



# LAB REMODEL 100 NE ST LUKES BLVD, LEE'S SUMMIT, MO 64086

Samuel K. Beckman - Architect  
License - Missouri EA-2011012130

**ACI**  
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ARCHITECTS

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## PROJECT TEAM

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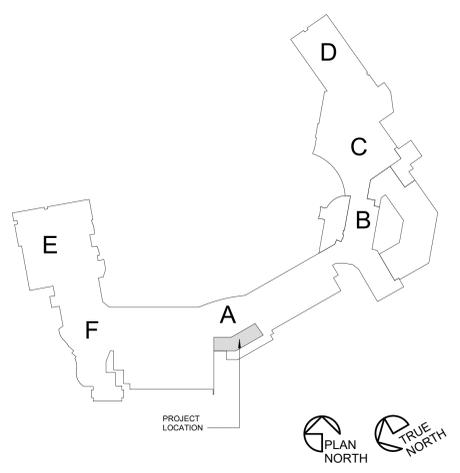
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### ABBREVIATIONS

AC. ACCUSTIC/ACOUSTICAL	FLOR. FLUORESCENT	PTD. PAINTED
ADD. ADDENDUM	FTG. FOOTING	PG. PAGE
ADDN. ADDITION	FND. FOUNDATION	PLAM. PLASTIC LAMINATE
ABC. AGGREGATE BASE COURSE	FR. FRAME	PR. PAIR
AFF. ABOVE FINISH FLOOR	F.H.C. FIRE HOSE CAB.	PNL. PANEL
AGG. AGGREGATE	FV. FIELD VERIFY	PTN. PARTITION
AC. AIR CONDITIONING		PENNY
AL. ALUMINUM	GA. GAUGE	PL. PLATE
ALT. ALTERNATE	GL. GLASS / GLAZING	PLBGS. PLUMBING
A.B. ANCHOR BOLT	GD. GRADE	PLYWD. PLYWOOD
& AND	G. GRAM	PT. POINT
ARCH. ARCHITECT	GR. GRILLE	P.S.I. POUNDS PER SQ. IN.
ASP. ASPHALT	GRD. GRID	P.S.F. POUNDS PER SQ. FT.
@ AT	GND. GROUND	P.C. PRECAST
ACT. ACOUSTIC CEILING TILE/PANEL	G.S. GALVANIZED STEEL	P.L. PROPERTY LINE
∠ ANGLE	GYP. GYPSUM	
∠ GYB/G.B. GYPSUM BOARD		
		R. RISER, RISERS
BLKG. BLOCKING	H.R. HAND RAIL	RAD. RADIUS
BSMT. BASEMENT	HDN. HARDENER	R.D. ROOF DRAIN
BM. BEAM	HDW. HARDWARE	RB. RESILIENT BASE
B.M. BENCHMARK	HDWD. HARDWOOD	RE. REFER TO
BD. BOARD	HTR. HEATER	REG. REGISTER
B.O. BOTTOM OF	HTR. HEATER	REQD. REQUIRED
BLDG. BUILDING	HT. HEIGHT	REV. REVISION
	H.P. HIGH POINT	RFG. ROOFING
CABT. CABINET	H.M. HOLLOW METAL	ROUSH. ROUGH
C.I.P. CAST IN PLACE	HORIZ. HORIZONTAL	RM. ROOM
C.B. CATCH BASIN	H.S. HOSE BIB	RND. ROUND
C.C.G. CEILING	H.W. HOT WATER	R.O. ROUGH OPENING
CEM. CEMENT/CEMENTITIOUS		
CG. CENTIGRAM	IN. INCH / INCHES	SCHED. SCHEDULE
CM. CENTIMETER	I.D. INSIDE DIAMETER	S.C. SEALED CONCRETE
CL. CENTER LINE	INSUL. INSULATION	SCR. SCREW
CER. CERAMIC	INT. INTERIOR	SECT. SECTION
C.T. CERAMIC TILE	INV. INVERT	SEL. SELECT
CHAN. CHANNEL	JAN. JANITOR	SHG. SHEATHING
C. CLEAR	JT. JOINT	SHT. SHEET
CLR. CLEAN OUT	JST. JOIST	SDG. SIDING
C.O. CLEAN OUT		SIM. SIMILAR
CLOS. CLOSET	K.P. KICK PLATE	SLDGS. SLIDING
COL. COLUMN	LAM. LAMINATED	SM. SMOOTH
CONC. CONCRETE	LB. POUND	SPEC. SPECIFICATION
CONN. CONNECTION	LDG. LANDING	SQ. SQUARE
CONST. CONSTRUCTION	LTH. LATH	ST. STAINED
C.J. CONTROL JOINT	LAV. LAVATORY	STD. STANDARD
CONT. CONTINUOUS	LG. LENGTH	S.S. / STAINLESS STEEL
CONTR. CONTRACTOR	LOC. LOCATION	STRUC. STRUCTURE
CORR. CORRUGATED	LT. LIGHT	SUSP. SUSPENDED
CTR. COUNTER	L.W.C. LIGHT WEIGHT CONCRETE	SW. SW. SWITCHBOARD
CTSK. COUNTERSUNK	LVR. LOUVER	SYS. SYSTEM
C.M.U. CONCRETE MASONRY UNIT	LOC. LOCATION	
		T. TREAD
D.P. DAMP PROOFING	M.O. MASONRY OPENING	T.C. TOP OF CURB
DB. DECIBEL	MATL. MATERIAL	T.G. TEMPERED GLASS
DIAG. DIAGONAL	MFR. MANUFACTURER	T.O. TOP OF
DIAM. DIAMETER	MB. MARKER BOARD	T.S.D. TOP OF STEEL DECK
DM. DIMENSION	MAX. MAXIMUM	T.W. TEACHERS WARDROBE
DISP. DISPENSER	MECH. MECHANICAL	TYP. TYPICAL
DWL. DOWEL	MTL. METAL	
DN. DOWN	M.L. METAL LATH	
D.S. DOWNSPOUT	M. METER	
DWG. DRAWING	MIN. MINIMUM	U.O.N. UNLESS OTHERWISE NOTED
	MLDG. MOLDING	
	MULL. MULLION	V. VENT
EA. EACH		VERT. VERTICAL
ELEC. ELECTRIC		V.G. VERTICAL GRAIN
E.W.C. ELECTRIC WATER COOLER	N.G. NATURAL GRADE	V.S. VESTIBULE
EL. ELEVATION	NOM. NOMINAL	V.C.T. VINYL COMPOSITION TILE
ELEV. ELEVATOR	N.I.C. NOT IN CONTRACT	VCP. VITREOUS CLAY PIPE
EQ. EQUAL	N.T.S. NOT TO SCALE	
EQUIP. EQUIPMENT	NO. / # NUMBER	W.W.M. WELDED WIRE MESH
EXH. EXHAUST		W.C. WATER CLOSET
EXPAN. EXPANSION	OB. OBSCURE	W.H. WATER HEATER
E.J. EXPANSION JOINT	O.C. ON CENTER	W.F. WIDE FLANGE
EXIST. EXISTING	OPNG. OPENING	W. WITH
EXT. EXTERIOR	O.A. OVERALL	W/O. WITHOUT
	O.D. OUTSIDE DIAMETER	WD. WOOD
FT. FEET / FOOT	O.F.S. OVERFLOW SCUPPER	WDW. WINDOW
FIN. FINISH	O.F.D. OVERFLOW DRAIN	W.W. WINDOW WALL
FIXT. FIXTURE	O.H.D. OVERHEAD DOOR	
FL. FLASHING		
FLR. FLOOR		
F.D. FLOOR DRAIN		

### LOCATION PLAN



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RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
10/20/2020

**LAB REMODEL**  
**100 NE ST LUKES BLVD,**  
**LEE'S SUMMIT, MO 64086**

Date 09.18.2020  
Job Number 3-20030  
Drawn By BR  
Checked By AD

Revision

Number	Date	Description
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**A0.1**

10/16/2020 11:38:44 AM

### CODE SUMMARY

**Project Construction Purpose:** Lab Renovation

**Owner Information:**  
Saint Luke's East Hospital  
100 NE Saint Luke's Boulevard  
Lee's Summit, MO 64086

**Designer Information:**  
ACI Boland Architects  
1710 Wyandotte St.  
Kansas City, MO 64108  
Phone: (816) 763-9600  
Fax: (816) 763-9757

**Code Information:**  
2018 International Building Code  
2018 International Plumbing Code  
2018 International Mechanical Code  
2017 National Electrical Code (NFPA 70)  
2018 International Fire Code  
2009 ICC/ANSI A117.1 as amended and adopted by the City of Lee's Summit

State of Missouri Dept. of Health & Environment references the following codes:  
2012 NFPA 101 Life Safety Code (LSC)  
2014 FGI Guidelines for Design & Construction of Hospitals & Outpatient Facilities

Note: If code requirements overlap, the most stringent shall apply. All code summary references list IBC section numbers. NFPA section numbers are in parentheses after or below.

**Local Authority:**  
Responsible Fire Service: Lee's Summit Fire Department  
Local Building Inspection: Lee's Summit, MO - Codes Administration Department

**Type of Construction:**  
Type 1-A - Section 602.2  
(Type 1 - 332 Sprinklered - Section 18.1.6.1)

**Code Reviewer:**  
The area of renovation will have no impact on occupant load or egress from the existing space. New egress and occupant load will be routed through existing doors. There are no alterations to the existing life safety plan.

**Occupancy Group:** Laboratory: Business (B) - Section 304

**Occupant Load:**  
Occupant Load Factor: Business = 100 gross Table 1004.1.2  
Total Square Footage = 2,565/100 = 26 Occupants

**Required Egress Width Per Occupant Served:**  
26 Occupants x 15 = 4' Required  
2 Doors at 30" Width = 72" Provided

**Required Fire Resistance Ratings (in hours)**  
Per NFPA 101 A.9.2.1.2:

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

**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

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RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 10/20/2020



### 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

**SYMBOLS**

- FIRE EXIT
- OCCUPANT LOAD
- EXIT WIDTH PROVIDED
- EXIT WIDTH REQUIRED
- NEW FIRE EXTINGUISHER CABINET
- EXISTING FIRE EXTINGUISHER CABINET
- FIRE EXTINGUISHER
- EXIT SIGN
- FIRE DOOR RATING
- TRAVEL DISTANCE
- STROBE
- STROBE/SPEAKER
- HORN/STROBE
- HORN
- FIRE PULL STATION
- FIRE SPRINKLER ZONE VALVE

A2 PARTIAL FIRST FLOOR LIFE SAFETY PLAN  
1/4" = 1'-0"

PLAN NORTH TRUE NORTH

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

**Saint Luke's EAST HOSPITAL**  
LAB REMODEL  
100 NE ST LUKES BLVD,  
LEE'S SUMMIT, MO 64086

Date 09.18.2020  
Job Number 3-20030  
Drawn By BR  
Checked By AD

Revision		
Number	Date	Description
1	10.12.20	ADD 01

**A0.2**  
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CODE FOOTPRINT PLAN

### GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH A.D.A. REQUIREMENTS AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL BUILDING CODES AND REGULATIONS.
  - THE GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY BUILDING PERMITS.
  - 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.
  - DO NOT SCALE DRAWINGS.
  - THE WORD "ALIGN" AS USED IN THESE DOCUMENTS SHALL SUPERSEDE ANY DIMENSIONAL INFORMATION GIVEN.
  - THE GENERAL CONTRACTOR TO PROVIDE ALL REQUIRED LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO MEET AND COMPLETE THE REQUIREMENTS OF THE NEW CONSTRUCTION.
  - 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.
  - THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP.
  - THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL NOT CLOSE OR OBSTRUCT WALKWAYS, EXITS, OR OTHER FACILITIES USED BY OCCUPANTS OF THE BUILDING WITHOUT WRITTEN PERMISSION FROM AUTHORITIES HAVING JURISDICTION.
  - THE GENERAL CONTRACTOR SHALL CONDUCT ALL OPERATIONS IN A SAFE WORKING MANNER TO PREVENT DAMAGE OR INJURY TO ADJACENT SPACES, BUILDING, STRUCTURE, OTHER FACILITIES, AND PERSONS.
  - IF MATERIALS 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.
  - THE GENERAL 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.
- REMODEL/RENOVATION NOTES**
- THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY 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.
  - THE 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.
  - UPON VERIFICATION OF THE EXISTING CONDITIONS, THE CONTRACTOR SHALL DETERMINE AND RECOMMEND THE BEST ACTION TO MINIMIZE THE EXTENT OF REMOVAL WORK FOR INSTALLATION OF NEW WORK.



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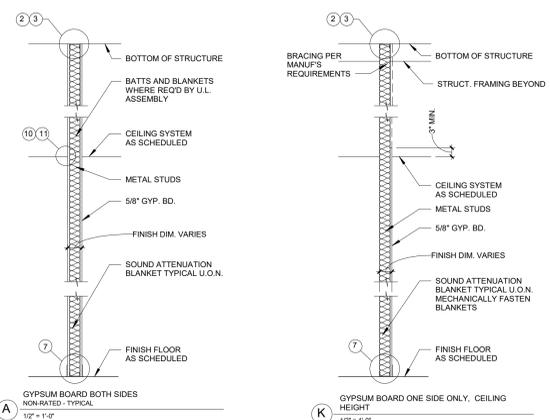
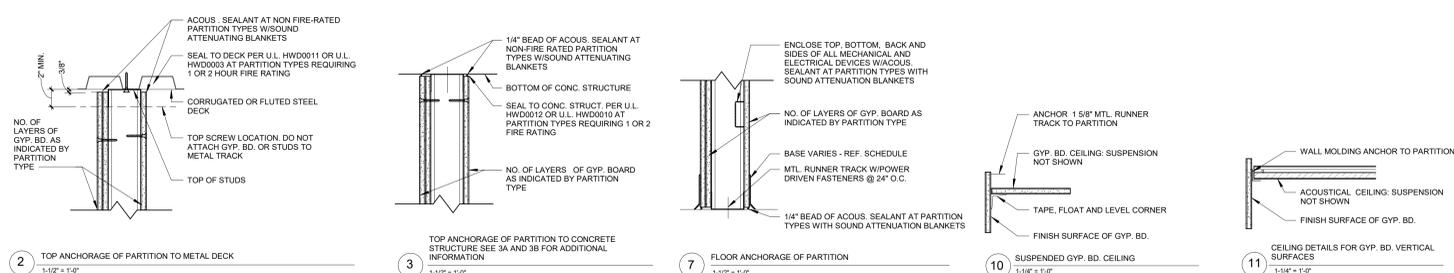
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### PARTITION GENERAL NOTES

- UNLESS NOTED OTHERWISE, ALL INTERIOR METAL STUDS ARE 3/8" THICK. REFER TO SUFFIX SCHEDULE BELOW FOR LOCATIONS OF METAL STUDS OTHER THAN 3/8" THICK. NOTE: STUD THICKNESS (GAUGE) MUST CONFORM TO MANUFACTURER'S RECOMMENDATIONS FOR SPAN (HEIGHT OF STUD).
  - 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       |
- UNLESS NOTED OTHERWISE, ALL INTERIOR DRYWALL PARTITIONS INDICATED ON THE FLOOR PLAN DRAWING ARE TYPE 'X' PARTITIONS, WHERE OCCURS, RATINGS ARE AS INDICATED ON THE LIFE SAFETY PLANS.
  - 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.
  - ALL STUDS ARE CONTINUOUS FROM FLOOR STRUCTURE TO CEILING STRUCTURE UNLESS NOTED OTHERWISE.
  - METAL STUDS ARE SPACED @ 16" O.C. MAX., UNLESS NOTED OTHERWISE.
  - UNLESS NOTED OTHERWISE, ALL GYPSUM BOARD IS TO BE 5/8" THICK "FIRCODE".
- THE LOCATION OF A CHANGE IN THE PARTITION TYPE IS INDICATED BY A WALL TAG.
- THE CORRESPONDING RATED ASSEMBLIES ARE INDICATED BELOW THE PARTITION TYPES.
  - PARTITION TYPE DESIGNATIONS ARE INDICATED ON THE FLOOR PLAN DRAWINGS.
  - PARTITION TYPES DO NOT INCLUDE APPLIED FINISHES CALLED FOR IN THE ROOM FINISH SCHEDULE.
  - 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.



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

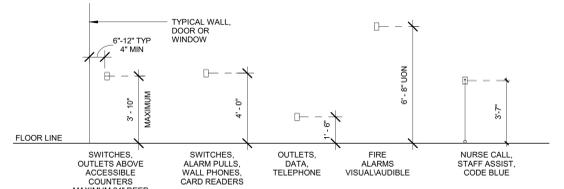
---	1 HOUR FIRE SEPARATION
---	U.L. U465 FOR 3 5/8" STUDS
---	U.L. U442 AT TILED WALLS
---	U.L. U451 FOR 2 1/2" STUDS

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Date 09.18.2020  
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Revision	Number	Date	Description



**SYMBOLS**  
1/4" = 1'-0"

DETAIL BUBBLE EXAMPLES: 1 A101, 1 A101, 1 A101, 1 A101, 1 A101

DETAIL SYMBOL: 1 A101

BUILDING SECTION SYMBOL: 1 Ref, 1 A101

WALL SECTION SYMBOL: 1 Ref, 1 A101

SECTIONAL DETAIL SYMBOL: 1 A101

EXTERIOR ELEVATION SYMBOL: 1 Ref, 1 A101

INTERIOR ELEVATION SYMBOL: 1 Ref, 1 A101

NORTH ARROW SYMBOL: PROJECT NORTH

DETAIL TITLE SYMBOL: A VIEW NAME 1/12" = 1'-0"

STANDARD VIEW TITLE: A1 VIEW NAME 1/8" = 1'-0"

KEYNOTE SYMBOLS: #, #, #

REVISION SYMBOL: #

MAGNETIC DOOR HOLD: #

Room Name and Number Symbol: 101

Door Tag: 101

Window Tag: 101

Toilet Accessory Tag: TA-0

Equipment Tag: E-0

Wall Type Symbol: AA

Spot Elevation: #

Power Actuator: #

Prox Reader: #

Prox Reader w/ Power Actuator: #

### A0.3

GENERAL NOTES, LEGENDS, SYMBOLS, & PARTITION TYPES





### KEYNOTES - DEMO RCP

NUMBER	COMMENTS
1	REMOVE SINK, CABINETS, COUNTERTOP AND ASSOCIATED PLUMBING AND ELECTRICAL ITEMS. RE: MEP DRAWINGS FOR ADDITIONAL INFORMATION.
2	REMOVE EXISTING DOOR AND HARDWARE. SALVAGE TO OWNER.
3	REMOVE EXISTING FIRE EXTINGUISHER CABINET AND SALVAGE FOR REUSE. RE: LIFE SAFETY PLAN FOR RELOCATION.
4	COORDINATE REMOVAL OF EXISTING MODULAR CASEWORK, MODULAR WALLS, AND MODULAR PANELS WITH OWNER & FURNITURE VENDOR. TERMINATE AND CAP ALL ELECTRICAL AS REQUIRED. RE: MEP.
5	COORDINATE REMOVAL & RELOCATION OF EXISTING FURNITURE & EQUIPMENT WITH OWNER & FURNITURE VENDOR.
6	PATCH & REPAIR EXISTING FLOOR AS REQUIRED AFTER THE REMOVAL OF WALLS.
7	REMOVE EXISTING FLOORING & WALL BASE. PREP SUBFLOOR TO RECEIVE NEW FLOORING.
8	PREP WALLS TO RECEIVE NEW WALL BASE AND/OR FINISHES. RE: FINISH PLAN & SCHEDULE.
9	COORDINATE REMOVAL OF EXISTING POWER POLES WITH OWNER & FURNITURE VENDOR. CAP ALL WIRES & CONDUIT AND PATCH FLOORING AS REQUIRED. SALVAGE POLES FOR REUSE. RE: MEP FOR ADDITIONAL INFORMATION.
10	REMOVE EXISTING TV AND ASSOCIATED BRACKET AS REQUIRED TO INSTALL NEW FINISHES. RE: FINISH PLAN & SCHEDULE. CAP ALL WIRES & CONDUIT AS REQUIRED. SALVAGE TV AND BRACKET FOR REINSTALLATION. RE: MEP FOR ADDITIONAL INFORMATION.
11	REMOVE EXISTING COMPUTER, MONITOR, AND ACCESSORIES. SALVAGE TO OWNER FOR RELOCATION.
12	EXISTING ANALYZERS TO REMAIN. COORDINATE RELOCATION WITH OWNER AS REQUIRED FOR INSTALLATION OF NEW ANALYZERS.
13	REMOVE EXISTING LIGHT FIXTURES. SALVAGE FOR RELOCATION. RE: MEP.
14	REMOVE EXISTING SUPPLY DIFFUSERS. SALVAGE FOR RELOCATION. RE: MEP.
15	REMOVE EXHAUST DUCT AND REPLACE CEILING TILES AS REQUIRED TO ACCOMMODATE FUME HOOD RELOCATION. RE: MEP.
16	COORDINATE REMOVAL OF EXISTING POWER POLES WITH OWNER AND FURNITURE VENDOR. CAP ALL WIRES & CONDUIT AS REQUIRED. SALVAGE POLES FOR RELOCATION. RE: DEMO PLAN & MEP. REPLACE INDIVIDUAL CEILING TILES AFTER POWER POLES ARE RE-LOCATED.
17	REMOVE EXISTING CEILING GRID AND TILES.
18	COORDINATE TEMPORARY RELOCATION OF FURNITURE & EQUIPMENT WITH OWNER AND FURNITURE VENDOR AS REQUIRED TO PERFORM NEW WORK.
19	REMOVE EXISTING DOOR, FRAME ETR. SALVAGE HARDWARE FOR RE-INSTALL. PREP FRAME FOR NEW PAINT.
20	COORDINATE REMOVAL OF EXISTING FURNITURE WITH FURNITURE VENDOR AS REQUIRED TO PERFORM NEW WORK. RE: MEP.
21	REMOVE EXISTING VWC & WALL PROTECTION. PREP WALLS TO RECEIVE NEW WALL BASE AND FINISHES. RE: FINISH PLAN & SCHEDULE.
22	REMOVE EXISTING CEILING TILES. GRID ETR.
23	FIELD VERIFY LOCATION OF EXISTING MAIL BOX ON CORRIDOR SIDE. OPEN INTERIOR WALL TO INSTALL FIRE RATED 5-SIDED GYPSUM BOARD BOX AROUND MAIL BOX.
24	FIELD VERIFY LOCATION OF EXISTING ZONE VALVE BOX ON CORRIDOR SIDE. OPEN INTERIOR WALL TO INSTALL FIRE RATED 5-SIDED GYPSUM BOARD BOX AROUND ZVB.



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RELEASE FOR CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
10/20/2020

**Saint Luke's**  
EAST HOSPITAL  
**LAB REMODEL**  
100 NE ST LUKES BLVD,  
LEE'S SUMMIT, MO 64086

Date 09.18.2020  
Job Number 3-20030  
Drawn By Author  
Checked By Checker

Number	Date	Description
1	10.12.20	ADD 01

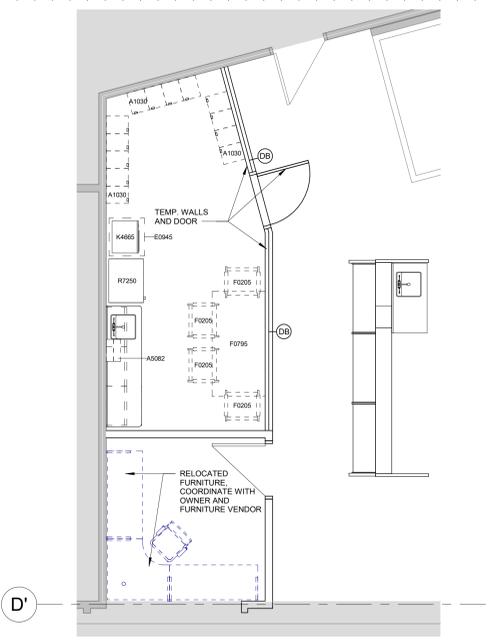
## AD2.2

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DEMOLITION REFLECTED CEILING PLAN



A2 PARTIAL FIRST FLOOR DEMO RCP  
1/4" = 1'-0"





**D4** TEMPORARY PHASE B PLAN  
1/4" = 1'-0"  
PLAN NORTH TRUE NORTH

### PHASING NOTES

CONSTRUCTION PHASING SUMMARY	
1. THE LAB IS A 24 HOURS/7 DAY PER WEEK OPERATION.	2. INSTALL TEMPORARY CONSTRUCTION PARTITION DURING EACH PHASE OF THE WORK TO CONTAIN CONSTRUCTION DUST AND DEBRIS WITHIN THE CONSTRUCTION AREA. CONTRACTOR TO INSTALL ADDITIONAL PLASTIC DUST PARTITIONS IN CORRIDOR OR ELSEWHERE AS NEEDED FOR CONSTRUCTION PHASING.
<b>PHASE A</b>	
1. COORDINATE REMOVAL & RELOCATION OF ALL EXISTING EQUIPMENT AND FURNITURE IN TRANSPORTER'S OFFICE 1A027B.	2. PERFORM NEW WORK, RE: PLAN, FINISH SCHEDULE & MEP.
3. COORDINATE REMOVAL & RELOCATION OF ALL WIRE SHELVING TO NEW LAB STORAGE 1A027B (PREVIOUSLY TRANSPORTER'S OFFICE).	
<b>PHASE B</b>	
1. COORDINATE REMOVAL & RELOCATION OF ALL FURNITURE IN P.O.C. 1A041H & CYST 1A041G.	2. DEMO EXISTING P.O.C. 1A041H.
3. PERFORM NEW WORK, RE: PLAN, FINISH SCHEDULE & MEP.	4. CONSTRUCT TEMPORARY DUST BARRIERS FOR TEMPORARY BREAK ROOM RELOCATION.
5. COORDINATE TEMPORARY RELOCATION OF FURNITURE AND EQUIPMENT FROM EXISTING SUPERVISOR'S OFFICE 1A041E TO CYST 1A041G.	6. COORDINATE TEMPORARY RELOCATION OF EXISTING FURNITURE & EQUIPMENT FROM BREAK ROOM 1A041D TO PHASE B AREA.
<b>PHASE C</b>	
1. CAREFULLY PROTECT EXISTING METAL CASEWORK IN BREAK ROOM 1A041D.	2. PERFORM NEW WORK IN BREAK ROOM 1A041D, SUPERVISOR'S OFFICE 1A041E, AND SHARED OFFICE 1A041F. RE: FLOOR PLAN, MEP, FINISH PLAN AND FINISH SCHEDULE.
3. COORDINATE FINAL RELOCATION OF FURNITURE & EQUIPMENT FOR SUPERVISOR FROM CYST 1A041G TO SUPERVISOR'S OFFICE 1A041E.	4. COORDINATE FINAL RELOCATION OF FURNITURE & EQUIPMENT FROM TEMP BREAK ROOM IN PHASE B TO NEW BREAK ROOM 1A041D.
5. COORDINATE RELOCATION OF FURNITURE AND EQUIPMENT FROM SHARED OFFICE IN PHASE D TO NEW SHARED OFFICE 1A041F.	
<b>PHASE D</b>	
1. UPON COMPLETION OF PHASE C AND RELOCATION OF TEMP. SUPERVISOR'S OFFICE AND BREAK ROOM, DEMO EXISTING CYST 1A041G.	2. PATCH AND REPAIR WALLS IN VACATED TEMP PHASE B AREA. CAREFULLY PROTECT NEW CASEWORK IN TEMP PHASE B AREA DURING THE WORK.
3. PERFORM NEW WORK, RE: PLAN, FINISH SCHEDULE, AND MEP.	4. COORDINATE INSTALLATION OF NEW FURNITURE AND EQUIPMENT WITH OWNER AND FURNITURE VENDOR.
<b>PHASE E</b>	
1. COORDINATE RELOCATION OF EXISTING ANALYZERS WITH OWNER AS REQUIRED FOR INSTALLATION OF NEW ANALYZERS.	2. PERFORM NEW WORK, RE: PLAN, FINISH SCHEDULE & MEP.
3. COORDINATE RELOCATION OF ALL FURNITURE AND EQUIPMENT WITH OWNER AND FURNITURE VENDOR.	



**A4** FIRST FLOOR PHASING PLAN  
1/8" = 1'-0"  
PLAN NORTH TRUE NORTH



**A1** FIRST FLOOR PHASING DEMO PLAN  
1/8" = 1'-0"  
PLAN NORTH TRUE NORTH

Samuel K. Beckman - Architect  
 License - Missouri EA-2011012130  
 09.18.20

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 ARCHITECTURAL PHASING PLAN

### FFE SCHEDULE

TYPE MARK	DESCRIPTION	RESPONSIBILITY	COMMENTS
A1030	LOCKER 2 TIER	VFVI	RELOCATED BY JOHN A. MARSHALL
A5075	SOAP DISPENSER	GFCE	NEW
A5082	PAPER TOWEL DISPENSER	GFCE	NEW
A5145	COAT RACK	VFVI	NEW BY JOHN A. MARSHALL. PROVIDE IN WALL BLOCKING
A5210	BRACKET TELEVISION SWIVEL	GFCE	EXISTING
E0116	WORKSTATION, MOBILE, CUSTOM, 33.5"W, 24"D	VFVI	RELOCATED BY JOHN A. MARSHALL
E0117a	WORKSTATION, MOBILE, 48"W, 24"D	VFVI	RELOCATED BY JOHN A. MARSHALL
E0117b	WORKSTATION, MOBILE, 48"W, 30"D	VFVI	RELOCATED BY JOHN A. MARSHALL
E0120a	WORKSTATION, MOBILE, 60"W, 24"D	VFVI	RELOCATED BY JOHN A. MARSHALL
E0120b	WORKSTATION, MOBILE, 60"W, 30"D	VFVI	RELOCATED BY JOHN A. MARSHALL
E0123a	WORKSTATION, MOBILE, 72"W, 24"D	VFVI	RELOCATED BY JOHN A. MARSHALL
E0123b	WORKSTATION, MOBILE, 72"W, 30"D	VFVI	RELOCATED BY JOHN A. MARSHALL
E0123c	WORKSTATION, MOBILE, 72"W, 24"D	VFVI	RELOCATED BY JOHN A. MARSHALL
E0245	CHART MOBILE	VFVI	NEW BY JOHN A. MARSHALL
F0205	SIDE CHAIR, W/ ARMS	VFVI	RELOCATED BY JOHN A. MARSHALL
F0300	CHAIR, TASK, SWIVEL, W/ ARMS	VFVI	RELOCATED BY JOHN A. MARSHALL
F0410a	FILE, LATERAL, HALF HEIGHT	VFVI	RELOCATED BY JOHN A. MARSHALL
F0410b	FILE, LATERAL, FULL HEIGHT	VFVI	RELOCATED BY JOHN A. MARSHALL
F0415	FILE, LATERAL, FULL HEIGHT	VFVI	RELOCATED BY JOHN A. MARSHALL
F0430	CABINET, BIF. MOBILE PEDESTAL	VFVI	RELOCATED BY JOHN A. MARSHALL
F0795	DINING TABLE	VFVI	RELOCATED BY JOHN A. MARSHALL
F2540	SHRED-DT	GFCE	EXISTING
K4665	MICROWAVE	GFCE	RELOCATED POWER AS REQUIRED. RE: MEP
L0100	MICROSCOPE	GFCE	RELOCATED POWER AS REQUIRED. RE: MEP

### FFE SCHEDULE

TYPE MARK	DESCRIPTION	RESPONSIBILITY	COMMENTS
L0145	MICROSCOPE, DUAL HEAD	GFCE	RELOCATED POWER AS REQUIRED. RE: MEP
L0990	ANALYZER, URINE	GFCE	RELOCATED POWER & DATA AS REQUIRED. RE: MEP
L0995a	ANALYZER, URINE (SYSMEX UF-1000)	GFCE	RELOCATED POWER & DATA AS REQUIRED. RE: MEP
L0995b	ANALYZER, URINE (SIEMENS CLINTEK NOVUS)	GFCE	RELOCATED POWER & DATA AS REQUIRED. RE: MEP
L1030	ANALYZER, CHEMISTRY, STAT (SEM PREMIERES 4000)	GFCE	RELOCATED POWER & DATA AS REQUIRED. RE: MEP
L1076	BATH, WATER, PLASMA THAWING (HELMER)	GFCE	RELOCATED POWER AS REQUIRED. RE: MEP
L1085	ANALYZER, COAGULATION (STA20)	GFCE	RELOCATED POWER & DATA AS REQUIRED. RE: MEP
L1115a	ANALYZER, HEMATOLOGY (SYSMEX XN-1000)	GFCE	RELOCATED POWER & DATA AS REQUIRED. RE: MEP
L1115b	ANALYZER, HEMATOLOGY (EXCITE)	GFCE	RELOCATED POWER AS REQUIRED. RE: MEP
L1190	OSMOMETER	GFCE	RELOCATED POWER AS REQUIRED. RE: MEP
L1350	CENTRIFUGE	GFCE	RELOCATED POWER AS REQUIRED. RE: MEP
L2310	CABINET, BIOSAFETY F.S. 48"W	GFCE	RELOCATED POWER AS REQUIRED. RE: MEP
L2375	INCUBATOR, PLATELET STORAGE SYSTEM (HELMER)	GFCE	RELOCATED POWER AS REQUIRED. RE: MEP
M0500	MONITOR	GFCE	EXISTING RELOCATED
M1801	COMPUTER	GFCE	RELOCATED POWER & DATA AS REQUIRED. RE: MEP
M1825	PRINTER	GFCE	RELOCATED POWER & DATA AS REQUIRED. RE: MEP
M2055a	WIRE SHELVING, 48"Wx18"Dx74"H	VFVI	RELOCATED BY METRO SHELVING
M2055b	WIRE SHELVING, 48"Wx18"Dx74"H	VFVI	RELOCATED BY METRO SHELVING
M3073	BASKET, INFECTIOUS WASTE, STEP-ON	GFCE	RELOCATED
R5100	FREEZER	GFCE	RELOCATED POWER AS REQUIRED. RE: MEP
R5110	FREEZER, PLASMA, IUC	GFCE	RELOCATED POWER AS REQUIRED. RE: MEP
R5130	FREEZER, PLASMA	GFCE	RELOCATED POWER AS REQUIRED. RE: MEP
R6400	REFRIGERATOR, COUNTERTOP	GFCE	RELOCATED POWER AS REQUIRED. RE: MEP
R7250	REFRIGERATOR	GFCE	RELOCATED POWER AS REQUIRED. RE: MEP
U1000	VOLANTE CABINET	GFCE	RELOCATED POWER AS REQUIRED. RE: MEP
U1001	ANALYZER, (GENEXPERT)	GFCE	RELOCATED POWER & DATA AS REQUIRED. RE: MEP
U1002	MILLIPORE CLX UNIT	VFVI	NEW, RE: VENDOR DRAWINGS
U1003	MILLIPORE WATER SOFTENER	VFVI	NEW, RE: VENDOR DRAWINGS
U1004	MILLIPORE CARBON FILTER	VFVI	NEW, RE: VENDOR DRAWINGS
U1005	WIRE CART	VFVI	NEW BY JOHN A. MARSHALL
U1006	UPS RACK	VFVI	NEW BY JOHN A. MARSHALL. RE: SIEMENS DRAWINGS FOR SIZE REFERENCE

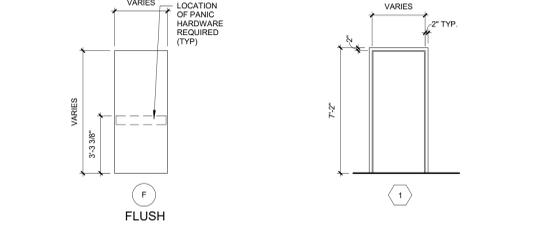
#### FFE SCHEDULE GENERAL NOTES

1. ALL ITEMS IN THE FFE SCHEDULE ARE EXISTING AND TO BE RELOCATED, UNLESS OTHERWISE NOTED.

### DOOR SCHEDULE

DOOR #	ROOM NAME	DOOR INFORMATION		FRAME INFORMATION		OPENING DETAIL		REMARKS	REV #						
		WIDTH	HEIGHT	NO. OF LEAVES	UNEQUAL LEAF WIDTH	ELEV.	MATL.			ELEV.	MATL.	GLAZING	LABEL (MIN)	HARDWARE SET	
1A007B	LAB STORAGE	3'-0"	7'-0"	1		F	WD	1	HM	--	45 min	01	B1A2.1	A1A2.1	CARD READER
1A041D	BREAK ROOM	3'-0"	7'-0"	1		F	WD	1	HM	--	--	--	B1A2.1	A1A2.1	RE-INSTALL EXISTING HARDWARE, CLOSER, PROVIDE WALL STOP
1A041F	SHARED OFFICE	3'-0"	7'-0"	1		F	WD	1	HM	--	--	02	B1A2.1	A1A2.1	

### DOOR ELEVATIONS: FRAME ELEVATIONS:



#### DOOR & FRAME MAT'L LEGEND

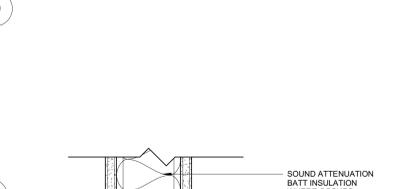
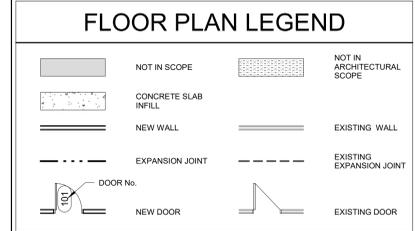
HM	HOLLOW METAL
WD	SOLID CORE WOOD

### GENERAL PLAN NOTES

- REFER TO GENERAL NOTES, LEGENDS & SYMBOLS SHEET FOR ADDITIONAL GENERAL NOTES AS APPLICABLE.
- 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.
- ALL EXISTING CONSTRUCTION TO REMAIN SHALL BE PATCHED, REPAIRED, AND PREPARED AS REQUIRED FOR NEW FINISH APPLICATION.

### KEYNOTES - FLOOR PLAN

NUMBER	COMMENTS
1	NEW FLOOR DRAIN, RE: MEP. PATCH AND REPAIR FLOORING AS REQUIRED.
2	RELOCATED POWER POLES, FINAL COUNTS AND LOCATIONS TO BE COORDINATED W/ OWNER. RE: MEP & SIEMENS DRAWINGS FOR UTILITY REQUIREMENTS. PATCH AND REPAIR FLOOR AND REPLACE CEILING TILES AS REQUIRED.
3	NEW EQUIPMENT AND AUTOMATION LINE TO BE INSTALLED. RE: VENDOR DRAWINGS
4	RELOCATED FURNITURE & EQUIPMENT. COORDINATE RELOCATION WITH OWNER & FURNITURE VENDOR.
5	EXISTING CASEWORK, PLUMBING, & EQUIPMENT TO REMAIN.
6	NEW LOCKERS BY JOHN A. MARSHALL.
7	NEW WATER SYSTEM AND EQUIPMENT TO BE INSTALLED. RE: MEP & VENDOR DRAWINGS.
8	NEW WORK TABLES AND HALF HEIGHT FURNITURE PANEL. VFVI BY JOHN A. MARSHALL. FIELD VERIFY AND COORDINATE FINAL SIZES W/ OWNER.
9	NOT USED.
10	NEW COAT HOOKS BY JOHN A. MARSHALL FOR RELOCATED LAB COATS. BLOCKING AS REQUIRED.
11	NOT USED.
12	NEW WORKSURFACE & WALL MOUNTED FLURPER BINS. VFVI BY JOHN A. MARSHALL. FIELD VERIFY & COORDINATE FINAL LAYOUT WITH OWNER.
13	NEW POWER POLE DOWN TO HALF HEIGHT FURNITURE PANEL. COORDINATE LOCATION W/ OWNER & FURNITURE VENDOR. RE: MEP
14	RELOCATED TV AND BRACKET. CONTRACTOR TO PROVIDE IN WALL BLOCKING POWER & DATA AS REQUIRED. RE: MEP
15	RELOCATED COMPUTER, MONITOR, AND ASSOCIATED ACCESSORIES. POWER & DATA AS REQUIRED. RE: MEP
16	RELOCATED FIRE EXTINGUISHER CABINET.
17	NEW CORNER GUARD. RE: FINISH LEGEND
18	NEW ELECTRICAL PANEL. RE: MEP
19	RELOCATED CPI HOLDER AND UTILITIES. RE: MEP
20	NEW GYP FURRING FOR MEP UTILITIES. RE: MEP
21	EXISTING MONITOR, DE-INSTALL AND COORDINATE RELOCATION W/ OWNER. RE-INSTALL AFTER CONSTRUCTION IS COMPLETE. RE: MEP
22	ATELLICA UPS. RE: MEP & VENDOR INFORMATION
23	ATELLICA TRANSFORMER. RE: MEP & VENDOR INFORMATION
24	ATELLICA DISCONNECT SWITCH. RE: MEP & VENDOR INFORMATION
25	NEW DOOR, MATCH EXISTING RATINGS AS REQUIRED. RE-INSTALL EXISTING HARDWARE. PAINT FRAME. RE: FINISH SCHEDULE



**ACI BOLAND ARCHITECTS**

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Kansas City | St. Louis  
Licensee's Certificate of Authority Number:  
Missouri: #000958

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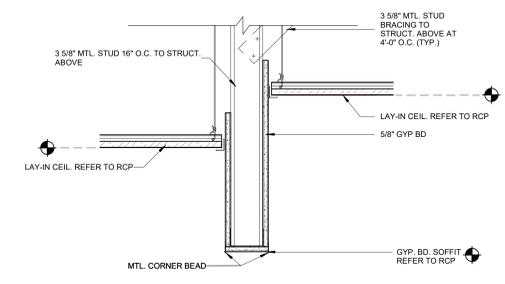
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Revision

**A2.1**

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FIRST FLOOR PLAN



E2 BULKHEAD DETAIL  
1 1/2" = 1'-0"

- ### REFLECTED CEILING NOTES
- THIS PLAN SHALL BE USED TO COORDINATE THE CEILING LAYOUT WITH MECHANICAL AND ELECTRICAL WORK. VERIFY THE EXACT QUANTITY REQUIRED.
  - CONTRACTOR TO REFER TO THE ELECTRICAL PLANS FOR ACTUAL LIGHTING SIZES AND FIXTURE TYPES.
  - REFER TO ARCHITECTURAL FLOOR PLANS FOR MATERIAL LEGEND OF ALL TYPES.
  - ALL CEILINGS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
  - EXISTING MEPPF DEVICES SHOWN ARE BASED ON EXISTING DRAWINGS AND/OR FIELD OBSERVATIONS. THE OWNER/ARCHITECT DOES NOT GUARANTEE THE ACCURACY OF LOCATION OR QUANTITY OF EXISTING DEVICES. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS BETWEEN ARCHITECTURAL & MEP ITEMS PRIOR TO INSTALLATION.
  - CONTRACTOR TO PROVIDE ALL REQUIRED LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO MEET AND COMPLETE THE REQUIREMENTS OF THE NEW CONSTRUCTION.
  - SEE FINISH SCHEDULE FOR FINISH LOCATION AND SPECIFICATIONS.
  - PAINT THE UNDERSIDE OF ALL GYPSUM BOARD CEILINGS, BULKHEADS AND SOFFITS P-5, UNLESS NOTED OTHERWISE.

- ### CEILING LEGEND
- RECESSED CAN LIGHT FIXTURE RE: ELECT
  - ◻ 2X4 RECESSED SURFACE FLUORESCENT LIGHT FIXTURE RE: ELECT
  - ◻ 2X2 RECESSED SURFACE FLUORESCENT LIGHT FIXTURE RE: ELECT
  - ▨ GYP BOARD CEILING - PAINTED W/ CONTROL JOINTS PER SPECS
  - ▨ 2X2X4 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	EXTEND NEW CEILING GRID TO ALIGN WITH EXISTING. PROVIDE NEW CEILING TILES TO MATCH EXISTING.
2	EXISTING CEILING, LIGHTS, DIFFUSERS, ETC. TO REMAIN. RE: MEP.
3	EXISTING LIGHT TO BE RELOCATED IN NEW EXTENDED CEILING GRID. RE: MEP.
4	RELOCATED DIFFUSER IN EXTENDED CEILING GRID. RE: MEP.
5	NEW POWER POLE LOCATIONS. COORDINATE FINAL LOCATION WITH EQUIPMENT VENDOR DRAWINGS AND MEP. RE: VENDOR DRAWINGS FOR UTILITY REQUIREMENTS AT EACH POWER POLE LOCATION. CUT & REPLACE CEILING TILES AS REQUIRED.
6	EXISTING TUBE LINE (ABOVE CEILING) AND TRANSFER STATION (ABOVE CEILING) TO REMAIN.
7	NEW 2X2 CEILING GRID & TILES. RE: MEP & FINISH SCHEDULE FOR ADDITIONAL INFORMATION.
8	EXISTING CEILING GRID TO REMAIN. ADD CROSS TEES TO CREATE 2X2 GRID. REPLACE EXISTING CEILING TILES. RE: MEP & FINISH SCHEDULE FOR ADDITIONAL INFORMATION.



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ARCHITECTS

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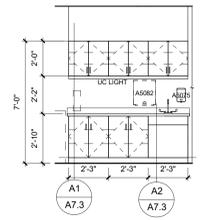
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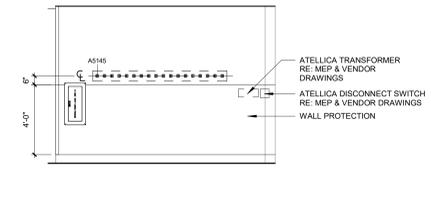
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A3.1  
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FIRST FLOOR REFLECTED CEILING  
PLAN

**E6 LAB - WEST**  
1/4" = 1'-0"



**E5 LAB - EAST**  
1/4" = 1'-0"



### INTERIOR FINISH LEGEND

MARK	ITEM	MANUFACTURER	MODEL/PATTERN	COLOR	SIZE	REMARKS
FLOOR						
CPT-2	CARPET	MANNINGTON	MOS60	SOBEL 143333	24"x24"	INSTALLATION: MONOLITHIC
LVT-1	LUXURY VINYL TILE	MANNINGTON	AMTICO WOOD	REGENCY WALNUT AROW8200	4'-12"x36"	STRAIGHT EDGE ONLY; INSTALLATION: RANDOM
LVT-2	LUXURY VINYL TILE	MANNINGTON	AMTICO STONE	CORINTHIAN MARBLE AROSTV13	18"x18"	STRAIGHT EDGE ONLY; INSTALLATION: ASHLAR
BASE						
RWB-2	RESILIENT BASE	ROPPE	PINNACLE	#110 BROWN	4" COVE	
WALL						
P-1	PAINT - EGGSHELL FINISH	SHERWIN WILLIAMS		SW7036 ACCESSIBLE BEIGE	-	FIELD PAINT
P-3	PAINT - EGGSHELL FINISH	SHERWIN WILLIAMS		SW7660 EARL GRAY	-	ACCENT PAINT
P-4	PAINT - SEMI-GLOSS FINISH	SHERWIN WILLIAMS		SW7559 TRO HUT	-	HOLLOW METAL DOOR FRAME PAINT
P-5	PAINT - EGGSHELL FINISH	SHERWIN WILLIAMS		SW7037 CEILING BRIGHT WHITE	-	CEILING PAINT
P-8	PAINT - EGGSHELL FINISH	SHERWIN WILLIAMS		SW7821 SILVERMIST	-	ACCENT PAINT
CASEWORK						
CRW-1	CHEMICAL RESISTANT WORKSURFACE	DURCON INC.	SOLICORE	DURCON GRAY	1" THICK	
MT-1	METAL CABINETS	MOTT MANUFACTURER	#601006	WARM GRAY	-	COLOR SHALL MATCH IF USING OTHER MANUFACTURER
MISC						
CG-1	CORNER GUARD	CIS ACRYLYN	SM-350AN ACRYLYN-4000	#858 PUMICE	3" WING	ABOVE BASE TO CEILING. INCLUDE ALL TRIM AND ACCESSORIES.
INT.	INTERIOR DOOR	V.T. INDUSTRIES	HIGH PRESSURE DECORATIVE LAMINATE	WILSONART WALNUT HEIGHTS #7996K-12	-	3MM PVC EDGES, LAMINATED TOP AND BOTTOM. REFER TO DOOR SCHEDULE FOR ADDITIONAL INFORMATION
WP-2	WALL PROTECTION	CIS ACRYLYN	ACRYLYN 4000	#858 PUMICE	48" THICK 4X10 SHEETS	48" ABOVE BASE. INCLUDE ALL TRIM AND ACCESSORIES.
CEILING						
ACT-1	ACOUSTIC CEILING TILE	USG	RADAR CLIMAPLUS #2210	WHITE	24"x24"	ISO EDGE. DOORN DX TEE 15/16" GRID SYSTEM

### ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALLS				CASEWORK				NOTES	
				NORTH	EAST	SOUTH	WEST	BASE CABINET	COUNTERTOPS	SINK	UPPER CABINETS		CEILING
1A040R	LAB STORAGE	LVT-2	RWB-2	P-1/WP-2	P-1/WP-2	P-1/WP-2	P-1/WP-2	-	-	-	-	-	ACT-1
1A041D	BREAK ROOM	LVT-1	RWB-2	P-1	P-3 ACCENT	P-1	P-1	-	-	-	-	-	ACT-1
1A041E	SUPERVISOR'S OFFICE	CPT-2	RWB-2	P-1	P-8 ACCENT	P-1	P-1	-	-	-	-	-	ACT-1
1A041F	SHARED OFFICE	CPT-2	RWB-2	P-8 ACCENT	P-1	P-1	P-1	-	-	-	-	-	ACT-1
1A041M	LAB	ETR	ETR	ETRWP-2	ETRWP-2	ETR	ETRWP-2	MT-1	CRW-1	SSST	MT-1	ETR	1, 2

- ### ROOM FINISH SCHEDULE NOTES
- CEILING TO BE EXISTING TO REMAIN. REPLACE DAMAGED CEILING TILES AS REQUIRED.
  - WHERE EXISTING CEILING GRID IS EXTENDED, NEW CEILING TILES TO MATCH EXISTING 2X4 TILES.

- ### GENERAL FINISH NOTES
- SUBMIT SAMPLES OF ALL FINISHES TO ARCHITECT FOR REVIEW PRIOR TO THE ORDERING OF MATERIAL.
  - 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.
  - PROVIDE ALL MAINTENANCE MANUALS AND WARRANTY INFORMATION FOR EACH FINISH MATERIAL TO OWNER AT COMPLETION OF THE PROJECT.
  - ALL HOLLOW METAL DOOR FRAMES TO BE PAINTED (P-4) UNLESS NOTED OTHERWISE.
  - PAINT THE UNDERSIDE OF ALL GYPSUM BOARD CEILINGS, BULKHEADS AND SOFFITS (P-5) UNLESS NOTED OTHERWISE.
  - FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE WORK OF FINISH APPLICATIONS.
  - ALL FINISHES SHALL BE INSTALLED AND MAINTAINED PER MANUFACTURER'S RECOMMENDATION AND INDUSTRY STANDARDS.
  - 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 MANUFACTURER'S RECOMMENDATIONS.
  - ALL MATERIAL TO COMPLY WITH FLAME SPREAD CLASSIFICATION EITHER CLASS (1) ONE OR CLASS 4 DEPENDING ON GOVERNING CODE IN EFFECT.
  - SMOKE DEVELOPMENT RATING - 450 FOR ALL FINISHES.
  - RE: MEP FOR ALL SST SINKS.



**A2 01 - FIRST FLOOR FINISH PLAN**  
1/4" = 1'-0"



### FINISH FLOOR PLAN LEGEND

N	E	ROOM FINISH SCHEDULE DIRECTION
W	S	
		FLOOR FINISH DIRECTION

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Samuel K. Beckman - Architect  
License - Missouri EA-2011012130

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**MEP CONSULTANT**  
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RELEASE FOR CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
10/20/2020

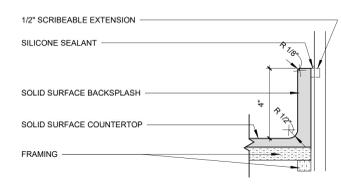
**Saint Luke's**  
EAST HOSPITAL  
**LAB REMODEL**  
100 NE ST LUKES BLVD,  
LEE'S SUMMIT, MO 64086

Date	09.18.2020
Job Number	3-20030
Drawn By	BR
Checked By	AD

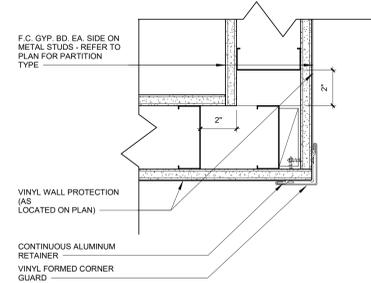
Number	Date	Description
1	10.12.20	ADD 01

**A4.1**

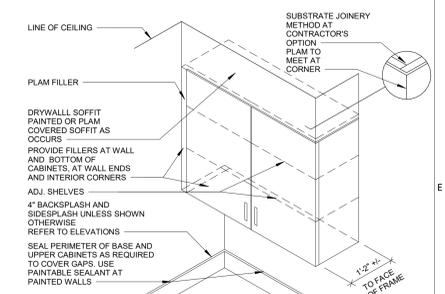
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FIRST FLOOR FINISH PLAN, FINISH SCHEDULE & LEGEND



E2 SECTION DETAIL AT SOLID SURFACE BACKSPLASH 3" = 1'-0"

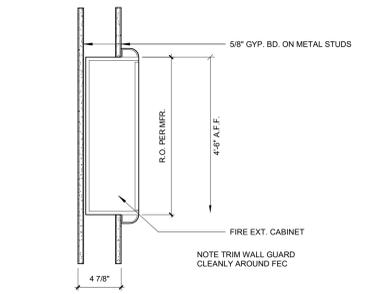


D2 TYPICAL SINGLE VINYL CORNER GUARD 3" = 1'-0"

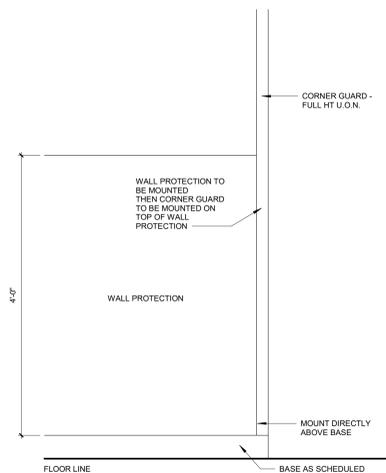


D1 CASEWORK ISOMETRIC 1 1/2" = 1'-0"

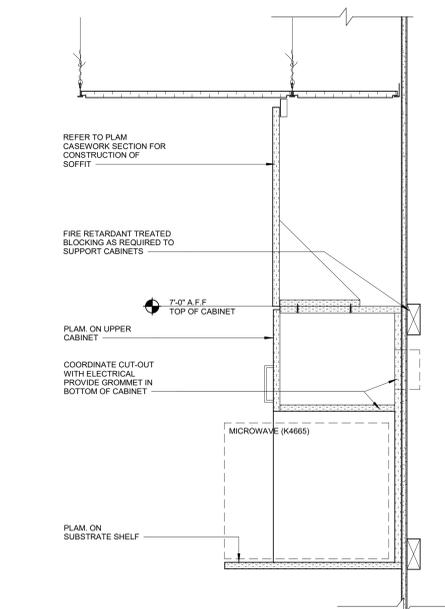
- TYP. CABINET NOTES:**
1. PROVIDE PLAM FILLER WHERE CABINETS BUTT UP TO WALLS.
  2. ALL COUNTERTOPS HAVE A 4" BACKSPLASH (MATERIAL TO MATCH COUNTERTOP) AND OUTSIDE CORNERS HAVE 1 1/2" RADIUS EXCEPT WHERE NOTED OTHERWISE.
  3. CASEWORK MFR. TO SUPPLY (2) - 2" GROMMETS PER KNEESPACE. GROMMETS TO BE INSTALLED IN FIELD AS DIRECTED BY OWNER. COLOR TO BE SELECTED BY ARCHITECT.
  4. PLASTIC LAMINATE COUNTERTOP EDGES SHALL BE 3 MM PLASTIC. COLOR AS SELECTED BY ARCHITECT.



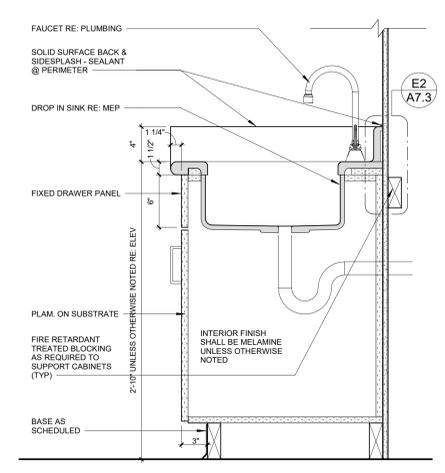
B3 SECTION - F.E.C. NON-RATED WALL CONDITION 1 1/2" = 1'-0"



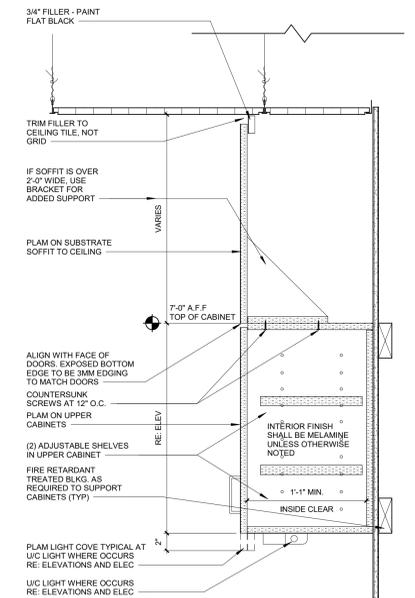
A3 TYP. ELEV. OF WALL PROTECTION/CORNER GUARD 1" = 1'-0"



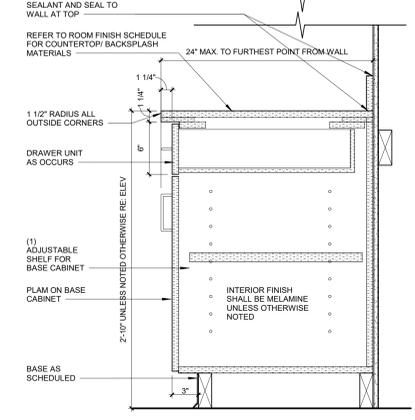
B2 WALL-MOUNTED MICROWAVE SHELF 1 1/2" = 1'-0"



A2 SINK BASE CABINET SECTION 1 1/2" = 1'-0"



A1 CASEWORK SECTION 1 1/2" = 1'-0"



A1 CASEWORK SECTION 1 1/2" = 1'-0"



10/09/13  
 Samuel K. Beckman - Architect  
 License - Missouri EA-2011012130

**ACI BOLAND ARCHITECTS**

ACI/Boland, Inc.  
 Kansas City | St. Louis  
 Licensee's Certificate of Authority Number:  
 Missouri: #000958

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 Phone Number: 816.842.8327  
 Missouri: #00127265

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 10/20/2020

**Saint Luke's EAST HOSPITAL**  
**LAB REMODEL**  
 100 NE ST LUKES BLVD,  
 LEE'S SUMMIT, MO 64086

Date 09.18.2020  
 Job Number 3-20030  
 Drawn By BR  
 Checked By AD

Revision  
 Number Date Description

**A7.3**  
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 INTERIOR DETAILS

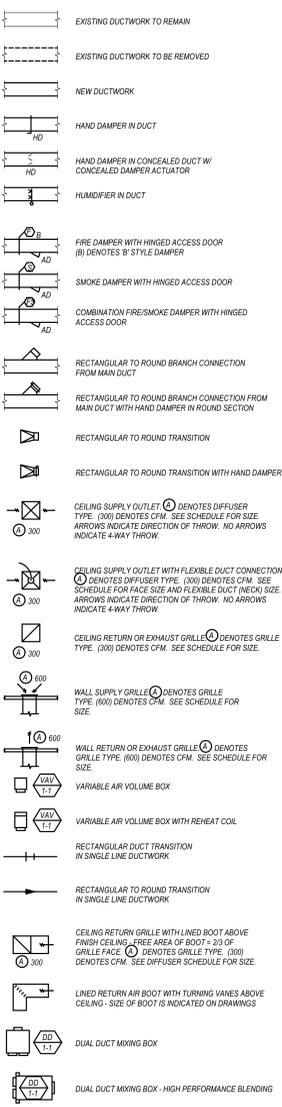
ABBREVIATIONS

Table with 2 columns: ABBREV. and DESCRIPTION. Lists various abbreviations such as AAU, ABAN, ABV, AC, ACC, ACU, AD, etc.

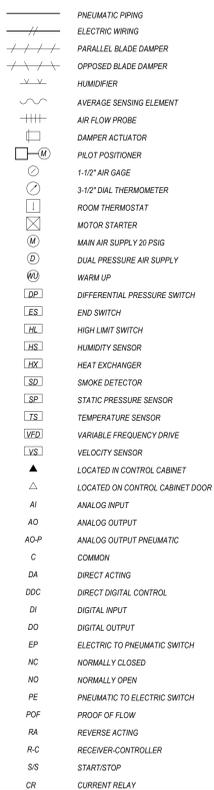
ABBREVIATIONS

Table with 2 columns: ABBREV. and DESCRIPTION. Lists various abbreviations such as ATR, GA, GAL, GALV, GRD, GPM, etc.

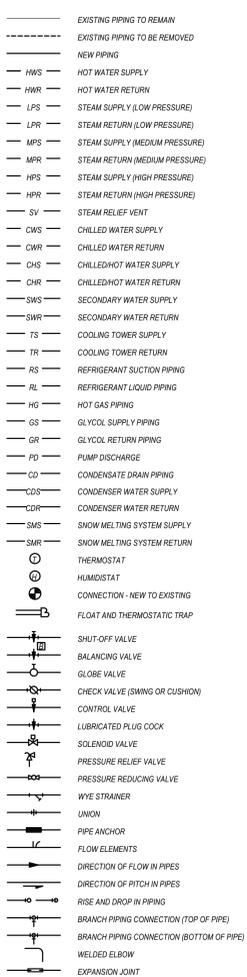
MECHANICAL SHEET METAL SYMBOLS



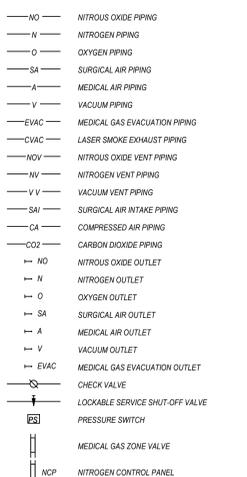
TEMPERATURE CONTROLS SYMBOLS



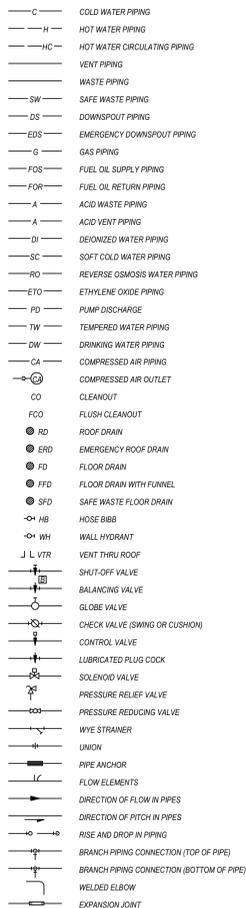
MECHANICAL PIPING SYMBOLS



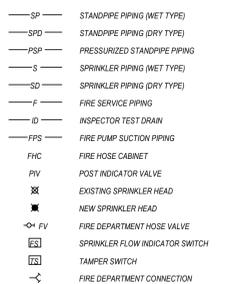
MEDICAL GAS SYMBOLS



PLUMBING SYMBOLS



FIRE PROTECTION SYMBOLS



PROJECT MECHANICAL GENERAL NOTES

- Notes regarding mechanical work, including location of openings, equipment installation, ductwork, and coordination with other trades.

PROJECT PLUMBING GENERAL NOTES

- Notes regarding plumbing work, including pipe materials, fittings, and coordination with other trades.

PROJECT FIRE PROTECTION GENERAL NOTES

- Notes regarding fire protection work, including sprinkler systems, standpipes, and coordination with other trades.

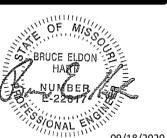
Professional seal for Bruce E. Hart, Missouri Professional Engineer, No. 22817. Includes logo for ACI Boland Architects.

ACI Boland Architects, 1710 Wyandotte, Kansas City, MO 64108, T: 816.763.9600

Saint Luke's East Hospital Lab Remodel logo and address: 100 NE ST LUKES BLVD, LEE'S SUMMIT, MO 64086

Date: 09-18-2020, Job Number: 3-20030, Drawn By: MJL, Checked By: BEH

Revision table with columns: Number, Date, Description



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Missouri #E-22817

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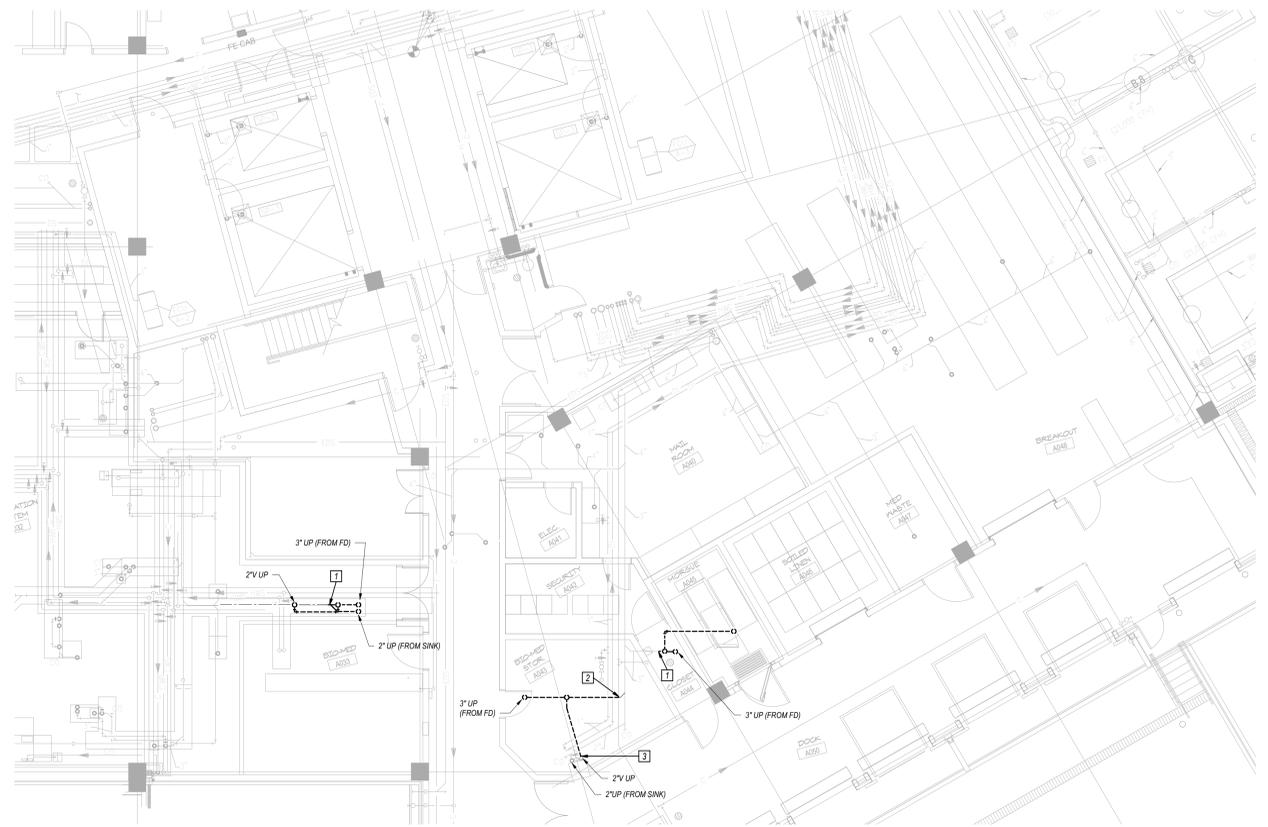
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**GENERAL NOTES**

1 REFER TO GENERAL NOTES ON SHEET PM000 AND SHEET DP2.1.

**KEYED NOTES**

- 1 CUT 3" WASTE PIPING AND REMOVE UPSTREAM PIPING THAT SERVED SINK AND/OR FLOOR DRAIN ABOVE, INCLUDING ASSOCIATED VENT PIPING UP THRU FIRST FLOOR SLAB. PATCH SLAB AS SPECIFIED AND PROTECT REMAINING 2" WASTE PIPING FOR NEW CONNECTION. RE: SHEET P2.0.
- 2 CUT AND CAP 3" WASTE PIPING THAT SERVED FLOOR DRAIN ABOVE.
- 3 CUT VENT PIPING BELOW SLAB AND REMOVE VENT PIPING BELOW SLAB ASSOCIATED WITH THE FLOOR DRAIN THAT IS BEING REMOVED. PROTECT VENT PIPING RISER FOR A NEW CONNECTION JUST BELOW THE SLAB. RE: SHEET P2.0.



**1** BASEMENT PLUMBING DEMOLITION PLAN  
1/8" = 1'-0"



RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLAN  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
10/20/2020

**Saint Luke's**  
EAST HOSPITAL  
LAB REMODEL  
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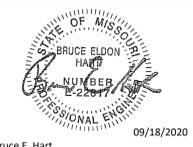
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**DP2.0**

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PLUMBING BASEMENT DEMOLITION  
PLAN

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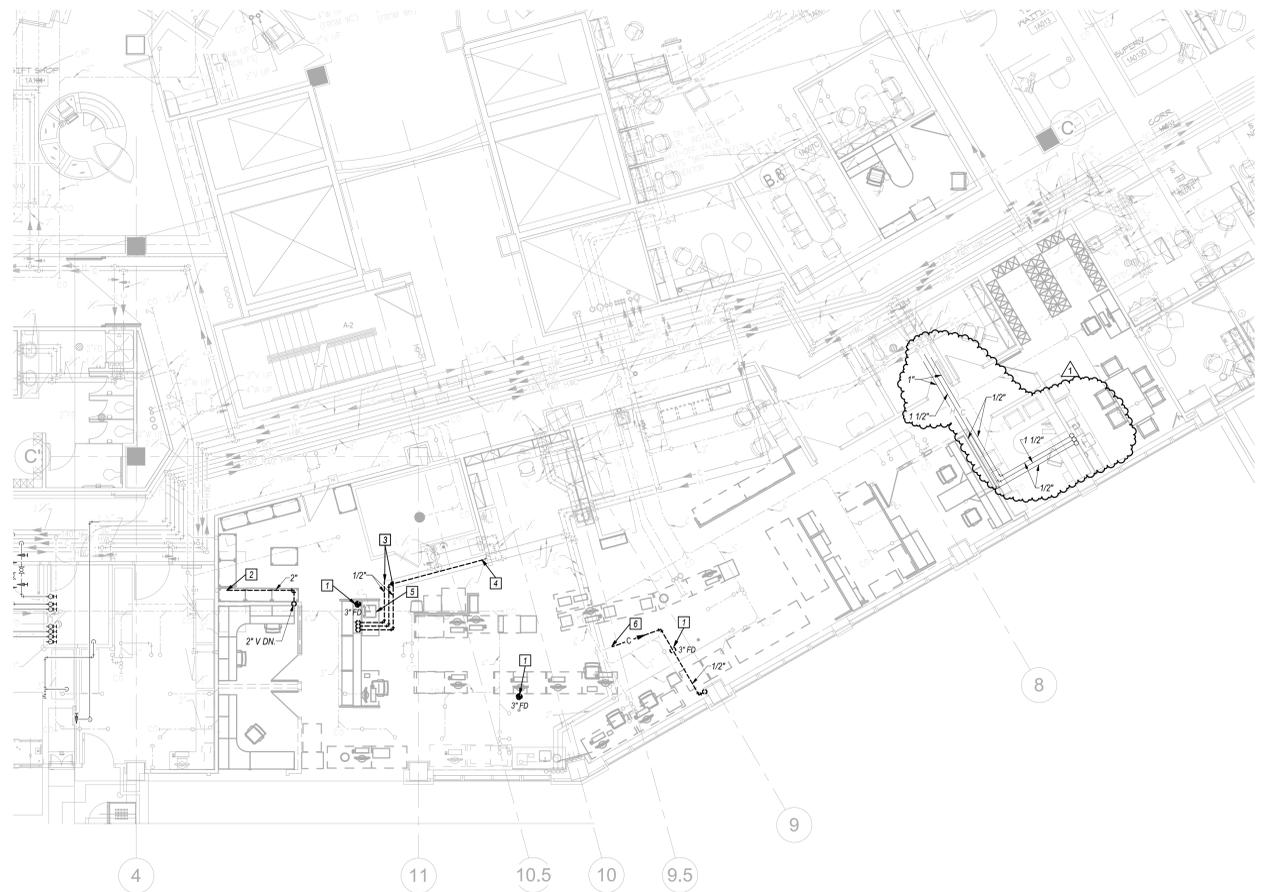
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**GENERAL NOTES**

- SEE SHEET PM001 FOR GENERAL NOTES AND SYMBOLS LISTS.
- THIS PLAN SHOWS GENERAL INTENT OF DEMOLITION WORK. CONTRACTOR SHALL COORDINATE DEMOLITION WITH OWNER. THIS IS A 24-HOUR FACILITY. THEREFORE, WORK MAY NEED TO BE COMPLETED AFTER NORMAL WORKING HOURS OR DURING WEEKENDS AT NO EXTRA COST TO THE OWNER. ALL SHUTDOWNS SHALL BE COORDINATED AND SCHEDULED WITH OWNER A MINIMUM OF TWO WEEKS BEFORE BEGINNING WORK.
- WORK SHOWN LIGHTLY IS EXISTING TO REMAIN. WORK SHOWN DASHED BOLD IS WORK TO BE REMOVED.
- REMOVE PLUMBING FIXTURES, PIPING, DRAINS, EQUIPMENT, ETC. AS SHOWN. CAP PIPING BELOW FLOOR, BEHIND WALLS AND PATCH OPENINGS AS REQUIRED. PIPING NOT REQUIRED TO REMAIN TO BE REMOVED TO MAINS AND CAPPED. PATCH FLOOR OPENINGS NOT REQUIRED TO REMAIN TO MATCH EXISTING GRADE.
- REMOVE SPRINKLER HEADS ASSOCIATED BRANCH PIPING AS REQUIRED IN REMODEL AREAS. RELOCATE SPRINKLER MAINS AS REQUIRED FOR NEW WORK.
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO DEMOLITION.
- NOT ALL DEMOLITION WORK MAY BE SHOWN. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL ITEMS NOT REQUIRED TO REMAIN.
- OWNER SHALL HAVE FIRST RIGHT OF REFUSAL AN ALL EQUIPMENT REMOVED.

**KEYED NOTES**

- DISCONNECT AND REMOVE FLOOR DRAIN. PATCH SLAB AS SPECIFIED.
- CUT 2" V AND REMOVE PIPING DOWN THRU SLAB THAT SERVED NEARBY FLOOR DRAIN. PATCH SLAB AS SPECIFIED. PROTECT REMAINING PIPING FOR NEW CONNECTION. RE: SHEET P2.1.
- CUT 1/2" C AND 1/2" W AND REMOVE DOWNSIDE PIPING TO SINK. PROTECT REMAINING PIPING FOR NEW CONNECTIONS. RE: SHEET P2.1.
- CUT AND CAP 1 1/2" V AND REMOVE PIPING THAT SERVED SINK.
- DISCONNECT AND REMOVE SINK AND ACCESSORIES. REMOVE WASTE PIPING DOWN THRU SLAB AND PATCH SLAB AS SPECIFIED.
- CUT AND CAP AND REMOVE DOMESTIC WATER PIPING NOT REQUIRED TO REMAIN.
- NOT USED.
- NOT USED.



**1 FIRST FLOOR PLUMBING DEMOLITION PLAN**  
1/8" = 1'-0"



RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLAN  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
10/20/2020

**Saint Luke's**  
EAST HOSPITAL

LAB REMODEL

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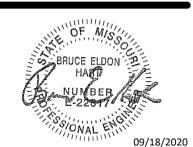
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Revision		
Number	Date	Description
1	10.12.20	ADDENDUM #1

**DP2.1**

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PLUMBING FIRST FLOOR  
DEMOLITION PLAN

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Bruce E. Hart  
Missouri #E-22817

# ACI BOLAND ARCHITECTS

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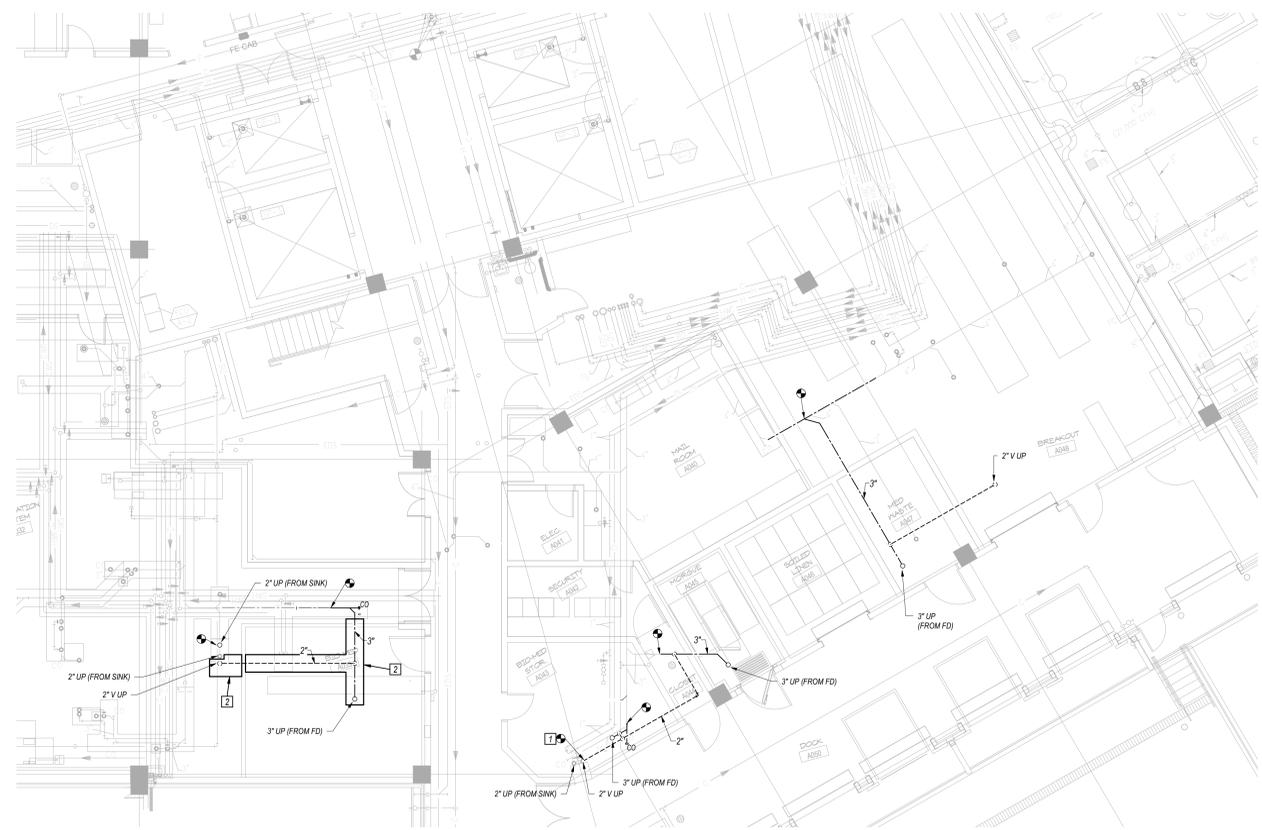
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### GENERAL NOTES

- 1 REFER TO GENERAL NOTES ON SHEET PM000 AND SHEET P2.1.

### KEYED NOTES

- 1 CONNECT NEW 2" V PIPING TO EXISTING 2" V RISER JUST BELOW SLAB, WHERE IT WAS CUT DURING DEMOLITION.
- 2 SHEET METAL DRIP PAN BELOW NEW PIPING. PAN SHALL BE 24" WIDE BY 3" DEEP. CONNECT NEW SEGMENTS OF DRIP PAN TO EXISTING DRIP PANS AS REQUIRED, AND SLOPE THE NEW SEGMENTS TO DRAIN INTO THE EXISTING DRIP PANS.



1 BASEMENT PLUMBING PLAN  
1/8" = 1'-0"



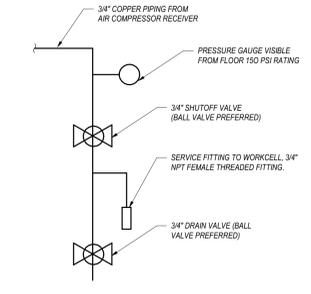
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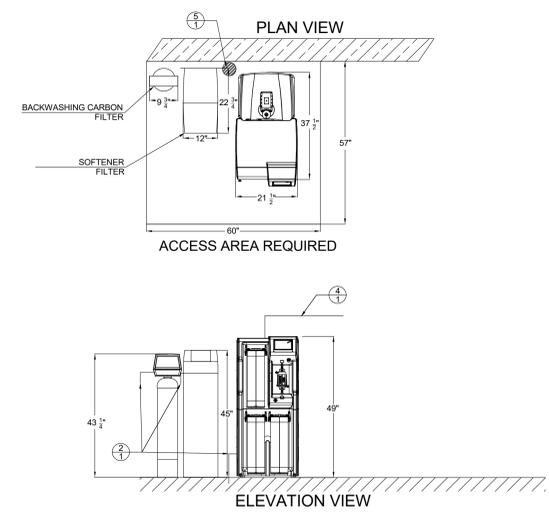
Date 09-18-2020  
Job Number 3-20030  
Drawn By MJL  
Checked By BEH

Number	Date	Description

P2.0



**3** **DETAIL OF COMPRESSED AIR PIPING AT SYSTEM CONNECTION POINT**  
N.T.S.



**4** **DETAIL OF MILLEPORE WATER PURIFICATION SYSTEM**  
N.T.S.

INTERFACE CALL-OUT TABLE		
TAG	DESCRIPTION	LOCATION
1-1	Feed water source - provide 3/4" npt male connection with isolation ball valve. 30 LPM at 85 - 95 psi.	On wall, within 5 feet of system. If under a sink, provide 2" Ø hole in counter or casework for tubing for connection to system by MilliporeSigma.
2-1	Reject from make-up system and pre-treatment.	MilliporeSigma will run tubing from system to floor drain provided by contractor.
3-1	Not used.	
4-1	Distribution recirculating loop. MilliporeSigma will provide 8' install MAX 60 feet of 16 mm OD (10 mm ID) flexible tubing to feed analyzer(s).	Surface mounted in accessible location.
5-1	Floor drain or stand pipe by others, capable of handling 30 LPM flow.	MilliporeSigma will run tubing from system to floor drain provided by contractor.

**SPRINKLER NOTE**  
SPRINKLER CONTRACTOR SHALL DISCONNECT, REMOVE, AND RELOCATE ANY AND/OR ALL SPRINKLER PIPING AND SPRINKLER HEADS AS REQUIRED BY MECHANICAL, ELECTRICAL, AND GENERAL CONTRACTORS. AFTER ALL LARGER DUCTWORK AND PIPING HAVE BEEN INSTALLED, SPRINKLER CONTRACTOR SHALL REINSTALL SPRINKLER PIPING AND HEADS REQUIRED TO SPRINKLER REMODELED SPACE. SPRINKLER CONTRACTOR SHALL ALSO INSTALL NEW SPRINKLER HEADS AND/OR PIPING AS REQUIRED BY REMODEL OF SPACE. ALL SPRINKLER HEADS SHALL BE CONCEALED TYPE.

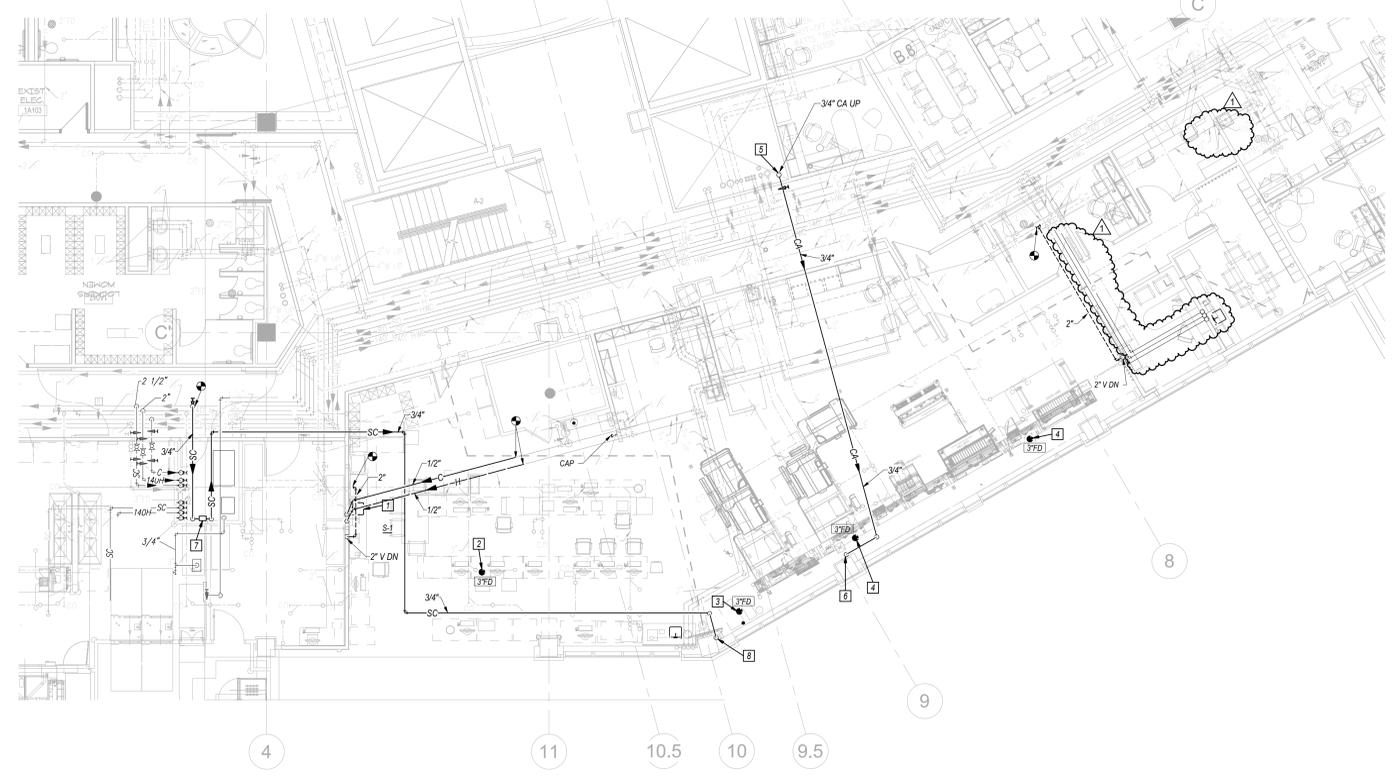
**GENERAL NOTES**

- SEE SHEET PM000 FOR GENERAL NOTES AND SYMBOLS LISTS.
- WORK SHOWN LIGHTLY IS EXISTING TO REMAIN. ALL NEW WORK SHOWN BOLD AND DARK.
- THIS IS A 24-HOUR FACILITY. THEREFORE, WORK MAY NEED TO BE COMPLETED AFTER NORMAL WORKING HOURS OR DURING WEEKENDS AT NO EXTRA COST TO THE OWNER. ALL SHUTDOWNS SHALL BE COORDINATED AND SCHEDULED WITH OWNER A MINIMUM OF TWO WEEKS BEFORE BEGINNING WORK.
- FIELD VERIFY ALL EXISTING PIPE SIZES AND LOCATIONS PRIOR TO STARTING WORK.
- CAREFULLY COORDINATE NEW WORK WITH EXISTING FIELD CONDITIONS AND OTHER TRADES.
- BEFORE CORE DRILLING ANY HOLES, LOCATE REBAR IN THE SLAB BY X-RAY OR WITH R-METER. IF REBAR IS ENCOUNTERED WITHIN THE PROPOSED LOCATION OF THE HOLE THEN EITHER RELOCATE THE HOLE TO MISS REBAR OR IF THE HOLE CANNOT BE RELOCATED, CONTACT STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO COREING OR DRILLING. DO NOT CORE ANY HOLES THROUGH THE BEAM WITHOUT APPROVAL OF STRUCTURAL ENGINEER.
- ALL NEW WASTE PIPING SERVING THE LAB AREA (SERVING SINKS AND FLOOR DRAINS, EXCEPT THE BREAK ROOM SINK) SHALL BE CONSIDERED "CHEMICAL WASTE PIPING". CHEMICAL WASTE PIPING AND FITTINGS SHALL BE DRIVEN "BLUE LINE" FIRE RETARDANT POLYPROPYLENE OR APPROVED EQUAL. NEITHER CAST IRON NOR PVC IS ACCEPTABLE. ADDITIONALLY, VENT PIPING ASSOCIATED WITH THE CHEMICAL WASTE DRAINS AND LOCATED BELOW THE FIRST FLOOR SLAB SHALL BE THE SAME MATERIAL AS THE CHEMICAL WASTE PIPING.

**KEYED NOTES**

- 1/2" C, 1/2" H AND 1 1/2" V DN IN WALL TO NEW SINK. EXTEND 2" WASTE FROM FIXTURE DOWN IN WALL AND CORE DRILL DOWN THRU SLAB.
- COORDINATE EXACT LOCATION OF NEW FLOOR DRAIN WITH OWNER PRIOR TO INSTALLATION.
- COORDINATE EXACT LOCATION OF NEW FLOOR DRAIN WITH OWNER'S WATER PURIFICATION VENDOR (MILLEPORE SIGMA) PRIOR TO INSTALLATION.
- COORDINATE EXACT LOCATION OF NEW FLOOR DRAIN WITH OWNER'S LAB AUTOMATION VENDOR (SIEMENS) PRIOR TO INSTALLATION.
- COORDINATE EXACT LOCATION OF NEW PIPING IN EXISTING UTILITY CHASE WITH OWNER/MANAGER OF FACILITY PRIOR TO INSTALLATION. NEW PIPING SHALL NOT BLOCK ACCESS TO EXISTING VALVES OR ANY OTHER ITEMS REQUIRING ACCESS. ROUTE PIPING FROM FIRST FLOOR UP THROUGH SECOND FLOOR LEVEL, NOT SHOWN TO THIRD FLOOR LEVEL.
- 3/4" CA DOWN TO LAB AUTOMATION SYSTEM CONNECTION POINT. RE DETAIL ON THIS SHEET.
- 3/4" SOFT COLD WATER DOWN TO NEW 3/4" REDUCED-PRESSURE BACKFLOW PREVENTER MOUNTED IN ACCESSIBLE LOCATION ON WALL. EXTEND DRAIN PIPING FROM BACKFLOW PREVENTER AND TURN DOWN OVER EXISTING FLOOR DRAIN IN THIS ROOM.
- 3/4" SC DOWN TO WATER PURIFICATION SYSTEM CONNECTION POINT. RE DETAIL ON THIS SHEET.
- NOT USED.

PLUMBING FIXTURE SCHEDULE								
MARK	FIXTURE	DESCRIPTION	ACCESSORIES	MANFR AND MODEL NO.	WASTE	VENT	COLD	HOT
OM	NOT USED							
S-1	LABORATORY CRITICAL AREA SINK	17" X 21" 18 GAUGE NO. 302 STAINLESS STEEL SINGLE COMPARTMENT SINK WITH COVERED CORNERS. SELF-FRIMED, L4-6/4" X 1/4" TIN FINISH. UNDERSIDE FULLY SOUND DEADENED.	ELKAY NO. LK-4-C-1/2" BRASS GRID STRAINER AND 1 1/2" C.P. BRASS TAILPIECE. CHICAGO FAUCET NO. 885-517XKCR FAUCET, 4" CENTERS. NO. GND-5-3/8" SPOUT. NO. 517-4" WRIST BLADE HANDLES AND 7/8" FLOW CONTROL DEVICE. DEARBORN NO. 510-17 GAUGE 1-1/2" TP TRAP WITH CLEANOUT AND ESCUTCHEON. DEARBORN NO. 2712 KOW HOT AND COLD WATER COMPRESSION INLET SUPPLIES WITH STOPS.	ELKAY NO. LR-1720	2"	1 1/2"	1/2"	1/2"



**1** **PLUMBING FIRST FLOOR PLAN**  
1/8" = 1'-0"



Bruce E. Hart  
Missouri #E-22817

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RELEASE FOR CONSTRUCTION AS NOTED ON PLAN. NEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 10/20/2020

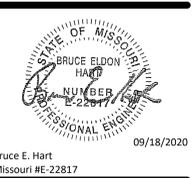
**Saint Luke's**  
EAST HOSPITAL  
LAB REMODEL  
100 NE ST LUKES BLVD, LEE'S SUMMIT, MO 64086

Date 09-18-2020  
Job Number 3-20030  
Drawn By MJL  
Checked By BEH

Revision  
Number 1 Date 10.12.20 Description ADDENDUM #1



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

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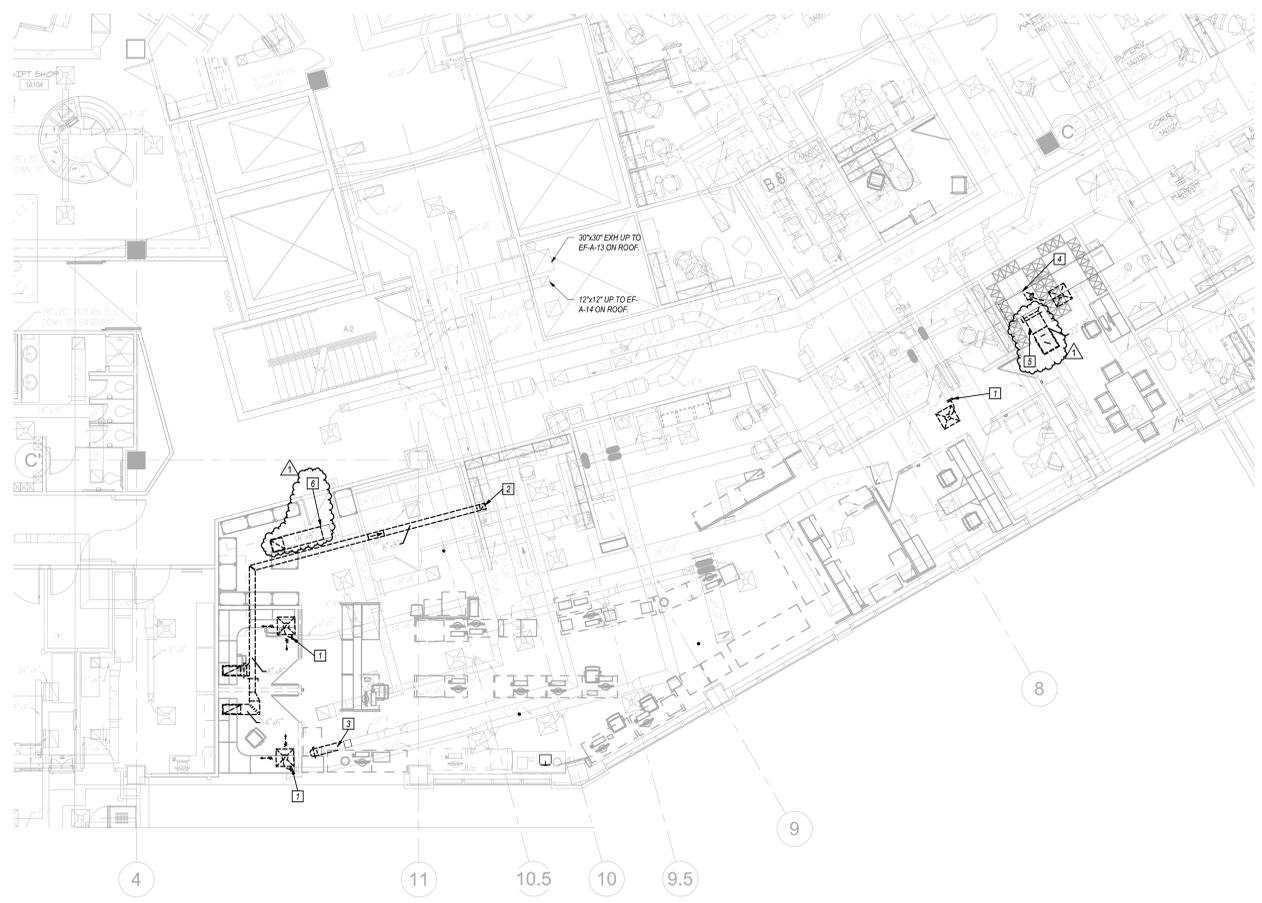
**DM2.1**  
MECHANICAL FIRST FLOOR  
DEMOLITION PLAN

### GENERAL NOTES

- REFER TO GENERAL NOTES ON SHEET PM000.
- PRIOR TO PERFORMING DEMOLITION, TAKE AIRFLOW READINGS AT THE FOLLOWING LOCATIONS AND SUBMIT THOSE READINGS IN A WRITTEN REPORT TO THE ENGINEER:
  - \*FAN SOURCE READINGS AT THE AHU-A-3 SUPPLY FAN DUCT TRVERSE OF THE MEDIUM PRESSURE SUPPLY AIR MAIN DUCT, OUTSIDE AIR DUCT, AND RELIEF AIR DUCT. ALSO PROVIDE TOTAL UNIT STATIC PRESSURE, STATIC PRESSURE ACROSS EACH AHU SECTION/COMPONENT, FAN SPEED, MOTOR NAMEPLATE DATA, VFD FREQUENCY, MOTOR AMP READING, AND A DIAGRAM OF AHU & DUCTWORK SHOWING WHERE READINGS WERE TAKEN.
  - \*FAN SOURCE READINGS AT THE ASSOCIATED RETURN FAN DUCT TRVERSE FOR THE RETURN AIR MAIN DUCT. ALSO PROVIDE STATIC PRESSURE, FAN SPEED, MOTOR NAMEPLATE DATA, VFD FREQUENCY, AND MOTOR AMP READING.
  - \*FAN SOURCE READINGS AT THE EF-A-13 GENERAL LABORATORY EXHAUST FAN (LOCATED ON HIGH ROOF BETWEEN THE ELEVATORS). PROVIDE FAN NAMEPLATE DATA & SERIAL NUMBER, AIRFLOW RATE, STATIC PRESSURE, FAN SPEED, MOTOR NAMEPLATE DATA, VFD FREQUENCY (IF APPLICABLE), AND MOTOR AMP READING.
  - \*FAN SOURCE READINGS AT THE EF-A-14 BIOSAFETY CABINET EXHAUST FAN (LOCATED ON HIGH ROOF BETWEEN THE ELEVATORS). PROVIDE FAN NAMEPLATE DATA & SERIAL NUMBER, AIRFLOW RATE, STATIC PRESSURE, FAN SPEED, MOTOR NAMEPLATE DATA, VFD FREQUENCY (IF APPLICABLE), AND MOTOR AMP READING.
  - \*GRILLE, REGISTER, AND DIFFUSER (GRD) READINGS AT ALL EXISTING GRSS SERVING THE ENTIRE LABORATORY AREA, INCLUDING THE OPEN LAB AREA, ASSOCIATED OFFICES, BLOOD BANK AREAS, RECEPTION/BREAK ROOM AND TOILET ROOM. TAKE READINGS AT ALL EXISTING GRSS, WHETHER THEY ARE SHOWN ON THESE PLANS OR NOT.
  - \*BIOSAFETY CABINET (BSC) EXHAUST AIRFLOW READING, FROM THE EXISTING BSC IN THE LAB AREA.
- THIS PLAN SHOWS GENERAL INTENT OF DEMOLITION WORK. CONTRACTOR SHALL COORDINATE DEMOLITION WITH OWNER. THIS IS A 24 HOUR OPERATING FACILITY, SO SOME WORK MAY NEED TO BE COMPLETED AFTER NORMAL WORKING HOURS OR ON WEEKENDS AT NO EXTRA COST TO OWNER. SYSTEM SHUT DOWNS SHALL BE COORDINATED AND SCHEDULED WITH OWNER.
- WORK SHOWN LIGHTLY IS EXISTING TO REMAIN. WORK SHOWN DASHED BOLD IS WORK TO BE REMOVED.
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO DEMOLITION.
- NOT ALL DEMOLITION WORK MAY BE SHOWN. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL ITEMS NOT REQUIRED TO REMAIN.
- DUE TO CONTINUED OPERATION OF EXISTING FACILITY, DEMOLITION MAY HAVE TO BE COMPLETED IN PHASES. COORDINATE PHASING OF WORK WITH OWNER.
- MOST DIFFUSERS AND GRILLES IN PROJECT AREA ARE SHOWN LIGHTLY AS EXISTING TO REMAIN. HOWEVER, WHERE REQUIRED FOR GENERAL CONSTRUCTION OR OTHER WORK ABOVE CEILING, CONTRACTOR SHALL TEMPORARILY DISCONNECT DIFFUSERS/GRILLES AND/OR COVER OPENINGS, THEN CLEAN AND RE-INSTALL IN CEILING GRIDS PRIOR TO OCCUPANCY. PROVIDE NEW FLEXIBLE DUCTS AS REQUIRED.

### KEYED NOTES

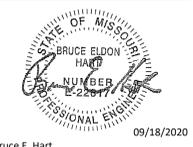
- DISCONNECT AND REMOVE FLEX DUCT SERVING SUPPLY DIFFUSER. CLEAN DIFFUSER AND RE-LOCATE AS INDICATED ON SHEET M2.1. PROTECT REMAINING DUCT FOR NEW CONNECTION. RE: SHEET M2.1.
- DISCONNECT RETURN AIR BRANCH DUCT AND CAP MAIN DUCT AIR TIGHT. REMOVE RETURN AIR BRANCH DUCT AND CAP MAIN DUCT AIR TIGHT. THIS DUCTWORK AND THE GRILLES SHALL REMAIN TO SERVE EXIST. AHU10 AND THE TEMPORARY BREAK ROOM AREA THROUGH THE END OF PHASE C. RE: ARCHITECTURAL PHASING PLAN SHEET AP2.1.
- CUT AND REMOVE EXHAUST DUCT AND REMOVE UPSTREAM DUCTWORK FROM BIOSAFETY CABINET (BSC). PROTECT THE SHEET METAL TRANSITION BELOW THE CEILING FOR RE-LOCATION AND RE-USE AT NEW LOCATION OF BSC. PROTECT REMAINING DUCTWORK FOR NEW CONNECTION. RE: SHEET M2.1.
- DISCONNECT AND REMOVE SUPPLY DIFFUSER AND CAP ASSOCIATED SUPPLY AIR MAIN DUCT.
- DISCONNECT AND REMOVE RETURN AIR DUCT AND GRILLE AS INDICATED. PATCH MAIN DUCT AS REQ'D TO PREPARE FOR NEW CONNECTIONS. RE: SHEET M2.1.
- CUT AND REMOVE EXHAUST DUCT BUT PROTECT THE ASSOCIATED GRILLE. CLEAN THE GRILLE AND RE-LOCATE IT AS REQ'D TO KEEP IT OUT OF THE TEMPORARY BREAK ROOM AREA. RE: ARCHITECTURAL PHASING PLAN SHEET AP2.1 AND SHEET M2.1.



1 FIRST FLOOR MECHANICAL DEMOLITION PLAN  
1/8" = 1'-0"



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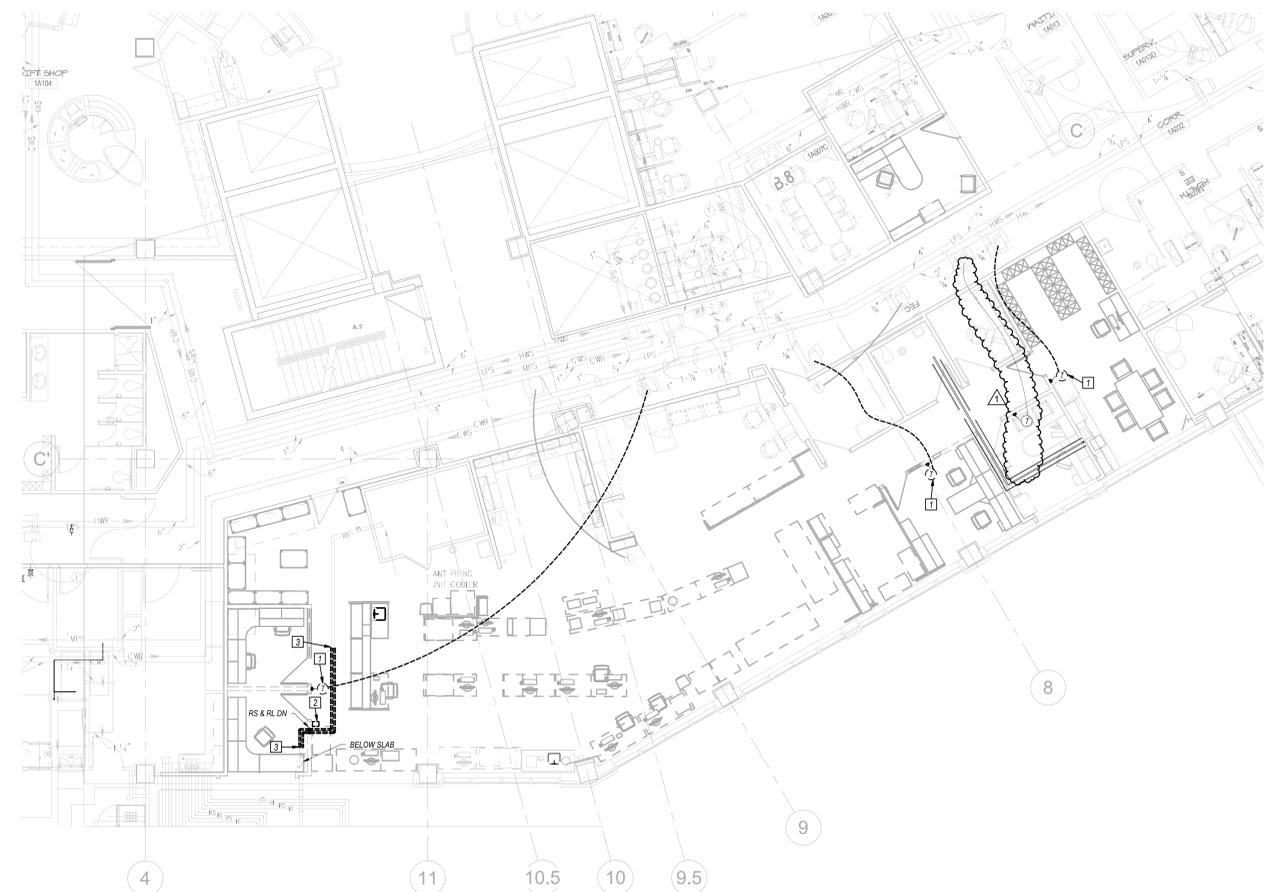
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**GENERAL NOTES**

- SEE SHEET P100V FOR GENERAL NOTES AND SYMBOLS LISTS.
- THIS PLAN SHOWS GENERAL INTENT OF DEMOLITION WORK. CONTRACTOR SHALL COORDINATE DEMOLITION WITH OWNER. THIS IS A 24-HOUR FACILITY. THEREFORE, WORK MAY NEED TO BE COMPLETED AFTER NORMAL WORKING HOURS OR DURING WEEKENDS AT NO EXTRA COST TO THE OWNER. ALL SHUTDOWNS SHALL BE COORDINATED AND SCHEDULED WITH OWNER A MINIMUM OF TWO WEEKS BEFORE BEGINNING WORK.
- WORK SHOWN LIGHTLY IS EXISTING TO REMAIN. WORK SHOWN DASHED BOLD IS WORK TO BE REMOVED.
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO DEMOLITION.
- NOT ALL DEMOLITION WORK MAY BE SHOWN. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL ITEMS NOT REQUIRED TO REMAIN.

**KEYED NOTES**

- DISCONNECT THERMOSTAT AND RELOCATE AS INDICATED ON SHEET MP2.1. REMOVE ANY CONTROL WIRING THAT CANNOT BE RE-USED.
- DISCONNECT FUME HOOD MONITOR FOR BIOLOGICAL SAFETY CABINET AND RELOCATE AS INDICATED ON SHEET MP2.1. REMOVE ANY CONTROL WIRING THAT CANNOT BE RE-USED.
- CUT REFRIGERANT PIPING THAT SERVES LAB COOLER AND REMOVE VERTICAL RISERS IN WALL AND A PORTION OF HORIZONTAL PIPING BOTH ABOVE CEILING AND BELOW SLAB. PATCH SLAB AS SPECIFIED. PROTECT REMAINING PIPING FOR NEW CONNECTIONS. RE: SHEET MP2.1.



MECHANICAL PIPING FIRST FLOOR DEMOLITION  
PLAN  
1/8" = 1'-0"



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10/20/2020

**Saint Luke's**  
EAST HOSPITAL

LAB REMODEL

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**DMP2.1**

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MECHANICAL PIPING FIRST FLOOR  
DEMOLITION PLAN

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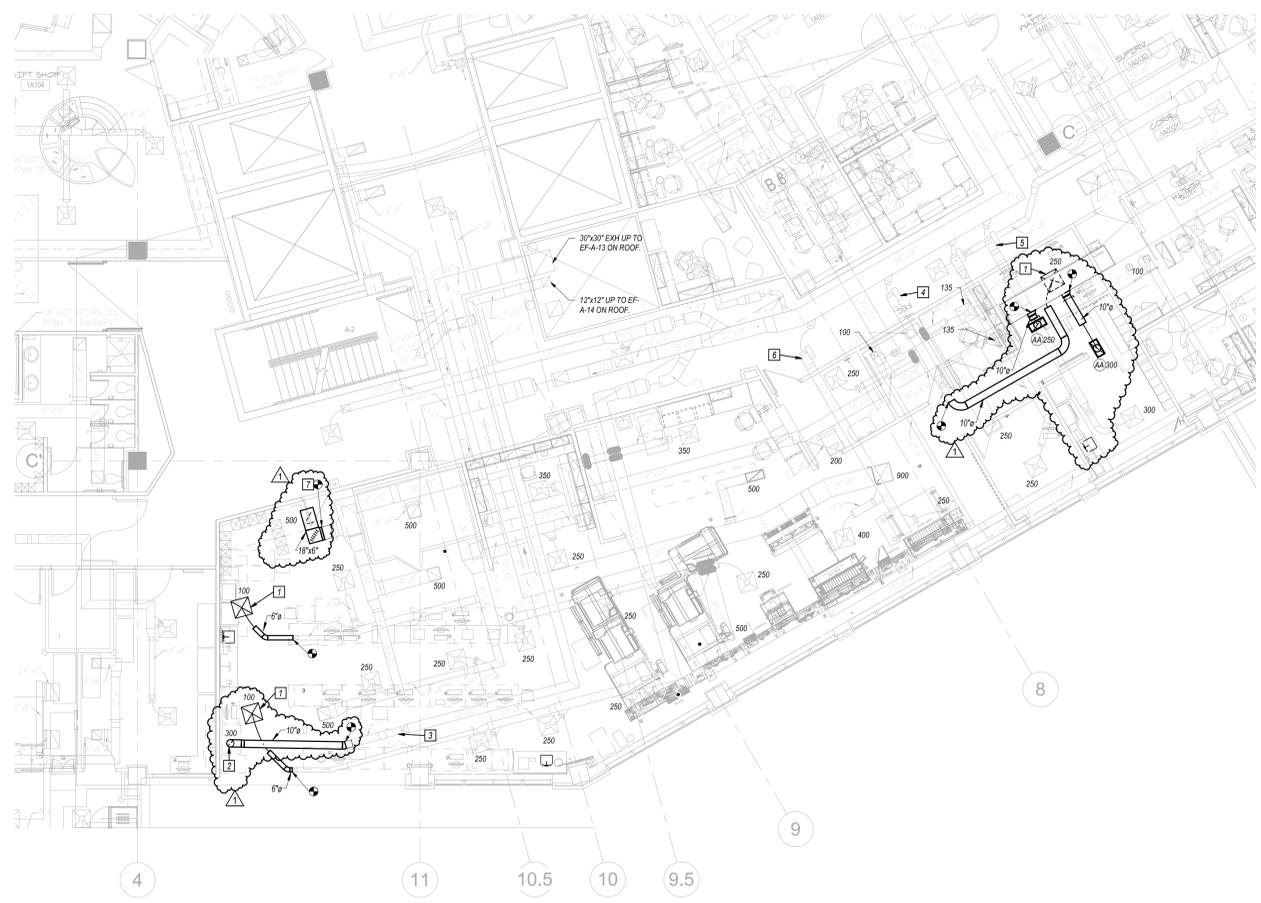
**GENERAL NOTES**

- REFER TO GENERAL NOTES ON SHEET PM000 AND DM1.
- THIS IS A 24 HOUR OPERATING FACILITY. SO SOME WORK MAY NEED TO BE COMPLETED AFTER NORMAL WORKING HOURS OR ON WEEKENDS AT NO EXTRA COST TO OWNER. SYSTEM SHUTDOWNS SHALL BE COORDINATED AND SCHEDULED WITH OWNER.
- DUE TO CONTINUED OPERATION OF EXISTING FACILITY, NEW WORK MAY HAVE TO BE COMPLETED IN PHASES. COORDINATE PHASING OF WORK WITH OWNER.
- WORK SHOWN LIGHTLY IS EXISTING TO REMAIN. WORK SHOWN BOLD IS NEW WORK.
- TEST, ADJUST AND BALANCE EXISTING AIR HANDLING UNIT AHJ-A-3 AND ITS RETURN FAN, AND MAKE ADJUSTMENTS TO THE SUPPLY AIR STATIC PRESSURE SETPOINT AND THE RETURN FAN AIRFLOW OFFSET VALUE AS REQUIRED. COORDINATE WITH ENGINEER AS REQUIRED.
- TEST, ADJUST AND BALANCE EXISTING LABORATORY EXHAUST FAN EF-A-13 TO NEW DESIGN AIRFLOW RATE OF 4100 CFM. PROVIDE AND INSTALL NEW BELTS AND SHEAVES ON FAN AS REQUIRED TO ACHIEVE THE NEW DESIGN AIRFLOW RATE.
- TEST, ADJUST, AND BALANCE ALL SUPPLY DIFFUSERS, RETURN GRILLES, AND EXHAUST GRILLES IN THE LAB AREA AND SUBMIT A WRITTEN REPORT TO THE ENGINEER. THIS INCLUDES SUPPORTING SPACES SUCH AS OFFICES, BLOOD BANK AREAS, RECEPTION/DRAW, BREAKROOM, AND TOILET ROOM. INCLUDE A PLAN IN THE REPORT SHOWING LOCATION OF EACH INDIVIDUAL DIFFUSER/GRILLE AND ITS AIRFLOW READING.
- UPGRADE THE EXISTING BUILDING MANAGEMENT SYSTEM (BMS) WITH NEW GRAPHICS TO SHOW THE NEW FLOOR PLAN AND NEW THERMOSTAT LOCATIONS.

**KEYED NOTES**

- NEW LOCATION FOR DIFFUSER THAT WAS DISCONNECTED DURING DEMOLITION. BALANCE TO AIRFLOW RATE (CFM) INDICATED.
  - TURN HYDRA. RIGID EXHAUST DUCT DOWN THRU CEILING AND RE-INSTALL THE SHEET METAL TRANSITION THAT WAS DISCONNECTED DURING DEMOLITION TO SERVE THE RELOCATED BIOLOGICAL SAFETY CABINET(BSC). INSTALL THE TRANSITION DIRECTLY ABOVE THE TOP OUTLET OF THE BSC. WITH AS SMALL AIR GAP TO MAKE AN INDIRECT CONNECTION.
  - ADJUST EXIST'G EXHAUST AIR VALVE TO AIRFLOW RATE AS REQUIRED FOR THE EXIST'G BSC (300 CFM OR AS REQUIRED BY BSC MANUFACTURER).
  - ADJUST EXIST'G SINGLE DUCT BOX TO NEW MAX. AIRFLOW RATE OF 635 CFM.
  - ADJUST EXIST'G SINGLE DUCT BOX TO NEW MAX. AIRFLOW RATE OF 300 CFM.
- ADJUST EXIST'G SINGLE DUCT BOX TO NEW MAX. AIRFLOW RATE OF 600 CFM. CONNECT TO EXIST'G EXHAUST DUCT AND RE-INSTALL GRILLE THAT WAS DISCONNECTED DURING DEMOLITION. ENSURE THE NEW LOCATION IS OUTSIDE OF THE TEMPORARY BREAK ROOM AREA. RE: ARCHITECTURAL PHASING PLAN SHEET AP2.

DIFFUSER AND GRILLE SCHEDULE									
PLAN MARK	SERVICE	MANUFACTURER	MODEL	STYLE	FACE SIZE (IN.)	NECK SIZE (IN.)	BORDER TYPE	FINISH	REMARKS
AA	RETURN	TITUS	23RL	LOWERED FACE 45 DEGREE DEFLECTION	24x12	22x10	LAY-IN	COLOR AS DIRECTED BY ARCHITECT	



**1 MECHANICAL FIRST FLOOR PLAN**  
1/8" = 1'-0"



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**M2.1**

**GENERAL NOTES**

- SEE SHEET PM000 FOR GENERAL NOTES AND SYMBOLS LISTS
- WORK SHOWN LIGHTLY IS EXISTING TO REMAIN. ALL NEW WORK SHOWN BOLD AND DARK
- THIS IS A 24-HOUR FACILITY. THEREFORE, WORK MAY NEED TO BE COMPLETED AFTER NORMAL WORKING HOURS OR DURING WEEKENDS AT NO EXTRA COST TO THE OWNER. ALL SHUTDOWNS SHALL BE COORDINATED AND SCHEDULED WITH OWNER A MINIMUM OF TWO WEEKS BEFORE BEGINNING WORK.
- FIELD VERIFY ALL EXISTING PIPE SIZES AND LOCATIONS PRIOR TO STARTING WORK.
- CAREFULLY COORDINATE NEW WORK WITH EXISTING FIELD CONDITIONS AND OTHER TRADES.
- BEFORE CORE DRILLING ANY HOLES, LOCATE REBAR IN THE SLAB BY X-RAY OR WITH PNEUMATIC REBAR DETECTOR. IF REBAR IS ENCOUNTERED WITHIN THE PROPOSED LOCATION OF THE HOLE THEN EITHER RELOCATE THE HOLE TO MISS REBAR OR IF THE HOLE CANNOT BE RELOCATED, CONTACT STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO CORING OR DRILLING. DO NOT CORE ANY HOLES THROUGH THE BEAM WITHOUT APPROVAL OF STRUCTURAL ENGINEER.

**KEYED NOTES**

- NEW LOCATION FOR THERMOSTAT THAT WAS DISCONNECTED DURING DEMOLITION. COORDINATE EXACT LOCATION WITH ARCHITECT. PROVIDE AND INSTALL NEW CONTROL WIRING AS REQUIRED. TEST DEVICE FOR ACCURACY AND CALIBRATE OR REPLACE AS REQUIRED.
- NEW LOCATION FOR FUME HOOD MONITOR THAT WAS DISCONNECTED DURING DEMOLITION. COORDINATE EXACT LOCATION WITH ARCHITECT. PROVIDE AND INSTALL NEW CONTROL WIRING AS REQUIRED. TEST DEVICE FOR PROPER OPERATION AND REPAIR OR REPLACE AS REQUIRED. DEVICE SHALL SIGNAL A LOCAL ALARM UPON LOSS OF EXHAUST AIRFLOW AT NEARBY BIOLOGICAL SAFETY CABINET (BSC).
- SIZE NEW REFRIGERANT PIPING PER EQUIPMENT MANUFACTURER RECOMMENDATIONS. INSULATE PIPING USING 1/2" THICK FLEXIBLE ELASTOMERIC PIPE INSULATION WITH VAPOR BARRIER. CHARGE REFRIGERATION SYSTEM WITH NEW REFRIGERANT AS REQUIRED.

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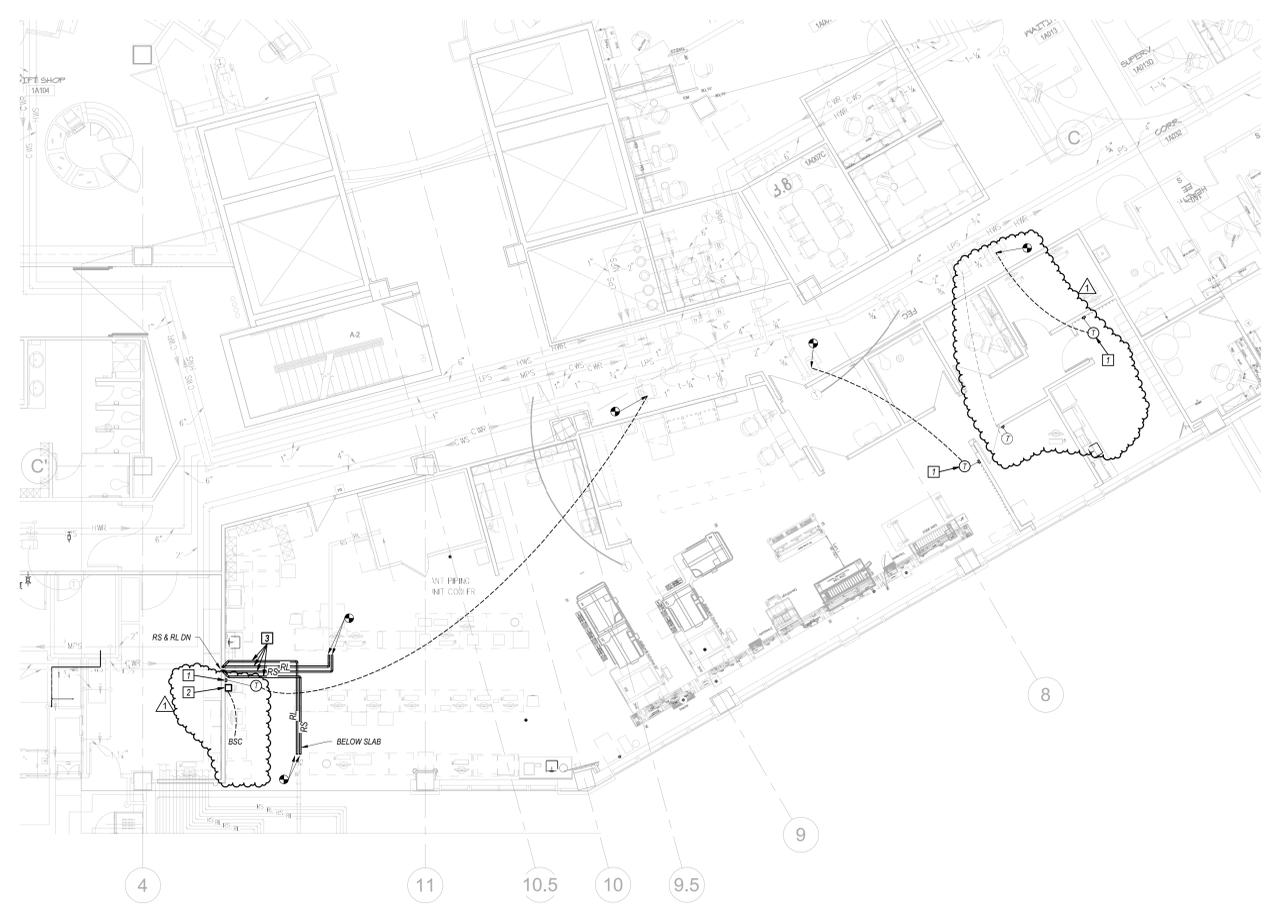
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**MP2.1**

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MECHANICAL PIPING FIRST FLOOR PLAN



**1 FIRST FLOOR MECHANICAL PIPING PLAN**  
1/8" = 1'-0"



## ELECTRICAL SYMBOLS LIST (ALL MAY NOT APPLY)

### POWER SYMBOLS

- HOMERUN TO SOURCE AS NOTED
- CONDUIT IN WALL OR CEILING CONSTRUCTION WITH ONE PHASE WIRE, ONE NEUTRAL WIRE AND ONE GROUND WIRE
- CONDUIT WITH TWO PHASE WIRES, NEUTRAL AND GROUND WIRE
- CONDUIT WITH #10 WIRE THROUGHOUT ENTIRE CIRCUIT
- PARTIAL CIRCUIT, HOMERUN TO SOURCE AS NOTED
- LOW VOLTAGE WIRING
- EXISTING CONDUIT WITH NEW WIRE
- PANELBOARD (DOUBLE LINE INDICATES FRONT OF PANELBOARD)
- DISCONNECTING SWITCH
- COMB. MOTOR STARTER AND DISC. SWITCH
- NF DENOTES NON-FUSED
- VARIABLE FREQUENCY DRIVE
- VARIABLE FREQUENCY DRIVE WITH DISCONNECTING MEANS
- TEMPERATURE CONTROL PANEL
- MOTOR CONNECTION
- MECHANICAL VAV BOX
- MECHANICAL MIXING BOX
- TRANSFORMER
- SINGLE RECEPTACLE
- DUPLEX CONVENIENCE RECEPTACLE
- FOURPLEX CONVENIENCE RECEPTACLE
- HEAVY DUTY OUTLET - WITH NEMA CONFIGURATION
- CONVENIENCE RECEPTACLE - TOP HALF SWITCHED
- GROUND FAULT CIRCUIT INTERRUPTER
- ISOLATED GROUND RECEPTACLE
- CONVENIENCE RECEPTACLE - MOUNTED HORIZONTALLY
- NUMBER INDICATES MOUNTING HEIGHT OF DEVICE CENTER LINE ABOVE FLOOR IF OTHER THAN SPECIFIED HEIGHT
- ELECTRIC WATER COOLER
- JUNCTION BOX FOR ELECTRIC WATER COOLER
- FLOOR OUTLET - DUPLEX RECEPTACLE
- FLOOR OUTLET - FOURPLEX RECEPTACLE
- CEILING DROP
- FLOOR POKE THROUGH - DUPLEX RECEPTACLE
- JUNCTION BOX
- WALL MOUNTED JUNCTION BOX
- JUNCTION BOX MOUNTED OVER CEILING
- FLOOR JUNCTION BOX
- ELECTRIC THERMOSTAT - WALL MOUNTED
- PUSHBUTTON - WALL MOUNTED
- PUSHBUTTON WITH PILOT LIGHT
- BELL OR BUZZER
- SINGLE CIRCUIT PLUGMOLD
- TWO CIRCUIT PLUGMOLD
- SURFACE RACEWAY
- BUSHING AT END OF CONDUIT
- INDICATES DEVICE THAT SHALL BE MOUNTED ABOVE OR OTHER THAN SPECIFIED HEIGHT REFER TO ARCHITECTURAL DETAILS AND ELEVATIONS AND COORDINATE EXACT LOCATION OF DEVICE. WHERE DEVICES ARE NOT SHOWN IN ARCHITECTURAL DETAILS, CONTRACTOR SHALL CONFIRM EXACT MOUNTING LOCATION WITH ARCHITECT.
- INDICATES LIGHT OR DEVICE CONNECTED TO EMERGENCY POWER OR FURNISHED WITH A BATTERY PACK CONNECTED TO A NON-SWITCHED HOT WIRE
- EX EXISTING DEVICE, LIGHT, OR CONDUIT & WIRE TO REMAIN
- H NEW DEVICE IN EXISTING OUTLET BOX
- HL INDICATES NIGHT LIGHT FIXTURE CONNECTED TO A NON-SWITCHED HOT WIRE
- R EXISTING DEVICE, LIGHT, OR CONDUIT & WIRE TO BE REMOVED
- RB EXISTING DEVICE OR LIGHT TO BE REMOVED WITH BLANK COVER ON OUTLET BOX
- RL EXISTING DEVICE OR LIGHT RELOCATED
- RN EXISTING DEVICE OR LIGHT TO BE REMOVED AND OUTLET BOX REUSED FOR NEW DEVICE OR LIGHT
- RT RAIN/TIGHT DEVICE - NEMA 3R
- TP TAMPER-PROOF DEVICE
- WP WEATHER-PROOF DEVICE
- VUH VERTICAL UNIT HEATER. REFER TO DETAIL FOR ALL WIRING REQUIRED. REFER TO FLOOR PLANS FOR LOCATIONS.
- LX DEVICE WITH LOCKABLE COVERPLATE
- USB RECEPTACLE FURNISHED WITH (1) TYPE-A AND (1) TYPE-C USB OUTLET.

### LIGHTING SYMBOLS

- CEILING MOUNTED LIGHT FIXTURE
- CEILING MOUNTED WALL WASH LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- WALL MOUNTED FLUORESCENT LIGHT FIXTURE
- TRACK LIGHT FIXTURE
- X - INDICATES TYPE OF AVAILABLE LIGHT FIXTURE
- Y - INDICATES TYPE OF TRACK
- POLE MOUNTED LIGHT FIXTURE
- CEILING MOUNTED EXIT LIGHT
- WALL MOUNTED EXIT LIGHT
- CEILING MOUNTED EXIT LIGHT W/ DIRECTIONAL ARROW
- WALL MOUNTED EXIT LIGHT W/ DIRECTIONAL ARROW
- SHADING DENOTES FACE DIRECTION OF EXIT LIGHT
- BATTERY OPERATED EMERGENCY LIGHT - WALL MOUNTED
- BATTERY OPERATED EMERGENCY LIGHT - CEILING MOUNTED
- SINGLE POLE SWITCH
- DOUBLE POLE SWITCH
- THREE WAY SWITCH
- FOUR WAY SWITCH
- KEYSwitch
- MOMENTARY SWITCH
- SWITCH WITH PILOT LIGHT
- THERMAL MOTOR PROTECTION SWITCH
- LOW VOLTAGE SWITCH
- DIMMER - NUMBER (X 100) EQUALS WATTAGE
- FLUORESCENT DIMMER
- LOW-VOLTAGE DIMMER
- 3-WAY DIMMER
- MULTIPLE SWITCHES
- X - INDICATES HOW MANY
- Y - INDICATES WHAT TYPE OF SWITCH
- MULTIPLE DIMMERS
- X - INDICATES HOW MANY
- Y - INDICATES WHAT TYPE OF DIMMER
- WATTSTOPPER DIGITAL TIME SWITCH - TS-400
- WATTSTOPPER DIGITAL LIGHTING MANAGEMENT CONTROL STATION KEYPAD WITH PROGRAMMABLE FUNCTION BUTTONS. REFER TO DETAILS FOR ADDITIONAL REQUIREMENTS.
- XX INDICATES TYPE
- S1 ONE-BUTTON KEYPAD
- S2 TWO-BUTTON KEYPAD
- S3 THREE-BUTTON KEYPAD
- S4 FOUR-BUTTON KEYPAD
- S8 EIGHT-BUTTON KEYPAD
- D1 ONE-ROCKER-BUTTON KEYPAD
- WATTSTOPPER DUAL TECHNOLOGY LINE VOLTAGE WALL OCCUPANCY SENSOR DSW-301
- WATTSTOPPER DUAL TECHNOLOGY CEILING OCCUPANCY SENSOR WITH POWER PACK DT-300 AND DT-150
- WATTSTOPPER DUAL TECHNOLOGY 0-10 VOLT DIMMING WALL SWITCH OCCUPANCY SENSOR DW-311
- WATTSTOPPER DLM SYSTEM PHOTO CELL LMS-500
- WATTSTOPPER DLM SYSTEM DUAL TECHNOLOGY CEILING MOTION SENSOR LMD-100
- WATTSTOPPER EMERGENCY LIGHTING CONTROL UNIT. UPON LOSS OF NORMAL POWER, EMERGENCY LIGHTING SHALL BE BROUGHT TO FULL BRIGHTNESS REGARDLESS OF SWITCH POSITION. PROVIDE ALL LOW VOLTAGE CABLING AS REQUIRED: ELCU-200
- WATTSTOPPER DIGITAL LIGHTING MANAGEMENT INPUT/OUTPUT INTERFACE FOR BMS CONTROL OF LIGHTING. PROVIDE ALL LOW VOLTAGE CABLING AS REQUIRED: LMM-104
- WATTSTOPPER DIGITAL LIGHTING MANAGEMENT ROOM CONTROLLER. REFER TO DETAILS FOR SYSTEM INTERCONNECTION REQUIREMENTS.
- X INDICATES TYPE
- A ONE RELAY SWITCHING CONTROLLER. LMR-101
- B TWO RELAY SWITCHING CONTROLLER. LMR-102
- C ONE RELAY SWITCHING OR 0-10V DIMMING CONTROLLER. LMR-211
- D TWO RELAY SWITCHING OR 0-10V DIMMING CONTROLLER. LMR-212
- E THREE RELAY SWITCHING OR 0-10V DIMMING CONTROLLER. LMR-213

### HOSPITAL SYMBOLS

- NURSE CALL PATIENT STATION - SINGLE
- NURSE CALL PATIENT STATION - DOUBLE
- NURSE CALL MASTER
- NURSE CALL DOME LIGHT
- NURSE CALL ZONE LIGHT
- NURSE CALL DUTY STATION
- NURSE CALL STAFF STATION
- NURSE CALL EMERGENCY STATION
- NURSE CALL EMERGENCY PULL CORD STATION
- NURSE CALL CODE BLUE STATION
- NURSE CALL STAFF LOCATOR
- NURSE ASSISTANCE CALL STATION
- PATIENT MONITORING OUTLET
- EQUIPOTENTIAL GROUNDING MODULE
- TIME AND ATTENDANCE STATION
- X-RAY VIEW BOX

### COMMUNICATION SYMBOLS

- TELEPHONE OUTLET WITH 3/4" CONDUIT INTO ACCESSIBLE CEILING SPACE
- DATA OUTLET WITH 3/4" CONDUIT INTO ACCESSIBLE CEILING SPACE
- TELEPHONE DATA OUTLET WITH 3/4" CONDUIT INTO ACCESSIBLE CEILING SPACE
- WALL MOUNTED TELEPHONE OUTLET - NUMBER INDICATES HEIGHT ABOVE FINISHED FLOOR
- FLOOR OUTLET - TELEPHONE
- FLOOR OUTLET - DATA
- FLOOR OUTLET - TELEPHONE/DATA
- FLOOR POKE THROUGH - TELEPHONE
- FLOOR POKE THROUGH - DATA
- FLOOR POKE THROUGH - TELEPHONE/DATA
- CEILING SPEAKER
- WALL MOUNTED SPEAKER
- HORN TYPE SPEAKER
- VOLUME CONTROL
- TELEVISION OUTLET WITH 3/4" CONDUIT INTO ACCESSIBLE CEILING SPACE
- INTERCOM STAFF STATION
- INTERCOM MASTER STATION
- CLOCK OUTLET
- DOUBLE DIAL CLOCK - CEILING MOUNTED
- DOUBLE DIAL CLOCK - WALL MOUNTED
- MICROPHONE OUTLET WITH 3/4" CONDUIT INTO ACCESSIBLE CEILING SPACE

### SECURITY SYMBOLS

- FIXED CCTV CAMERA
- LOW-VOLTAGE DIMMER
- CCTV CAMERA WITH MOTORIZED DOME
- CCTV CAMERA WITH PAN/TILT/ZOOM
- SECURITY MOTION DETECTOR
- PROXIMITY READER (CARD READER)
- INTRUSION ALARM
- ELECTRIC DOOR STRIKE

### FIRE ALARM SYMBOLS

- MANUAL PULL STATION
- WALL MOUNTED FIRE ALARM SPEAKER
- COMBINATION PULL STATION/HORN
- SMOKE DETECTOR
- SMOKE DETECTOR - DUCT MOUNTED
- SMOKE DETECTOR - ELEVATOR LOBBY
- SMOKE DETECTOR WITH AUXILIARY CONTACTS FOR USE IN PATIENT ROOMS AND TREATMENT ROOMS, INCLUDING NURSE CALL RELAY LOCATED AT NURSE CALL LIGHT
- HEAT DETECTOR
- DOOR HOLDER - WALL MOUNTED
- DOOR HOLDER - FLOOR MOUNTED
- DOOR CLOSER
- FAN SHUT-DOWN RELAY
- SPRINKLER FLOW SWITCH
- SPRINKLER VALVE TAMPER SWITCH
- VISUAL/AUDIBLE ALARM - NUMBER INDICATES CANDELA OUTPUT. LACK OF NUMBER INDICATES 1575 CANDELA OUTPUT
- VISUAL ALARM - NUMBER INDICATES CANDELA OUTPUT. LACK OF NUMBER INDICATES 1575 CANDELA OUTPUT
- AREA OF RESCUE STATION
- AREA OF RESCUE - MASTER STATION
- POST INDICATOR VALVE
- FIRE ALARM CONTROL PANEL (DOUBLE LINE INDICATES FRONT OF PANEL)
- FIRE ALARM ANNUNCIATOR (DOUBLE LINE INDICATES FRONT OF PANEL)
- ADDRESSABLE INTERFACE MODULE
- ADDRESSABLE INTERFACE MODULE WITH RELAY

### TEMPERATURE CONTROLS SYMBOLS

- INTER RELAY
- ELECTRIC TO PNEUMATIC SWITCH
- PNEUMATIC TO ELECTRIC SWITCH
- DIFFERENTIAL PRESSURE SWITCH
- THERMOSTAT - SEE TEMP. CONT. DRAWING
- THERMOSTAT - SEE TEMP. CONT. DRAWING

### ELECTRICAL ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A	AMPERES (AMPS)	LTG	LIGHTING
AFF	ABOVE FINISHED FLOOR	MCB	MAIN CIRCUIT BREAKER
AFG	ABOVE GRADE	MCH	MECHANICAL
AG	ABOVE GRADE	MERC (MV)	MERCURY VAPOR
AIC	AMPS INTERRUPTING CURRENT	MH	METAL HALIDE
APPROX	APPROXIMATE	MISC	MISCELLANEOUS
ARCH	ARCHITECTURAL	MLO	MAN LUSS ONLY
ATS	AUTOMATIC TRANSFER SWITCH	MTO	MOUNTED
BLDG	BUILDING	MFG	MOUNTING
C	CONDUIT	MV	MEDIUM VOLTAGE
CB	CIRCUIT BREAKER	N	NEUTRAL
CKT	CIRCUIT	NC	NORMALLY CLOSED
CL	CENTRAL LINE	NEC	NATIONAL ELECTRICAL CODE
CLG	CEILING	NEMA	NAT'L. ELEC. MFR. ASSOCIATION
CM	COORDINATE MOUNTING	NF	NON-FUSED
CO	CONDUIT ONLY	NTIC	NOT IN CONTRACT
CT	CURRENT TRANSFORMER	NL	NIGHT LIGHT (NON-SWITCHED LIGHT)
CU	COPPER	NO	NORMALLY OPEN
DISC	DISCONNECT	NO	NUMBER
DP	DISTRIBUTION PANEL	NTS	NOT TO SCALE
DPDT	DOUBLE POLE DOUBLE THROW	PB	PULL BOX
DPST	DOUBLE POLE SINGLE THROW	PF	POWER FACTOR
DWG	DRAWING	PH	PHASE
EM	INDIC LIGHT OR DEVICE IS ON EMERG. POWER	PNL	PANEL, PANELBOARD
EMT	ELECTRICAL METALLIC TUBING	PR	PRIMARY
EQUIP	EQUIPMENT	PVC	POLYVINYL CHLORIDE CONDUIT
ETR	EXISTING TO REMAIN	PWR	POWER
F	FUSED	RSS	RIGID GALVANIZED STEEL CONDUIT
FC	FOOTCANDLE	SEC	SECONDARY
FEED	FEEDER	SPEC	SPECIFICATION
FLA	FULL LOAD AMPS	SPST	SINGLE POLE SINGLE THROW
FLOF	FLOOR	STD	STANDARD
FLOOR	FLUORESCENT	SPKR	SPEAKER
FT	FOOT, FEET	SWT	SWITCH
G.G.F./G.F.C.I.	GROUND FAULT CIRCUIT INTERRUPTER	SWBD	SWITCH BOARD
GE	GROUNDING ELECTRODE CONDUCTOR	SWGR, SG	SWITCH GEAR
GND	GROUND	TELE	TELEPHONE
IG	ISOLATED GROUND	TEMP	TEMPERATURE
IN	INCHES	TSTAT	THERMOSTAT
INC	INCANDESCENT	UPS	UNINTERRUPTIBLE POWER SUPPLY
ISC (AIC)	SHORT CIRCUIT CURRENT	V	VOLTS
J, JB	JUNCTION BOX	VA	VOLT AMPERES
KA	KILOAMPS	VFD	VARIABLE FREQUENCY DRIVE
KV	KILOVOLTS	W	WATTS (OR WIRE)
KVA	KILOVOLT AMPS	WF	WITH
KW	KILOWATTS	W/O	WITHOUT
KWH	KILOWATT HOURS	WP	WEATHERPROOF
		WT	WATER TIGHT
		XFMR	TRANSFORMER

### GENERAL NOTES

- (THESE NOTES APPLY TO ALL ELECTRICAL SHEETS)
- A MAXIMUM OF SIX(6) CURRENT - CARRYING WIRES SHALL BE INSTALLED IN ANY ONE(1) CONDUIT. ALL BRANCH CIRCUITS EXCEPT MOTOR CIRCUITS SHALL BE INSTALLED WITH A DEDICATED NEUTRAL WIRE.
  - COORDINATE ALL WORK WITH OTHER TRADES. OFFSET PANELS, LIGHTS, RECEPTACLES AND CONDUIT AS REQUIRED. APPROVAL MUST BE OBTAINED FROM ARCHITECT PRIOR TO OFFSETTING ANY DEVICE OR EQUIPMENT.
  - CONTRACTOR SHALL COORDINATE ALL SHUT DOWNS WITH OWNER. NO SHUT DOWNS SHALL BE PERFORMED WITHOUT RECEIVING PRIOR APPROVAL FROM OWNER.
  - COORDINATE WITH ALL OTHER TRADES AND DISCONNECT OR REMOVE ELECTRICAL WIRING, EQUIPMENT, ETC. TO MAKE SITE SAFE FOR DEMOLITION BY OTHER CONTRACTORS. REFER TO CIVIL PLANS FOR SITE DEMOLITION THAT MAY NOT BE SHOWN ON ELECTRICAL SHEETS.
  - CONTRACTOR SHALL COORDINATE ALL PRIMARY VOLTAGE UTILITY WORK WITH OWNER AND ELECTRICAL UTILITY.
  - NO CONDUIT OR DEVICES IN FINISHED AREAS SHALL BE SURFACE MOUNTED. CONTRACTOR SHALL RECESS OR CONCEAL CONDUITS AND DEVICES AS REQUIRED. WHERE WALL TRENCHING IS REQUIRED, SAME SHALL BE APPROVED BY ARCHITECT.
  - CONTRACTOR SHALL OBTAIN APPROVAL FROM ARCHITECT PRIOR TO INSTALLING ANY SURFACE MOUNTED DEVICES.
  - WHERE FLOOR TRENCHING IS REQUIRED, THE CONTRACTOR SHALL TRENCH TO NEAREST WALL AS REQUIRED. FLOOR SHALL BE PATCHED TO MATCH ADJACENT SURFACES. COORDINATE WITH ARCHITECT FOR ANY TRENCHING REQUIRED.
  - ALL LOW VOLTAGE CABLING SHALL BE FLEMING RATED. THIS IS NOT LIMITED TO, BUT SHOULD INCLUDE, ALL FIRE-ALARM CABLING.
  - CONTRACTOR SHALL LABEL AND UPDATE SCHEDULES IN ALL EXISTING TO REMAIN PANELBOARDS AT THE COMPLETION OF THE PROJECT. PROVIDE NEW TYPED DIRECTIONS FOR EXISTING PANELBOARDS TO REFLECT ALL WORK DONE AS PART OF THIS PROJECT.
  - ALL EXISTING CONDUIT AND WIRING BEING CONNECTED TO NEW WORK THAT IS NOT IN COMPLIANCE WITH THE NEC SHALL BE CORRECTED AS REQUIRED.
  - AFTER COMPLETION OF NEW WORK, REMOVE ALL TEMPORARY EQUIPMENT, CONDUIT, AND WIRING NOT REQUIRED TO REMAIN.
  - CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK.
  - ALL EXISTING ITEMS REMOVED DURING DEMOLITION SHALL BE TURNED OVER TO OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MOVING THE ITEMS TO A STORAGE LOCATION AS DETERMINED BY THE OWNER. ANY ITEMS THAT ARE NOT TO BE KEPT BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR. COORDINATE AS REQUIRED.
  - ELECTRICAL SERVICE SHALL BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
  - ALL CONDUITS SHALL BE HELD AS HIGH AND AS TIGHT AS POSSIBLE TO THE STRUCTURE SUPPORTING THE FLOOR ABOVE AREA WHERE INSTALLATION OCCURS. COORDINATE WITH OTHER TRADES AS REQUIRED.
  - COORDINATE THE ROUTING OF ALL CONDUITS WITH OTHER TRADES. MAKE OFFSETS AS REQUIRED. FURNISH AND INSTALL JUNCTION AND PULL BOXES AS REQUIRED. ROUTING SHOWN ON PLANS IS DIAGRAMMATIC.
  - CONTRACTOR SHALL RELOCATE, RELOCATE OR REMOVE ANY CONDUIT, FITTURES, OR OTHER EXISTING ELECTRICAL DEVICES AS REQUIRED FOR NEW WORK. MAINTAIN AND RESTORE POWER TO ALL EXISTING DEVICES BEING SERVED IN UNDISTURBED AREAS, AND DEVICES THAT ARE SHOWN AS EXISTING TO REMAIN.
  - ALL CIRCUITS FROM EXISTING TO REMAIN PANELBOARDS THAT HAVE THEIR ENTIRE LOAD REMOVED AND ARE NOT REQUIRED TO BE REUSED TO SERVE NEW LOADS, AS SHOWN ON NEW WORK DRAWINGS, SHALL HAVE THEIR CONDUIT AND WIRE REMOVED BACK TO THEIR PANELBOARD AND THEIR ASSOCIATED BREAKER SHALL BE LABELED AS A SHARED CONDUIT THAT IS LOCATED IN THE FLOOR SLAB OR ABOVE UNACCESSIBLE CEILING SHALL BE ABANDONED IN PLACE, HOWEVER, ALL CONDUCTORS SHALL BE REMOVED.
  - DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL DEVICES, LIGHT FIXTURES, ELECTRICAL EQUIPMENT SHOWN DARK AND DASHED ON THE DEMOLITION PLANS. DEVICES SHOWN LIGHT ARE EXISTING TO REMAIN.
  - THE CONTRACTOR SHALL VERIFY THE OPERATION OF ALL DEVICES THAT ARE EXISTING TO REMAIN. ALL NON-OPERATIONAL DEVICES SHALL BE CORRECTED OR REPLACED AS REQUIRED. REPLACE ALL DAMAGED AND MISSING COVERPLATES IN AREAS OF NEW WORK AS REQUIRED.
  - COORDINATE REMOVAL OF ALL COMMUNICATION WIRING WITH OWNER. ALL ABANDONED COMMUNICATION CABLING SHALL BE REMOVED AS REQUIRED.
  - COORDINATE REMOVAL WITH OWNER.
  - ALL CONDUIT, WIRING, DEVICES AND EQUIPMENT TO BE REMOVED MAY NOT BE SHOWN. HOWEVER, ALL ITEMS NOT REQUIRED TO REMAIN SHALL BE REMOVED.
  - THE CONTRACTOR SHALL MATCH THE RATINGS AND CHARACTERISTICS OF ALL NEW CIRCUIT BREAKERS BEING FURNISHED TO THOSE OF THE EXISTING BREAKERS IN EXISTING PANELBOARDS.
  - REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND ELEVATIONS FOR EXACT LOCATION OF LIGHT FIXTURES.
  - ALL RECEPTACLES INSTALLED IN BATHROOMS OR WITHIN SIX FEET OF ANY SINK SHALL BE GFI PROTECTED.
  - ALL LOW VOLTAGE ELECTRICAL CONNECTIONS ON THE SITE, EXTERIOR OF BUILDING, OR IN TUNNELS SHALL BE MADE USING WATERPROOF CONNECTORS.

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9/18/2020

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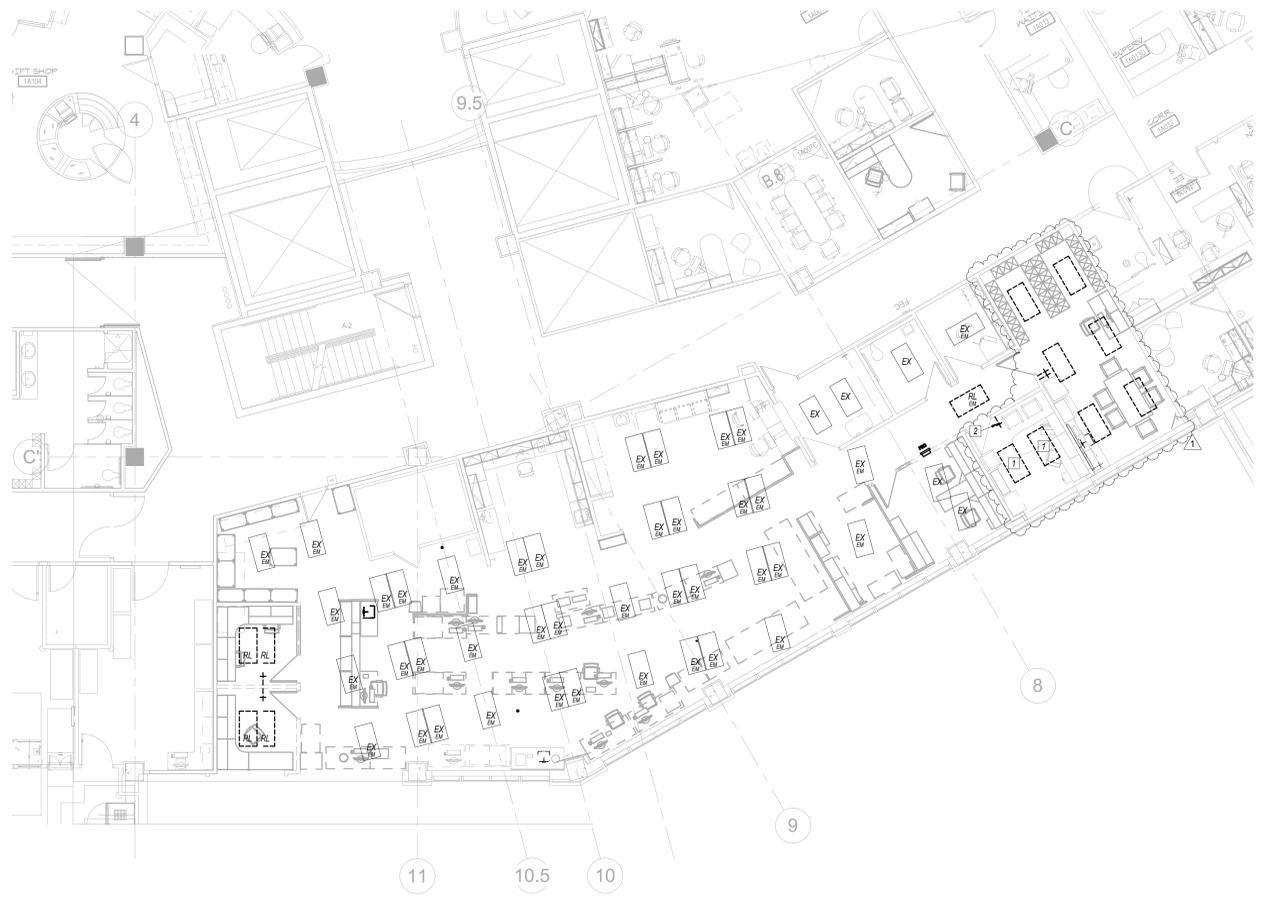
100 NE ST LUKES BLVD, LEE'S SUMMIT, MO 64086

RELEASE FOR CONSTRUCTION - NEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 10/20/2020

Date	09-18-2020
Job Number	3-20030
Drawn By	Author
Checked By	Checker

Number	Date	Description

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



**ELECTRICAL LIGHTING DEMOLITION  
GENERAL NOTES**

- 1 REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES MAY APPLY TO THIS SHEET.
- 2 WORK SHOWN LIGHTLY IS EXISTING TO REMAIN. DISCONNECT, REMOVE, RELOCATE AND RECONNECT ALL FIXTURES SHOWN DASHED ON DEMOLITION PLAN. DISCONNECT AND REMOVE ASSOCIATED SWITCHES, CONDUIT AND WIRING NO LONGER NECESSARY TO REMAIN.
- 3 THIS IS A 24 HOUR OPERATIONAL FACILITY THEREFORE SOME WORK MAY NEED TO OCCUR AFTER HOURS OR ON WEEKENDS AT NO EXTRA COST TO THE OWNER.



Bruce E. Hart  
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RELEASE FOR  
CONSTRUCTION  
AS NOTED ON PLAN  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
10/20/2020

## Saint Luke's

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100 NE ST LUKES BLVD, LEE'S SUMMIT, MO  
64086

Date 09-18-2020  
Job Number 3-20030  
Drawn By LLD  
Checked By BEH

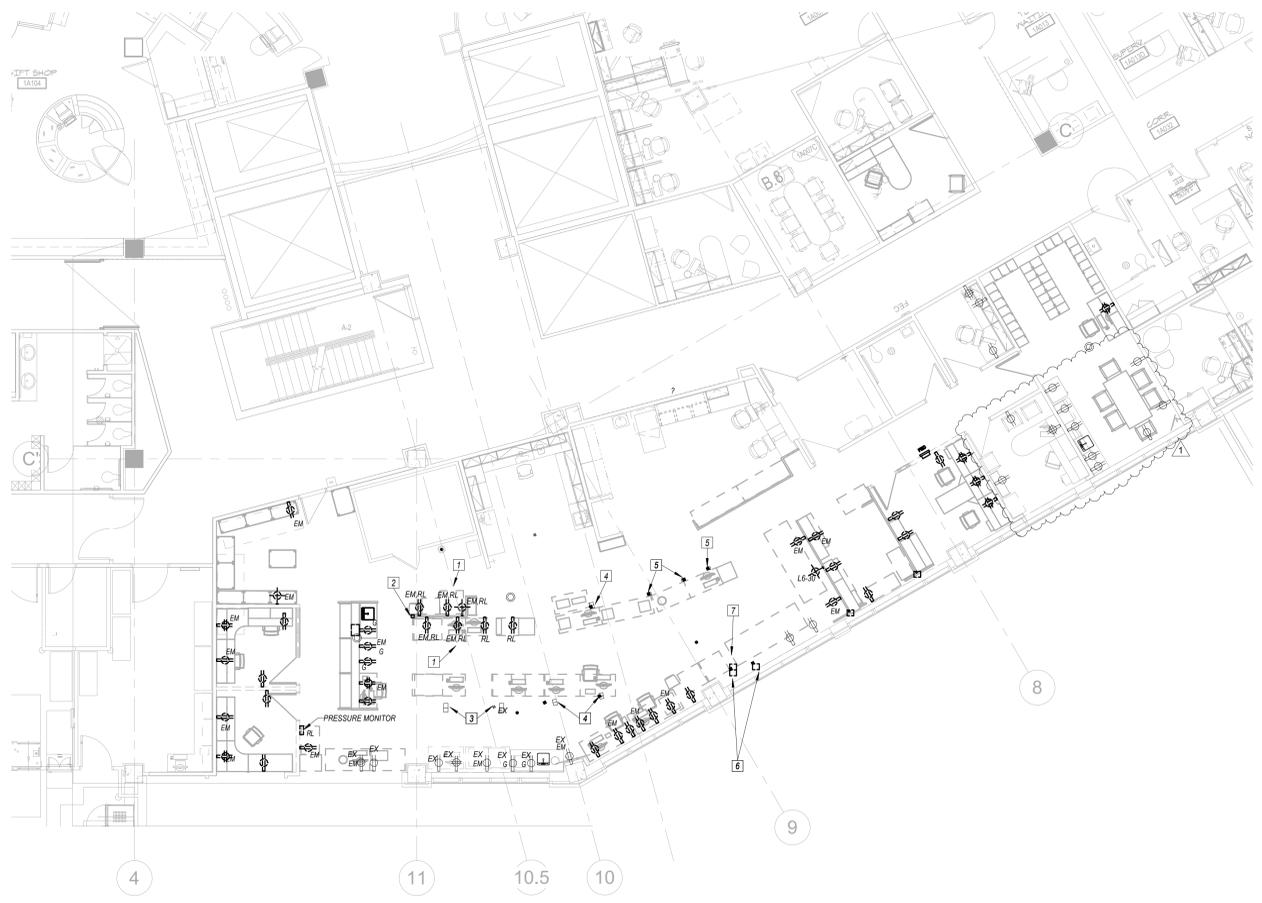
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LIGHTING FIRST FLOOR DEMOLITION  
PLAN

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FIRST FLOOR POWER DEMOLITION PLAN  
1/8" = 1'-0"



**ELECTRICAL POWER DEMOLITION GENERAL NOTES**

- 1 REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES MAY APPLY TO THIS SHEET.
- 2 WORK SHOWN LIGHTLY IS EXISTING TO REMAIN. ALL NEW WORK IS SHOWN DARK AND BOLD.
- 3 IT IS THE INTENT TO REUSE EXISTING CIRCUITS TO THE EXTENT POSSIBLE. CIRCUIT NUMBERS ARE BASED UPON AS BUILT DRAWINGS AND SHOULD BE FIELD VERIFIED BY THE ELECTRICAL CONTRACTOR.
- 4 RELOCATED POWER POLES ARE TO BE FED OVERHEAD.
- 5 THIS IS A 24 HOUR OPERATIONAL FACILITY THEREFORE SOME WORK MAY NEED TO OCCUR AFTER HOURS OR ON WEEKENDS AT NO EXTRA COST TO THE OWNER.

**KEYED NOTES**

- 1 DEVICES MOUNTED IN SYSTEM FURNITURE TO BE RELOCATED WITH FURNITURE. DISCONNECT EXISTING CIRCUITING FOR RELOCATION. EXISTING CIRCUIT TO BE EXTENDED AND RECONNECTED TO DEVICES IN NEW LOCATION. REFER TO NEW WORK PLAN FOR FURTHER INFORMATION.
- 2 THREE SECTION POWER POLE TO BE RELOCATED TO NEW EQUIPMENT LOCATION. REFER TO ARCHITECTURAL PLANS AND NEW WORK ELECTRICAL PLANS FOR FURTHER INFORMATION.
- 3 EXISTING POWER POLE TO REMAIN.
- 4 DISCONNECT AND RELOCATE TWO(2) EXISTING POWER POLES. ONE POLE WITH TWO(2) NORMAL DUPLEX RECEPTACLES AND TWO(2) DATA DROPS AND ONE POLE WITH TWO(2) EMERGENCY DUPLEX RECEPTACLES. REFER TO NEW WORK ELECTRICAL PLAN FOR FURTHER INFORMATION.
- 5 DISCONNECT AND RELOCATE EXISTING POWER POLE WITH TWO(2) EMERGENCY DUPLEX RECEPTACLES AND TWO(2) DATA DROPS. REFER TO NEW WORK ELECTRICAL PLAN FOR FURTHER INFORMATION.
- 6 DISCONNECT AND RECONNECT TWO(2) EXISTING POWER POLES. ONE POLE WITH ONE(1) EMERGENCY NEMA 1E-20 RECEPTACLE AND ONE POLE WITH TWO(2) EMERGENCY DUPLEX RECEPTACLES. REFER TO NEW WORK ELECTRICAL PLAN FOR FURTHER INFORMATION.
- 7 DISCONNECT AND RELOCATE EXISTING POWER POLE WITH ONE(1) EMERGENCY 1E-20 RECEPTACLE. REFER TO NEW WORK ELECTRICAL PLAN FOR FURTHER INFORMATION.



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RELEASE FOR CONSTRUCTION AS NOTED ON PLAN. NEW DEVELOPMENT SERVICES. LEE'S SUMMIT, MISSOURI. 10/20/2020

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Date 09-18-2020  
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Checked By BEH

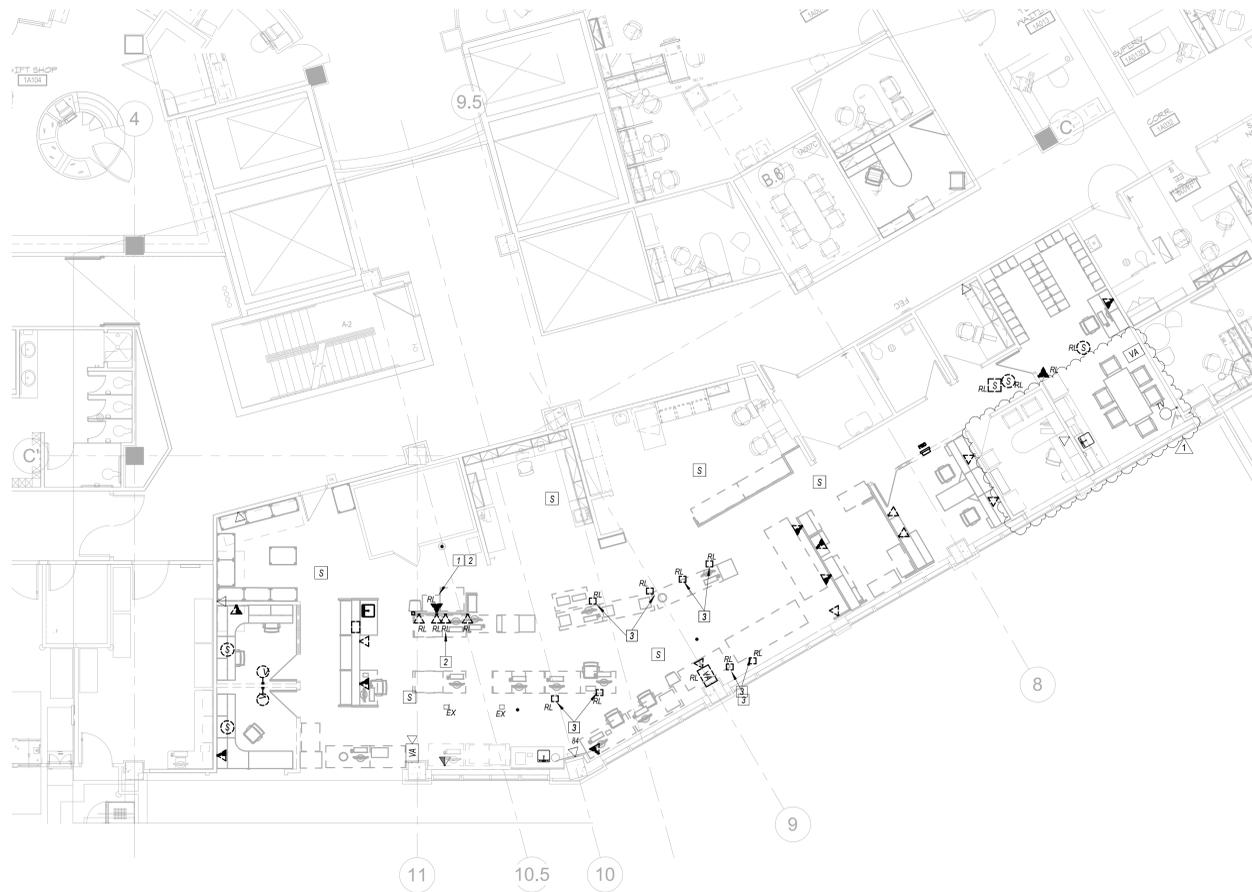
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POWER FIRST FLOOR DEMOLITION PLAN

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**1 FIRST FLOOR COMMUNICATIONS DEMOLITION PLAN**  
 1/8" = 1'-0"

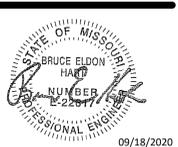


**ELECTRICAL COMMUNICATIONS DEMOLITION  
 GENERAL NOTES**

- 1 REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES MAY APPLY TO THIS SHEET.
- 2 WORK SHOWN LIGHTLY IS EXISTING TO REMAIN. ALL DEMOLITION WORK IS SHOWN DARK AND DASHED ON DEMOLITION PLAN.
- 3 NOT ALL EXISTING DEVICES ARE SHOWN. CONTRACTOR SHALL MAINTAIN SERVICE TO ALL DEVICES NOT BEING REMOVED AS PART OF THIS PROJECT.
- 4 THIS IS A 24 HOUR OPERATIONAL FACILITY THEREFORE SOME WORK MAY NEED TO OCCUR AFTER HOURS OR ON WEEKENDS AT NO EXTRA COST TO THE OWNER.

**KEYED NOTES**

- 1 DISCONNECT AND RELOCATE SENSAPHONE ALARM, MONITORING BLOOD BANK FREEZER AND REFRIGERATOR. TO NEW FREEZER AND REFRIGERATOR LOCATION. REFER TO NEW WORK PLAN FOR RECONNECTION OF CIRCUITS.
- 2 DEVICES MOUNTED IN SYSTEM FURNITURE TO BE RELOCATED WITH FURNITURE. REFER TO NEW WORK PLAN FOR FURTHER INFORMATION.
- 3 DISCONNECT, REMOVE AND RELOCATE EXISTING COMMUNICATIONS POWER POLE WITH TWO(2) DATA CONNECTIONS.



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 AS NOTED ON PLAN  
 DEVELOPMENT SERVICES  
 LEE'S SUMMIT, MISSOURI  
 10/20/2020

**Saint Luke's**  
 EAST HOSPITAL  
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 64086

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 Job Number 3-20030  
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 Checked By BEH

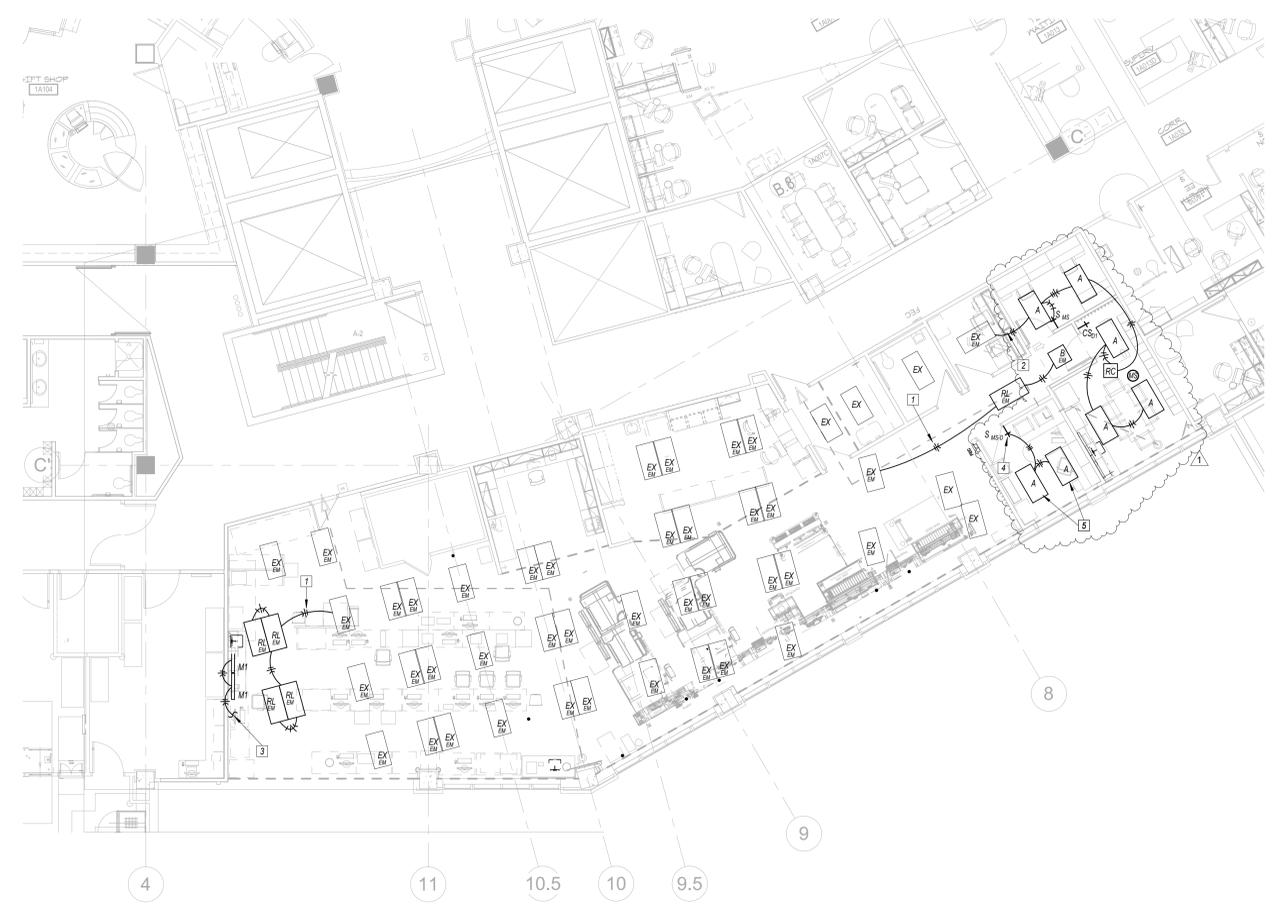
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1	10.12.20	ADD 01

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 COMMUNICATIONS FIRST FLOOR  
 DEMOLITION PLAN

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



Lighting Fixture Schedule							
TYPE	MANUFACTURER/MODEL	FIXTURE DESCRIPTION	MOUNTING	DRIVER/BALLAST	LAMP	VOLTAGE	WATTS
A	WILLIAMS PT SERIES	2x4 DIRECT INDIRECT TROFFER FOR LED SOURCE. LINEAR SMOOTH CURVED PRISMATIC LENS WITH SURFACE RELIEF DIFFUSER. FIXTURE STEEL PAINTED BAKED WHITE ENAMEL. 1-1/2" TELESCOPING HOUSING. DLC LISTED. FURNISH WITH ALL HARDWARE AS REQUIRED FOR MOUNTING TYPE.	CEILING RECESSED	INTEGRAL 1% 0-10V DIMMING DRIVER	INTEGRAL 3000 CCT, 4800 LUMENS DELIVERED. MIN 80 CRI LED	120-277V	37 W
B	WILLIAMS PT SERIES	2x2 TROFFER FIXTURE FOR LED SOURCE. 0.125" PRISMATIC ACRYLIC LENS. SPRING LOADED CAM ACTION LATCHED. FIXTURE STEEL DOOR WITH MITERED CORNERS. ALL FIXTURE STEEL POST PAINTED BAKED WHITE ENAMEL. FURNISH WITH ALL HARDWARE AS REQUIRED FOR MOUNTING.	RECESSED	INTEGRAL 1% 0-10V DIMMING DRIVER	INTEGRAL 3000 CCT, 2600 LUMENS DELIVERED. MIN 80 CRI LED	120-277V	21 W
M	WILLIAMS 1SP-LED SERIES	3" UNDERCABINET FIXTURE WITH SOLID FRONT AND BOTTOM ACRYLIC LENS. DIFFUSER. INTEGRAL ROCKER SWITCH.	SURFACE	INTEGRAL LED DRIVER	INTEGRAL 3000 CCT, 1200 LUMENS DELIVERED. MIN 80 CRI LED	120V	24 W

**ELECTRICAL LIGHTING GENERAL NOTES**

- REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES MAY APPLY TO THIS SHEET.
- WORK SHOWN LIGHTLY IS EXISTING TO REMAIN. DISCONNECT, REMOVE, RELOCATE AND RECONNECT ALL FIXTURES SHOWN DARK AND DASHED ON DEMOLITION PLAN. DISCONNECT AND REMOVE ASSOCIATED SWITCHES, CONDUIT AND WIRING NO LONGER NECESSARY TO REMAIN. ALL NEW WORK IS SHOWN DARK AND BOLD ON NEW WORK PLAN.
- THIS IS A 24 HOUR OPERATIONAL FACILITY THEREFORE SOME WORK MAY NEED TO OCCUR AFTER HOURS OR ON WEEKENDS AT NO EXTRA COST TO THE OWNER.

**KEYED NOTES**

- EXTEND AND CONNECT TO EXISTING EMERGENCY LIGHTING CIRCUIT.
- EXTEND AND CONNECT TO EXISTING NON-SWITCHED LEG OF NORMAL POWER LIGHTING CIRCUIT.
- EXTEND AND CONNECT TO COUNTERTOP RECEPTACLE CIRCUIT.
- FURNISH AND INSTALL NEW SWITCH IN EXISTING BACKBOX AND CONNECT TO EXISTING CIRCUITING AS REQUIRED.
- CONNECT NEW LIGHT FIXTURE TO EXISTING ROOM CIRCUIT.



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Number Date Description  
1 10.12.20 ADD 01

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LIGHTING FIRST FLOOR PLAN

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**1 FIRST FLOOR POWER PLAN**  
1/8" = 1'-0"



**ELECTRICAL POWER GENERAL NOTES**

- REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES MAY APPLY TO THIS SHEET.
- WORK SHOWN LIGHTLY IS EXISTING TO REMAIN. ALL NEW WORK IS SHOWN DARK AND BOLD.
- IT IS THE INTENT TO REUSE EXISTING CIRCUITS TO THE EXTENT POSSIBLE. CIRCUIT NUMBERS ARE BASED UPON AS BUILT DRAWINGS AND SHOULD BE FIELD VERIFIED BY THE ELECTRICAL CONTRACTOR.
- RELOCATED POWER POLES ARE TO BE FED OVERHEAD.
- THIS IS A 24 HOUR OPERATIONAL FACILITY THEREFORE SOME WORK MAY NEED TO OCCUR AFTER HOURS OR ON WEEKENDS AT NO EXTRA COST TO THE OWNER.

**KEYED NOTES**

- EXTEND AND CONNECT TO 20A 1P CIRCUIT BREAKER(S) MADE AVAILABLE DURING DEMOLITION PORTION OF PROJECT.
- RELOCATED THREE SECTION POWER POLE FOR ROUTING OF CIRCUITING AND DATA OF SYSTEM MOUNTED DEVICES.
- RELOCATED SENSAPHONE MONITORING ALARM. MAKE ALL CONNECTIONS TO REFRIGERATOR AND FREEZER AS REQUIRED.
- DROP CIRCUITING DOWN IN RELOCATED POWER POLE FOR CONNECTION TO DEVICES MOUNTED IN SYSTEM FURNITURE. EXTEND AND CONNECT TO EXISTING CIRCUIT BREAKER MADE SPARE DURING DEMOLITION PHASE OF PROJECT.
- RELOCATE AND RECONNECT THREE(3) EXISTING POWER POLES. ONE POLE WITH TWO(2) NORMAL DUPLEX RECEPTACLES AND TWO(2) DATA DROPS; ONE POLE WITH TWO(2) EMERGENCY DUPLEX RECEPTACLES AND ONE POLE WITH TWO(2) EMERGENCY DUPLEX RECEPTACLES AND TWO(2) DATA DROPS.
- RELOCATE AND RECONNECT TWO(2) EXISTING POWER POLES. EACH WITH TWO(2) EMERGENCY DUPLEX RECEPTACLES AND TWO(2) DATA DROPS.
- RELOCATE AND RECONNECT TWO(2) EXISTING POWER POLES. ONE POLE WITH TWO(2) NORMAL DUPLEX RECEPTACLES AND TWO(2) DATA DROPS AND ONE POLE WITH TWO(2) EMERGENCY DUPLEX RECEPTACLES.
- FURNISH AND INSTALL 6"x6" SEPARATED POWER COLUMN FOR ROUTING OF EMERGENCY POWER, DATA AND WATER. THE FRONT SIDE SHALL CONSIST OF THREE(3) 20W, 16-20P RECEPTACLES, ONE(1) 120V EMERGENCY DUPLEX RECEPTACLE AND CAT6 NETWORK DROP. REFER TO SIEMENS HEALTHINEERS DRAWINGS FOR ADDITIONAL INFORMATION. EXISTING POWER POLE TO REMAIN.
- FURNISH AND INSTALL NEW 100A 3P CIRCUIT BREAKER IN EXISTING PANEL TO FEED NEW LOCATION. REFER TO PANEL LOCATION PLAN ON THIS SHEET FOR EXISTING PANEL LOCATION.
- 4#1W, 1#8 GND IN 1.1.2'C.
- 2#2W, 1#8 GND IN 1'C.
- EATON 9555, 1.5H 120V UPS. REFER TO SIEMENS HEALTHINEERS DRAWINGS FOR FURTHER INFORMATION. EXACT LOCATION IN ROOM TO BE FIELD VERIFIED.
- 12VA, 208 TO 230VAC STEP UP TRANSFORMER. REFER TO SIEMENS HEALTHINEERS DRAWINGS FOR FURTHER INFORMATION. EXACT LOCATION IN ROOM TO BE FIELD VERIFIED.
- FURNISH AND INSTALL 40A 1PH 230VAC PHASE-TO-NEUTRAL CIRCUIT BREAKER IN NEMA 1 ENCLOSURE. REFER TO SIEMENS HEALTHINEERS DRAWINGS FOR FURTHER INFORMATION.
- 2#8W, 1#10 GND IN 1'C.
- FURNISH AND INSTALL 40A 3PH 230VAC PHASE-TO-NEUTRAL DISCONNECT SWITCH AND MAKE ALL CONNECTIONS TO 40A(4) AS REQUIRED. REFER TO SIEMENS HEALTHINEERS DRAWINGS FOR FURTHER INFORMATION.
- REVISE RELOCATED POWER POLE TO HAVE THREE(3) EMERGENCY RECEPTACLES AND CONNECT TO NEW CIRCUIT AS SPECIFIED.
- RELOCATE AND EXISTING POWER-POLE WITH TWO(2) EMERGENCY DUPLEX RECEPTACLES AND EXTEND AND CONNECT TO NEW CIRCUIT AS SPECIFIED.
- FURNISH AND INSTALL NEW TWO COMPARTMENT POWER POLE FOR EMERGENCY POWER AND DATA. FURNISH WITH FOUR(4) EMERGENCY DUPLEX RECEPTACLES, TWO(2) WIRED PER CIRCUIT, AND WITH FOUR(4) DATA PORTS.
- EXTEND AND CONNECT TO EXISTING CIRCUIT.



**2 EXISTING ELECTRICAL PANEL PLAN**  
1/16" = 1'-0"



**Branch Panel: A1-33**

Location: LAB 1A041M  
Supply From: A1-14-LC  
Mounting: Surface  
Enclosure: Type 1

Volts: 120/208 Wye  
Phases: 3  
Wires: 4

A.I.C. Rating: 10K  
Mains Type: MCB  
Mains Rating: 100 A  
MCB Rating: 100 A

**Notes:**

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	ATELLICA ACCESSORY POWER	20 A	1	0 VA	1200...			2	20 A	ATELLICA SAMPLER HANDLER POWER	
3	ATELLICA CHEMISTRY ANALYZER POWER	20 A	2		1200... 1200...					4	
5	ATELLICA ACCESSORY POWER	20 A	1	0 VA	1200...		1200... 1200...	2	20 A	ATELLICA IMMUNOASSY POWER	
7	ATELLICA SAMPLER HANDLER POWER	20 A	2		1200... 1200...					8	
9	ATELLICA ACCESSORY POWER	20 A	1	0 VA	1200...					10	
11	ATELLICA SAMPLER HANDLER POWER	20 A	2		1200... 1200...		1200... 1200...	2	20 A	ATELLICA CHEMISTRY ANALYZER POWER	
13	ATELLICA SYSTEM POWER	20 A	2	1200... 0 VA				1	20 A	AUTOMATION WORKSTATION	
15	ATELLICA SYSTEM POWER	20 A	2	1200... 0 VA		0 VA 0 VA		1	20 A	AUTOMATION WORKSTATION	
17	ACCESSORY POWER	20 A	1			0 VA 0 VA		1	20 A	AUTOMATION WORKSTATION	
19	APTIO UPS	100 A	2	0 VA	180 VA			1	20 A	MILLIPORE SYSTEM RECEPTACLE	
21	SPARE	20 A	1		0 VA	180 VA		1	20 A	MILLIPORE SYSTEM RECEPTACLE	
23	SPARE	20 A	1		0 VA	0 VA 0 VA		1	20 A	SPARE	
25	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	
27	SPARE	20 A	1		0 VA	0 VA		1	20 A	SPARE	
29	SPARE	20 A	1		0 VA	0 VA		1	20 A	SPARE	
31	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	
33	BLOOD BANK MINI-FRIG	20 A	1		180 VA			1	20 A	SPARE	
35										36	
37										38	
39										40	
41										42	
				<b>Total Load:</b>	3780 VA	6360 VA	4800 VA				
				<b>Total Amps:</b>	32 A	54 A	41 A				

**Legend:**

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Other	1440 VA	100.00%	1440 VA	<b>Total Conn. Load:</b> 14940 VA
Receptacle	540 VA	100.00%	540 VA	<b>Total Est. Demand:</b> 14940 VA
				<b>Total Conn. Current:</b> 41 A
				<b>Total Est. Demand Current:</b> 41 A

**Notes:**

Bruce E. Hart  
Missouri #E-22817

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ACI/Boland, Inc.  
Kansas City | St. Louis  
Licensee's Certificate of Authority Number:  
Missouri: #000958

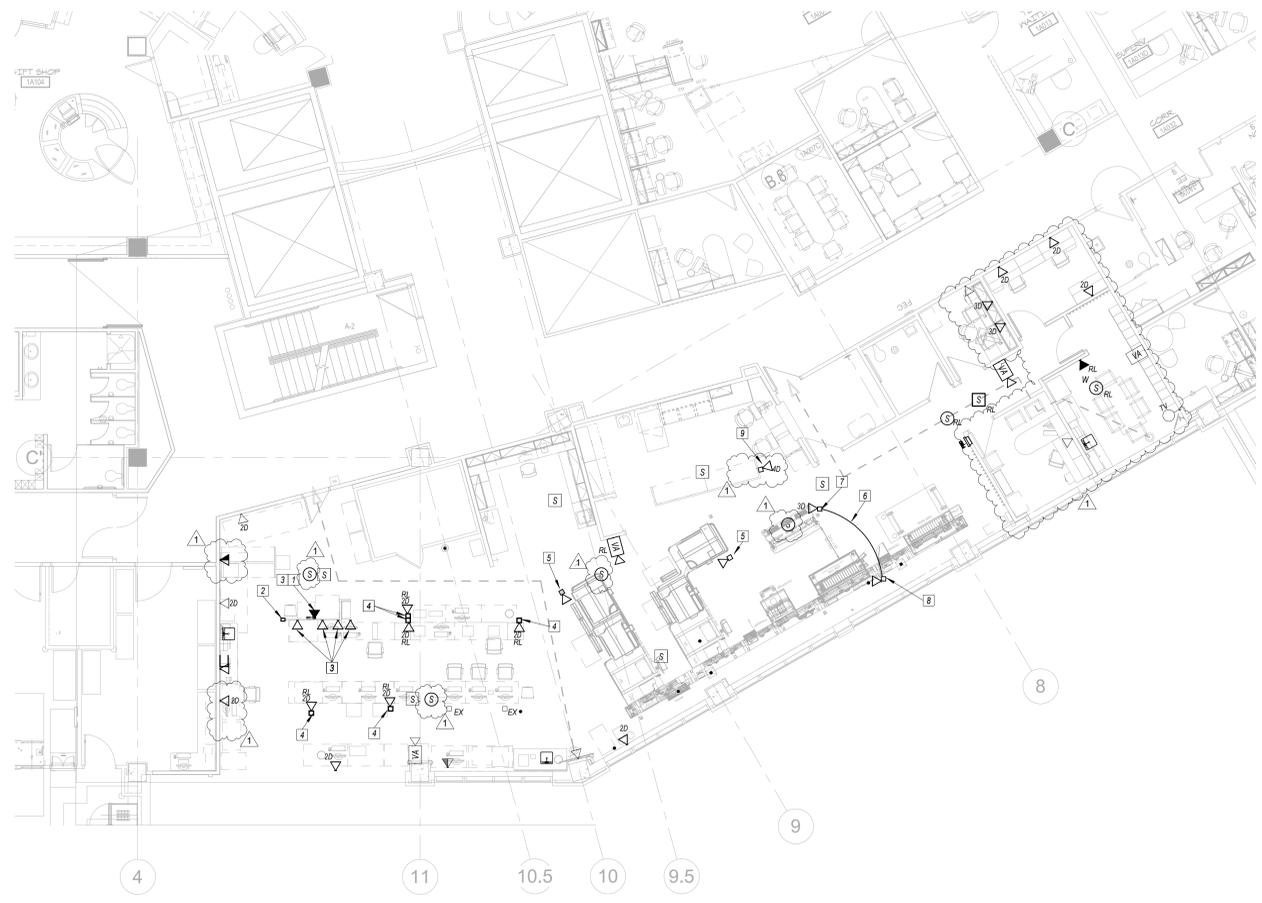
**Saint Luke's**  
EAST HOSPITAL  
LAB REMODEL  
100 NE ST LUKES BLVD, LEE'S SUMMIT, MO  
64086

RELEASE FOR CONSTRUCTION AS NOTED ON PLAN. NEW DEVELOPMENT SERVICES. LEE'S SUMMIT, MISSOURI. 10/20/2020

Date: 09-18-2020  
Job Number: 3-20030  
Drawn By: LLD  
Checked By: BEH

Revision	Number	Date	Description
	1	10.12.20	ADD 01

10/12/2020 12:42:12 PM



1 FIRST FLOOR COMMUNICATIONS PLAN  
1/8" = 1'-0"

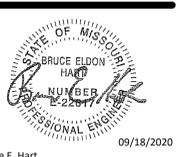


**ELECTRICAL COMMUNICATIONS GENERAL NOTES**

- 1 REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES MAY APPLY TO THIS SHEET.
- 2 WORK SHOWN LIGHTLY IS EXISTING TO REMAIN. ALL NEW WORK IS SHOWN DARK AND BOLD.
- 3 THIS IS A 24 HOUR OPERATIONAL FACILITY THEREFORE SOME WORK MAY NEED TO OCCUR AFTER HOURS OR ON WEEKENDS AT NO EXTRA COST TO THE OWNER.

**KEYED NOTES**

- 1 DEDICATED ANALOG TELEPHONE LINE FOR CONNECTION TO REFRIGERATOR/FREEZER ALARM.
- 2 DROP CABLING DOWN IN POWER POLE AND EXTEND AND CONNECT TO SYSTEM FURNITURE MOUNTED DEVICES.
- 3 DEVICE MOUNTED IN SYSTEM FURNITURE. EXTEND CABLING THROUGH FURNITURE RACEWAY TO POWER POLE CONNECTION POINT.
- 4 DROP CABLING DOWN IN RELOCATED POWER POLE AND RECONNECT TO TWO(2) EXISTING POLE MOUNTED DATA DROPS.
- 5 CAT5 NETWORK DROP MOUNTED IN 6"x6" SEPARATED POWER COLUMN. REFER TO SIEMENS HEALTHINEER DRAWINGS FOR ADDITIONAL INFORMATION.
- 6 FURNISH AND INSTALL SIX(6) CAT 6 CABLES BETWEEN APTIO WORKSTATION AND APTIO UTILITY LOCATION. REFER TO SIEMENS HEALTHINEER DRAWINGS FOR FURTHER INFORMATION.
- 7 REVERSE RELOCATED POWER POLE WITH THREE(3) NETWORK DATA DROPS AND CONNECTION POINT FOR SIX(6) CAT5 CABLES TO APTIO. REFER TO SIEMENS HEALTHINEER DRAWINGS FOR FURTHER INFORMATION.
- 8 REVERSE RELOCATED POWER POLE WITH ONE(1) NETWORK DATA DROPS AND CONNECTION POINT FOR SIX(6) CAT5 CABLES FROM APTIO WORKSTATION. REFER TO SIEMENS HEALTHINEER DRAWINGS FOR FURTHER INFORMATION.
- 9 DATA DROPS MOUNTED IN NEW POWER POLE. REFER TO ELECTRICAL POWER PLAN FOR ADDITIONAL POWER POLE INFORMATION.



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RELEASE FOR  
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AS NOTED ON PLAN  
DEVELOPMENT SERVICES  
LEE'S SUMMIT, MISSOURI  
10/20/2020

**Saint Luke's**

EAST HOSPITAL  
LAB REMODEL

100 NE ST LUKES BLVD, LEE'S SUMMIT, MO  
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EC.2.1

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COMMUNICATIONS FIRST FLOOR  
PLAN

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