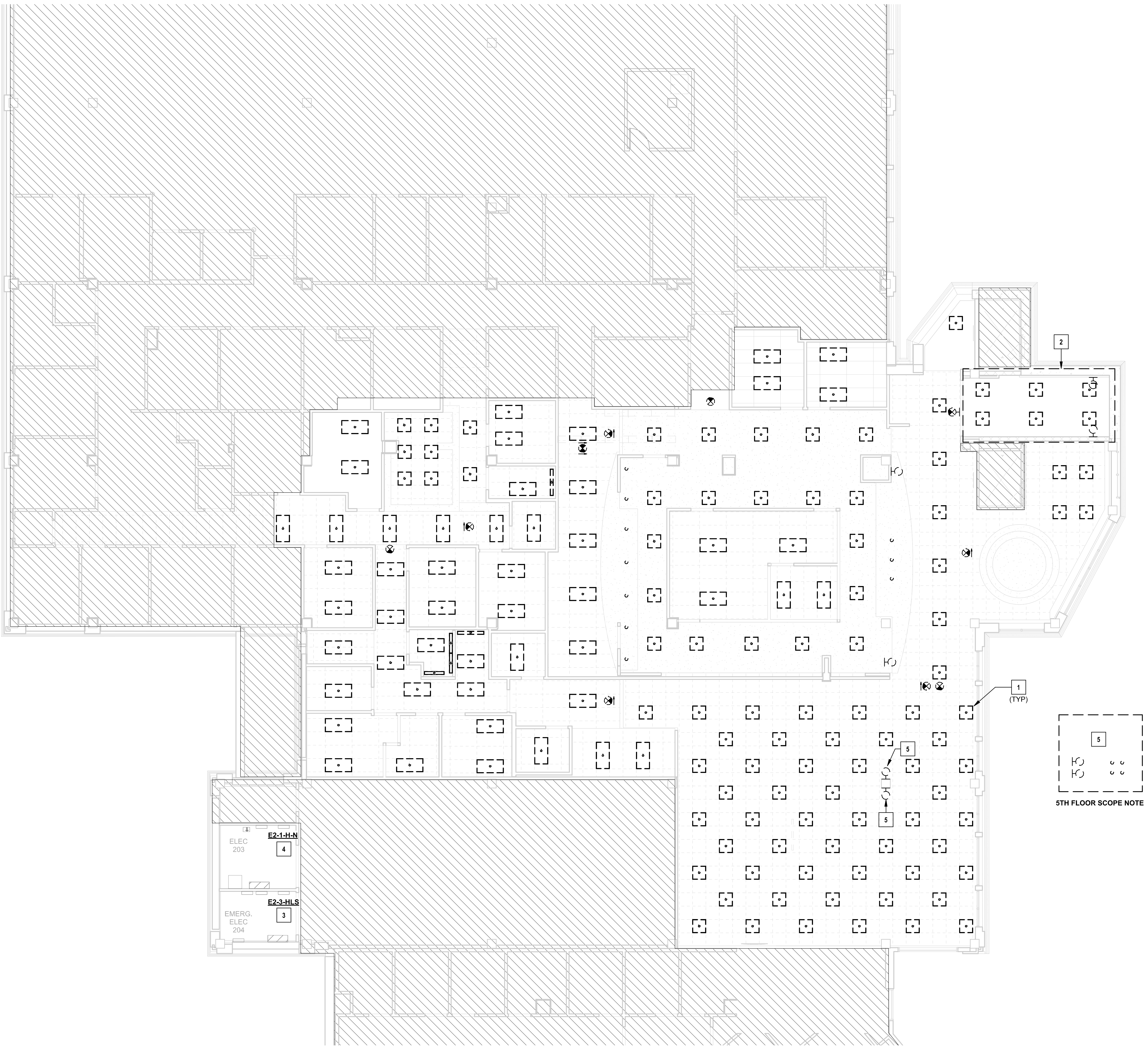
1 DEMOLISH EXISTING LIGHT FIXTURES, LIGHTING CONTROL DEVICES, AND THEIR ASSOCIATED SUPPORTS IN DEMOLITION AREA UNLESS OTHERWISE NOTED. REMOVE ALL CABLE AND CONDUITS BACK TO PANEL SOURCE. COORDINATE EQUIPMENT REMOVAL WITH OTHER TRADES. RETURN REMOVED LIGHT FIXTURES TO OWNER.

2 EXISTING LIGHT FIXTURES IN STAIRWELL SHALL BE DISCONNECTED AND REMOVED. LIGHTING CONTROL DEVICES AND BRANCH WIRING SHALL REMAIN FOR REUSE. REUSE EXISTING CABLES, CONDUIT, BACKBOXES, SUPPORTS, AND OTHER ASSOCIATED EQUIPMENT AS MUCH AS POSSIBLE. PROTECT EXISTING INFRASTRUCTURE THROUGHOUT DURATION OF CONSTRUCTION. REFER TO NEW LIGHTING PLAN FOR NEW LIGHT FIXTURE SPECIFICATION.

3 EXISTING LIFE SAFETY BRANCH PANELBOARD TO REMAIN AND BE REUSED. PULL BACK EXISTING CIRCUITS TO BE REMOVED TO THIS SOURCE AND EXTEND NEW CIRCUITS AS SHOWN ON NEW LIGHTING PLAN.

4 EXISTING NORMAL POWER BRANCH PANELBOARD TO REMAIN AND BE REUSED. PULL BACK EXISTING CIRCUITS TO BE REMOVED TO THIS SOURCE AND EXTEND NEW CIRCUITS AS SHOWN ON NEW LIGHTING PLAN.

5 EXISTING PENDANT LIGHT FIXTURES AND WALL SCONCES AT 5TH FLOOR SHALL BE DISCONNECTED, REMOVED AND SALVAGED FOR RE-USE ON THE 2ND FLOOR. CLEAN, STORE AND RE-INSTALL AT NEW LOCATION. REFER TO NEW PLANS FOR FIXTURES "B1" AND "C1". PROTECT EXISTING FIXTURE THROUGHOUT DURATION OF CONSTRUCTION. CLEAN AND RELAMP RELOCATED LIGHT FIXTURES UPON COMPLETION OF NEW WORK.



1 LIGHTING DEMOLITION PLAN
1/8" = 1'-0"

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LIGHTING DEMOLITION PLAN

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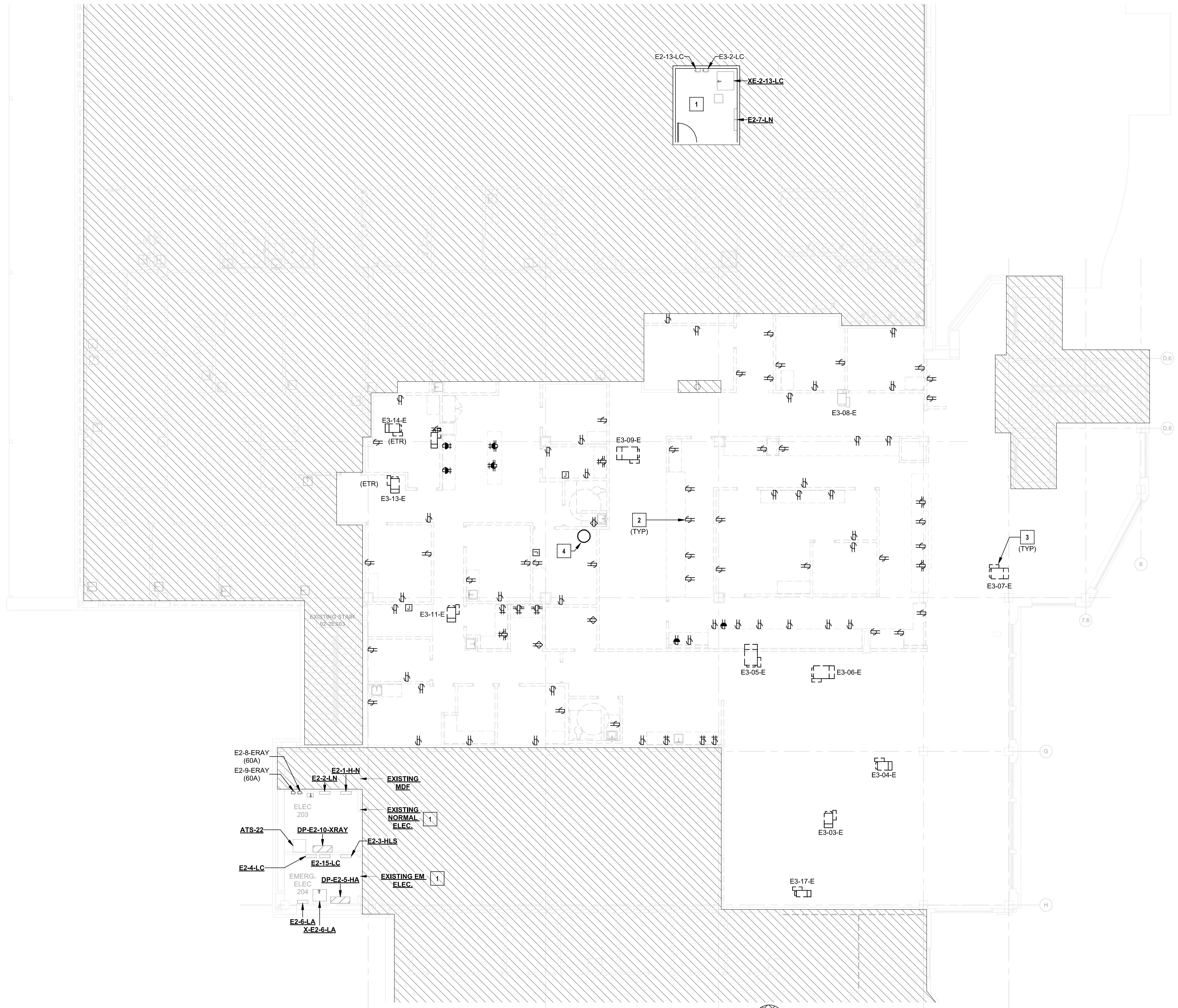
☐ ELECTRICAL DEMOLITION PLAN NOTES:

1 EXISTING ELECTRICAL EQUIPMENT WITHIN THIS CLOSET SHALL REMAIN. EXISTING CIRCUITS AND RACEWAYS SHALL BE PULLED BACK TO THE SOURCE. NEW CIRCUITS AND RACEWAYS SHALL BE EXTENDED FROM THIS LOCATION TO NEW DEVICES.

2 DEMOLISH EXISTING POWER OUTLET, ELECTRICAL DEVICES, JUNCTION BOXES AND THEIR ASSOCIATED SUPPORTS IN DEMOLITION AREA UNLESS OTHERWISE NOTED. REMOVE ALL CABLE AND CONDUITS BACK TO PANEL SOURCE. COORDINATE EQUIPMENT REMOVAL WITH OTHER TRADES.

3 DEMOLISH EXISTING POWER ASSOCIATED WITH DASHED MECHANICAL EQUIPMENT BEING REMOVED INCLUDING RACEWAYS, BRANCH WIRING, DISCONNECTS, JUNCTION BOXES AND THEIR ASSOCIATED SUPPORTS IN DEMOLITION AREA UNLESS OTHERWISE NOTED. REMOVE ALL CABLE AND CONDUITS BACK TO PANEL SOURCE. COORDINATE EQUIPMENT REMOVAL WITH OTHER TRADES.

4 MAINTAIN EXISTING BRANCH WIRING CONNECTED TO EXISTING EXHAUST FAN 9 AT ROOF LEVEL. FAN POWER SHALL BE DISCONNECTED AND MADE SAFE IN COORDINATION WITH MECHANICAL CONTRACTOR. WIRING SHALL BE RE-USED FOR NEW FAN.


E2-13-LC
E3-2-LC
XE-2-13-LC
1
E2-7-LN
E3-08-E
E3-14-E
(ETR)
E3-09-E
(ETR)
E3-13-E
2
(TYP)
3
(TYP)
E3-07-E
4
E3-11-E
EXISTING STAIR
E3-05-E
E3-06-E
E3-04-E
E3-03-E
E3-17-E
E2-8-ERAY
(60A)
E2-9-ERAY
(60A)
E2-1-H-N
E2-2-LN
EXISTING MDF
ELEC 203
EXISTING NORMAL ELEC.
1
ATS-22
DP-E2-10-XRAY
E2-3-HLS
E2-4-LC
E2-15-LC
EMERG. ELEC 204
DP-E2-5-HA
EXISTING EM ELEC.
1
E2-6-LA
X-E2-6-LA

① POWER DEMOLITION PLAN
1/8" = 1'-0"

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POWER DEMOLITION PLAN

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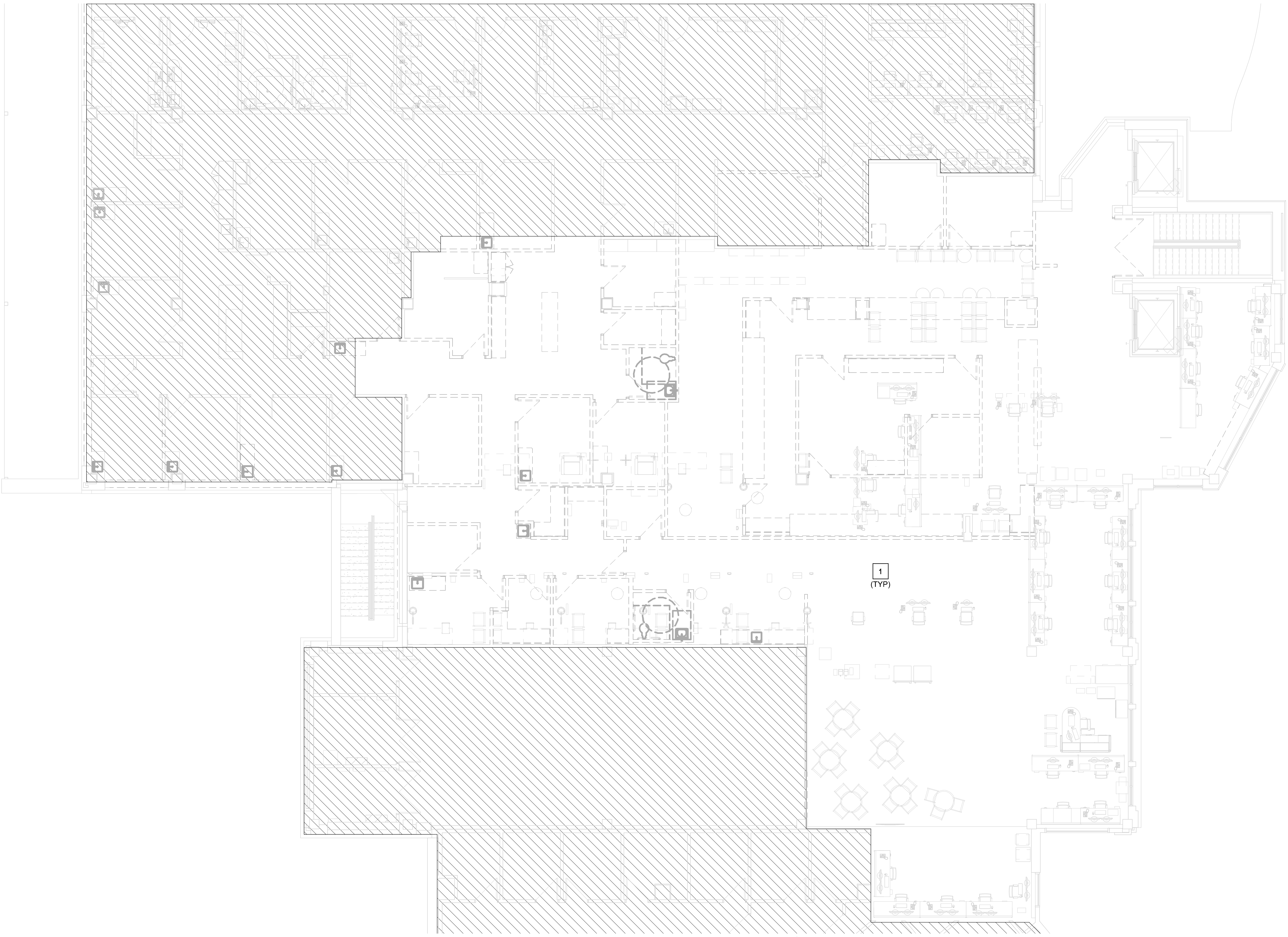
☐ ELECTRICAL DEMOLITION PLAN NOTES:

1 DEMOLISH EXISTING DATA DEVICES AND THEIR ASSOCIATED SUPPORTS IN DEMOLITION AREA UNLESS INDICATED TO REMAIN. REMOVE ALL CABLES AND CONDUITS BACK TO SOURCE. COORDINATE DEVICE REMOVAL WITH OTHER TRADES.



① SPECIAL SYSTEMS DEMOLITION PLAN
1/8" = 1'-0"

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SPECIAL SYSTEMS DEMOLITION PLAN

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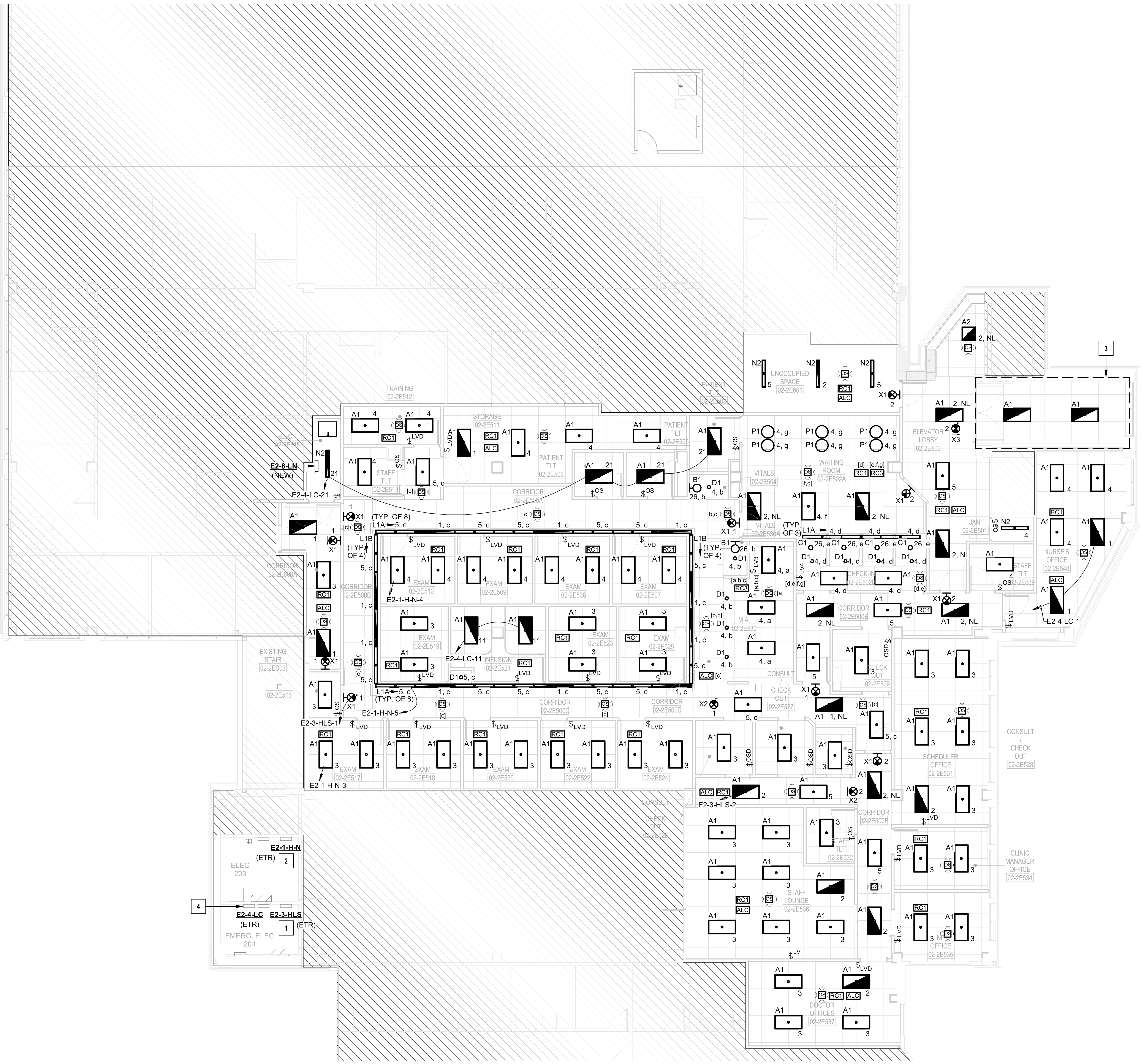

1
2
3
4
STAFF TLT 02-2E513
STORAGE 02-2E511
PATIENT TLT 02-2E506
PATIENT TLT 02-2E505
CORRIDOR 02-2E500
UNOCCUPIED SPACE 02-2E601
VITALS 02-2E504
WAITING ROOM 02-2E502A
ELEVATOR LOBBY 02-2E500
JAN 02-2E501
NURSE'S OFFICE 02-2E540
STAFF TLT 02-2E541
EXAM 02-2E510
EXAM 02-2E509
EXAM 02-2E508
EXAM 02-2E507
EXAM 02-2E519
INFUSION 02-2E521
EXAM 02-2E523
EXAM 02-2E525
M.A. 02-2E520
CHECK OUT 02-2E527
CONSULT
CHECK OUT 02-2E529
SCHEDULER OFFICE 02-2E531
CONSULT / CHECK OUT 02-2E528
CLINIC MANAGER OFFICE 02-2E534
OFFICE 02-2E535
CORRIDOR 02-2E500C
CORRIDOR 02-2E500D
CORRIDOR 02-2E500E
CORRIDOR 02-2E500F
EXAM 02-2E517
EXAM 02-2E518
EXAM 02-2E520
EXAM 02-2E522
EXAM 02-2E524
STAFF TLT 02-2E532
STAFF LOUNGE 02-2E536
DOCTOR OFFICES 02-2E537
ELEC 203
EMERG. ELEC 204
E2-1-H-N (ETR)
E2-4-LC (ETR)
E2-3-HLS (ETR)
E2-8-LN (NEW)
E2-4-LC-21
E2-4-LC-1
E2-4-LC-11
E2-1-H-N-4
E2-1-H-N-5
E2-1-H-N-3
E2-3-HLS-1
E2-3-HLS-2
L1A
L1B
(TYP. OF 8)
(TYP. OF 4)
A1
A2
B1
C1
D1
N2
P1
X1
X2
X3
2, NL
1, NL
4, g
4, a
4, d
26, e
LVD
OS
OSD
RC1
ALC

1 LIGHTING PLAN
1/8" = 1'-0"

☐ ELECTRICAL DEMOLITION PLAN NOTES:

1 EXISTING LIFE SAFETY BRANCH PANELBOARD TO REMAIN AND BE REUSED. EXTEND NEW LIGHTING CIRCUITS TO THIS PANEL.
2 EXISTING NORMAL POWER BRANCH PANELBOARD TO REMAIN AND BE REUSED. EXTEND NEW LIGHTING CIRCUITS TO THIS PANEL.
3 PROVIDE NEW LIGHT FIXTURES IN STAIRWELL. EXTEND EXISTING BRANCH WIRING AND CONDUIT TO NEW FIXTURE LOCATIONS. UTILIZE EXISTING CONTROLS. PROVIDE NEW SUPPORTS, AND OTHER ASSOCIATED EQUIPMENT AS NEEDED.
4 EXISTING CRITICAL BRANCH PANELBOARD TO REMAIN AND BE REUSED. EXTEND NEW LIGHTING CIRCUITS TO THIS PANEL.

LIGHTING CONTROL SEQUENCE OF OPERATIONS

A. HOURS/MODES OF OPERATION
General Note: Confirm all timeclock schedules and sensor time delays with owner prior to final programming.

B. GENERAL REQUIREMENTS
1. Timeclock: All interior light fixtures are locally controlled (not networked).
2. Emergency Lighting: All emergency lighting is powered from the building’s emergency generator. All emergency critical lighting shall be controlled as indicated on plans. Upon loss of power, all lights designated as critical shall be controlled normally unless otherwise noted.
3. All emergency lighting shall be controlled in tandem with normal lighting. Provide emergency load control relays listed for this purpose.

C. PATIENT EXAM ROOMS
1. Manual Control: Occupant can manually turn lights on/off and adjust dimming level via local switch(es) with indicated switch legs:

D. TOILET ROOMS
1. Manual Control: Occupant can manually turn lights on/off via local switch.

E. CORRIDORS, WAITING, CHECK-IN
1. Time Control: Lighting control system to automatically turn lights on/off during normal business hours.
2. Manual Control: Occupant can manually turn lights on/off and adjust dimming level via local switch.
3. Occupancy: During non business hours lights shall automatically turn off upon vacnacy. Sensors shall turn lights on to 50% upon occupancy.

F. NURSE STATION
1. Manual Control: Occupant can manually turn lights on/off and adjust dimming level via local switch(es).
    a. Switch leg “a”: Fixtures “A1” within Nurse Station.
    b. Switch leg “b”: Fixtures “C1” within Nurse Station.
    b. Switch leg “c”: shall follow the corridor sequence (refer to "E").

G. STAFF LOUNGE, CLEAN SUPPLY, CONSULT, OFFICES, PUBLIC TOILET, RECEPTION, SOILED HOLD
1. Manual Control: Occupant can manually turn lights on/off and adjust dimming level via local switch.
2. Occupancy: Lights shall automatically turn on to 50%. Occupant can then manually operate local switch to adjust dimming level of fixtures.
3. Vacancy: After 20 minutes, all controlled loads shall turn off.

H. ELECTRICAL ROOM
1. Manual Control: Occupant can manually turn lights on/off via local switch.

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E101

LIGHTING PLAN

CARSON A. MOSER
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☐ ELECTRICAL DEMOLITION PLAN NOTES:

1 PROVIDE POWER CONNECTION TO TELEVISION. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.

2 PROVIDE POWER CONNECTION TO AUTOMATIC DOOR OPERATOR EQUIPMENT. PROVIDE ALL WIRING AS REQUIRED FOR PROPER OPERATION. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH ARCHITECTURAL PLANS AND EQUIPMENT SUPPLIER.

3 PROVIDE COMBINATION USB-C AND USB-A TYPE RECEPTACLE FOR ALL USB LOCATIONS INDICATED.

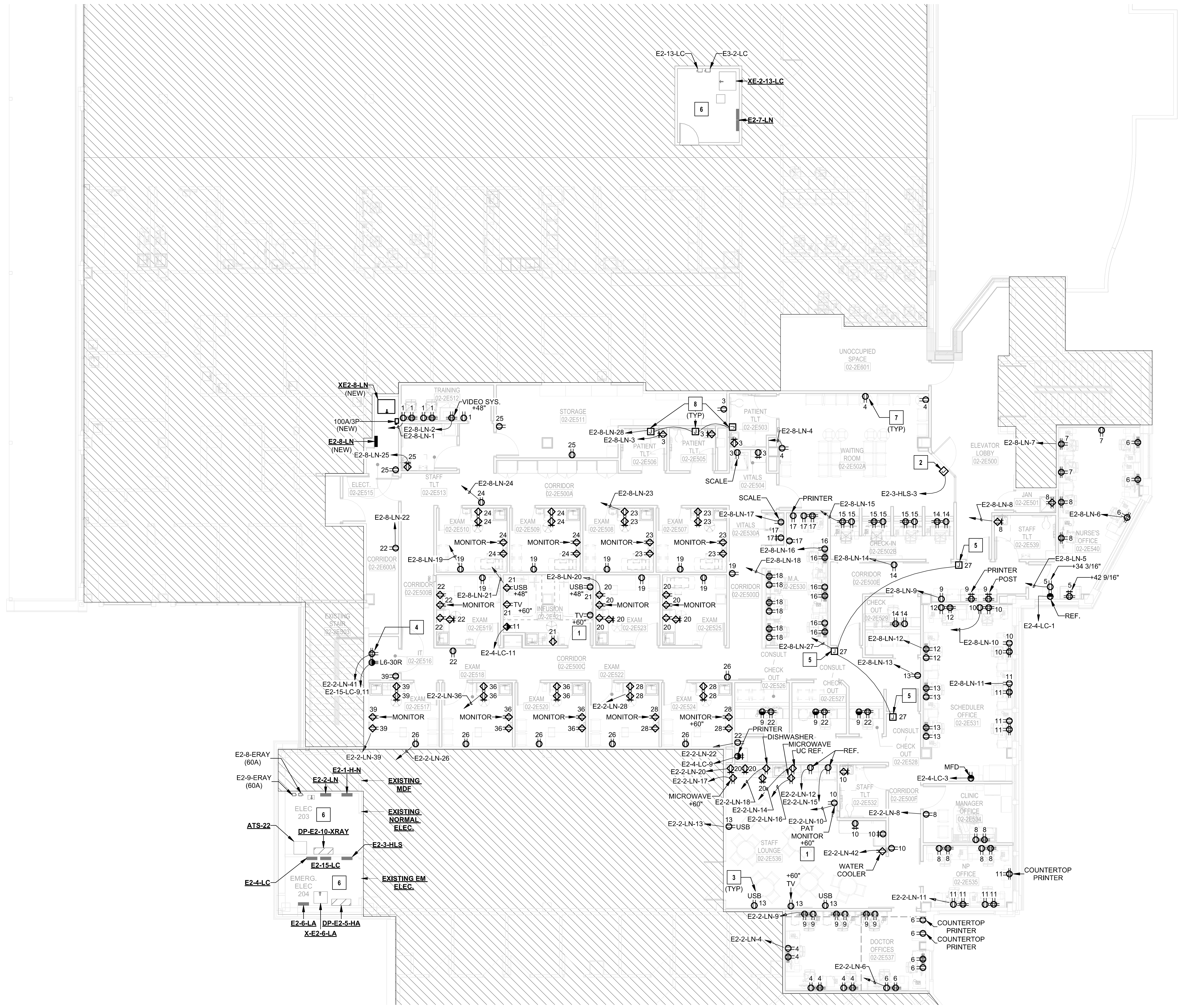
4 PROVIDE POWER CONNECTION TO DATA VERTICAL MANAGER. MOUNT RECEPTACLE AT BOTTOM OF RACK. COORDINATE FINAL LOCATION WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.

5 PROVIDE POWER CONNECTION TO ACCESS CONTROL POWER SUPPLY. PROVIDE ALL WIRING AS REQUIRED FOR PROPER OPERATION. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH ARCHITECTURAL PLANS AND EQUIPMENT SUPPLIER.

6 ALL PANELS AND EQUIPMENT WITHIN THIS ELECTRIC ROOM IS EXISTING TO REMAIN, UNLESS NOTED OTHERWISE.

7 ALL RECEPTACLES WITHIN THE WAITING ROOM SHALL BE TAMPER RESISTANT TYPE.

8 PROVIDE POWER FOR ELECTRONIC FAUCETS. COORDINATE INSTALLATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGHING IN.


E2-13-LC
E3-2-LC
XE-2-13-LC
E2-7-LN
6
XE2-8-LN (NEW)
100A/3P (NEW)
E2-8-LN (NEW)
TRAINING 02-2E517
VIDEO SYS. +48"
STORAGE 02-2E511
PATIENT TLT 02-2E503
WAITING ROOM 02-2E502A
UNOCCUPIED SPACE 02-2E601
ELEVATOR LOBBY 02-2E500
SCALE
PRINTER
VITALS 02-2E504
STAFF TLT 02-2E513
ELECT. 02-2E515
CORRIDOR 02-2E500A
EXAM 02-2E510
EXAM 02-2E509
EXAM 02-2E508
EXAM 02-2E507
MONITOR
USB +48"
TV +60"
INFUSION 02-2E521
CHECK-IN 02-2E502B
M.A. 02-2E530
CORRIDOR 02-2E500D
CORRIDOR 02-2E500E
CHECK OUT 02-2E529
CONSULT
JAN 02-2E501
STAFF TLT 02-2E539
NURSE'S OFFICE 02-2E540
PRINTER POST
REF.
E2-4-LC-1
L6-30R
E2-2-LN-41
E2-15-LC-9,11
IT 02-2E516
CORRIDOR 02-2E500C
EXAM 02-2E518
EXAM 02-2E517
EXAM 02-2E520
EXAM 02-2E522
EXAM 02-2E524
CHECK OUT 02-2E526
CHECK OUT 02-2E527
CHECK OUT 02-2E528
SCHEDULER OFFICE 02-2E531
DISHWASHER
MICROWAVE
UC REF.
MICROWAVE +60"
STAFF LOUNGE 02-2E536
STAFF TLT 02-2E532
CORRIDOR 02-2E500F
CLINIC MANAGER OFFICE 02-2E534
NP OFFICE 02-2E535
DOCTOR OFFICES 02-2E537
PAT MONITOR +60"
WATER COOLER
MFD
COUNTERTOP PRINTER
E2-8-ERAY (60A)
E2-9-ERAY (60A)
ATS-22
E2-1-H-N
E2-2-LN
EXISTING MDF
EXISTING NORMAL ELEC.
ELEC 203
DP-E2-10-XRAY
E2-3-HLS
E2-15-LC
E2-4-LC
EMERG. ELEC 204
EXISTING EM ELEC.
E2-6-LA
DP-E2-5-HA
X-E2-6-LA

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SUMMIT GI ADDITION
SAINT LUKE'S EAST
100 NE SAINT LUKE'S BLVD.
LEE'S SUMMIT MO 64086

Date	04/07/25
Job Number	3-24100
Drawn By	AR
Checked By	EG

Revision

Number	Date	Description

E201

POWER PLAN

CARSON A. MOSER
Autodesk Docs://3-24100 SLE Summit GI/2450004866 SLEH - Summit GI Second Floor - Lees Summit MO MEP v24.rvt

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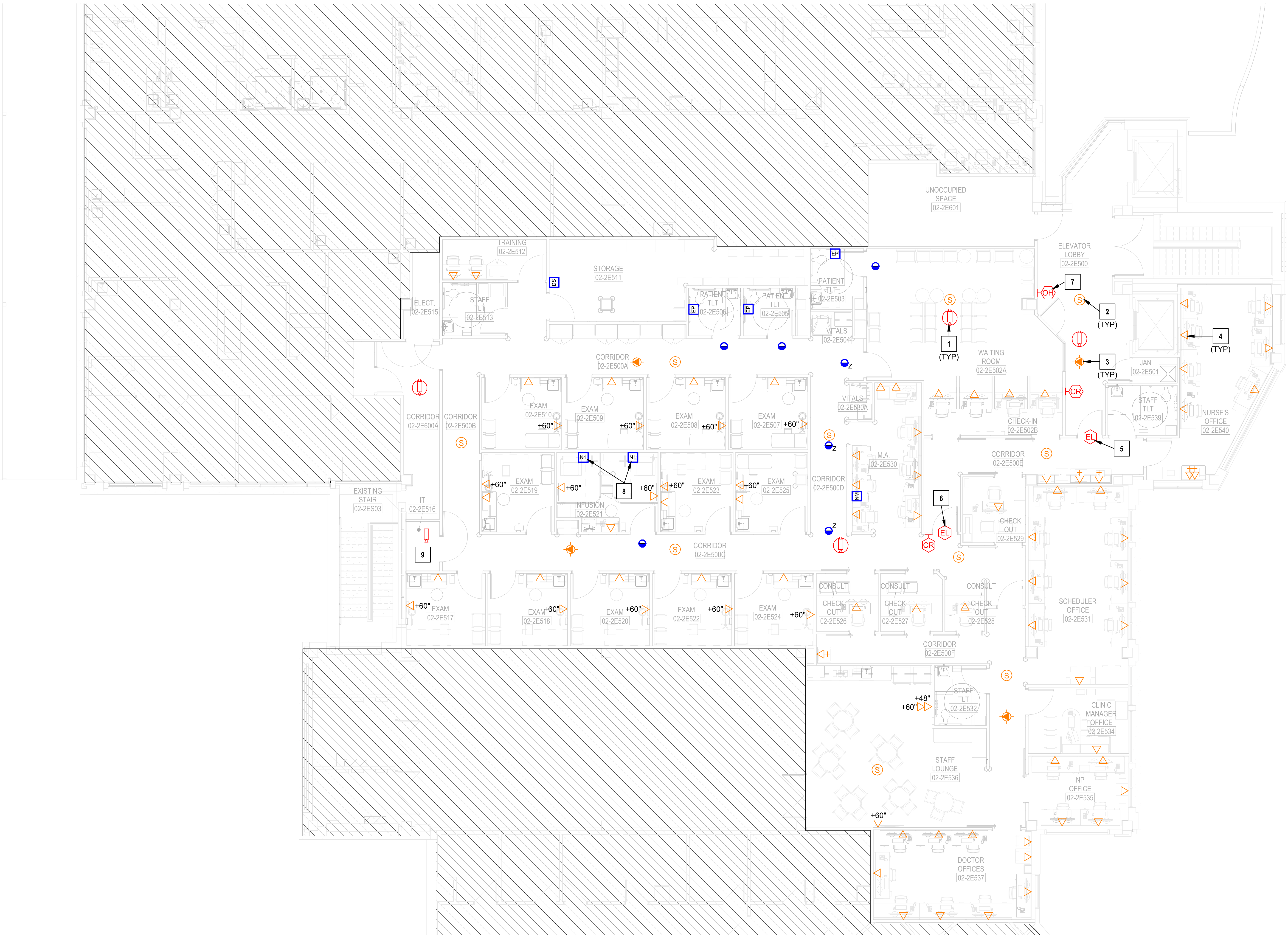
Autodesk Docs://3-24100 SLE Summit GI/2450004866 SLEH - Summit GI Second Floor - Lees Summit MO MEP v24.rvt

CARSON A. MOSER



UNOCCUPIED SPACE 02-2E601
TRAINING 02-2E512
STORAGE 02-2E511
PATIENT TLT 02-2E506
PATIENT TLT 02-2E505
PATIENT TLT 02-2E503
VITALS 02-2E504
ELEVATOR LOBBY 02-2E500
ELECT. 02-2E515
STAFF TLT 02-2E513
CORRIDOR 02-2E500A
WAITING ROOM 02-2E502A
JAN 02-2E501
STAFF TLT 02-2E539
NURSE'S OFFICE 02-2E540
CORRIDOR 02-2E500A
CORRIDOR 02-2E500B
EXAM 02-2E510
EXAM 02-2E509
EXAM 02-2E508
EXAM 02-2E507
VITALS 02-2E502A
CHECK-IN 02-2E502B
M.A. 02-2E530
CORRIDOR 02-2E500E
EXISTING STAIR 02-2E503
IT 02-2E516
EXAM 02-2E519
INFUSION 02-2E521
EXAM 02-2E523
EXAM 02-2E525
CORRIDOR 02-2E500D
CHECK OUT 02-2E529
CORRIDOR 02-2E500C
EXAM 02-2E517
EXAM 02-2E518
EXAM 02-2E520
EXAM 02-2E522
EXAM 02-2E524
CONSULT CHECK OUT 02-2E526
CONSULT CHECK OUT 02-2E527
CONSULT CHECK OUT 02-2E528
SCHEDULER OFFICE 02-2E531
CORRIDOR 02-2E500F
STAFF TLT 02-2E532
CLINIC MANAGER OFFICE 02-2E534
STAFF LOUNGE 02-2E536
NP OFFICE 02-2E535
DOCTOR OFFICES 02-2E537
1 (TYP)
2 (TYP)
3 (TYP)
4 (TYP)
5
6
7
8
9
+60"
+48"
N1
EP
CR
EL
OH
S
Z

① SPECIAL SYSTEMS PLAN
1/8" = 1'-0"

☐ ELECTRICAL PLAN NOTES:

1 PRELIMINARY LAYOUT FOR DATA SERVING CEILING MOUNTED VIDEO SURVEILLANCE CAMERA. CEILING MOUNTED ROUGH-IN BACK BOXES ARE NOT REQUIRED. PROVIDE ATTACHMENTS TO STRUCTURE ABOVE AS NEEDED BY SECURITY PROVIDER. COORDINATE FINAL LOCATION WITH SLH SECURITY PRIOR TO INSTALL.

2 PROVIDE OVERHEAD PAGING SPEAKERS. COORDINATE PAGING SYSTEM IN NEW WORK AREA TO MATCH REST FACILITY. SYSTEM SHALL BE TURN KEY.

3 PRELIMINARY LAYOUT FOR DATA SERVING CEILING MOUNTED WIRELESS ACCESS POINTS. CEILING MOUNTED ROUGH-IN BACK BOXES ARE NOT REQUIRED. PROVIDE ATTACHMENTS TO STRUCTURE ABOVE AS NEEDED BY WIRELESS ACCESS POINT PROVIDER. COORDINATE FINAL LOCATION WITH SLH IT PRIOR TO INSTALL.

4 ROUGH-IN FOR DATA WALL OUTLET. COORDINATE DATA CABLE/JACK QUANTITY WITH EQUIPMENT PLAN AND SLH IT PRIOR TO INSTALL.

5 ACCESS CONTROLLED DOOR. PROVIDE 6"X6" JUNCTION BOX ON SECURED SIDE OF DOOR. PROVIDE 3/4" CONDUIT FROM JUNCTION BOX TO CARD READER. PROVIDE 1/2" CONDUIT FROM JUNCTION BOX TO DOOR POSITION SWITCH AT TOP DOOR FRAME. PROVIDE 3/4" CONDUIT TO ELECTRIFIED TRANSFER HINGE. PANIC BAR SHALL HAVE INTEGRATED REQUEST-TO-EXIT AND ELECTRIFIED LOCK SET. SEE A-SHEETS AND DOOR HARDWARE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

6 ACCESS CONTROLLED DOOR. PROVIDE 6"X6" JUNCTION BOX ON SECURED SIDE OF DOOR. PROVIDE 3/4" CONDUIT FROM JUNCTION BOX TO CARD READER (SINGLE GANG). PROVIDE 1/2" CONDUIT FROM JUNCTION BOX TO DOOR POSITION SWITCH AT TOP DOOR FRAME. PROVIDE 3/4" CONDUIT TO ELECTRIFIED TRANSFER HINGE. PROVIDE 1/2" CONDUIT TO ALARM (SINGLE GANG) HIGH ON WALL ON SECURED SIDE OF DOOR. DELAYED EGRESS PANIC BAR SHALL HAVE INTEGRATED REQUEST-TO-EXIT AND ELECTRIFIED LOCK SET. SEE A-SHEETS DOOR HARDWARE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

7 HOLD OPEN DEVICE. PROVIDE 1/2" CONDUIT TO SINGLE GANG BOX AT HEIGHT DIRECTED BY ACCESS CONTROL INTEGRATOR. AT START OF BUSINESS, STAFF WILL OPEN DOOR THAT IS TO BE HELD OPEN WITH HOLD OPEN DEVICE. AT END OF BUSINESS, ACCESS CONTROL SYSTEM WILL RELEASE HOLD OPEN DEVICE TO CLOSE DOOR. COORDINATE SCHEDULE WITH SLH SECURITY.

8 PROVIDE PATIENT STATION WITH PILLOW SPEAKER. PATIENT STATION SHALL HAVE STAFF ASSIST. PILLOW SPEAKER SHALL BE INTEGRATED WITH TV VOLUME AND CHANNELS LOCATED IN THE ROOM. PILLOW SPEAKER SHALL BE ABLE TO CALL NURSE STAFF.

9 IT ROOM SERVING SPECIAL SYSTEMS DEVICES FOR THIS PROJECT. OUTFIT ROOM PER SLH SPECIFICATIONS AND COORDINATE WITH SLH IT PRIOR TO INSTALL.

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
04/17/2025

CARSON A. MOSER
NUMBER PE-2014015037

04/07/2025
CARSON A. MOSER
LICENSE # PE-2014015037

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MO. CORPORATE NO: E-556D
EXPIRES 10/31/2025

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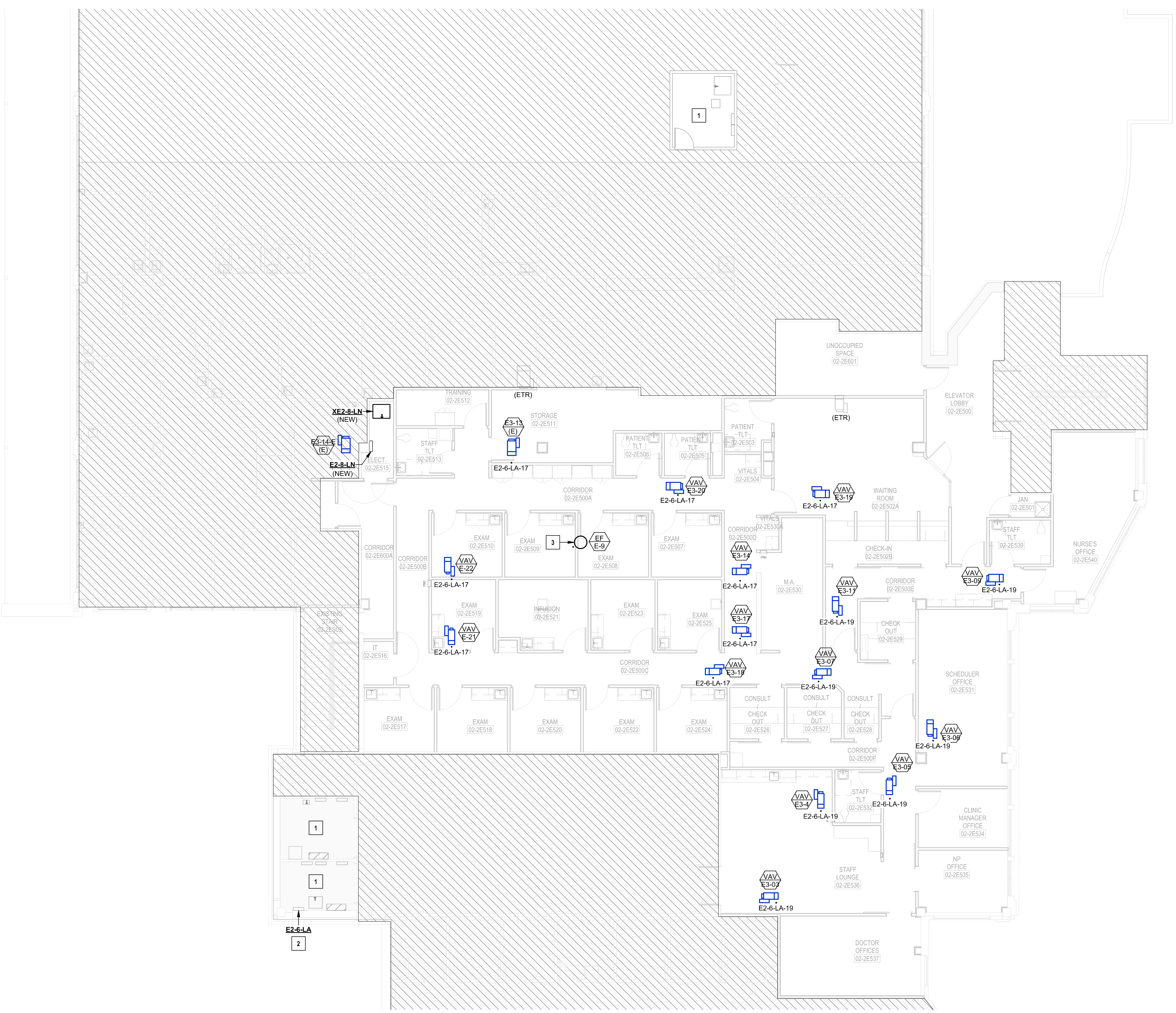
E205

SPECIAL SYSTEMS PLAN


UNOCCUPIED SPACE 02-2E601
TRAINING 02-2E512
(ETR)
STORAGE 02-2E511
E3-13 (E)
XE2-8-LN (NEW)
E3-14-E (E)
E2-8-LN (NEW)
ELECT. 02-2E515
STAFF TLT 02-2E513
E2-6-LA-17
PATIENT TLT 02-2E506
PATIENT TLT 02-2E505
PATIENT TLT 02-2E503
VITALS 02-2E504
(ETR)
ELEVATOR LOBBY 02-2E500
VAV E3-20
VAV E3-19
WAITING ROOM 02-2E502A
JAN 02-2E501
STAFF TLT 02-2E539
NURSE'S OFFICE 02-2E540
CORRIDOR 02-2E500A
CORRIDOR 02-2E600A
CORRIDOR 02-2E500B
EXAM 02-2E510
EXAM 02-2E509
3
EF E-9
EXAM 02-2E508
EXAM 02-2E507
VITALS 02-2E530A
CORRIDOR 02-2E500D
CHECK-IN 02-2E502B
VAV E-22
VAV E3-14
VAV E3-11
VAV E3-09
E2-6-LA-19
M.A. 02-2E530
CORRIDOR 02-2E500E
EXISTING STAIR 02-2ES03
EXAM 02-2E519
VAV E-21
INFUSION 02-2E521
EXAM 02-2E523
EXAM 02-2E525
VAV E3-17
CHECK OUT 02-2E529
IT 02-2E516
CORRIDOR 02-2E500C
VAV E3-18
VAV E3-07
SCHEDULER OFFICE 02-2E531
EXAM 02-2E517
EXAM 02-2E518
EXAM 02-2E520
EXAM 02-2E522
EXAM 02-2E524
CONSULT / CHECK OUT 02-2E526
CONSULT / CHECK OUT 02-2E527
CONSULT / CHECK OUT 02-2E528
VAV E3-06
CORRIDOR 02-2E500F
VAV E3-05
VAV E3-4
STAFF TLT 02-2E532
CLINIC MANAGER OFFICE 02-2E534
NP OFFICE 02-2E535
STAFF LOUNGE 02-2E536
VAV E3-03
DOCTOR OFFICES 02-2E537
1
1
1
E2-6-LA
2
N

① EQUIPMENT CONNECTION PLAN
1/8" = 1'-0"

GENERAL NOTES:

1. COORDINATE FINAL LOCATION WITH MECHANICAL AND PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
2. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION WITHIN THE DIVISION 26 SCOPE, SUCH AS INTERLOCKING WITH CONTROLS OR OTHER EQUIPMENT.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH DIVISION 22 & 23 CONTRACTORS TO PROVIDE EXACT POWER REQUIREMENTS FOR ALL SUBMITTED EQUIPMENT THAT DIFFERS FROM THE BASIS OF DESIGN.

☐ ELECTRICAL PLAN NOTES:

1 ALL PANELS AND EQUIPMENT WITHIN THIS ELECTRIC ROOM IS EXISTING TO REMAIN, UNLESS NOTED OTHERWISE.
2 EXISTING EQUIPMENT BRANCH PANELBOARD TO REMAIN AND BE REUSED. EXTEND NEW VAV CIRCUITS TO THIS PANEL.
3 CONNECT EXISTING FAN POWER TO NEW FAN IN COORDINATION WITH MECHANICAL CONTRACTOR. PROVIDE NEW EXTERIOR RATED SAFETY DISCONNECT.

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~~As Noted on Plans Review~~
Development Services Department
Lee's Summit, Missouri
04/17/2025

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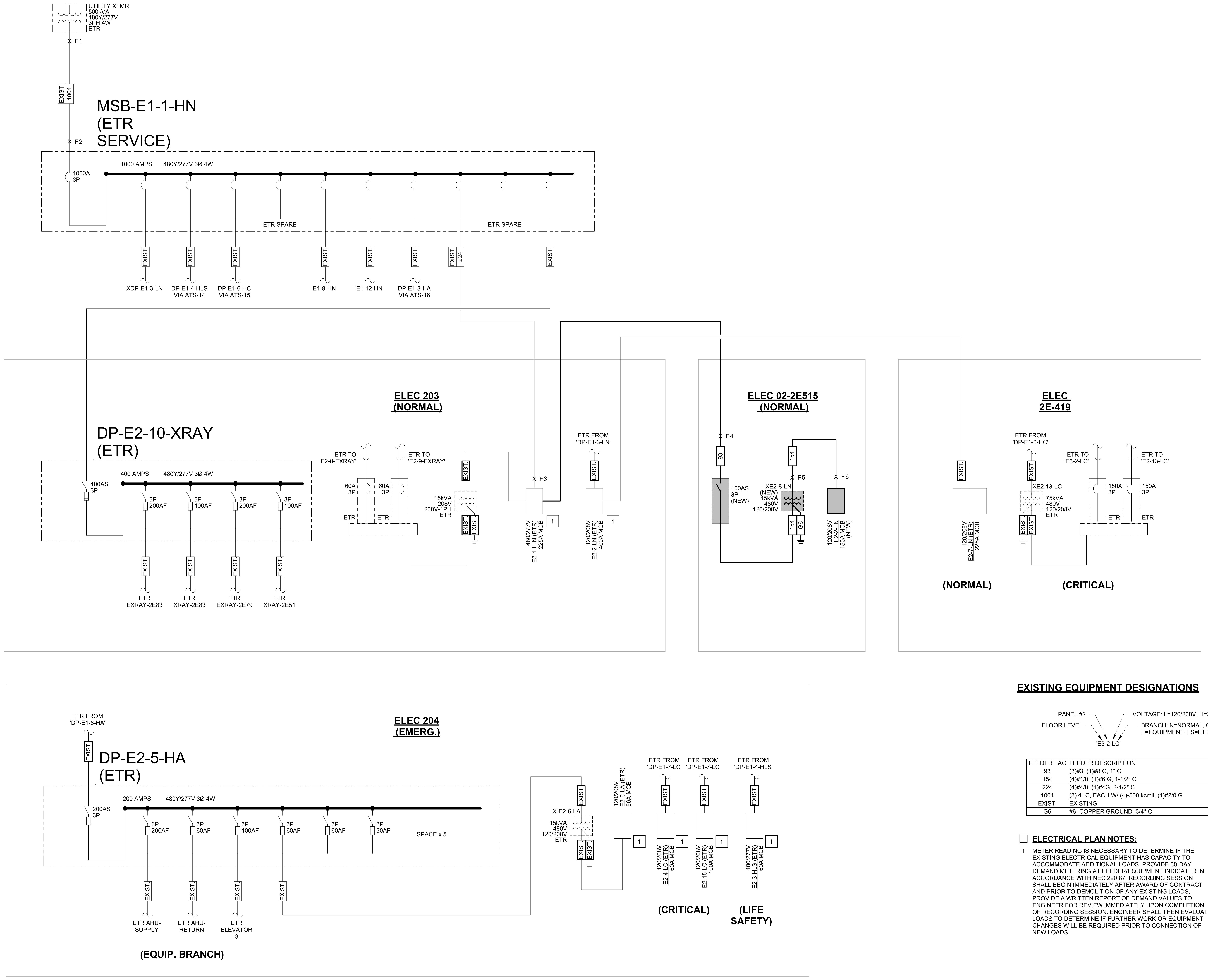
E301

EQUIPMENT CONNECTION PLAN


UTILITY XFMR
500kVA
480Y/277V
3PH,4W
ETR
X F1
EXIST. 1004
MSB-E1-1-HN
(ETR
SERVICE)
X F2
1000 AMPS 480Y/277V 3Ø 4W
1000A
3P
ETR SPARE
ETR SPARE
EXIST.
EXIST. 224
XDP-E1-3-LN
DP-E1-4-HLS
VIA ATS-14
DP-E1-6-HC
VIA ATS-15
E1-9-HN
E1-12-HN
DP-E1-8-HA
VIA ATS-16
DP-E2-10-XRAY
(ETR)
400 AMPS 480Y/277V 3Ø 4W
400AS
3P
3P
200AF
3P
100AF
3P
200AF
3P
100AF
ETR
EXRAY-2E83
ETR
XRAY-2E83
ETR
EXRAY-2E79
ETR
XRAY-2E51
ELEC 203
(NORMAL)
ETR TO
'E2-8-EXRAY'
ETR TO
'E2-9-EXRAY'
60A
3P
60A
3P
ETR
ETR
15kVA
208V
208V-1PH
ETR
X F3
480/277V
E2-1-H-N (ETR)
225A MCB
1
ETR FROM
'DP-E1-3-LN'
120/208V
E2-2-LN (ETR)
400A MCB
1
ELEC 02-2E515
(NORMAL)
X F4
93
100AS
3P
(NEW)
154
X F5
XE2-8-LN
(NEW)
45kVA
480V
120/208V
154
G6
X F6
120/208V
E2-2-LN
150A MCB
(NEW)
ELEC
2E-419
ETR FROM
'DP-E1-6-HC'
ETR TO
'E3-2-LC'
ETR TO
'E2-13-LC'
XE2-13-LC
75kVA
480V
120/208V
ETR
150A
3P
150A
3P
ETR
ETR
120/208V
E2-7-LN (ETR)
225A MCB
(NORMAL)
(CRITICAL)
ETR FROM
'DP-E1-8-HA'
DP-E2-5-HA
(ETR)
200 AMPS 480Y/277V 3Ø 4W
200AS
3P
3P
200AF
3P
60AF
3P
100AF
3P
60AF
3P
60AF
3P
30AF
SPACE x 5
ETR AHU-
SUPPLY
ETR AHU-
RETURN
ETR
ELEVATOR
3
(EQUIP. BRANCH)
ELEC 204
(EMERG.)
X-E2-6-LA
15kVA
480V
120/208V
ETR
120/208V
E2-6-LA (ETR)
50A MCB
1
ETR FROM
'DP-E1-7-LC'
ETR FROM
'DP-E1-7-LC'
ETR FROM
'DP-E1-4-HLS'
120/208V
E2-4-LC (ETR)
60A MCB
120/208V
E2-15-LC (ETR)
100A MCB
480/277V
E2-3-HLS (ETR)
60A MCB
(CRITICAL)
(LIFE
SAFETY)

① ELECTRICAL ONELINE
NTS

Short-Circuit and Voltage Drop Calculations

Version
2.13

Distances are for calculation purposes only and shall not be used for contractor takeoffs nor bidding - Contractor shall notify Engineer of any field condition that results in a change of 10% or greater circuit distance

The following calculations are based on the "Point-by-Point" method where:

ISC (2) = ISC(1) x M(1) M= 1/(1+f)

ISC (1) = short circuit current at fault point 1

ISC (2) = short circuit current at fault point 2

Feeder: $f(3\varnothing) = \frac{1.732 \times L \times Isc}{C \times E}$

Feeder: $f(1\varnothing) = \frac{2 \times L \times Isc}{C \times E}$

XFMR: $f(3\varnothing) = \frac{IP(sca) \times Vp \times 1.73 \times \%Z}{100{,}000 \times KVA}$

XFMR: $f(1\varnothing) = \frac{IP(sca) \times Vp \times \%Z}{100{,}000 \times KVA}$

$IS(sca) = \frac{Vp \times M \times IP(sca)}{Vs}$

VOLTAGE DROP (3Ø):
%VD = ((R x cos(arccos(pf)) + X x sin (arccos(pf))) x L/# x I x 1.73) / E
VOLTAGE DROP (1Ø):
%VD = ((R x cos(arccos(pf)) + X x sin(arccos(pf))) x 2 x L/# x I) / E

E = Line to line volts
IP = Primary short circuit current
Vp = Primary voltage
IS= Secondary short circuit current
Vs= Secondary voltage
L = Length of circuit
C = "C" Factor from Bussman table where "C" = 1 / impedance per linear foot

%VD CUM = Cumulative Voltage Drop from Fault Point 1 to Fault Point #
R = resistance in ohms per LF
X = reactances in ohms per LF

Feeder Types: NM - Non Magnetic Conduit, M - Magnetic Conduit, FB - Feeder Busway, PB - Plug-in Busway, TX - Transformer

System Voltage: 480Y/277V - 3 phase

Date of Calculations: 04/06/2025

Fault Point (F#)	Bus/Feeder Description	Source (Fault Point)	Phase	Source Isc (amps)	Feeder			Conductor 'C' Value	Busway 'C' Value	L-L Voltage (E)	Circuit Length (L)	Load Power Factor (pf)	Circuit Load (Amperage)	Conductor			Transformer							f	M	Fault Current (amps)	Voltage Drop (%VD)	Cumulative Voltage Drop (%VD)	Fault Point (F#)
					Conduit Type/ TX	Material	Quantity of Parallel Sets and Bus/ Phase & Neutral Size							Resistance (R)	Reactance (X)	Arccos (pf) (Radians)	Type	Degree Rise	kVA	New Xfmr Z	Existing Xfmr Z	Secondary Voltage	Tap Setting						
1	Utility Service Point			56,057	at the secondary of the utility transformer																				Source Isc + 6X Motor Contribution =	58,457			1
	Motor Contribution			400	The connected full load motor amps (includes compressors) on the system																								
2	MSB-E1-1-HN	1	3	58,457	NM	CU	3 Set(s) of 500 kcmil	26706	--	480	75	0.9	800	0.000027	0.000039	0.451027								0.197	0.84	48,817	-0.30%	-0.30%	2
3	E2-1-H-N	2	3	48,817	M	CU	1 Set(s) of 4/0 AWG	15082	--	480	20	0.9	61	0.000063	0.000051	0.451027								0.234	0.81	39,573	-0.03%	-0.33%	3
4	XE2-8-LN PRI	3	3	39,573	M	CU	1 Set(s) of 3 AWG	4774	--	480	75	0.9	33	0.000250	0.000059	0.451027								2.243	0.31	12,201	-0.22%	-0.56%	4
5	XE2-8-LN SEC	4	3	12,201	TX					208							DOE	150	45	3.51		208		3.429	0.23	2,755		-0.56%	5
6	E2-8-LN	5	3	2,755	M	CU	1 Set(s) of 1/0 AWG	8925	--	208	8	0.7	47	0.000120	0.000055	0.795399								0.021	0.98	2,700	-0.04%	-0.60%	6

ONE-LINE DIAGRAM GENERAL NOTES:

1. THE INFORMATION SHOWN IN THE SHORT-CIRCUIT AND VOLTAGE DROP CALCULATION SCHEDULE(S) ARE SHOWN FOR CALCULATION PURPOSES ONLY. CONTRACTOR SHALL NOT USE THE CONDUIT TYPES, CONDUCTOR TYPES, SIZES, QUANTITIES OR LENGTHS FOR TAKEOFFS OR BIDDING PURPOSES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THIS SCHEDULE AND OTHER PORTIONS OF THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL NOTIFY ENGINEER OF AS-BUILT CONDITIONS THAT CONSTITUTE A CHANGE FROM WHAT IS SHOWN BELOW; THIS INCLUDES CONDUCTOR LENGTHS DIFFERING BY MORE THAN 10%.
2. REFER TO THE SHORT-CIRCUIT AND VOLTAGE DROP CALCULATIONS TABLE ON THIS SHEET. AVAILABLE FAULT CURRENT INFORMATION IS LISTED UNDER THE "FAULT CURRENT" COLUMN. VOLTAGE DROP VALUES ARE LISTED UNDER THE "CUMULATIVE VOLTAGE DROP" COLUMN. THE AIC/SCCR RATING OF THE EQUIPMENT SHALL NOT BE LESS THAN THE AVAILABLE 3-PHASE SYMMETRICAL FAULT CURRENT +10%. ALL SERIES RATED EQUIPMENT SHALL BE PROPERLY LISTED AND LABELED PER CODE.
3. FEEDER NUMBER DESIGNATIONS PRECEDED BY "V" INDICATE THAT THE CONDUCTORS ARE UP-SIZED DUE TO VOLT-DROP CONSIDERATIONS. EQUIPMENT GROUND WIRE SHALL BE INCREASED IN SIZE PER CODE. PROVIDE LUG ADAPTERS AS NEEDED IN ORDER TO PROPERLY LAND CONDUCTORS AT TERMINATION(S).
4. FEEDER SIZES ARE BASED ON COPPER (CU) THHN/THWN-2 INSULATION, UNLESS NOTED OTHERWISE. NUMBER DESIGNATIONS PRECEDED BY "A" INDICATE THAT THE SIZE IS BASED ON ALUMINUM (AL) WIRE. AL CONDUCTOR SIZES ARE BASED ON XHHW-2 INSULATION, UNLESS NOTED OTHERWISE. AL WIRE MAY BE SUBSTITUTED FOR CU FEEDERS AS ALLOWED BY CODE, SPECIFICATIONS AND OWNER, UNLESS NOTED OTHERWISE. AT CONTRACTOR'S OPTION, CU WIRE MAY BE SUBSTITUTED FOR AL, UNLESS NOTED OTHERWISE. ALL CONDUCTOR SIZES ARE BASED ON 75 DEG C RATED TERMINATIONS, UNLESS NOTED OTHERWISE. CONDUIT SIZES SHOWN ARE APPROPRIATE FOR SCHEDULE 40 PVC, EMT, GRS, IMC AND RMC; ADJUST SIZE AS NEEDED FOR OTHER RACEWAY TYPES. FOR ANY OTHER CONDITIONS MODIFY SIZES PER CODE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. INSTALL FEEDERS OVERHEAD AS HIGH AS PRACTICABLE AND ORTHOGONALLY ALONG BUILDING STRUCTURE, UNLESS NOTED OTHERWISE. COORDINATE FINAL ROUTING WITH OTHER TRADES.
6. PROVIDE CIRCUIT BREAKER FRAME SIZE AND TERMINATIONS FOR CONDUCTORS SHOWN. TRIP UNIT MODULE RATING SHALL NOT EXCEED RATING SHOWN.
7. PROVIDE PERMANENT LABELS ON FRONT OF ELECTRICAL EQUIPMENT ENCLOSURES PER SPECIFICATIONS, INDUSTRY STANDARDS, AND LOCAL REQUIREMENTS.
8. GROUNDING ELECTRODE SYSTEM SHALL BE PER LOCAL REQUIREMENTS AND SHALL NOT BE LESS STRINGENT THAN THAT SPECIFIED IN THE CONSTRUCTION DOCUMENTS.
9. PROVIDE PROPERLY SIZED LUGS FOR ALL EQUIPMENT, CIRCUIT BREAKERS, AND OTHER ELECTRICAL DEVICES TO ACCOMMODATE INSTALLED CONDUCTORS. A LARGER FRAME, OVERSIZED LUGS OR NON-STANDARD PRODUCT MAY BE REQUIRED IN SOME INSTANCES. UTILIZE PIN ADAPTERS ONLY IF NECESSARY AND ONLY AS ALLOWED BY MANUFACTURER AND AHJ.
10. PROVIDE TYPED FINAL CIRCUIT DIRECTORY FOR ALL PANELBOARDS TO REFLECT ACTUAL AS-BUILT CONDITIONS. COORDINATE FINAL ROOM NAMES, NUMBERS AND DESCRIPTIONS WITH OWNER PRIOR TO COMPLETION. CIRCUIT DESCRIPTIONS SHALL BE PER CODE AND SHALL BE DISTINGUISHABLE FROM ALL OTHERS.

OVERCURRENT PROTECTIVE DEVICE COORDINATION STUDY GENERAL NOTE:

1. CONTRACTOR SHALL PROVIDE AN OVERCURRENT PROTECTIVE DEVICE COORDINATION STUDY TO DETERMINE THE CORRECT SETTINGS FOR THE ADJUSTABLE TRIP CIRCUIT BREAKERS, TO ENSURE SELECTIVE COORDINATION AND TO DOCUMENT ARC-FLASH HAZARDS. CODE REQUIRED EMERGENCY AND LEGALLY REQUIRED STANDBY SYSTEMS SHALL BE SELECTIVELY COORDINATED WITH ALL SUPPLY-SIDE OVERCURRENT PROTECTIVE DEVICES (APPLIES TO BOTH THE NORMAL AND EMERGENCY POWER SOURCES). PROVIDE ALL NECESSARY AS-BUILT INFORMATION REQUIRED FOR COMPLETION OF THE STUDY TO THE ENGINEER DOING THE STUDY. PROVIDE SUBMITTALS INDICATED WITHIN THE SPECIFICATIONS TO OWNER AND ARCHITECT/ENGINEER TO CONFIRM STUDY HAS BEEN COMPLETED. CONTRACTOR SHALL INCLUDE THE COST FOR THIS WORK IN THEIR BID. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

EXISTING EQUIPMENT DESIGNATIONS

PANEL #?
FLOOR LEVEL
VOLTAGE: L=120/208V, H=280/277V
BRANCH: N=NORMAL, C=CRITICAL, E=EQUIPMENT, LS=LIFE SAFETY
'E3-2-LC'

FEEDER TAG	FEEDER DESCRIPTION
93	(3)#3, (1)#8 G, 1" C
154	(4)#1/0, (1)#6 G, 1-1/2" C
224	(4)#4/0, (1)#4G, 2-1/2" C
1004	(3) 4" C, EACH W/ (4)-500 kcmil, (1)#2/0 G
EXIST.	EXISTING
G6	#6 COPPER GROUND, 3/4" C

☐ ELECTRICAL PLAN NOTES:

1 METER READING IS NECESSARY TO DETERMINE IF THE EXISTING ELECTRICAL EQUIPMENT HAS CAPACITY TO ACCOMMODATE ADDITIONAL LOADS. PROVIDE 30-DAY DEMAND METERING AT FEEDER/EQUIPMENT INDICATED IN ACCORDANCE WITH NEC 220.87. RECORDING SESSION SHALL BEGIN IMMEDIATELY AFTER AWARD OF CONTRACT AND PRIOR TO DEMOLITION OF ANY EXISTING LOADS. PROVIDE A WRITTEN REPORT OF DEMAND VALUES TO ENGINEER FOR REVIEW IMMEDIATELY UPON COMPLETION OF RECORDING SESSION. ENGINEER SHALL THEN EVALUATE LOADS TO DETERMINE IF FURTHER WORK OR EQUIPMENT CHANGES WILL BE REQUIRED PRIOR TO CONNECTION OF NEW LOADS.

ONE-LINE DIAGRAM GENERAL NOTES (REMODEL PROJECT):

1. COORDINATE WORK WITH ARCHITECTURAL PHASING DRAWINGS TO PROPERLY STAGE TRANSITION TO PROVIDE POWER TO EXISTING, NEW AND TEMPORARY LOADS. MONITOR LOADS ON DISTRIBUTION SYSTEM TO MAKE SURE SHIFTING OF LOADS DOES NOT OVERLOAD ELECTRICAL EQUIPMENT.
2. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE EXISTING AIC/SCCR RATING OF EACH PANELBOARD/SWITCHBOARD. ALL NEW AND EXISTING OVER-CURRENT PROTECTION DEVICES (CIRCUIT BREAKERS AND FUSES) MUST HAVE AN AIC/SCCR RATING EXCEEDING THE AVAILABLE FAULT CURRENT AT THAT POINT IN THE SYSTEM. NOTIFY THE OWNER AND THE ENGINEER IF THE EXISTING EQUIPMENT DOES NOT COMPLY WITH THIS REQUIREMENT.
3. VERIFY THE INTEGRITY OF THE EXISTING GROUNDING ELECTRODE SYSTEM AND THAT THE NEUTRAL AND GROUND ARE PROPERLY BONDED TOGETHER AT THE POINT OF SERVICE ENTRANCE. NOTIFY THE LANDLORD, OWNER AND THE ENGINEER OF ANY EXISTING DEFICIENCIES.
4. VACUUM CLEAN ALL NEW AND EXISTING ELECTRICAL EQUIPMENT ALTERED UNDER THIS PROJECT TO REMOVE FOREIGN DEBRIS AND DUST. ALL OPENINGS SHALL BE SEALED PER CODE; PROVIDE LISTED KNOCKOUT PLUGS AND CIRCUIT BREAKER BLANKS AS NEEDED.

ELECTRICAL UTILITY CONTACT NOTE:

UTILITY COMPANY: **EVERGY**

FAULT CURRENT GENERAL NOTE (ESTIMATED VALUE):

THE MAXIMUM AVAILABLE 3-PHASE SYMMETRICAL FAULT CURRENT VALUE AT THE UTILITY TRANSFORMER SECONDARY/POINT OF SERVICE COULD NOT BE DETERMINED AT THE TIME OF THIS SUBMITTAL. THE ESTIMATED WORST CASE VALUE OF 56,057 AMPS IS BASED ON A SHORT CIRCUIT STUDY PERFORMED IN 2006 AT THE TIME OF ORIGINAL BUILDING CONSTRUCTION AT THE UTILITY TRANSFORMER. CONTRACTOR SHALL VERIFY ACTUAL AVAILABLE FAULT CURRENT VALUE WITH UTILITY. NOTIFY ENGINEER IF ACTUAL VALUE EXCEEDS ESTIMATED CALCULATED VALUE. ESTIMATED DESIGN VALUE IS BASED ON THE FOLLOWING:

UTILITY TRANSFORMER SECONDARY VOLTAGE: 480Y/277V, 3∅, 4W

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
04/17/2025

CARSON A. MOSER
NUMBER
PE-2014015037

04/07/2025
CARSON A. MOSER
LICENSE # PE-2014015037

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TEL 913.894.9720 **FAX** 913.894.9051
WWW.HENDERSONENGINEERS.COM
2450004866
MO. CORPORATE NO: E-556D
EXPIRES 10/31/2025

SUMMIT GI ADDITION
SAINT LUKE'S EAST
100 NE SAINT LUKE'S BLVD.
LEE'S SUMMIT MO 64086

Date	04/07/25
Job Number	3-24100
Drawn By	AR
Checked By	EG

Revision

Number	Date	Description

E400

ELECTRICAL ONE-LINE DIAGRAM

4/7/2025 2:16:39 PM

COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: SLEH - Summit GI Second Floor
Project Type: Alteration

Construction Site:
100 NE Saint Like's Blvd.
Lee's Summit, Missouri 64086

Owner/Agent:
Saint Luke's East Hospital
100 NE Saint Like's Blvd.
Lee's Summit, Missouri 64086

Designer/Contractor:
Alex Rezendes
Henderson Engineers
1091 West 84th Terrace, Suite 300
Lenexa, Kansas 66214
913-742-5334
alex.rezendes@hendersonengineers.com

Efficiency Packages

Description	Credit

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Renovation (Healthcare Facility:Exam/Treatment)	7833	1.68	13159
		Total Allowed Watts =	13159

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Renovation (Healthcare Facility: Exam/Treatment, 7833 sq.ft.)				
A1: A1: LED:	0	96	37	3552
A2: A2: LED:	0	1	22	22
B1: B1: LED:	0	2	25	50
C1: C1: LED:	0	4	30	120
D1: D1: LED:	0	9	19	171
L1A: L1A: LED:	0	19	48	912
L1B: L1B: LED:	0	8	46	368
N1: N1: LED:	0	5	33	165
P1: P1: LED:	0	6	24	144
			Total Proposed Watts =	5504

Proposed Interior Lighting Controls

Fixture	Lighting Control

Fixture	Lighting Control
Renovation (Healthcare Facility: Exam/Treatment, 7833 sq.ft.)	
A1: A1: LED:	Occupancy Sensor, Manual Control
A2: A2: LED:	Occupancy Sensor, Manual Control
B1: B1: LED:	Occupancy Sensor, Manual Control
C1: C1: LED:	Occupancy Sensor, Manual Control
D1: D1: LED:	Occupancy Sensor, Manual Control
L1A: L1A: LED:	Occupancy Sensor, Manual Control
L1B: L1B: LED:	Occupancy Sensor, Manual Control
N1: N1: LED:	Occupancy Sensor, Manual Control
P1: P1: LED:	Occupancy Sensor, Manual Control

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title	Signature	Date
Alex Rezendes - Electrical Designer	Alex Rezendes	04/02/2025

COMcheck Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2018 IECC

Requirements: 100.0% were addressed directly in the COM*check* software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Drawing E500

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2.2 [EL22][1]	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Drawing E101
C405.2.1, C405.2.1.1 [EL18][1]	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Drawing E101
C405.2.1.2 [EL19][1]	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.1.3 [EL20][1]	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Drawing E101
C405.2.2, C405.2.2.1, C405.2.2.2 [EL21][2]	Each area not served by occupancy sensors (per C405.2.1) have time-switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Drawing E101

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3, C405.2.3.1, C405.2.3.2 [EL23][2]	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Spaces where health patient care is directly provided.
C405.2.4 [EL26][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Drawing E101
C405.2.4 [EL27][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Drawing E101
C405.6 [EL26][2]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** 26 22 00 - Low-Voltage Transformers
C405.7 [EL27][2]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.8.2, C405.8.2.1 [EL28][2]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.9 [EL29][2]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Drawing E400

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17][3]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.3.1 [FI18][1]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Interior Lighting fixture schedule for values.*
C408.1.1 [FI57][1]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5.1 [FI16][3]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.3 [FI33][1]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** Drawing E000 Requirements

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

RELEASED FOR CONSTRUCTION
~~As Noted on Plans Review~~
Development Services Department
Lee's Summit, Missouri
04/17/2025

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LICENSE # PE-2014015037

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EXPIRES 10/31/2025

SUMMIT GI ADDITION
SAINT LUKE'S EAST
100 NE SAINT LUKE'S BLVD.
LEE'S SUMMIT MO 64086

Date	04/07/25
Job Number	3-24100
Drawn By	AR
Checked By	EG

Revision

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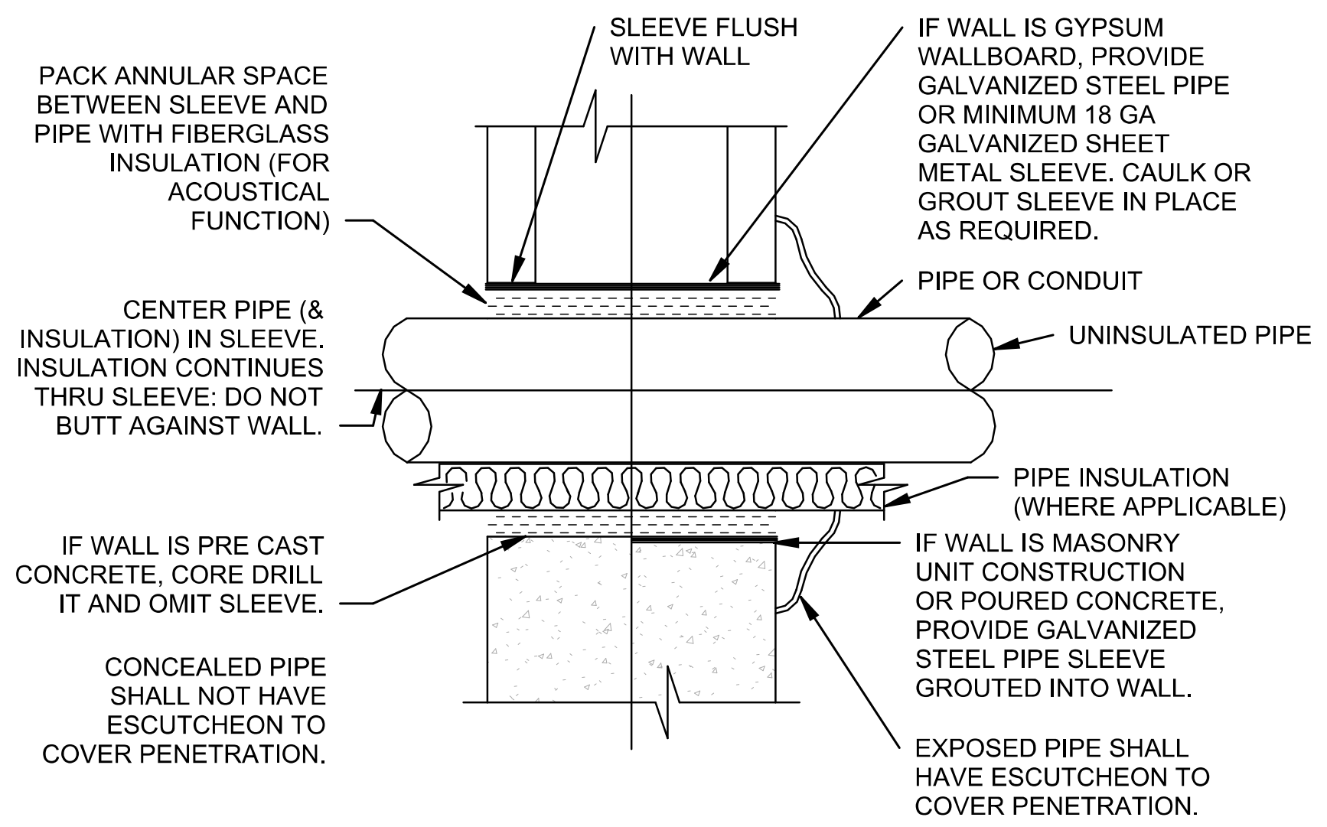
E500

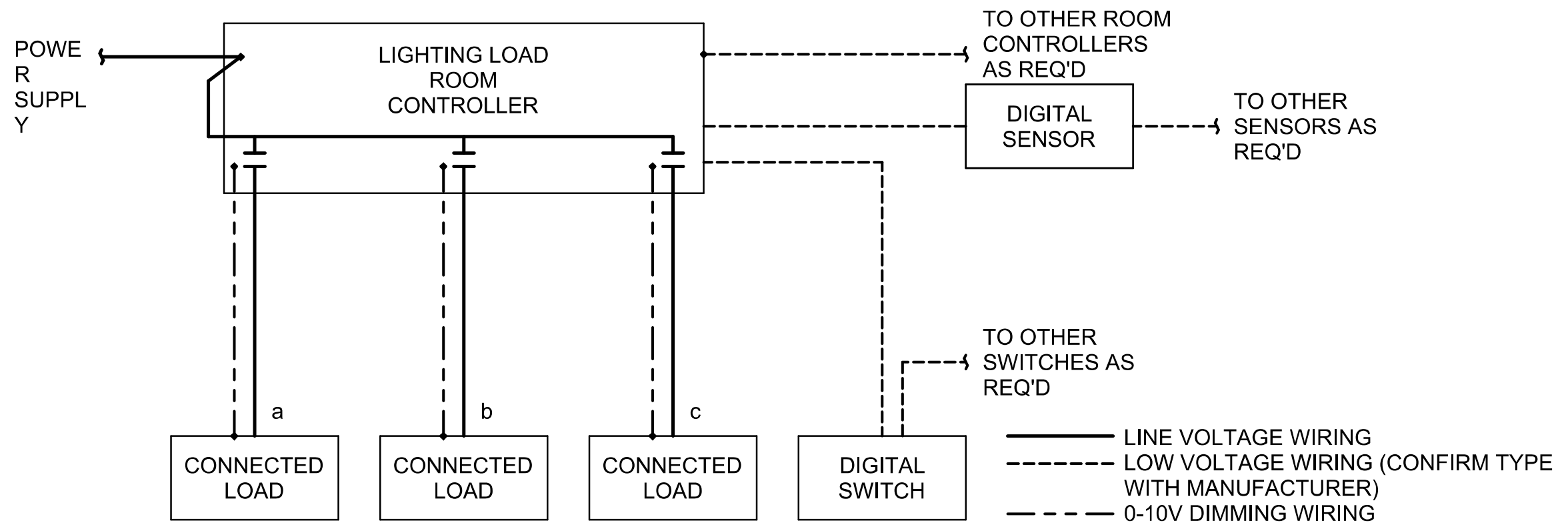
ENERGY CODE COMPLIANCE

CARSON A. MOSER
Autodesk Docs://3-24100 SLE Summit GI/2450004866 SLEH - Summit GI Second Floor - Lees Summit MO MEP v24.rvt


SLEEVE FLUSH WITH WALL
IF WALL IS GYPSUM WALLBOARD, PROVIDE GALVANIZED STEEL PIPE OR MINIMUM 18 GA GALVANIZED SHEET METAL SLEEVE. CAULK OR GROUT SLEEVE IN PLACE AS REQUIRED.
PACK ANNULAR SPACE BETWEEN SLEEVE AND PIPE WITH FIBERGLASS INSULATION (FOR ACOUSTICAL FUNCTION)
PIPE OR CONDUIT
CENTER PIPE (& INSULATION) IN SLEEVE. INSULATION CONTINUES THRU SLEEVE: DO NOT BUTT AGAINST WALL.
UNINSULATED PIPE
PIPE INSULATION (WHERE APPLICABLE)
IF WALL IS PRE CAST CONCRETE, CORE DRILL IT AND OMIT SLEEVE.
IF WALL IS MASONRY UNIT CONSTRUCTION OR POURED CONCRETE, PROVIDE GALVANIZED STEEL PIPE SLEEVE GROUTED INTO WALL.
CONCEALED PIPE SHALL NOT HAVE ESCUTCHEON TO COVER PENETRATION.
EXPOSED PIPE SHALL HAVE ESCUTCHEON TO COVER PENETRATION.

REFER TO ARCHITECTURAL DRAWINGS FOR WALL LOCATIONS.
REFER TO SPECIFICATIONS FOR ALTERNATIVE INSTALLATIONS.
COORDINATE REQUIREMENTS WITH GENERAL CONTRACTOR.

① CONDUIT PENETRATION THRU NON-FIREWALL
NTS


POWE
R
SUPPL
Y
LIGHTING LOAD ROOM CONTROLLER
TO OTHER ROOM CONTROLLERS AS REQ'D
DIGITAL SENSOR
TO OTHER SENSORS AS REQ'D
TO OTHER SWITCHES AS REQ'D
a
b
c
CONNECTED LOAD
CONNECTED LOAD
CONNECTED LOAD
DIGITAL SWITCH
LINE VOLTAGE WIRING
LOW VOLTAGE WIRING (CONFIRM TYPE WITH MANUFACTURER)
0-10V DIMMING WIRING

NOTES:

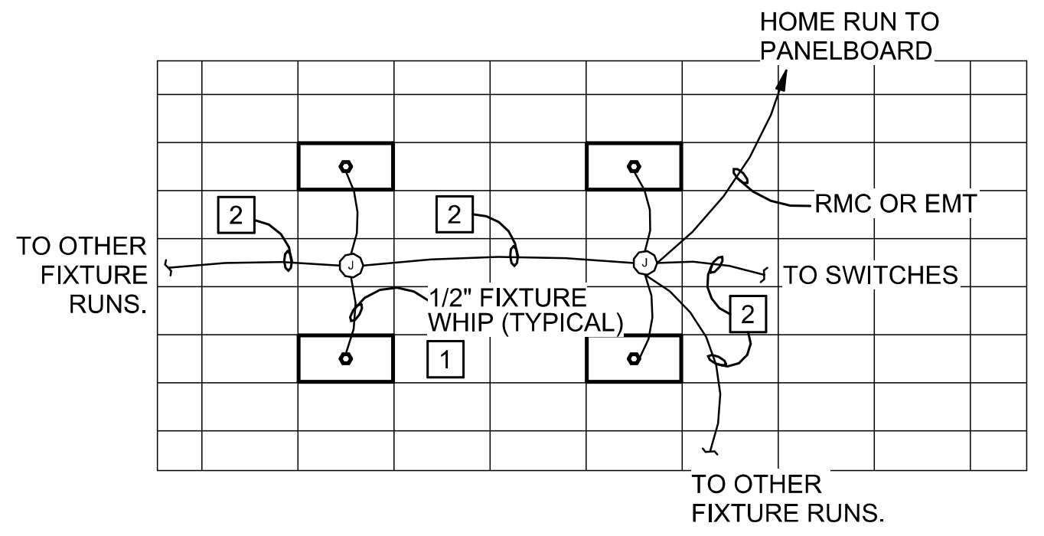
1. REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR DEVICE AND EQUIPMENT SPECIFICATIONS.
2. QUANTITY OF RELAYS SHOWN IS GENERIC. REFER TO PLANS, LIGHTING CONTROL DEVICE SCHEDULE, AND SHOP DRAWINGS FOR FINAL QUANTITY PER ROOM CONTROLLER.
3. DETAIL IS DIAGRAMMATIC AND IS BASED ON LEGRAND. THIS REPRESENTS THE GENERAL SCOPE OF WORK AND LOCATION OF DEVICES IN RELATION TO EACH OTHER ALONG THE POWER CIRCUIT. DIAGRAMS MAY BE DIFFERENT FOR ALLOWED EQUIVALENT MANUFACTURERS. ELECTRICAL CONTRACTOR SHALL COORDINATE FULL SYSTEM REQUIREMENTS WITH SELECTED MANUFACTURER. PROVIDE ALL PARTS AND PIECES REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. REFER TO FINAL APPROVED MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WIRING DIAGRAMS FOR INSTALLATION.
4. CIRCUITING SHOWN ON THE PLAN CORRESPONDS TO THE LIGHTING CONTROL INTENT. IF CIRCUITING IS CHANGED IN THE FIELD, ENSURE THAT SYSTEM PROGRAMMING WITH REVISED CIRCUITING MEETS THE ORIGINAL LIGHTING CONTROL INTENT. UPDATE LIGHTING CONTROL PANEL SCHEDULES IN RECORD DRAWINGS.
5. PROVIDE SYSTEM COMMISSIONING AS REQUIRED PER ENERGY CODE.

② ROOM CONTROLLER DETAIL - ON/OFF OR ON/OFF/0-10V DIMMING CONTROL
NTS

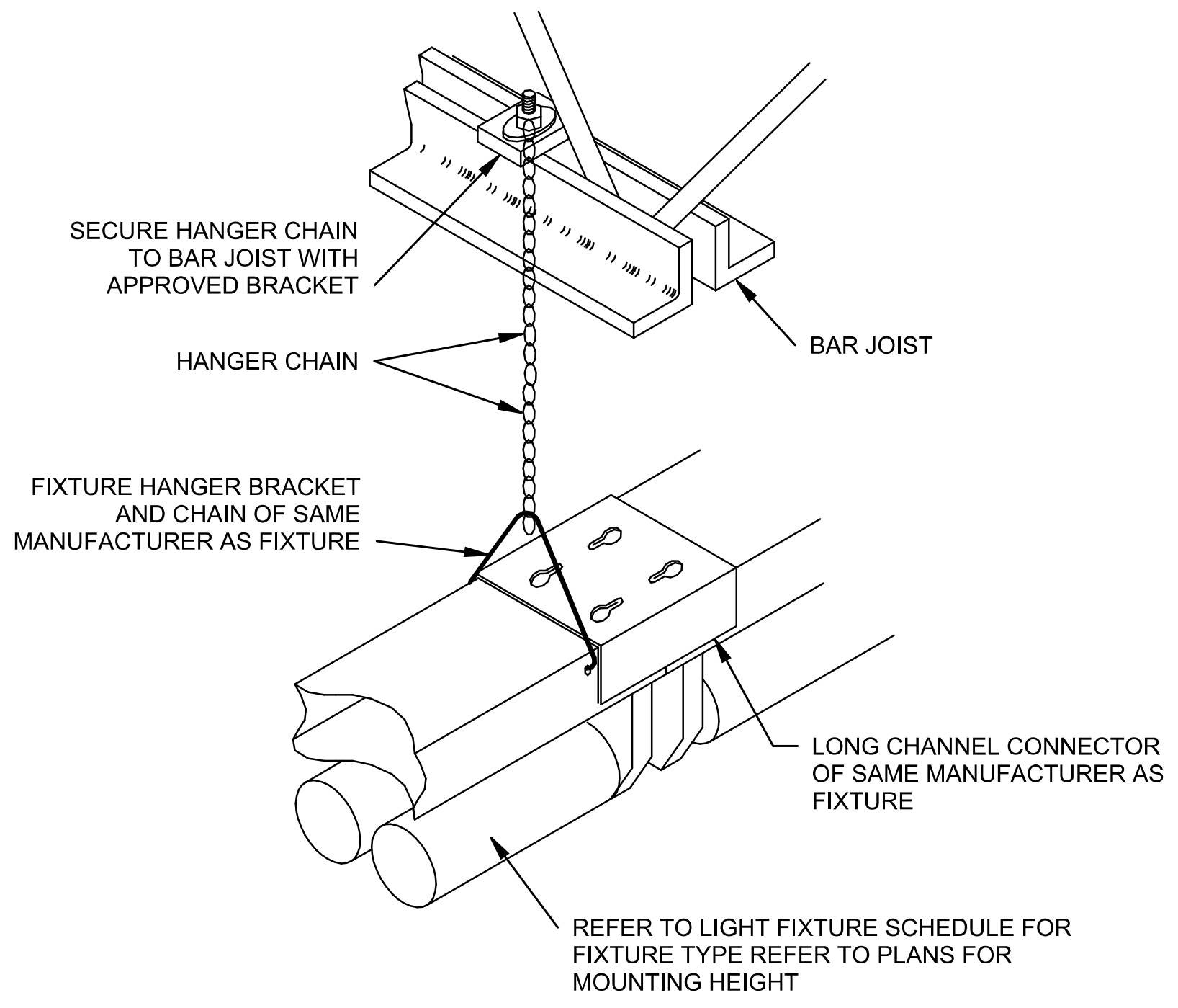
ELECTRICAL NOTES:

1 PROVIDE SUFFICIENT LENGTH TO MOVE CENTER OF LUMINAIRE IN A 5'-0" RADIUS OF THE LOCATION SHOWN ON THE PLANS.

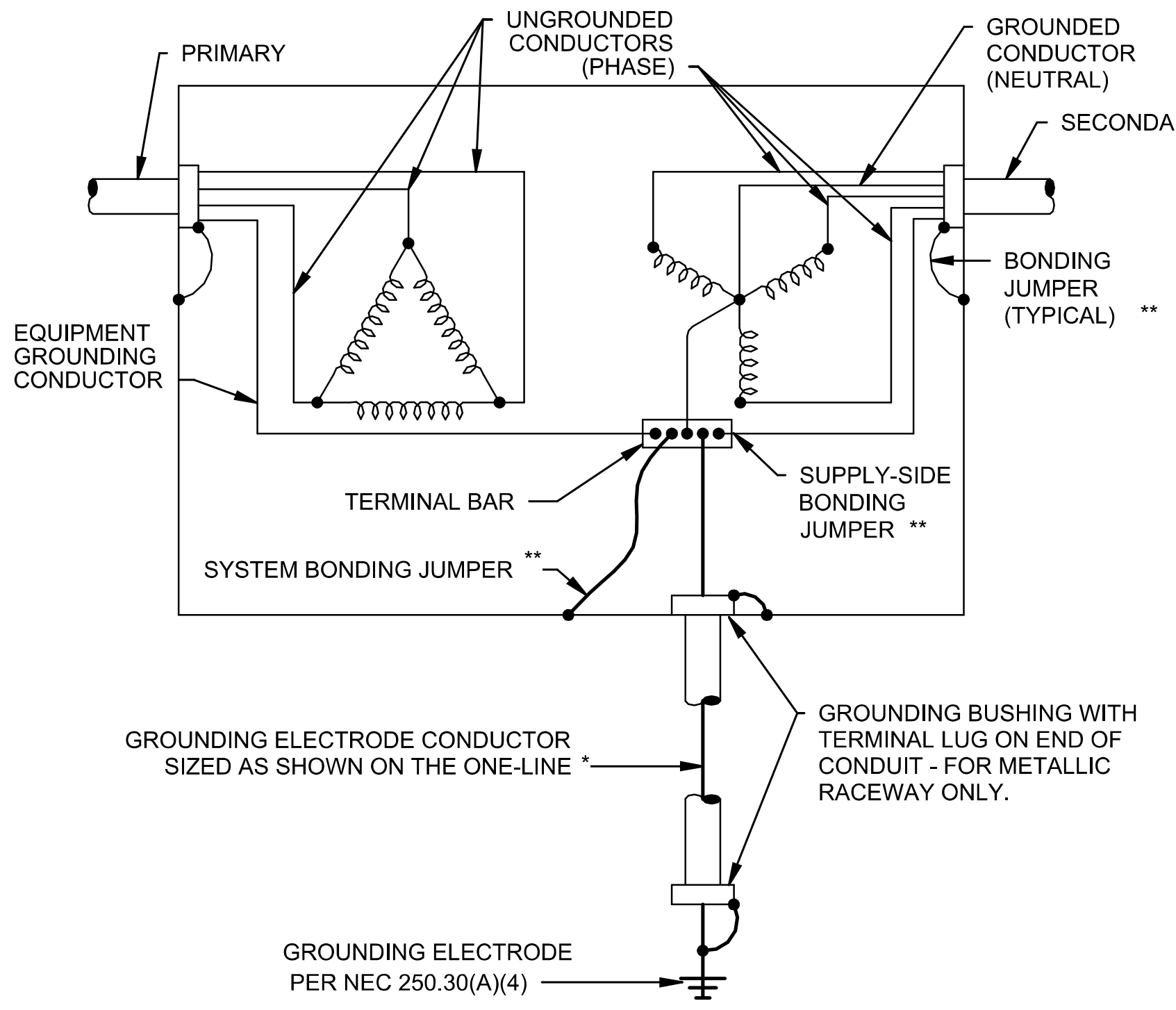
2 RMC OR EMT (UNLESS TYPE MC CABLE IS ALLOWED BY SPECIFICATIONS. IF MORE THAN 4 CURRENT CARRYING CONDUCTORS INCLUDING NEUTRALS, MC CABLE IS NOT ALLOWED).


HOME RUN TO PANELBOARD
RMC OR EMT
TO OTHER FIXTURE RUNS.
TO SWITCHES
2
2
2
1/2" FIXTURE WHIP (TYPICAL)
1
J
J
TO OTHER FIXTURE RUNS.

⑤ LIGHTING STANDARD LUMINAIRE WIRING
NTS


SECURE HANGER CHAIN TO BAR JOIST WITH APPROVED BRACKET
BAR JOIST
HANGER CHAIN
FIXTURE HANGER BRACKET AND CHAIN OF SAME MANUFACTURER AS FIXTURE
LONG CHANNEL CONNECTOR OF SAME MANUFACTURER AS FIXTURE
REFER TO LIGHT FIXTURE SCHEDULE FOR FIXTURE TYPE REFER TO PLANS FOR MOUNTING HEIGHT

③ LIGHT FIXTURE MOUNTING DETAIL
NTS


PRIMARY
UNGROUNDED CONDUCTORS (PHASE)
GROUNDED CONDUCTOR (NEUTRAL)
SECONDARY
BONDING JUMPER (TYPICAL) **
EQUIPMENT GROUNDING CONDUCTOR
TERMINAL BAR
SUPPLY-SIDE BONDING JUMPER **
SYSTEM BONDING JUMPER **
GROUNDING ELECTRODE CONDUCTOR SIZED AS SHOWN ON THE ONE-LINE *
GROUNDING BUSHING WITH TERMINAL LUG ON END OF CONDUIT - FOR METALLIC RACEWAY ONLY.
GROUNDING ELECTRODE PER NEC 250.30(A)(4)

④ DRY TYPE TRANSFORMER GROUNDING
NTS

RELEASED FOR CONSTRUCTION
~~As Noted on Plans Review~~
Development Services Department
Lee's Summit, Missouri
04/17/2025

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NUMBER PE-2014015037

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MO. CORPORATE NO: E-556D
EXPIRES 10/31/2025

SUMMIT GI ADDITION
SAINT LUKE'S EAST
100 NE SAINT LUKE'S BLVD.
LEE'S SUMMIT MO 64086

Date	04/07/25
Job Number	3-24100
Drawn By	AR
Checked By	EG

Revision

Number	Date	Description

E600

ELECTRICAL DETAILS

4/7/2025 2:16:43 PM

LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER	SERIES / MODEL	APPROVED ALTERNATES	SOURCE TYPE	SOURCE LUMENS	DIMMING TYPE	VOLTAGE	INPUT WATTS	INPUT VA	DESCRIPTION	NOTES
A1	WILLIAMS	PT-24-L49-835-RA-DIM-UNV	COLUMBIA LITHONIA LSI INDUSTRIES	LED	4,900	0-10V	120/277	37	41	2FT X 4FT RECESSED DIRECT/INDIRECT TROFFER WITH RIBBED ROUNDED PROSMATIC LENS AND ULTRA SLIM HOUSING. 22-GAUGE COLD ROLLED STEEL HOUSING AND MATTE WHITE POLYESTER POWDER COAT FINISH PAINTED AFTER FABRICATION. COORDINATE EXACT MOUNTING KIT WITH ARCHITECTURAL PLANS PRIOR TO PURCHASE.	
A2	WILLIAMS	PT-22-L26-835-RA-DIM-UNV	COLUMBIA LITHONIA LSI INDUSTRIES	LED	2,600	0-10V	277	22	25	2FT X 2FT RECESSED DIRECT/INDIRECT TROFFER WITH RIBBED ROUNDED PROSMATIC LENS AND ULTRA SLIM HOUSING. 22-GAUGE COLD ROLLED STEEL	
B1	EXISTING	WALL SCONCE SALVAGED FROM 5TH FLOOR	-	-	-	-	120	25	28	EXISTING LIGHT FIXTURE TO BE SALVAGED FROM EXISTING SPACE, CLEANED, STORED AND RE-INSTALLED AT LOCATION SHOWN	
C1	EXISTING	PENDANT SALVAGED FROM 5TH FLOOR	-	-	-	-	120	30	33	EXISTING LIGHT FIXTURE TO BE SALVAGED FROM EXISTING SPACE, CLEANED, STORED AND RE-INSTALLED AT LOCATION SHOWN	
D1	WILLIAMS	6DR-L20-835-DIM-UNV-F-W-OF-CS-PD	COLUMBIA LITHONIA LSI INDUSTRIES	LED	2,000	0-10V	277	19	21	6IN DIAMETER RECESSED DOWNLIGHT WITH DIE-CAST ALUMINUM HOUSEING, OPEN REFLECTOR WITH SEMI-SPECULAR FINISH, AND WIDE DISTRIBUTION. PROVIDE WITH DIFFUSE POLYCARBONATE LENS AT TOP OF OPEN REFLECTOR. COORDINATE FINAL MOUNTING KIT WITH ARCHITECTURAL DRAWINGS PRIOR TO PURCHASE.	
L1A	WILLIAMS	CX-C-5'10-L10/835-25-D-DIM-UNV	COLUMBIA LITHONIA LSI INDUSTRIES	LED	1,000	0-10V	277	48	54	5'-10" LONG CONTINUOUS LAY-IN COVE LED WITH DIFFUSE ACRTYLIC DUST COVER, FORMED SHEET METAL HOUSING AND WHITE POWDER COAT FINISH. SITE SPECIFIC SHOP DRAWING REQUIRED PRIOR TO FURNISHING TO VERIFY LENGTHS AND CONSTRUCTION DETAILS.	
L1B	WILLIAMS	CX-C-5'6-L10/835-25-D-DIM-UNV	COLUMBIA LITHONIA LSI INDUSTRIES	LED	1,000	0-10V	277	46	51	5'-6" LONG CONTINUOUS LAY-IN COVE LED WITH DIFFUSE ACRTYLIC DUST COVER, FORMED SHEET METAL HOUSING AND WHITE POWDER COAT FINISH. SITE SPECIFIC SHOP DRAWING REQUIRED PRIOR TO FURNISHING TO VERIFY LENGTHS AND CONSTRUCTION DETAILS.	
N2	WILLIAMS	75-4-L50-8-35-WG-75-VBY-DIM-UNV	COLUMBIA LITHONIA LSI INDUSTRIES	LED	5,000	0-10V	120/277	33	37	4FT LINEAR STRIP LIGHT WITH COLD ROLLED STEEL HOUSING, REFLECTIVE WHITE POLYESTER POWDER COAT FINISH PAINTED AFTER FABRICATION. PROVIDE WITH 11-GAUGE WIRE GOUARD. CHAIN HANG T0 10'-0" AFF AND COORDINATE EXACT LOCATIONS WITH OTHER TRADES.	
P1	WILLIAMS	RNDP-2-L25-8-30-FXA-DIM	VISA LSI INDUSTRIES	LED	2,500	0-10V	277	24	27	DECORATIVE 24IN DIAMETER ROUND ARCHITECTURAL PENDANT FIXTURE. PROVIDE WITH FROSTED CONVEX ACRYLIC LENS AND MATTE WHITE FINISH. FIELD ADJUSTABLE SUSPENSION CABLE AND MOUNTING WITH FLUSH CANOPY. PROVIDE FIXTURE WITH INDIVIDUAL LED BULBS. REFER TO MANUFACTURER INFORMATION FOR EXACT BULB REQUIREMENTS. MOUNT FIXTURE AT 7'-6" ABOVE FINISHED FLOOR TO BOTTOM OF PENDANT.	
X1	LITHONIA	LE-S-W-1-R	DUAL LITE COOPER	LED	N/A	N/A	277	5	5	SINGLE-FACE LED EXIT SIGN WITH WHITE DIE-CAST ALUMINUM HOUSING AND RED LETTERING. UNIVERSAL MOUNTING. REFER TO PLANS FOR NUMBER OF FACES AND CHEVRONS.	
X2	LITHONIA	LRP-W-1-RC	DUAL LITE COOPER	LED	N/A	N/A	277	5	5	SINGLE-FACE LED EXIT SIGN WITH WHITE DIE-CAST ALUMINUM HOUSING AND RED LETTERING ON CLEAR BACKGROUND. CEILING MOUNTING. REFER TO PLANS FOR NUMBER OF FACES AND CHEVRONS.	
X3	LITHONIA	LRP-W-2-RRM	DUAL LITE COOPER	LED	N/A	N/A	277	5	5	DOUBLE-FACE LED EXIT SIGN WITH WHITE DIE-CAST ALUMINUM HOUSING AND RED LETTERING ON MIRROR BACKGROUND. CEILING MOUNTING. REFER TO PLANS FOR NUMBER OF FACES AND CHEVRONS.	

GENERAL LIGHTING AND CONTROL NOTES:

A. VERIFY CEILING CONDITIONS AND COORDINATE LIGHT FIXTURE MOUNTING HARDWARE AND TRIMS NEEDED TO SUIT CEILING CONDITIONS PRIOR TO ORDERING.
B. VERIFY QUANTITIES, MODEL NUMBERS AND DESCRIPTIONS WITH MANUFACTURER PRIOR TO PLACING ORDER.
C. VERIFY FINISH AND COLOR WITH ARCHITECT PRIOR TO PLACING ORDER.
D. REFER TO ARCHITECTURAL DRAWINGS AND DETAILS FOR EXACT LOCATIONS, MOUNTING HEIGHTS AND ADDITIONAL MOUNTING INFORMATION. CONTACT ARCHITECT IMMEDIATELY IF THERE ARE DISCREPANCIES BETWEEN THE ARCHITECTURAL AND ELECTRICAL LIGHTING PLANS.
E. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBERS ONLY. FIRST READ THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS IN CONJUNCTION WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURES LISTED ARE THE BASIS FOR THE DESIGN. CONTRACTOR SHALL PROVIDE ALL LIGHT FIXTURES UNLESS NOTED OTHERWISE.
F. COMPLY WITH THE LATEST ADOPTED EDITION OF THE STATE AND LOCAL ENERGY CODE REQUIREMENTS.
G. FOR DIMMABLE LIGHT FIXTURES, REFER TO DIVISION 26 SPECIFICATIONS FOR MORE INFORMATION REGARDING CONTROL WIRING AND COMPATIBILITY.
H. CONTRACTOR SHALL SUPPLY A COMPLETE AND OPERATIONAL SYSTEM TO COMPLY WITH DESIGN INTENT.

LIGHTING CONTROL DEVICE SCHEDULE

LINE-VOLTAGE WALL SWITCH OCCUPANCY SENSORS

SYMBOL TAG	MANUFACTURER MODEL/SERIES	ALTERNATE MANUFACTURER	DEVICE DESCRIPTION	COVERAGE (W X D)	VOLTAGE	NOTES
$ OS	LEGRAND PW-100	ACUITY, COOPER CRESTRON, HUBBELL LEVITON, LUTRON	WALL MOUNT PASSIVE INFRARED OCCUPANCY SENSOR. INTEGRAL MANUAL OVERRIDE SWITCH. SINGLE RELAY. LINE-VOLTAGE. LOAD: 120V=800W, 277V=1200W.	MAJOR 30' x 35' MINOR 15' x 20'	120/ 277	

LINE-VOLTAGE DIMMING WALL SWITCH OCCUPANCY SENSORS

SYMBOL TAG	MANUFACTURER MODEL/SERIES	ALTERNATE MANUFACTURER	DEVICE DESCRIPTION	COVERAGE (W X D)	VOLTAGE	NOTES
$ OSD	LEGRAND PW-101D	N/A	WALL MOUNT PASSIVE INFRARED OCCUPANCY SENSOR. INTEGRAL MANUAL OVERRIDE SWITCH. SINGLE RELAY. LINE-VOLTAGE. FORWARD PHASE DIMMING. LOAD: 120V=700W, 277V=1200W.	MAJOR 30' x 35' MINOR 15' x 20'	120/ 277	

NETWORK LIGHTING CONTROL SYSTEMS

NETWORK OCCUPANCY SENSORS

SYMBOL TAG	MANUFACTURER MODEL/SERIES	ALTERNATE MANUFACTURER	DEVICE DESCRIPTION	COVERAGE (W X D)	VOLTAGE	NOTES
OS	LEGRAND LMPC-100	ACUITY, CRESTRON ETC, HUBBELL	CEILING MOUNT PASSIVE INFRARED OCCUPANCY SENSOR. 360 DEGREE COVERAGE. DIGITAL. (2) RJ45 PORTS. IR TRANSCEIVER FOR WIRELESS SETUP.	MAJOR 31' Ø MINOR 15' Ø	24	

NETWORK ROOM CONTROLLERS (POWER PACK)

SYMBOL TAG	MANUFACTURER MODEL/SERIES	ALTERNATE MANUFACTURER	DEVICE DESCRIPTION	VOLTAGE	NOTES
RC1	LEGRAND LMRC-211 (0-10V)	ACUITY, CRESTRON ETC, HUBBELL	DIGITAL ROOM CONTROLLER FOR ON/OFF/0-10V DIMMING CONTROL OF LIGHTING LOADS. (1) 20A LOAD INPUT, (1) RELAY OUTPUT. 100mA SINK PER RELAY. MANUAL-, PARTIAL-, AND AUTO-ON MODES.	120/ 277	
RC2	LEGRAND LMRC-212 (0-10V)	ACUITY, CRESTRON ETC, HUBBELL	DIGITAL ROOM CONTROLLER FOR ON/OFF/0-10V DIMMING CONTROL OF LIGHTING LOADS. (1) 20A LOAD INPUT, (2) RELAY OUTPUTS. 100mA SINK PER RELAY. MANUAL-, PARTIAL-, AND AUTO-ON MODES.	120/ 277	
RC3	LEGRAND LMRC-213 (0-10V)	ACUITY, CRESTRON ETC, HUBBELL	DIGITAL ROOM CONTROLLER FOR ON/OFF/0-10V DIMMING CONTROL OF LIGHTING LOADS. (1) 20A LOAD INPUT, (3) RELAY OUTPUTS. 100mA SINK PER RELAY. MANUAL-, PARTIAL-, AND AUTO-ON MODES.	120/ 277	

NETWORK LIGHTING SWITCHES

SYMBOL TAG	MANUFACTURER MODEL/SERIES	ALTERNATE MANUFACTURER	DEVICE DESCRIPTION	VOLTAGE	NOTES
$ LV#	LEGRAND LMSW-100 SERIES	ACUITY, CRESTRON ETC, HUBBELL	DIGITAL MULTI-BUTTON SWITCH FOR MANUAL ON/OFF/DIM AND SCENE CONTROL. EACH BUTTON HAS INTEGRAL LED THAT ILLUMINATES WHEN LOAD IS ON. (2) RJ45 PORTS. IR TRANSCEIVER FOR WIRELESS SETUP. SWITCH DESIGNATIONS VARY PER PROJECT; REFER TO LIGHTING PLANS AND/OR SWITCH SCHEDULE FOR PROGRAMMING.	24	
$ LVD	LEGRAND LMDM-101	ACUITY, CRESTRON ETC, HUBBELL	DIGITAL SWITCH FOR MANUAL ON/OFF/DIMMING CONTROL. INTEGRAL LED ILLUMINATES WHEN LOAD IS ON. (2) RJ45 PORTS. IR TRANSCEIVER FOR WIRELESS SETUP.	24	

NETWORK AUXILIARY LIGHTING EQUIPMENT

SYMBOL TAG	MANUFACTURER MODEL/SERIES	ALTERNATE MANUFACTURER	DEVICE DESCRIPTION	VOLTAGE	NOTES
NONE	LEGRAND LMCT-100	ACUITY, CRESTRON ETC, HUBBELL	WIRELESS CONFIGURATION TOOL WITH USB. 2-WAY IR COMMUNICATION FOR DATA UPLOAD, DOWNLOAD, CONFIRMATION, AND STORAGE. OLED SCREEN. PROVIDE ONE TOOL PER SYSTEM AND LEAVE WITH OWNER. (3) AAA BATTERIES INCLUDED.	BATTERY	
NONE	LEGRAND INTERFACE	ACUITY, CRESTRON ETC, HUBBELL	INPUT/OUTPUT (I/O) DEVICE FOR INTERFACE WITH SECURITY, FIRE ALARM, OR OTHER THIRD PARTY DEVICE/SYSTEM. (2) RJ45 PORTS. MANUFACTURER SHALL PROVIDE DEVICE AS REQUIRED TO CONNECT TO SYSTEM(S) AS SPECIFIED ON LIGHTING CONTROL DIAGRAM.	24	
NONE	LEGRAND NETWORK BRIDGE	ACUITY, CRESTRON ETC, HUBBELL	PROVIDES CONNECTIVITY BETWEEN DLM ROOM CONTROLLERS AND THIRD PARTY BUILDING AUTOMATION SYSTEM (BAS).	24	

AUXILIARY EQUIPMENT

SYMBOL TAG	MANUFACTURER MODEL/SERIES	ALTERNATE MANUFACTURER	DEVICE DESCRIPTION	VOLTAGE	NOTES
ALC	SIGNIFY BLCD16DIM	SEE DESCRIPTION	AUTOMATIC LOAD CONTROL RELAY WITH 0-10V OVERRIDE. UL924 LISTED. OPERATES AS CONTROL DEVICE OR BYPASS PER SEQUENCE OF OPERATIONS. INTEGRAL TEST BUTTON. ALTERNATE MANUFACTURERS: EATON/COOPER, ETC (REQUIRES ENCLOSURE), ACUITY/IOTA, LUTRON, LVS CONTROLS. EMERGENCY LIGHT FIXTURE MUST BE UL924 LISTED ALSO.	120/ 277	

GENERAL NOTES:

A. OCCUPANCY SENSOR LAYOUT DESIGNED FROM BASIS-OF-DESIGN COVERAGE PATTERNS. IF SUBMITTING ALTERNATE PER 'EQUIVALENT MANUFACTURER' COLUMN, ADJUST SENSOR QUANTITIES AND LOCATIONS PER MANUFACTURER-SPECIFIC SPACING CRITERIA.
B. PROVIDE SHOP DRAWINGS FOR ENGINEER AND ARCHITECT REVIEW THAT INCLUDE PRODUCT CUTSHEETS AND PROJECT-SPECIFIC LAYOUTS. LAYOUTS MUST INCLUDE SENSOR LOCATIONS, HEIGHTS, ORIENTATION, AND COVERAGE AREAS. SHOW COORDINATION WITH ALL OTHER CEILING DEVICES INCLUDING BUT NOT LIMITED TO HVAC SUPPLY AND RETURN GRILLES, SPRINKLERS, LIGHT FIXTURES, AND OTHER OWNER-PROVIDED CEILING MOUNTED DEVICES SUCH AS SPEAKERS, SECURITY CAMERAS, PROJECTORS, ETC. (SENSORS MAY BE ADVERSELY AFFECTED IF LOCATED TOO CLOSE TO OTHER CEILING MOUNTED DEVICES). ALSO PROVIDE SCHEMATICS AND SCHEDULES WHEN APPLICABLE.
C. LIGHTING CONTROLS PRICING SHALL BE COMPLETELY SEPARATE OF ANY LIGHT FIXTURE PRICING.
D. VERIFY COLOR(S) FOR ALL WALL AND CEILING MOUNTED DEVICES WITH THE ARCHITECT.
E. ALL WALL SWITCH AND CEILING SENSORS SHALL HAVE AN ADJUSTABLE TIME DELAY RANGE OF 0-30 MIN, UNO. CONFIRM SENSOR SETTINGS WITH SEQUENCE OF OPERATIONS AND OWNER PRIOR TO SYSTEM COMMISSIONING.
F. PROVIDE COPIES OF OPERATION AND MAINTENANCE INSTRUCTIONS FOR ALL DEVICES TO OWNER.
G. PROVIDE A NEUTRAL CONDUCTOR TO ALL WALL SWITCH LOCATIONS PER NEC REQUIREMENTS.
H. DO NOT SHARE NEUTRAL CONDUCTOR ON LOAD SIDE OF DIMMERS.

VERSION: 4.06

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
04/17/2025

CARSON A. MOSER
NUMBER PE-2014015037

04/07/2025
CARSON A. MOSER
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SAINT LUKE'S EAST
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LEE'S SUMMIT MO 64086

Date	04/07/25
Job Number	3-24100
Drawn By	AR
Checked By	EG

Revision

Number	Date	Description

E700

ELECTRICAL SCHEDULES

PANELBOARD LEGEND

ABBREVIATIONS V1.03

AF	ARC FAULT CIRCUIT INTERRUPTER.
C#	CIRCUIT VIA CONTACTOR #.
CL	CIRCUIT VIA CURRENT LIMITING DEVICE.
D	DISCONNECT CIRCUITRY FOR REMOVED LOAD, UPDATE CIRCUIT DIRECTORY TO SPARE AND TURN OFF.
EM	EMERGENCY LIGHTING HANDLE-ON CLAMP.
EX	EXISTING.
F	FUTURE LOAD; NOTE AS SPARE AND TURN OFF.
FA	RED/HANDLE-ON CLAMP.
GF	GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA). (WHERE GFCI CIRCUIT BREAKERS ARE INDICATED BUT NOT AVAILABLE: PROVIDE UL 943 LISTED, CLASS A GFCI DEVICE FOR BRANCH CIRCUIT BY NORTHSHORE SAFETY OR LITTLEFUSE SHOCK BLOCK AT APPROPRIATE AMPERAGE AND LOCATE ADJACENT TO THE PANELBOARD IN A READILY ACCESSIBLE LOCATION).
GFEP	GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA).
HT	PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUIT PER CODE.
IG	ISOLATED GROUND CIRCUIT.
L#	LIGHTING CONTROL SCHEME NUMBER.
LCK	HANDLE PADLOCKABLE-OFF DEVICE.
LO	HANDLE-ON CLAMP.
N	PROVIDE NEW CIRCUIT BREAKER.
OL	REFER TO ELECTRICAL ONE-LINE/RISER DIAGRAM.
PS	POWER-SWITCHING CIRCUIT BREAKER.
PSE	EMERGENCY POWER-SWITCHING CIRCUIT BREAKER.
R	REUSE EXISTING CIRCUIT BREAKER FOR NEW/REVISED LOAD.
RP	CIRCUIT VIA RELAY PANEL.
ST	SHUNT TRIP CIRCUIT BREAKER.
STC	SHUNT TRIP CONTACTOR
V	VERIFY EXISTING LOAD AND UPDATE DIRECTORY, IF UNUSED, NOTE AS SPARE AND TURN OFF.
VD	BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP. ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF REQUIRED.
Z	CORRECT/REPAIR EXISTING HAZARD TO MAKE CODE COMPLIANT INSTALLATION.

NOT ALL ABBREVIATIONS ARE USED.

PANELBOARD: E2-1-H-N (EXISTING)

BUS AMPS: 225A
MAIN SIZE/TYPE: 225A MCB
VOLTS/PHASE: 480Y/277 V 3P/4W
SUPPLIED BY: MSB-E1-1-HN

FAULT CURRENT: 48,817 A
AIC RATED: FULLY RATED
AIC RATING: 65,000
SERVES: 2ND FLOOR
MOUNTING: SURFACE
LOCATION: EMERG. ELEC 204

EQUIPMENT GROUND BUS

LINE-SIDE LUGS: MECHANICAL

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE A		PHASE B		PHASE C		P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
1	EXISTING LOAD				20	1	0	0					1	20				EXISTING LOAD	2
3	02-2E WEST LIGHTING	L	EX	12	20	1			1722	1535			1	20	12	EX	L	02-2E EAST LIGHTING	4
5	02-2E CORRIDOR 02-2E500 LIGHTING	L	EX	12	20	1					1163	0	1	20				EXISTING LOAD	6
7	EXISTING LOAD				20	1	0	0					1	20				EXISTING LOAD	8
9	EXISTING SPARE				20	1			0	0			1	20				EXISTING LOAD	10
11	EXISTING LOAD				20	1					0	0	1	20				EXISTING LOAD	12
13	EXISTING LOAD				20	1	0	0					1	20				EXISTING LOAD	14
15	EXISTING LOAD				20	1			0	0			1	20				EXISTING LOAD	16
17	EXISTING LOAD				20	1					0	0	1	20				EXISTING LOAD	18
19	EXISTING SPARE				40	2	0	0					1	20				EXISTING LOAD	20
21									0	0			1	20				EXISTING LOAD	22
23	EXISTING EQUIPPED SPACE					1					0	0	1	20				EXISTING LOAD	24
25	EXISTING EQUIPPED SPACE					1	0	0					1					EXISTING EQUIPPED SPACE	26
27	EXISTING EQUIPPED SPACE					1			0	0			1					EXISTING EQUIPPED SPACE	28
29	EXISTING EQUIPPED SPACE					1					0	0	1					EXISTING EQUIPPED SPACE	30
31	EXISTING EQUIPPED SPACE					1	0	0					1					EXISTING EQUIPPED SPACE	32
33	EXISTING EQUIPPED SPACE					1			0	0			1					EXISTING EQUIPPED SPACE	34
35	EXISTING EQUIPPED SPACE					1					0	0	1					EXISTING EQUIPPED SPACE	36
37	EXISTING EQUIPPED SPACE					1	0	9068					3	90	OL	NB	L R Z	XE2-8-LN	38
39	EXISTING EQUIPPED SPACE					1			0	9630									40
41	EXISTING EQUIPPED SPACE					1					0	9180							42
					TOTAL LOAD (VA):		9068 VA		12887 VA		10343 VA								
					TOTAL AMPS:		33 A		47 A		38 A								

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
EXISTING PEAK UTILITY (@ 0.9 pf)	21266 VA	125%	26583 VA
COOLING (C)	0 VA	0%	0 VA
HEATING (H)	0 VA	100%	0 VA
LIGHTING (L)	4608 VA	125%	5760 VA
RECEPTACLES (R)	27240 VA	68%	18620 VA
MOTORS (M)	0 VA	100%	0 VA
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA
MISC EQUIP (Z)	450 VA	100%	450 VA
REFRIGERATION (F)	0 VA	100%	0 VA
SIGNAGE (S)	0 VA	125%	0 VA
KITCHEN (K)	0 VA	100%	0 VA
LARGEST MOTOR	0 VA	125%	0 VA
SHOW WINDOW (W)	0 VA	125%	0 VA
TRACK LIGHTING	0 VA	100%	0 VA
EXISTING LOAD TO BE DELETED	0 VA	100%	0 VA

PANELBOARD NOTES

PANELBOARD TOTALS

TOTAL CONNECTED LOAD	53564 VA
TOTAL NEC LOAD	51413 VA
TOTAL CONNECTED CURRENT	64 A
TOTAL NEC DEMAND CURRENT	62 A

PANELBOARD: E2-2-LN (EXISTING)

BUS AMPS: 400A
MAIN SIZE/TYPE: 400A MCB
VOLTS/PHASE: 208Y/120 V 3P/4W
SUPPLIED BY: DP-E1-3-LN

HOSPITAL

FAULT CURRENT: 7,307.40 A
AIC RATED: FULLY RATED
AIC RATING: 10,000
SERVES: 2ND FLOOR
MOUNTING: SURFACE
LOCATION: ELEC 203

EQUIPMENT GROUND BUS

SUB FEED LUGS

LINE-SIDE LUGS: MECHANICAL

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE A		PHASE B		PHASE C		P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
1	EXISTING LOAD				20	1	0	0					1	20				EXISTING LOAD	2
3	EXISTING LOAD				20	1			0	1080			1	20	12		R	02-2E537 NW WALL RECEPTACLES	4
5	EXISTING LOAD				20	1					0	1080	1	20	12		R	02-2E537 SW WALL RECEPTACLES	6
7	EXISTING LOAD				20	1	0	1260					1	20	12		R	02-2E534-535 RECEPTACLES	8
9	02-2E537 EAST WALL RECEPTACLES	R		12	20	1			1080	900			1	20	12		R	02-2E536 SOUTH WALL RECEPTACLES	10
11	02-2E535 SW WALL RECEPTACLES	R		12	20	1					900	800	1	20	12	GF	Z	02-2E536 REF.	12
13	02-2E536 NW WALL RECEPTACLES	R		12	20	1	720	500					1	20	12		Z	02-2E536 UC REF.	14
15	02-2E536 REF.	Z	GF	12	20	1			800	800			1	20	12		Z	02-2E536 MICROWAVE	16
17	02-2E536 MICROWAVE	Z		12	20	1					800	500	1	20	12		Z	235 DISHWASHER	18
19	EXISTING LOAD				20	1	0	540					1	20	12		R	02-2E536 COUNTER	20
21	EXISTING LOAD				20	1			0	720			1	20	12		R	02-2E526-528 RECEPTACLES	22
23	EXISTING LOAD				20	1					0	0	1	20				EXISTING LOAD	24
25	SPARE IN MECH ROOM				20	1	0	1080					1	20	12		R	02-2E517-518, 520-522 RECEPTACLES	26
27	EXISTING SPARE				20	1			0	1440			1	20	12		R	02-2E522, 524 RECEPTACLES	28
29	EXISTING SPARE				20	1					0	0	1	20				EXISTING SPARE	30
31	EXISTING SPARE				20	1	0	0					1	20				EXISTING SPARE	32
33	EXISTING SPARE				40	3			0	0			1	20				EXISTING LOAD	34
35											0	1440	1	20	12	NB	R	02-2E518, 520 RECEPTACLES	36
37							0	0					2	60				SPARE	38
39	02-2E517 RECEPTACLES	R	NB	12	20	1			900	0									40
41	02-2E516 IT RECEPTACLES	Z	NB	12	20	1					500	600	1	20	12	NB	Z	02-2E536 WATER COOLER	42
					TOTAL LOAD (VA):		4100 VA		7720 VA		6620 VA								
					TOTAL AMPS:		34 A		68 A		58 A								

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
EXISTING LOAD (E)	0 VA	100%	0 VA
COOLING (C)	0 VA	0%	0 VA
HEATING (H)	0 VA	100%	0 VA
LIGHTING (L)	0 VA	125%	0 VA
RECEPTACLES (R)	13140 VA	88%	11570 VA
MOTORS (M)	0 VA	100%	0 VA
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA
MISC EQUIP (Z)	5300 VA	100%	5300 VA
REFRIGERATION (F)	0 VA	100%	0 VA
SIGNAGE (S)	0 VA	125%	0 VA
KITCHEN (K)	0 VA	100%	0 VA
LARGEST MOTOR	0 VA	125%	0 VA
SHOW WINDOW (W)	0 VA	125%	0 VA
TRACK LIGHTING	0 VA	100%	0 VA

PANELBOARD NOTES

GF - GFCI TYPE CIRCUIT BREAKER

NB - PROVIDE NEW BREAKER IN EXISTING PANEL

PANELBOARD TOTALS

TOTAL CONNECTED LOAD	18440 VA
TOTAL NEC LOAD	16870 VA
TOTAL CONNECTED CURRENT	51 A
TOTAL NEC DEMAND CURRENT	47 A

PANELBOARD: E2-8-LN (NEW)

BUS AMPS: 225A
MAIN SIZE/TYPE: 150A MCB
VOLTS/PHASE: 208Y/120 V 3P/4W
SUPPLIED BY: E2-1-H-N VIA XE2-8-LN

FAULT CURRENT: REFER TO ONE-LINE
AIC RATED: FULLY RATED
AIC RATING: 10,000
SERVES: 2ND FLOOR
MOUNTING: SURFACE
LOCATION: ELECT. 02-2E515

EQUIPMENT GROUND BUS

FEED THRU LUGS: 4/0
SUB FEED LUGS

LINE-SIDE LUGS: MECHANICAL

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE A		PHASE B		PHASE C		P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
1	02-2E51 RECEPTACLES	R		12	20	1	900	600					1	20	12		R	512 VIDEO SYSTEM	2
3	02-2E503-506 RECEPTACLES	R		12	20	1			1080	540			1	20	12		R	02-2E502A RECEPTACLES	4
5	02-2E540 WEST WALL RECEPTACLES	R		12	20	1					360	540	1	20	12		R	02-2E540 SOUTH WALL RECEPTACLES	6
7	02-2E540 NE WALL RECEPTACLES	R		12	20	1	540	720					1	20	12		R	02-2E540 NORTH WALL RECEPTACLES	8
9	02-2E500E COUNTER RECEPTACLES	R		12	20	1			540	720			1	20	12		R	02-2E531 SE WALL RECEPTACLES	10
11	02-2E531 SOUTH WALL RECEPTACLES	R		12	20	1					720	720	1	20	12		R	02-2E531 NE WALL RECEPTACLES	12
13	02-2E531 NORTH RECEPTACLES	R		12	20	1	900	1620					1	20	12		R	02-2E502B & 529 RECEPTACLES	14
15	02-2E502B RECEPTACLES	R		12	20	1			2160	2160			1	20	12		R	02-2E530 SOUTH WALL RECEPTACLES	16
17	02-2E530-530A EAST WALL RECEP.	R		12	20	1					1620	2160	1	20	12		R	02-2E530 NORTH WALL RECEPTACLES	18
19	02-2E507-510, 519, 521, 523, 525 RECEP.	R		12	20	1	1440	1440					1	20	12		R	02-2E523-525 RECEPTACLES	20
21	02-2E521 RECEPTACLES	R		12	20	1			900	1080			1	20	12		R	02-2E519 RECEPTACLES	22
23	02-2E507-508 RECEPTACLES	R		12	20	1					1440	1620	1	20	12		R	02-2E500A, 509-510 RECEPTACLES	24
25	02-2E511,513,515 RECEPTACLES	R		12	20	1	720	188					1	20	12		L	022E-502B, 504, 530A LIGHTING	26
27	02-2E500 CORRIDOR DOOR HARDWARE	Z		12	20	1			150	300			1	20	12		Z	02-2E503, 505, 506 AUTO SENSOR	28
29	SPARE				20	1					0	0	1	20				SPARE	30
31	SPARE				20	1	0	0					1	20				SPARE	32
33	SPARE				20	1			0	0			1	20				SPARE	34
35	SPARE				20	1					0	0	1	20				SPARE	36
37	SPARE				20	1	0	0					1	20				SPARE	38
39	SPARE				20	1			0	0			1	20				SPARE	40
41	SPARE				20	1					0	0	1	20				SPARE	42
					TOTAL LOAD (VA):		9068 VA		9630 VA		9180 VA								
					TOTAL AMPS:		76 A		80 A		77 A								

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
EXISTING LOAD (E)	0 VA	100%	0 VA
COOLING (C)	0 VA	0%	0 VA
HEATING (H)	0 VA	100%	0 VA
LIGHTING (L)	188 VA	125%	235 VA
RECEPTACLES (R)	27240 VA	68%	18620 VA
MOTORS (M)	0 VA	100%	0 VA
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA
MISC EQUIP (Z)	450 VA	100%	450 VA
REFRIGERATION (F)	0 VA	100%	0 VA
SIGNAGE (S)	0 VA	125%	0 VA
KITCHEN (K)	0 VA	100%	0 VA
LARGEST MOTOR	0 VA	125%	0 VA
SHOW WINDOW (W)	0 VA	125%	0 VA
TRACK LIGHTING	0 VA	100%	0 VA

PANELBOARD NOTES

PANELBOARD TOTALS

TOTAL CONNECTED LOAD	27878 VA
TOTAL NEC LOAD	19305 VA
TOTAL CONNECTED CURRENT	77 A
TOTAL NEC DEMAND CURRENT	54 A

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
04/17/2025

CARSON A. MOSER
NUMBER
PE-2014015037

04/07/2025
CARSON A. MOSER
LICENSE # PE-2014015037

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EXPIRES 10/31/2025

SUMMIT GI ADDITION
SAINT LUKE'S EAST
100 NE SAINT LUKE'S BLVD.
LEE'S SUMMIT MO 64086

Date	04/07/25
Job Number	3-24100
Drawn By	AR
Checked By	EG

Revision

Number	Date	Description

E701

ELECTRICAL SCHEDULES

4/7/2025 2:16:50 PM
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CARSON A. MOSER

PANELBOARD: E2-4-LC (EXISTING)

BUS AMPS: 125A
MAIN SIZE/TYPE: 60A MCB
VOLTS/PHASE: 208Y/120 V 3P/4W
SUPPLIED BY: DP-E1-7-LC

FAULT CURRENT: 8,060 A (MAX)
AIC RATED: FULLY RATED
AIC RATING: 10,000
SERVES: 2ND FLOOR
MOUNTING: SURFACE
LOCATION: EMERG. ELEC 204

EQUIPMENT GROUND BUS

LINE-SIDE LUGS: MECHANICAL

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE A		PHASE B		PHASE C		P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
1	02-2E540 REF. & LIGHTS	L Z		12	20	1	582	0					1	20				EXISTING LOAD	2
3	02-2E531 MFD	Z		12	20	1			500	0			1	20				EXISTING LOAD	4
5	EXISTING LOAD				20	1					0	0	1	20				EXISTING LOAD	6
7	EXISTING LOAD				20	1	0	0					1	20				EXISTING LOAD	8
9	02-2E526-528 RECEPTACLES	R		12	20	1			720	0			1	20				EXISTING LOAD	10
11	02-2E 521 INFUSION OUTLET & LIGHTS	L Z		12	20	1					582	0	1	20				EXISTING SPARE	12
13	EXISTING SPARE				20	1	0	0					1	20				EXISTING SPARE	14
15	EXISTING SPARE				20	1			0	0			1	20				EXISTING LOAD	16
17	EXISTING LOAD				20	1					0	0	2	30				EXISTING LOAD	18
19	EXISTING LOAD				20	1	0	0											20
21	02-2E503, 505, 506 515 EM LIGHTING	L		12	20	1			160	0			2	15				EXISTING SPARE	22
23	EXISTING EQUIPPED SPACE					1					0	0							24
25	EXISTING EQUIPPED SPACE					1	0	0					1					EXISTING EQUIPPED SPACE	26
27	EXISTING EQUIPPED SPACE					1			0	0			1					EXISTING EQUIPPED SPACE	28
29	EXISTING EQUIPPED SPACE					1					0	0	1					EXISTING EQUIPPED SPACE	30
31	EXISTING EQUIPPED SPACE					1	0	0					1					EXISTING EQUIPPED SPACE	32
33	EXISTING EQUIPPED SPACE					1			0	0			1					EXISTING EQUIPPED SPACE	34
35	EXISTING EQUIPPED SPACE					1					0	0	1					EXISTING EQUIPPED SPACE	36
37	EXISTING EQUIPPED SPACE					1	0	0					1					EXISTING EQUIPPED SPACE	38
39	EXISTING EQUIPPED SPACE					1			0	0			1					EXISTING EQUIPPED SPACE	40
41	EXISTING EQUIPPED SPACE					1					0	0	1					EXISTING EQUIPPED SPACE	42
			TOTAL LOAD (VA):				582 VA		1380 VA		582 VA								
			TOTAL AMPS:				5 A		11 A		5 A								

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
EXISTING LOAD (E)	0 VA	100%	0 VA
COOLING (C)	0 VA	0%	0 VA
HEATING (H)	0 VA	100%	0 VA
LIGHTING (L)	324 VA	125%	405 VA
RECEPTACLES (R)	720 VA	100%	720 VA
MOTORS (M)	0 VA	100%	0 VA
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA
MISC EQUIP (Z)	1500 VA	100%	1500 VA
REFRIGERATION (F)	0 VA	100%	0 VA
SIGNAGE (S)	0 VA	125%	0 VA
KITCHEN (K)	0 VA	100%	0 VA
LARGEST MOTOR	0 VA	125%	0 VA
SHOW WINDOW (W)	0 VA	125%	0 VA
TRACK LIGHTING	0 VA	100%	0 VA

PANELBOARD NOTES

PANELBOARD TOTALS

TOTAL CONNECTED LOAD	2544 VA
TOTAL NEC LOAD	2625 VA
TOTAL CONNECTED CURRENT	7 A
TOTAL NEC DEMAND CURRENT	7 A

PANELBOARD: E2-3-HLS (EXISTING)

BUS AMPS: 125A
MAIN SIZE/TYPE: 60A MCB
VOLTS/PHASE: 480Y/277 V 3P/4W
SUPPLIED BY: DP-E1-4-HLS

FAULT CURRENT: 48,817 A
AIC RATED: FULLY RATED
AIC RATING: 65,000
SERVES: 2ND FLOOR
MOUNTING: SURFACE
LOCATION: EMERG. ELEC 204

EQUIPMENT GROUND BUS

LINE-SIDE LUGS: MECHANICAL

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE A		PHASE B		PHASE C		P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
1	CORRIDOR 02-2E500 EGRESS LIGHTING	L	EX	12	20	1	725	584					1	20	12	EX	L	02-2E SOUTH EGRESS LIGHTING	2
3	WAITING 02-2E502A AUTO DOOR	Z	EX	12	20	1			500	0			1	20				SPARE	4
5	EXISTING SPARE				20	1					0	0	1	20				EXISTING LOAD	6
7	EXISTING LOAD				20	1	0	0					1	20				EXISTING LOAD	8
9	EXISTING LOAD				20	1			0	0			1	20				EXISTING SPARE	10
11	EXISTING SPARE				20	1					0	0	1	20				EXISTING SPARE	12
13	EXISTING SPARE				20	1	0	0					1	20				EXISTING SPARE	14
15	EXISTING EQUIPPED SPACE					1			0	0			1					EXISTING EQUIPPED SPACE	16
17	EXISTING EQUIPPED SPACE					1					0	0	1					EXISTING EQUIPPED SPACE	18
19	EXISTING EQUIPPED SPACE					1	0	0					1					EXISTING EQUIPPED SPACE	20
21	EXISTING EQUIPPED SPACE					1			0	0			1					EXISTING EQUIPPED SPACE	22
23	EXISTING EQUIPPED SPACE					1					0	0	1					EXISTING EQUIPPED SPACE	24
25	EXISTING EQUIPPED SPACE					1	0	0					1					EXISTING EQUIPPED SPACE	26
27	EXISTING EQUIPPED SPACE					1			0	0			1					EXISTING EQUIPPED SPACE	28
29	EXISTING EQUIPPED SPACE					1					0	0	1					EXISTING EQUIPPED SPACE	30
31	EXISTING EQUIPPED SPACE					1	0	0					1					EXISTING EQUIPPED SPACE	32
33	EXISTING EQUIPPED SPACE					1			0	0			1					EXISTING EQUIPPED SPACE	34
35	EXISTING EQUIPPED SPACE					1					0	0	1					EXISTING EQUIPPED SPACE	36
37	EXISTING EQUIPPED SPACE					1	0	0					1					EXISTING EQUIPPED SPACE	38
39	EXISTING EQUIPPED SPACE					1			0	0			1					EXISTING EQUIPPED SPACE	40
41	EXISTING EQUIPPED SPACE					1					0	0	1					EXISTING EQUIPPED SPACE	42
			TOTAL LOAD (VA):				1308 VA		500 VA		0 VA								
			TOTAL AMPS:				5 A		2 A		0 A								

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
EXISTING LOAD (E)	0 VA	100%	0 VA
COOLING (C)	0 VA	0%	0 VA
HEATING (H)	0 VA	100%	0 VA
LIGHTING (L)	1309 VA	125%	1636 VA
RECEPTACLES (R)	0 VA	0%	0 VA
MOTORS (M)	0 VA	100%	0 VA
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA
MISC EQUIP (Z)	500 VA	100%	500 VA
REFRIGERATION (F)	0 VA	100%	0 VA
SIGNAGE (S)	0 VA	125%	0 VA
KITCHEN (K)	0 VA	100%	0 VA
LARGEST MOTOR	0 VA	125%	0 VA
SHOW WINDOW (W)	0 VA	125%	0 VA
TRACK LIGHTING	0 VA	100%	0 VA

PANELBOARD NOTES

PANELBOARD TOTALS

TOTAL CONNECTED LOAD	1809 VA
TOTAL NEC LOAD	2136 VA
TOTAL CONNECTED CURRENT	2 A
TOTAL NEC DEMAND CURRENT	3 A

PANELBOARD: E2-15-LC (EXISTING)

BUS AMPS: 125A
MAIN SIZE/TYPE: 100A MCB
VOLTS/PHASE: 208Y/120 V 3P/4W
SUPPLIED BY: DP-E1-7-LC

FAULT CURRENT: 8,060 A (MAX)
AIC RATED: FULLY RATED
AIC RATING: 10,000
SERVES: 2ND FLOOR IT
MOUNTING: SURFACE
LOCATION: EMERG. ELEC 204

EQUIPMENT GROUND BUS

LINE-SIDE LUGS: MECHANICAL

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE A		PHASE B		PHASE C		P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
1	EXISTING ACTIVE CIRCUIT				30	2	0	0					2	30				EXISTING ACTIVE CIRCUIT	2
3									0	0									4
5	EXISTING ACTIVE CIRCUIT				30	2					0	0	2	30				EXISTING ACTIVE CIRCUIT	6
7							0	0											8
9	02-2E516 IT RECEPTACLES	Z	NB	10	30	2			1248	0			2	30				EXISTING ACTIVE CIRCUIT	10
11											1248	0							12
13	EQUIPPED SPACE					1	0	0					1					EXISTING EQUIPPED SPACE	14
15	EXISTING EQUIPPED SPACE					1			0	0			1					EXISTING EQUIPPED SPACE	16
17	EXISTING EQUIPPED SPACE					1					0	0	1					EXISTING EQUIPPED SPACE	18
19	EXISTING EQUIPPED SPACE					1	0	0					1					EXISTING EQUIPPED SPACE	20
21	EXISTING EQUIPPED SPACE					1			0	0			1					EXISTING EQUIPPED SPACE	22
23	EXISTING EQUIPPED SPACE					1					0	0	1					EXISTING EQUIPPED SPACE	24
			TOTAL LOAD (VA):				0 VA		1248 VA		1248 VA								
			TOTAL AMPS:				0 A		12 A		12 A								

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
EXISTING PEAK UTILITY (@ 0.9 pf)	12480 VA	125%	15600 VA
COOLING (C)	0 VA	0%	0 VA
HEATING (H)	0 VA	100%	0 VA
LIGHTING (L)	0 VA	125%	0 VA
RECEPTACLES (R)	0 VA	0%	0 VA
MOTORS (M)	0 VA	100%	0 VA
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA
MISC EQUIP (Z)	2496 VA	100%	2496 VA
REFRIGERATION (F)	0 VA	100%	0 VA
SIGNAGE (S)	0 VA	125%	0 VA
KITCHEN (K)	0 VA	100%	0 VA
LARGEST MOTOR	0 VA	125%	0 VA
SHOW WINDOW (W)	0 VA	125%	0 VA
TRACK LIGHTING	0 VA	100%	0 VA
EXISTING LOAD TO BE DELETED	0 VA	100%	0 VA

PANELBOARD NOTES

EX - EXISTING

NB - PROVIDE NEW BREAKER IN EXISTING PANEL

PANELBOARD TOTALS

TOTAL CONNECTED LOAD	14976 VA
TOTAL NEC LOAD	18096 VA
TOTAL CONNECTED CURRENT	42 A
TOTAL NEC DEMAND CURRENT	50 A

PANELBOARD: E2-6-LA (EXISTING)

BUS AMPS: 125A
MAIN SIZE/TYPE: 50A MCB
VOLTS/PHASE: 208Y/120 V 3P/4W
SUPPLIED BY: X-E2-6-LA

FAULT CURRENT: 8,060 A (MAX)
AIC RATED: FULLY RATED
AIC RATING: 10,000
SERVES:
MOUNTING: SURFACE
LOCATION: EMERG. ELEC 204

EQUIPMENT GROUND BUS

LINE-SIDE LUGS: MECHANICAL

CKT NO.	DESCRIPTION	LOAD TYPE	NOTES	WIRE SIZE	BKR AMP	P	PHASE A		PHASE B		PHASE C		P	BKR AMP	WIRE SIZE	NOTES	LOAD TYPE	DESCRIPTION	CKT NO.
1	EXISTING LOAD				20	1	0	0					1	20				EXISTING LOAD	2
3	EXISTING LOAD				20	1			0	0			1	20				EXISTING LOAD	4
5	EXISTING LOAD				20	1					0	0	1	20				EXISTING LOAD	6
7	EXISTING LOAD				20	1	0	0					1	20				EXISTING LOAD	8
9	EXISTING LOAD				20	1			0	0			1	15				EXISTING LOAD EF-8	10
11	EXISTING SPARE				20	1					0	50	1	15	12			2ND FLOOR 02-2E EF-9	12
13	EXISTING LOAD				20	1	0	0					1					EXISTING EQUIPPED SPACE	14
15	EXISTING LOAD EF-13				20	1			0	0			1	15				EXISTING LOAD EF-14	16
17	2ND FLOOR 02-2E VAVs CPT		NB	12	20	1					400	0	1	20				EXISTING LOAD	18
19	2ND FLOOR 02-2E AVs CPT		NB	12	20	1	350	0					1	20				EXISTING LOAD	20
21	EXISTING EQUIPPED SPACE					1			0	0			1					EXISTING EQUIPPED SPACE	22
23	EXISTING EQUIPPED SPACE					1					0	0	1					EXISTING EQUIPPED SPACE	24
25	EXISTING EQUIPPED SPACE					1	0	0					1					EXISTING EQUIPPED SPACE	26
27	EXISTING EQUIPPED SPACE					1			0	0			1					EXISTING EQUIPPED SPACE	28
29	EXISTING EQUIPPED SPACE					1					0	0	1					EXISTING EQUIPPED SPACE	30
31	EXISTING EQUIPPED SPACE					1	0	0					1					EXISTING EQUIPPED SPACE	32
33	EXISTING EQUIPPED SPACE					1			0	0			1					EXISTING EQUIPPED SPACE	34
35	EXISTING EQUIPPED SPACE					1					0	0	1					EXISTING EQUIPPED SPACE	36
37	EXISTING EQUIPPED SPACE					1	0	0					1					EXISTING EQUIPPED SPACE	38
39	EXISTING EQUIPPED SPACE					1			0	0			1					EXISTING EQUIPPED SPACE	40
41	EXISTING EQUIPPED SPACE					1					0	0	1					EXISTING EQUIPPED SPACE	42
			TOTAL LOAD (VA):				350 VA		0 VA		450 VA								
			TOTAL AMPS:				3 A		0 A		4 A								

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
EXISTING LOAD (E)	0 VA	100%	0 VA
COOLING (C)	0 VA	0%	0 VA
HEATING (H)	0 VA	100%	0 VA
LIGHTING (L)	0 VA	125%	0 VA
RECEPTACLES (R)	0 VA	0%	0 VA
MOTORS (M)	0 VA	100%	0 VA
SUPPLEMENTAL HEAT (U)	0 VA	100%	0 VA
MISC EQUIP (Z)	0 VA	100%	0 VA
REFRIGERATION (F)	0 VA	100%	0 VA
SIGNAGE (S)	0 VA	125%	0 VA
KITCHEN (K)	0 VA	100%	0 VA
LARGEST MOTOR	0 VA	125%	0 VA
SHOW WINDOW (W)	0 VA	125%	0 VA
TRACK LIGHTING	0 VA	100%	0 VA

PANELBOARD NOTES

NB - PROVIDE NEW BREAKER IN EXISTING PANEL

PANELBOARD TOTALS

TOTAL CONNECTED LOAD	0 VA
TOTAL NEC LOAD	0 VA
TOTAL CONNECTED CURRENT	0 A
TOTAL NEC DEMAND CURRENT	0 A

PANELBOARD LEGEND

ABBREVIATIONS

V1.03

AF	ARC FAULT CIRCUIT INTERRUPTER.
C#	CIRCUIT VIA CONTACTOR #.
CL	CIRCUIT VIA CURRENT LIMITING DEVICE.
D	DISCONNECT CIRCUITRY FOR REMOVED LOAD, UPDATE CIRCUIT DIRECTORY TO SPARE AND TURN OFF.
EM	EMERGENCY LIGHTING HANDLE-ON CLAMP.
EX	EXISTING.
F	FUTURE LOAD; NOTE AS SPARE AND TURN OFF.
FA	RED/HANDLE-ON CLAMP.
GF	GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA). (WHERE GFCI CIRCUIT BREAKERS ARE INDICATED BUT NOT AVAILABLE: PROVIDE UL 943 LISTED, CLASS A GFCI DEVICE FOR BRANCH CIRCUIT BY NORTHSHORE SAFETY OR LITTLEFUSE SHOCK BLOCK AT APPROPRIATE AMPERAGE AND LOCATE ADJACENT TO THE PANELBOARD IN A READILY ACCESSIBLE LOCATION).
GFEP	GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA).
HT	PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUIT PER CODE.
IG	ISOLATED GROUND CIRCUIT.
L#	LIGHTING CONTROL SCHEME NUMBER.
LCK	HANDLE PADLOCKABLE-OFF DEVICE.
LO	HANDLE-ON CLAMP.
N	PROVIDE NEW CIRCUIT BREAKER.
OL	REFER TO ELECTRICAL ONE-LINE/RISER DIAGRAM.
PS	POWER-SWITCHING CIRCUIT BREAKER.
PSE	EMERGENCY POWER-SWITCHING CIRCUIT BREAKER.
R	REUSE EXISTING CIRCUIT BREAKER FOR NEW/REVISED LOAD.
RP	CIRCUIT VIA RELAY PANEL.
ST	SHUNT TRIP CIRCUIT BREAKER.
STC	SHUNT TRIP CONTACTOR
V	VERIFY EXISTING LOAD AND UPDATE DIRECTORY, IF UNUSED, NOTE AS SPARE AND TURN OFF.
VD	BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP. ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF REQUIRED.
Z	CORRECT/REPAIR EXISTING HAZARD TO MAKE CODE COMPLIANT INSTALLATION.

NOT ALL ABBREVIATIONS ARE USED.

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
04/17/2025

CARSON A. MOSER
NUMBER PE-2014015037

04/07/2025
CARSON A. MOSER
LICENSE # PE-2014015037

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2450004866
MO. CORPORATE NO: E-556D
EXPIRES 10/31/2025

SUMMIT GI ADDITION
SAINT LUKE'S EAST
100 NE SAINT LUKE'S BLVD.
LEE'S SUMMIT MO 64086

Date	04/07/25
Job Number	3-24100
Drawn By	AR
Checked By	EG

Revision

Number	Date	Description

E702

ELECTRICAL SCHEDULES

4/7/2025 2:16:55 PM

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CARSON A. MOSER