

GENERAL NOTES

- 1. ALL PLUMBING WORK SHALL COMPLY WITH THE 2012 EDITION OF THE INTERNATIONAL PLUMBING CODE.
- 2. DRAWING IS DIAGRAMMATIC AND IS NOT TO BE SCALED. REFER TO ARCHITECTURAL PLANS AND FIELD CONDITIONS FOR DIMENSIONS.
- 3. PIPING MATERIAL SHALL BE AS FOLLOWS:
HOT AND COLD WATER PIPING:
CROSS LINKED POLYETHYLENE PLASTIC TUBING (PEX)
TUBING SHALL BE CROSSLINKED POLYETHYLENE PEX-A PIPING. FITTINGS SHALL BE "PROPEX" EXPANDER TYPE.
PROVIDE A COPPER STUB OUT WHERE FIXTURE SUPPLY LINE CONNECTIONS WILL BE EXPOSED.
PEX TUBING SHALL BE SUPPORTED EVERY 32" MINIMUM, AT EVERY BEND AND AT ALL JOINTS.
ONLY SUPPORT SPECIFICALLY MANUFACTURED FOR SUPPORT OF PLASTIC TUBING ARE ALLOWED. TUBING SHOULD BE FREE TO MOVE WITHIN THE SUPPORT.
HOT AND COLD WATER LINES SHALL BE INSULATED WITH 1/2" AP ARMAFLEX (UNSLIT TUBES). SEAL JOINTS PER MANUFACTURER'S RECOMMENDATIONS. MANIFOLDS SHALL BE INSULATED WITH 1/2" FIBERGLASS.
TUBING SHALL BE INSTALLED IN A NEAT AND ORDERLY FASHION. TUBING SHALL RUN IN PERPENDICULAR/PARALLEL LINES TO BUILDING STRUCTURE.

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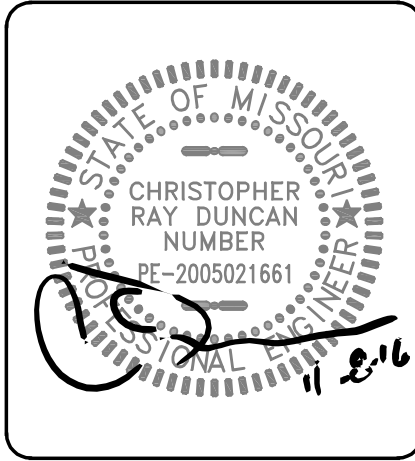
DRAIN WASTE AND VENT PIPING:
SCHEDULE 40 PVC DWV IN WALLS OR BELOW SLAB. GALVANIZED STEEL, COPPER DWV, OR CAST IRON IN CEILING PLENUMS.

- 4. INSULATE DOMESTIC COLD AND HOT WATER PIPING AND ROOF DRAIN PIPING WITH 1/2" 3-1/2 LB/FT DENSITY FIBERGLASS INSULATION "ASJ" JACKET.
- 5. SERVICE VALVES ON WATER LINES SHALL BE BRONZE BALL VALVES. DO NOT SUBSTITUTE GATE OR GLOBE VALVES. VALVES SHALL BE THE SAME SIZE AS THE PIPING, UNLESS NOTED OTHERWISE.
- 6. PLUMBING FIXTURES ARE TO BE FURNISHED COMPLETE WITH ALL NECESSARY STOPS, TRAPS, TAILPIECES, TRIM, ETC.
- 7. PROVIDE A WATER HAMMER ARRESTER ON THE SUPPLY PIPING (CW & HW) WHERE INDICATED ON THE PLAN. ARRESTERS SHALL BE SIOUX CHIEF MODEL 652-A OR EQUAL. INSTALL ARRESTERS PER THE MANUFACTURER'S RECOMMENDATIONS. THE ARRESTERS SHALL BE RATED FOR INSTALLATION IN CONCEALED LOCATIONS. CAPPED AIR CHAMBERS ARE NOT ALLOWED.
- 8. ALL HOT AND COLD WATER SUPPLY PIPING CONNECTION TO FIXTURES ARE TO BE 1/2", UNLESS NOTED OTHERWISE.
- 9. THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER CONTRACTORS AND SUBCONTRACTORS IN LAYING OUT AND INSTALLING HIS WORK. COORDINATION DOES NOT MEAN "I WAS HERE FIRST".
- 10. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING A COMPLETE AND OPERABLE SYSTEM IN ACCORDANCE WITH THE INTENT OF THE PLANS, WHETHER OR NOT EVERY ELEMENT THEREOF IS SPECIFICALLY CALLED OUT.
- 11. ALL FLOOR DRAINS, FLOOR SINKS AND INTERIOR CLEANOUTS SHALL BE INSTALLED FLUSH WITH FINISHED FLOOR COVERING. FLOOR SHALL NOT BE SLOPED TO DRAIN UNLESS SPECIFICALLY INDICATED ON THE PLANS.

Revisions	By
Last Modification	
DATE	INFLS

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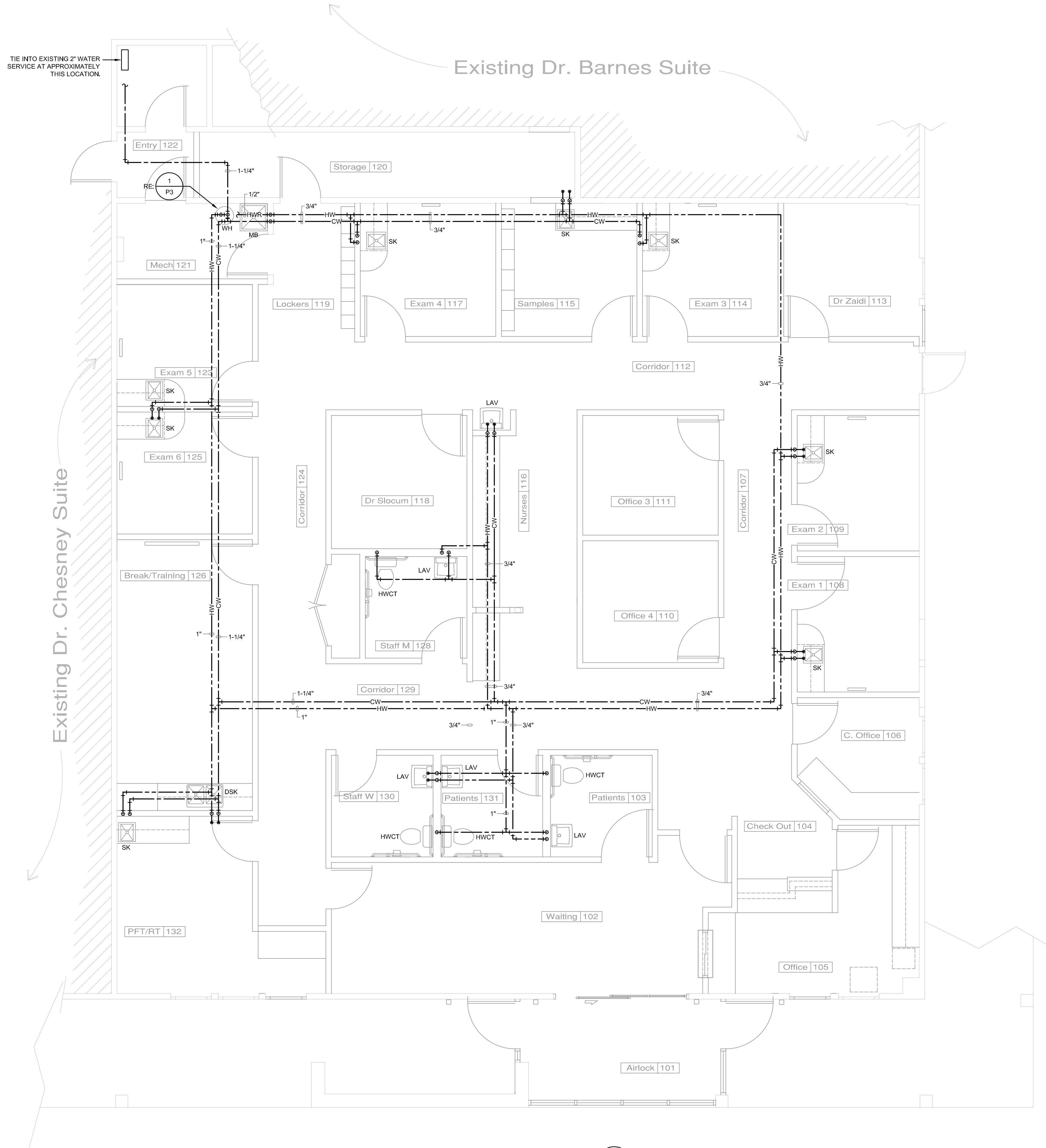
**Renovation of Suites 3 & 4
Pulmonology Suite**
1002 McIntosh Circle Joplin, MO
Freeman Health System

Drawn By	c-zell
Checked By	crd/knc
Date	10/14/16
Scale	As Noted
Job Number	1724

WASTE & VENT
PIPING PLAN
P1

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MISSOURI COA: E-2014013301

WASTE & VENT PIPING PLAN
SCALE: 1/4" = 1'-0"



SUPPLY PIPING PLAN
SCALE: 1/4" = 1'-0"

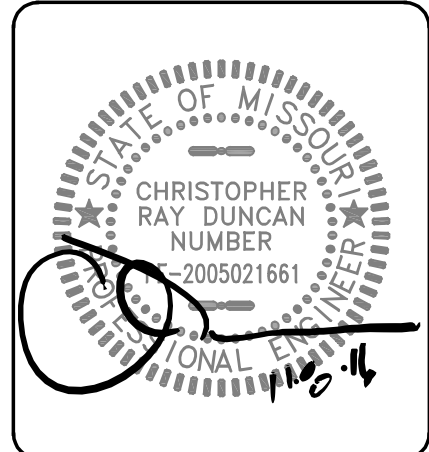


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1002 McIntosh Circle Joplin, MO
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SUPPLY
PIPING PLAN
P2

PLUMBING FIXTURE SCHEDULE									
MARK	DESCRIPTION	MANUFACTURER	MODEL NO.	ACCESSORIES	PIPING REQUIREMENTS			REMARKS	APPROVED MANUFACTURERS
					WASTE	VENT	SUPPLY		
HWCT	HANDICAP ACCESSIBLE WATER CLOSET (TANK TYPE)	TOTO	DRAKE CST744SL	CHURCH #315SSSC WHITE OPEN FRONT SEAT COMPLETE WITH BOLT CAPS	4"	2"	1/2"	FLUSH HANDLE ON WIDE SIDE OF STALL	AMERICAN STANDARD, ZURN, KOHLER AND CRANE
LAV	HANDICAP ACCESSIBLE LAVATORY (WALL MOUNT)	TOTO	LT307.4	CHICAGO FAUCET #2200-4E2805 CENTERSET FAUCET WITH GRID DRAIN, JAY R. SMITH #0710 FLOOR MOUNTED LAVATORY SUPPORTS AND TRUEBRO LAV GUARD 2 PIPE COVER	2"	1-1/2"	1/2"	—	AMERICAN STANDARD, ZURN, KOHLER AND CRANE
SK	SINGLE COMPARTMENT SINK	JUST	SL-1517-A-GR	#JB-99 STRAINER AND CHICAGO FAUCET #785-CP FAUCET	2"	1-1/2"	1/2"	—	ELKAY
DSK	DOUBLE COMPARTMENT SINK	ELKAY	DLR-332210	CHICAGO FAUCET #2300-8CP FAUCET AND #LK-35 STRAINER	2"	1-1/2"	1/2"	PUNCHED THREE HOLES.	AMERICAN STANDARD, ZURN, KOHLER, CRANE AND JUST
FD	FLOOR DRAIN	ZURN	ZN415B	5" NICKLE BRONZE LIGHT DUTY STRAINER AND "PROSET" SYSTEMS TRAP GUARD	2"	1-1/2"	—	—	JAY R SMITH, JOSAM, MIFAB, WADE, WATTS
WCO	WALL CLEANOUT	ZURN	Z1468	—	SEE PLAN	—	—	SAME SIZE AS LINE	JAY R SMITH, JOSAM, MIFAB, WADE, WATTS
MB	MOP BASIN	FIAT	MSB-2424	#832-AA HOSE AND BRACKET, #889-CC-24" MOP HANGER AND CHICAGO FAUCET #897-RCP SERVICE SINK FAUCET.	3"	1-1/2"	1/2"	WITH VACUUM BREAKER	SWANSTONE AND STERN WILLIAMS
NOTES: 1. COORDINATE THE ROUGH-IN OF ALL PLUMBING FIXTURES WITH THE ARCHITECTURAL PLANS. 2. PROVIDE SERVICE VALVES ON ALL SUPPLY FIXTURES.									

WATER HEATER SCHEDULE										
MARK	MANUFACTURER	MODEL NO.	TYPE	CAPACITY (GAL.)	RECOVERY (GPH@90°F)	INPUT		OUTPUT (MBH)	VOLT/PH	ACCESSORIES
						GAS (MBH)	ELEC (KW)			
WH	AO SMITH	DRE-52	ELEC.	50	55	—	4.5	—	208/1	PTRV
NOTES:					ABBREVIATIONS: PTRV - PRESSURE & TEMPERATURE RELIEF VALVE.					

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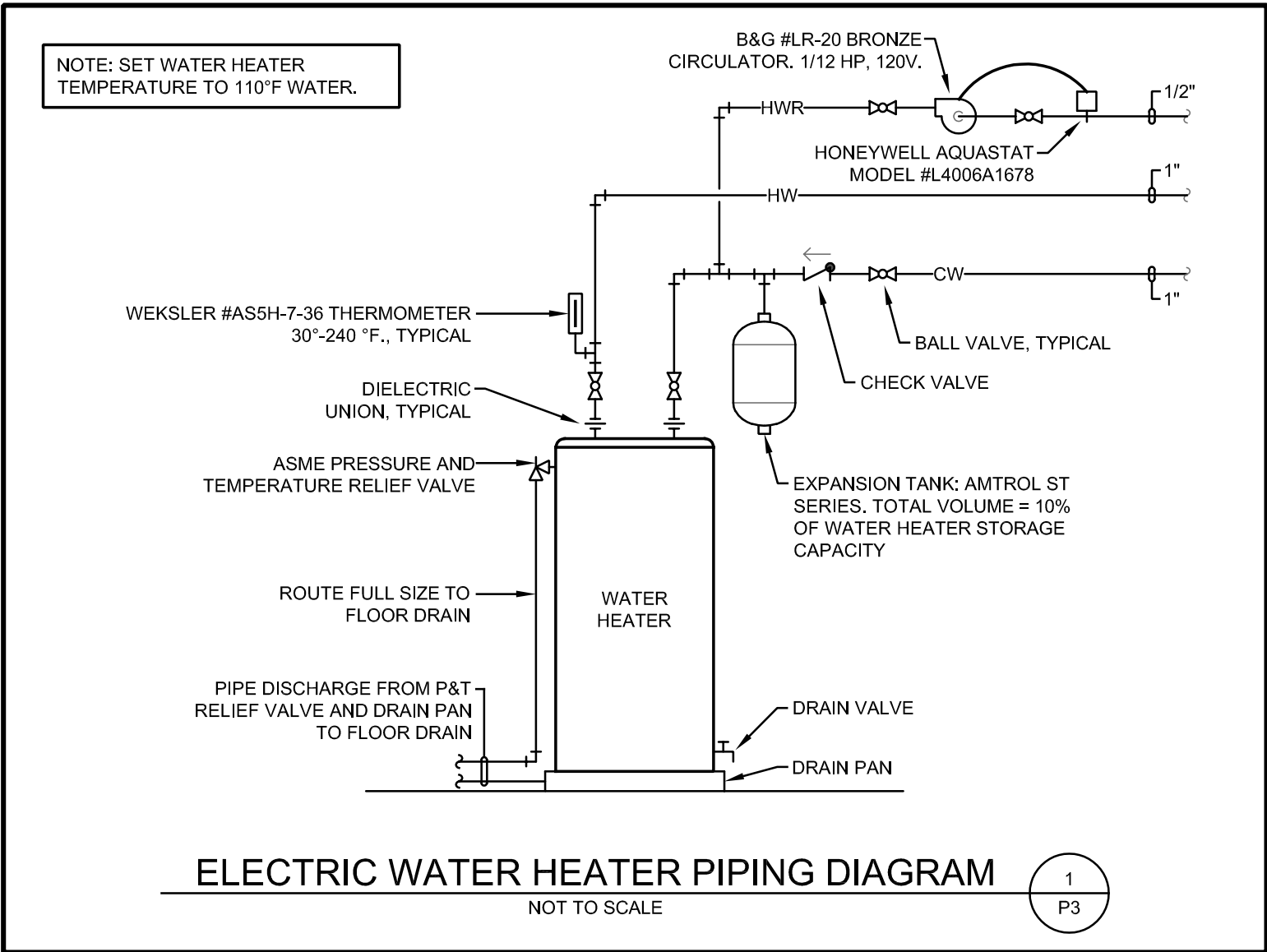
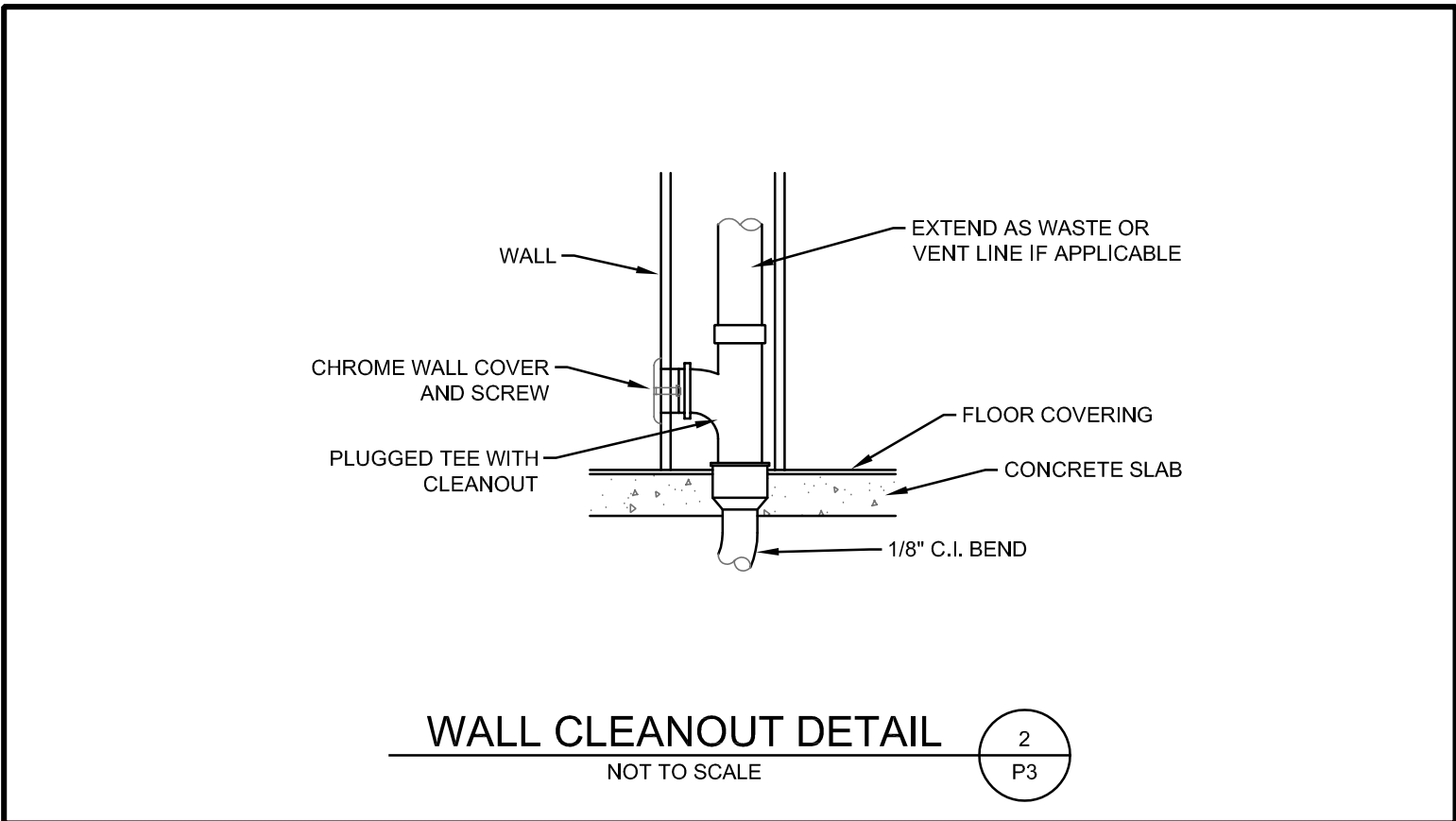
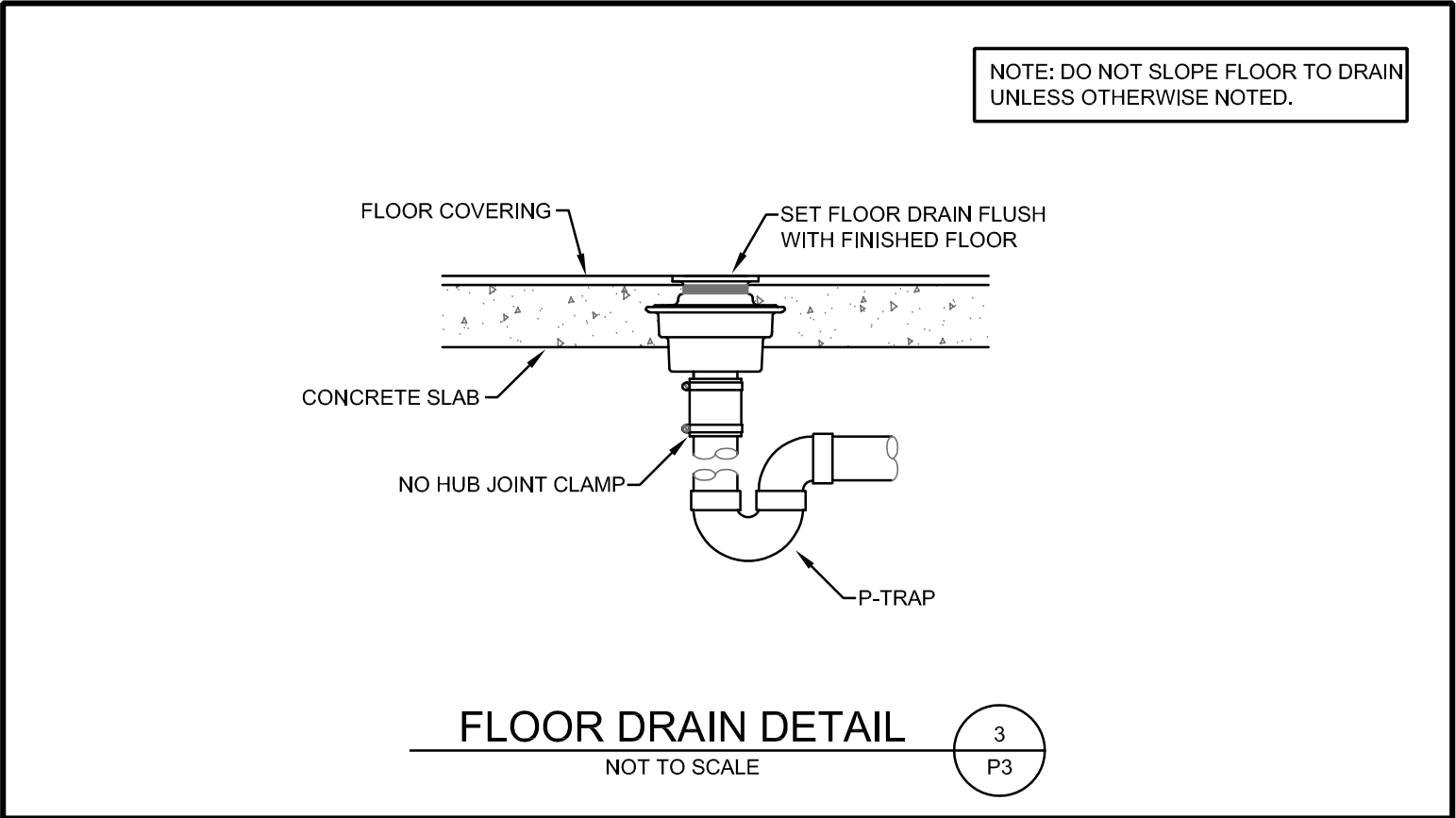
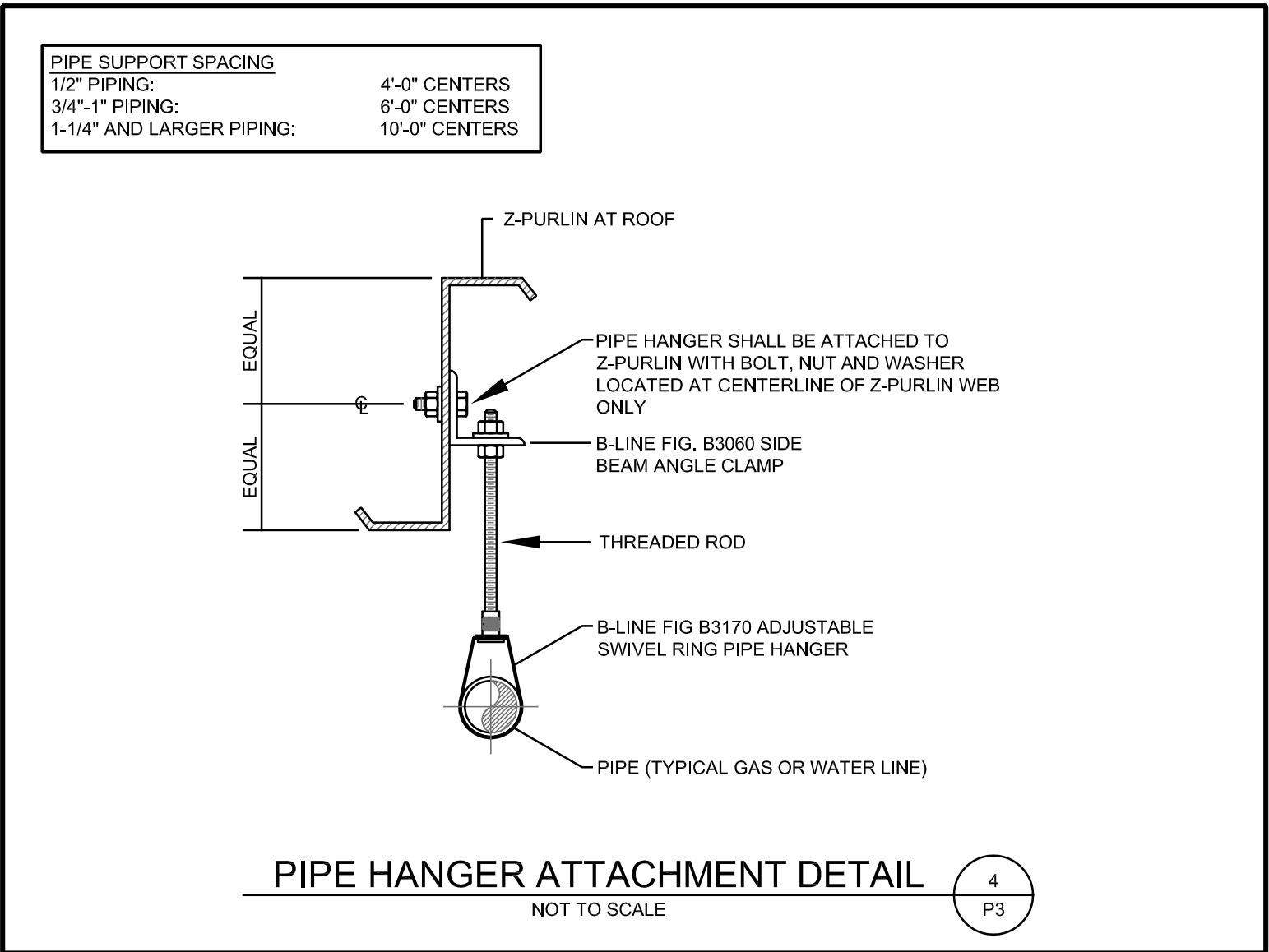
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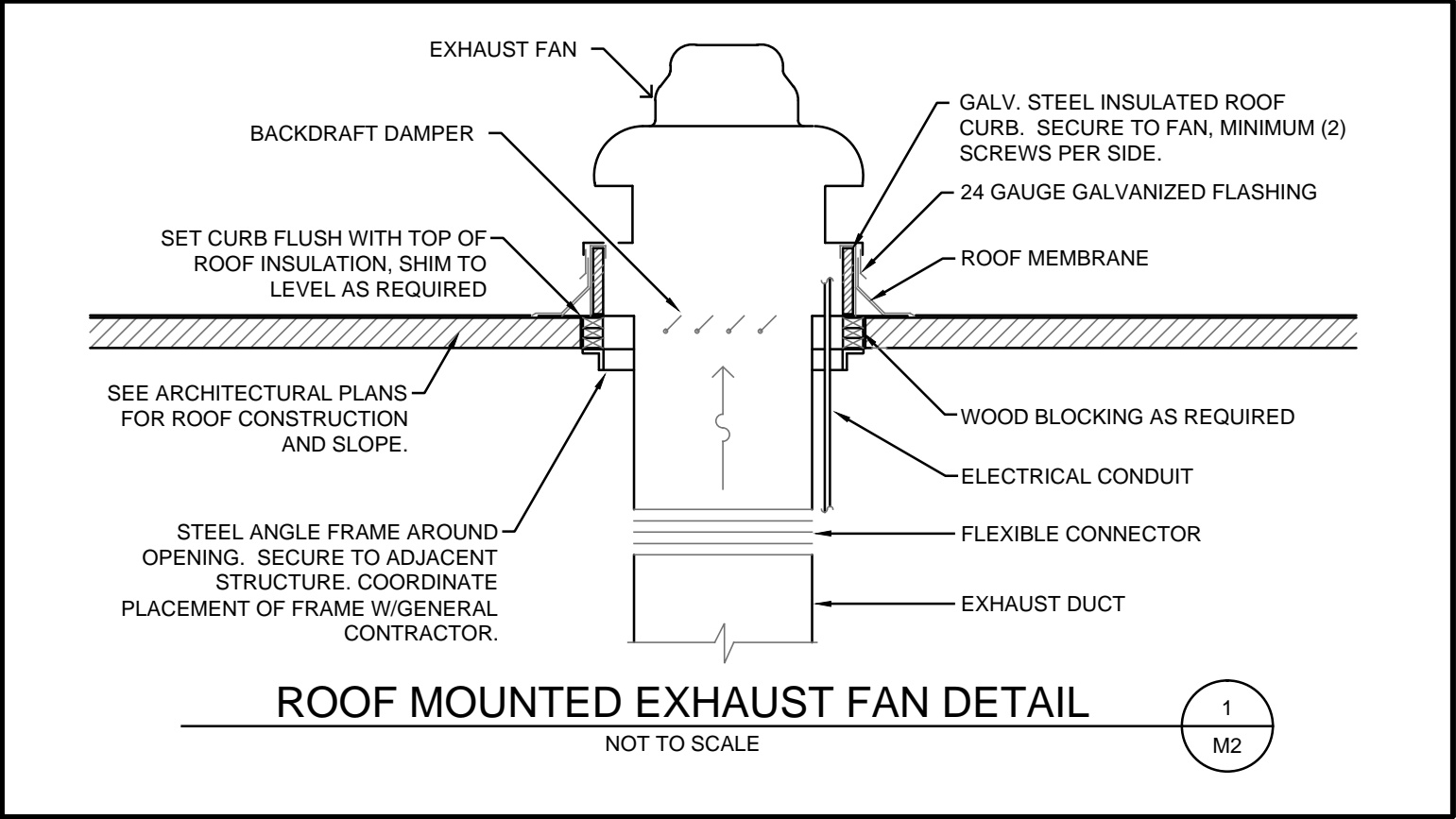
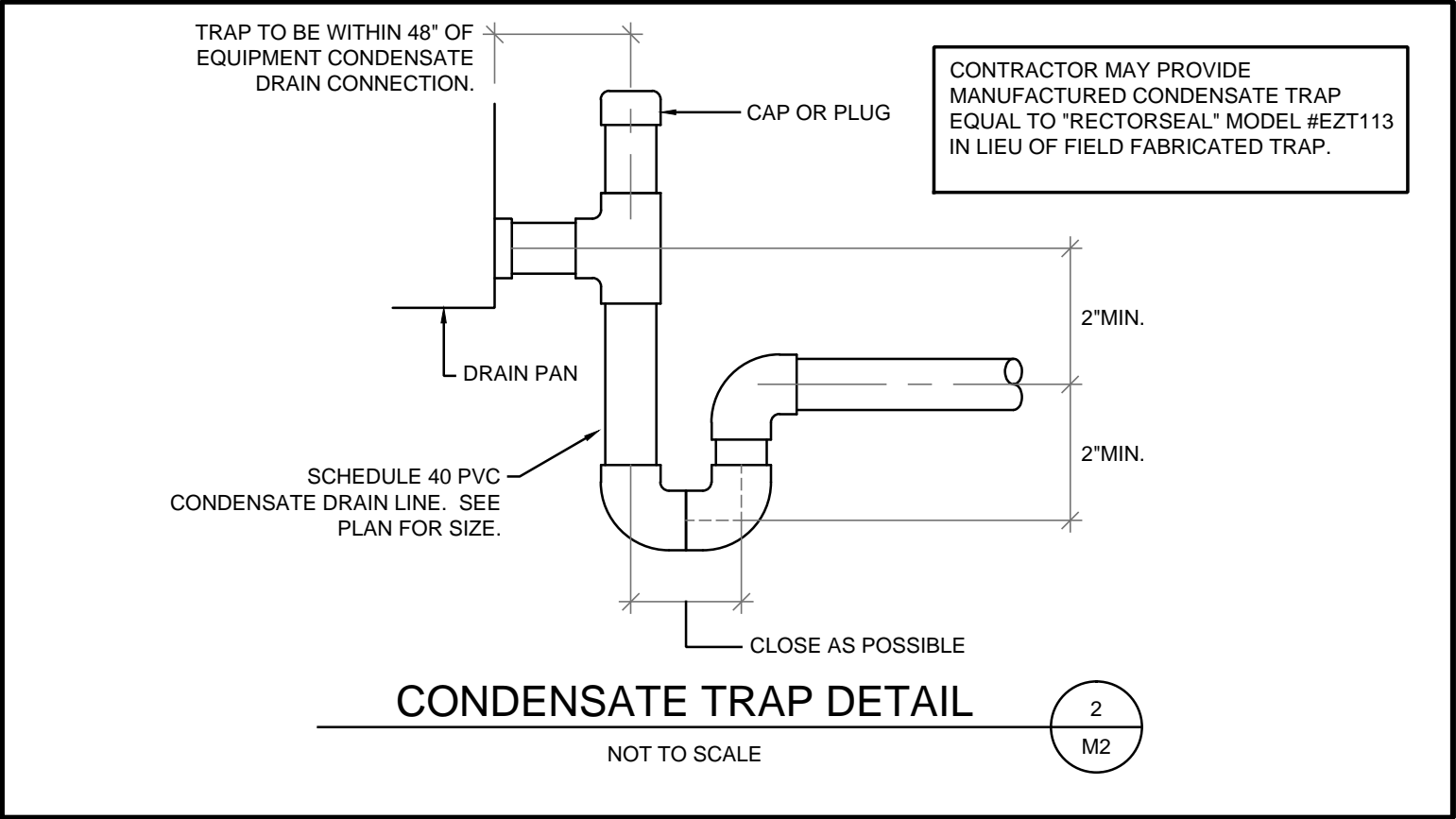
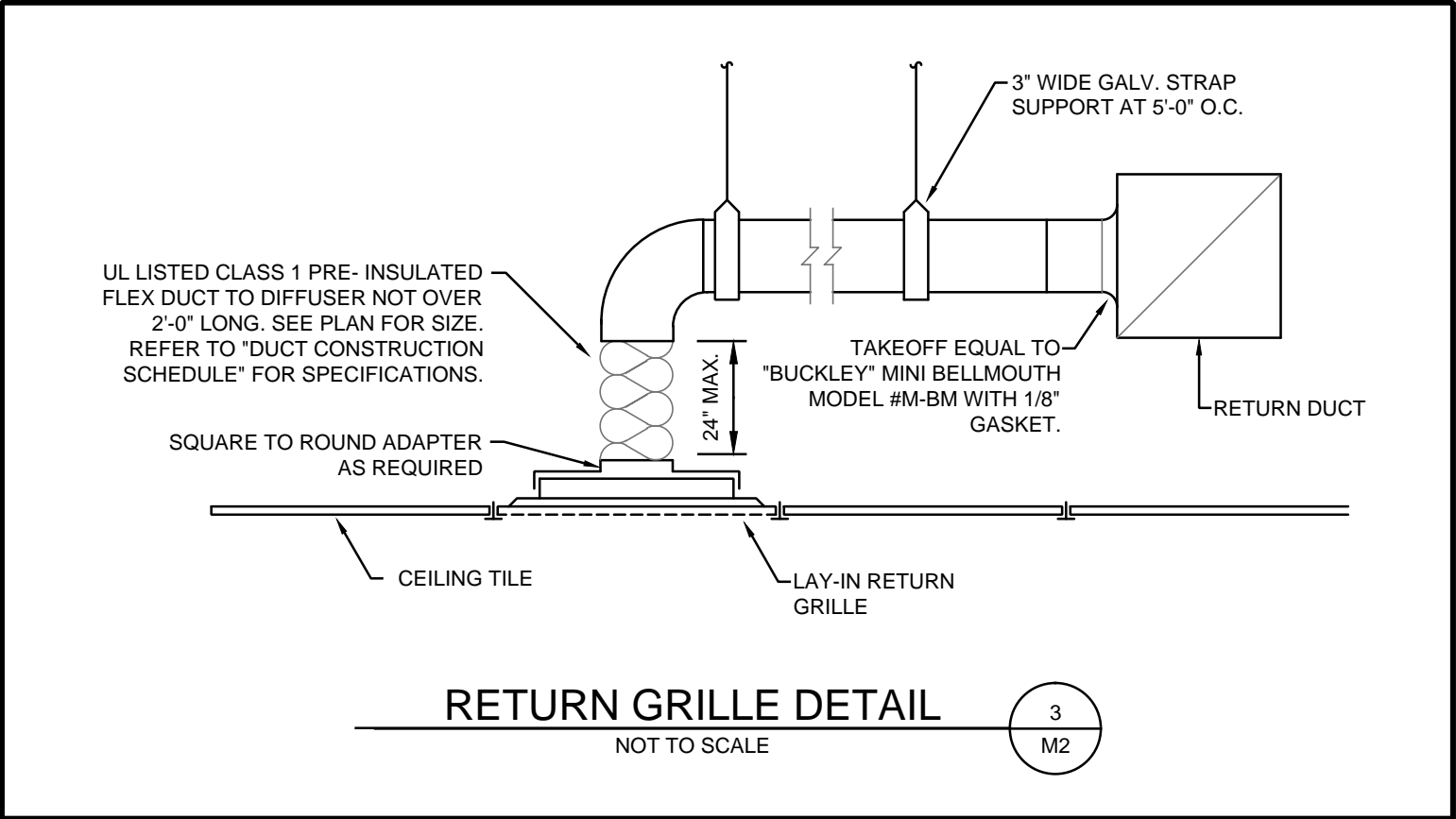
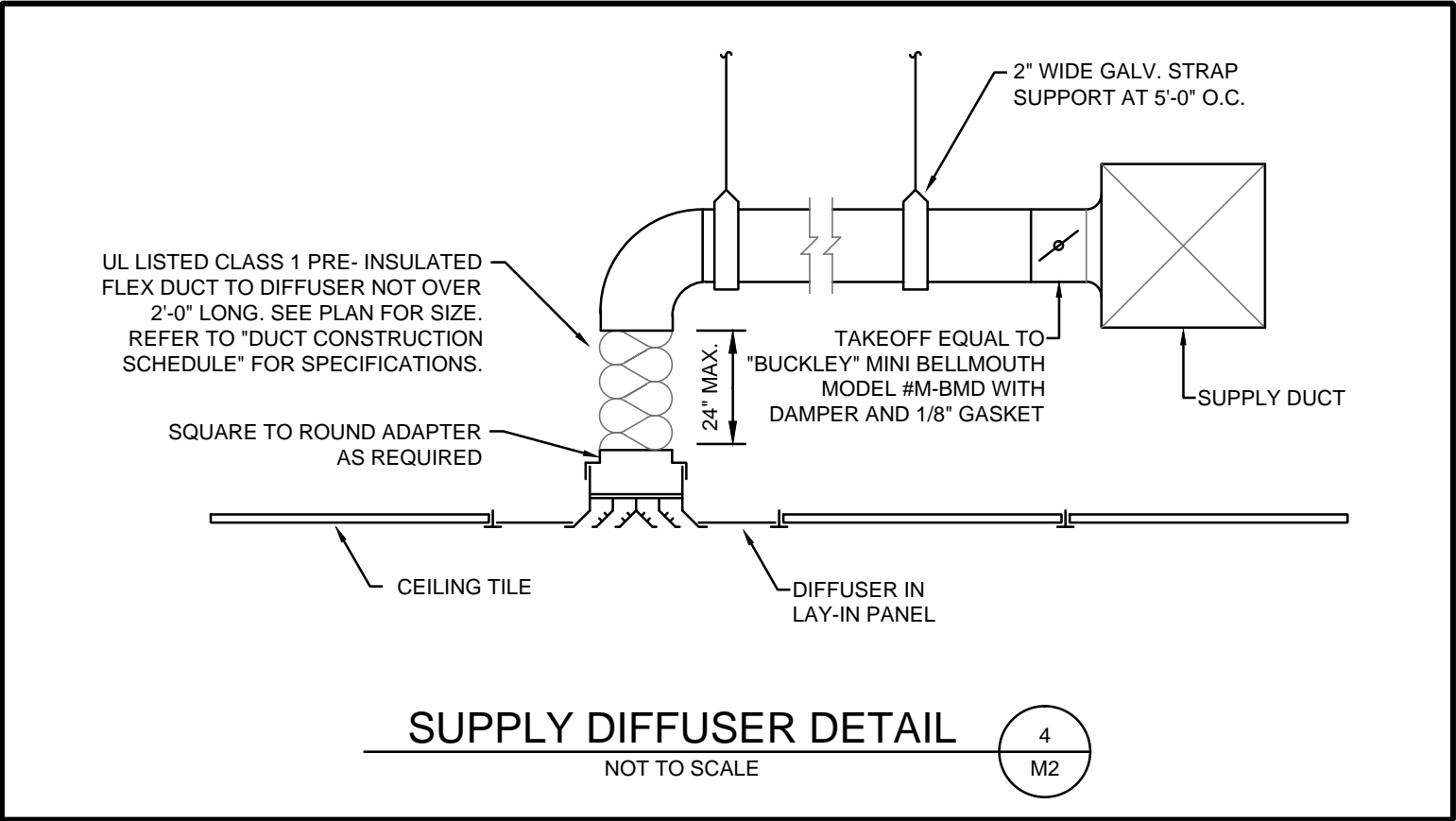
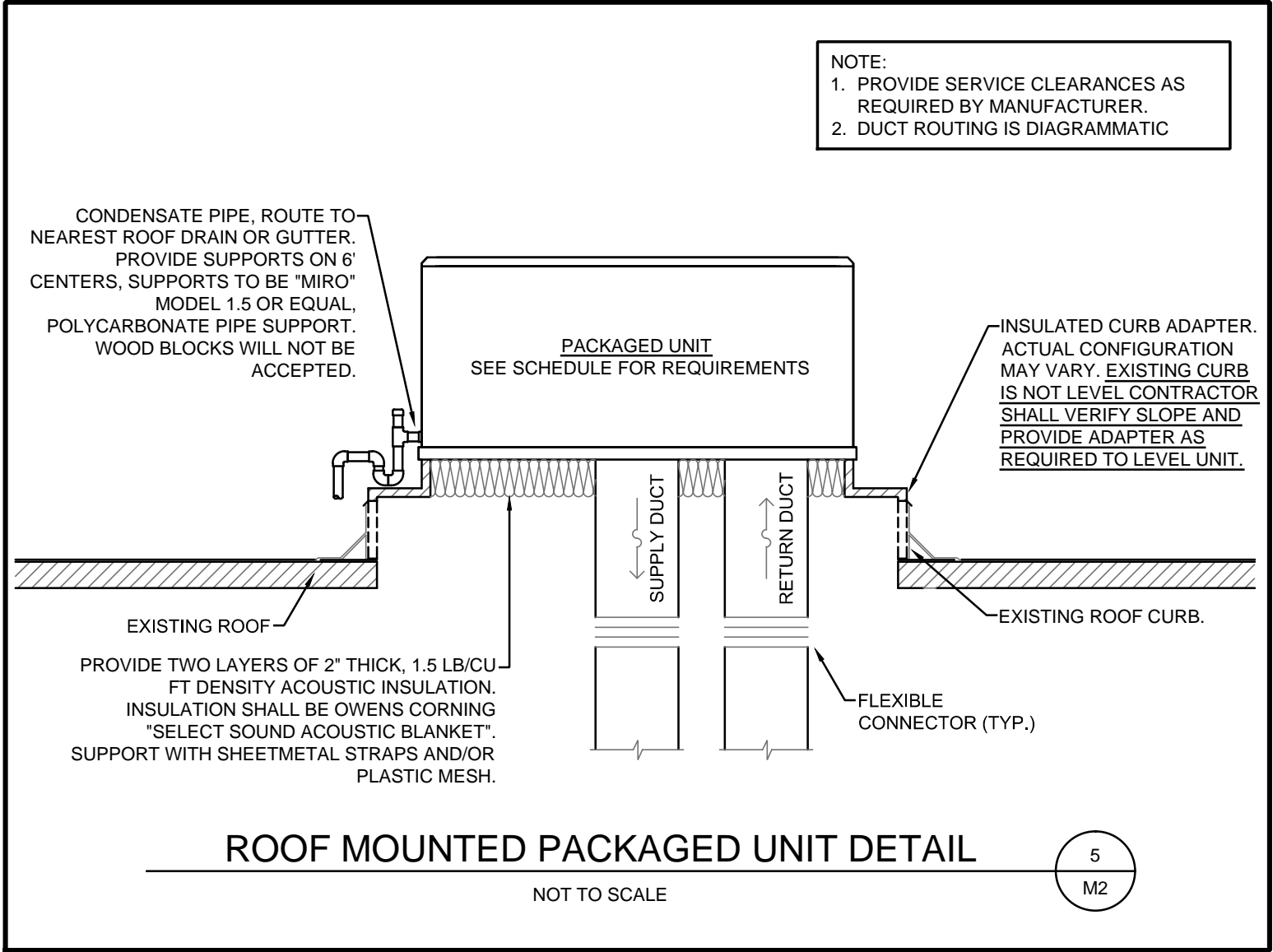
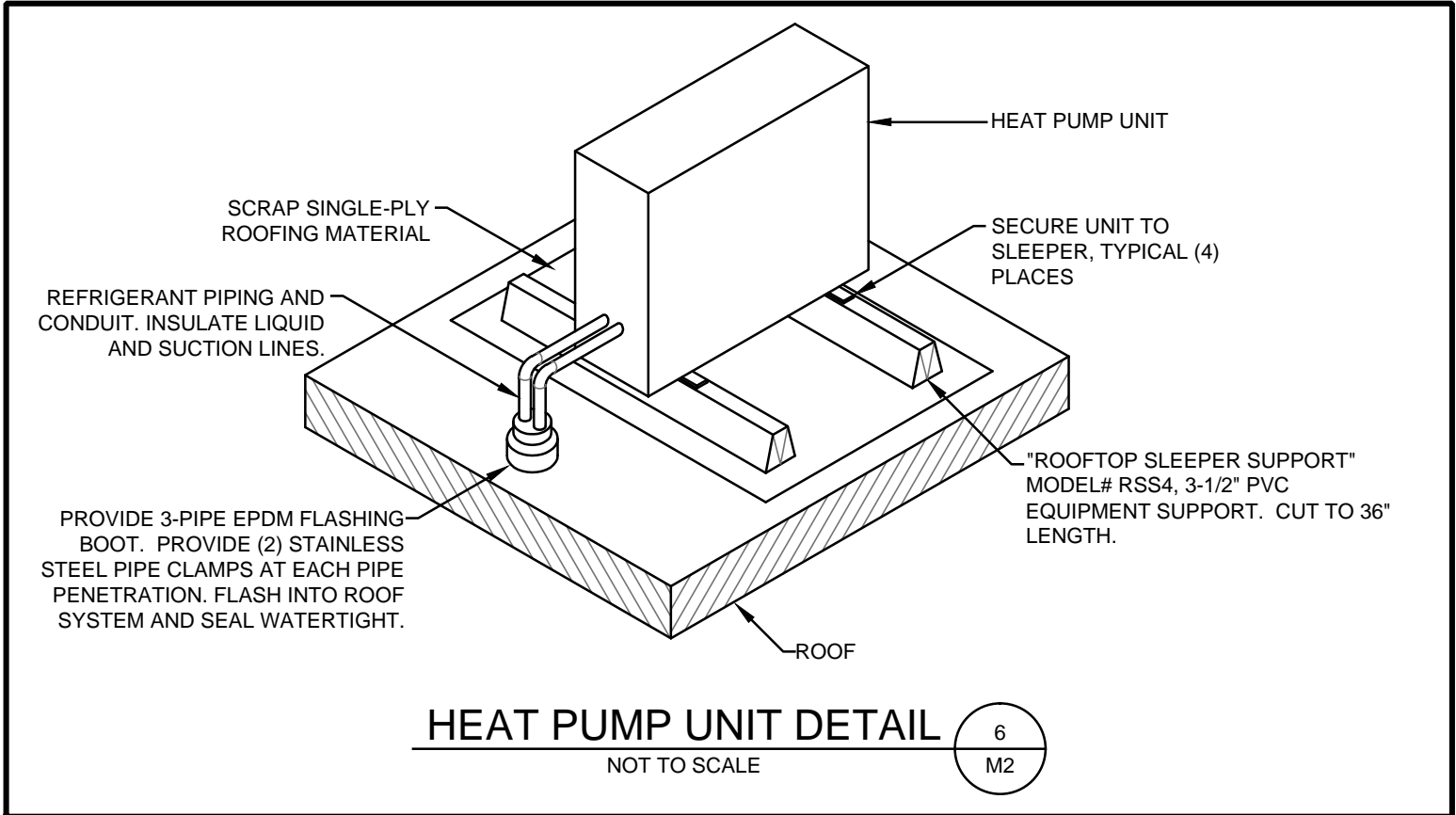
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Renovation of Suites 3 & 4
Pulmonology Suite
1002 McIntosh Circle Joplin, MO
Freeman Health System

Drawn By	zdl
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Job Number	1724
PLUMBING DETAILS & SCHEDULES	
P3	

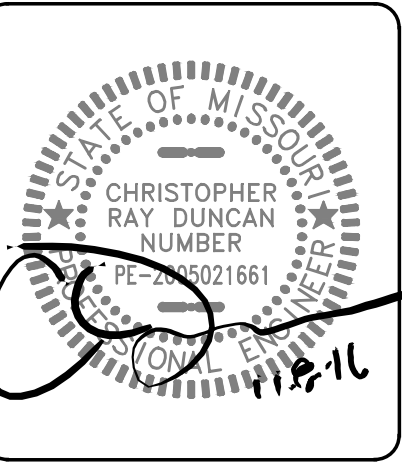




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HVAC Details	

M2

FAN SCHEDULE														
MARK	DESCRIPTION	MFR.	MODEL #	AIRFLOW (CFM)	ESP (IN. WC.)	RPM (MAX)	SONES	DRIVE TYPE	MOTOR HP/(W)	ELEC. (V/PH)	WEIGHT (LB.)	CONTROL	ACCESSORIES	REMARKS
EF-1	ROOF MTD. EXHAUST FAN	COOK	100C15DH	500	0.5	1,406	9.1	DIRECT	0.125	120/1	30	LIGHTS/ SEE ELEC	BD,DS,RC,SC	--
EF-2	ROOF MTD. EXHAUST FAN	COOK	70C15DH	100	0.25	1,257	3.2	DIRECT	0.05	120/1	20	CONTINUOUS	BD,DS,RC,SC	--
GENERAL NOTES										ABBREVIATIONS				
1. APPROVED MANUFACTURERS: COOK, GREENHECK, ACME, CARNES										BD: BACKDRAFT DAMPER DS: FACTORY INSTALLED DISCONNECT SWITCH RC: 14" INSULATED ROOF CURB SC: SPEED CONTROLLER				

PACKAGED HEAT PUMP UNIT SCHEDULE															
MARK	MFR.	MODEL #	NOMINAL CLG/HTG CAPACITY (BTU/H)	COOLING EFF.	HEATING CAPACITY (KW)	SUPPLY FAN		ELECTRICAL			OUTSIDE AIRFLOW (CFM)	APPROX. WEIGHT (LB.)	ACCESSORIES	REMARKS	
						AIRFLOW (CFM)	ESP (IN. WC.)	HP	VOLTS/ PHASE	MCA					MOCP
RTU-1	YORK	XN048	48,000	14 SEER	15.9	1,600	0.5	1-1/2	208/3	89.4	90	200	750	AP,HG,EA FR,OA,RC,TS	--
RTU-2	YORK	XYE07	72,000	12 EER	24.8	2,400	1.0	2.9	208/3	111.2	125	300	1000	AP,HG,EA FR,OA,RC,SD,TS	1
GENERAL NOTES								ABBREVIATIONS							
1. PROJECT SHALL BE BID WITH YORK PACKAGED EQUIPMENT. THE CONTRACTOR MAY PROVIDE SUBSTITUTE INFORMATION TO THE OWNER FOR CONSIDERATION POST BID BUT SHOULD BE PREPARED TO FURNISH SPECIFIED PRODUCT. 2. UNIT SHALL BE RATED IN ACCORDANCE WITH ARI STANDARDS. 3. UNIT WEIGHT SHOWN INCLUDES CURB WEIGHT. 4. COMPRESSORS SHALL BE SCROLL TYPE UNLESS OTHERWISE SPECIFIED. 5. SPECIFIED HEATING FUEL: NATURAL GAS REMARKS 1. 2-STAGE COOL AND 2-STAGE HEAT								AP: HINGED & TOOLLESS FILTER, MOTOR AND ELECTRICAL ACCESS PANELS SD: RETURN DUCT SMOKE DETECTOR HS: HAIL GUARDS EA: THROUGH THE BASE ELECTRICAL UTILITY ACCESS FR: 2" FILTER RACK OA: MOTORIZED OUTSIDE AIR DAMPER 0% THROUGH %50, WITH HOOD AND SCREEN RC: INSULATED "ADAPTER" ROOF CURB TO FIT EXISTING 96"x72" OPENING (APPROXIMATE DIMENSIONS, FIELD VERIFY) TS: 7-DAY PROGRAMMABLE THERMOSTAT WITH ADJUSTABLE HEAT PUMP LOCKOUT, CLEAR TAMPER RESISTANT COVER AND AVERAGING TEMPERATURE SENSOR							

AIR DEVICE SCHEDULE									
MARK	DESCRIPTION	MFR.	MODEL #	FUNCTION	MOUNTING	DAMPER	MATERIAL	FINISH	REMARKS
S1	LOUVERED RECT. DIFFUSER-SQUARE NECK	KRUEGER	5SH	SUPPLY	LAY-IN	YES	ALUMINUM	WHITE	--
S2	LOUVERED RECT. DIFFUSER-SQUARE NECK	KRUEGER	5SH	SUPPLY	LAY-IN	YES	ALUMINUM	WHITE	6
S3	LOUVERED RECT. DIFFUSER-SQUARE NECK	KRUEGER	5SH	SUPPLY	LAY-IN	YES	ALUMINUM	WHITE	2
S4	LINEAR BAR GRILLE	KRUEGER	1500	SUPPLY	SURFACE	YES	ALUMINUM	WHITE	--
R1	PERFORATED GRILLE-SQUARE NECK	KRUEGER	6490	RETURN	LAY-IN	NO	STEEL	WHITE	--
R2	PERFORATED GRILLE-SQUARE NECK	KRUEGER	6490	RETURN	LAY-IN	NO	STEEL	WHITE	5
E1	PERFORATED GRILLE-SQUARE NECK	KRUEGER	6490	EXHAUST	LAY-IN	YES	ALUMINUM	WHITE	5
E2	FIXED LOUVERED GRILLE	KRUEGER	S585	EXHAUST	SURFACE	YES	ALUMINUM	WHITE	1,3,4
GENERAL NOTES							REMARKS		
1. APPROVED MANUFACTURERS: KRUEGER, ANEMOSTAT, PRICE, TITUS, CARNES, TUTTLE AND BAILEY, NAILOR 2. PROVIDE SQUARE TO ROUND ADAPTERS AS REQUIRED. 3. LAY-IN DIFFUSER NECK SIZES SHALL BE AS SHOWN ON THE PLANS. DIFFUSER PANEL SIZE SHALL BE 24x24. 4. LAY-IN DIFFUSER THROWS ARE TO BE AS SHOWN ON THE PLANS. REFER TO THE HVAC LEGEND FOR DIFFUSER THROW DESIGNATIONS. 5. DAMPERS SHALL BE THE OPPOSED BLADE TYPE. 6. GRILLE/DIFFUSER DAMPERS ARE INTENDED FOR USE BY THE TENANT AND ARE NOT TO BE USED FOR INITIAL BALANCING.							1. HORIZONTAL FRONT BLADES. 2. 2-WAY DISCHARGE AIR PATTERN "D2" 3. 3/4" BLADE SPACING. 4. 0" BLADE DEFLECTION 5. 24x12 PANEL SIZE 6. 2-WAY DISCHARGE AIR PATTERN "2"		

MINI-SPLIT SYSTEM SCHEDULE							
MARK	MFR.	MODEL #	NOMINAL CLG/HTG CAPACITY (BTU/H)	ELECTRICAL			ACCESSORIES
				VOLTS/ PHASE	MCA	MOCP	
MFC-1 (FAN COIL)	MITSUBISHI	INDR:SLZ:KA12NA (CEILING CASSETT) OTDR:SUZ:KA12NA	12,000	208/1	12	15	TS
MHP-1 (HP UNIT)							
GENERAL NOTES				ABBREVIATIONS			
1. APPROVED MANUFACTURERS: MITSUBISHI, SANYO & DAIKIN				TS: WIRED WALL MOUNT CONTROLLER			
2. UNIT SHALL BE RATED IN ACCORDANCE WITH AHRI STANDARDS							
3. SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS. INSULATE SUCTION LINES WITH 1/2" ARMAFLEX.							
4. INDOOR UNIT POWERED FROM CIRCUIT SERVING OUTDOOR UNIT.							

TEST AND BALANCE

A. HVAC SYSTEM TEST AND BALANCE SHALL BE PERFORMED BY AN INDEPENDENT AGENCY.

B. THIS AGENCY SHALL BE CERTIFIED BY THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) OR BY THE AMERICAN AIR BALANCE COUNCIL (AABC). FIVE (5) COPIES OF THE FINAL BALANCING REPORT SHALL BE SUBMITTED ON APPLICABLE NEBB REPORTING FORMS FOR REVIEW. EACH INDIVIDUAL FINAL REPORTING FORM SUBMITTED SHALL BEAR THE NAME OF THE PERSON WHO RECORDED THE DATA AND THE SEAL OF THE SUPERVISOR OF THE PERFORMING FIRM.

C. HVAC SYSTEMS WILL BE TESTED AND BALANCED BY AN INDEPENDENT AGENCY RETAINED BY THE OWNER.

D. THE INDEPENDENT TESTING AND BALANCING AGENCY (TAB) SHALL PERFORM THE BALANCING AND TESTING OF THE HVAC IN ACCORDANCE WITH THE PROCEDURES OF AABC OR NEBB TO ANALYZE, BALANCE, ADJUST AND TEST AIR MOVING EQUIPMENT AND AIR DISTRIBUTION SYSTEM.

E. FLOW RATES SHALL BE BALANCED TO WITHIN 10% OF THE DESIGN FLOW RATES.

F. THE CONTRACTOR SHALL PUT ALL HEATING, VENTILATING AND AIR CONDITIONING SYSTEMS AND EQUIPMENT INTO OPERATION AND SHALL CONTINUE THE OPERATION OF SAME DURING EACH WORKING DAY OF TESTING AND BALANCE AND SHALL PLACE THE AUTOMATIC TEMPERATURE CONTROL SYSTEM IN SATISFACTORY OPERATION BEFORE THE TAB AGENCY SHALL BEGIN WORK.

G. PRIOR TO THE FINAL ACCEPTANCE OF THE HVAC SYSTEM BY THE ENGINEER, THE CONTRACTOR SHALL ALLOW THE TAB AGENCY TO SCHEDULE THIS WORK IN COOPERATION WITH OTHER TRADES INVOLVED AND COMPLY WITH THE COMPLETION DATE OF THE PROJECT.

H. THE CONTRACTOR SHALL SCHEDULE THE FOLLOWING NECESSARY PERSONNEL:

1. MECHANICS - TO OPERATE, ADJUST, REPLACE OR REPAIR THE HVAC EQUIPMENT THAT IS FOUND REQUIRING ANY CHANGE/REPLACEMENT IN THE PULLEYS, BELTS, DAMPERS, VALVES, ETC., OF CONTRACTOR'S FURNISHED AND INSTALLED EQUIPMENT.
2. ELECTRICIAN - TO ASSIST IN ANY PROBLEMS RESULTING FROM ANY OF THE POWER OR CONTROL WIRING INSTALLATION, INCLUDING REPLACEMENT OF STARTERS, AND HEATER ELEMENTS.
3. THE CONTRACTOR SHALL MAKE ANY CHANGES IN PULLEYS, BELTS AND DAMPERS OR THE ADDITION OF DAMPERS AS REQUIRED FOR CORRECT BALANCE OF THE SYSTEM AS RECOMMENDED BY TAB AGENCY, AT NO COST TO OWNER.

I. THE CONTRACTOR SHALL MAKE ALL NECESSARY CORRECTIONS WITHIN 48 HOURS UPON NOTIFICATION OF TAB AGENCY OF THE DEFICIENCIES REQUIRING ADJUSTMENT, (PIECE-MEAL CORRECTION IS NOT ACCEPTABLE) AND WITHIN 10 WORKING DAYS FOR ITEMS THAT REQUIRE REPLACEMENT OR INSTALLATION.

J. THE CONTRACTOR SHALL HAVE ALL AIR FILTERS REPLACED PRIOR TO THE START OF TESTING AND BALANCING ACTIVITY.

K. IF THE CONTRACTOR HAD SCHEDULED THE TAB AGENCY TO PERFORM THE WORK AND THE HVAC SYSTEMS ARE NOT READY TO BE TESTED AND BALANCED, ANY ADDITIONAL COST REQUIRED TO EXTEND THE TAB WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.

SEQUENCE OF OPERATIONS

<p>THERMOSTAT</p> <p>THE EVAPORATOR FAN AND BURNER(S)/COMPRESSOR(S) SHALL CYCLE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE.</p>
<p>TEMPERATURE SENSOR</p> <p>WHERE A UNIT SERVES MULTIPLE SPACES THE SPACE TEMPERATURE SHALL BE CALCULATED BY AVERAGING THE TEMPERATURE AT THE THERMOSTAT AND ALL ASSOCIATED TEMPERATURE SENSORS.</p>
<p>CO2 SENSOR & MOTORIZED DAMPER</p> <p>WHERE SHOWN ON PLANS PROVIDE A WALL OR DUCT MOUNT SENSOR. SENSOR SHALL OPEN MOTORIZED DAMPER TO SCHEDULED AIRFLOW WHEN CO2 LEVELS RISE ABOVE 1000PPM (ADJUSTABLE).</p>
<p>GENERAL</p> <ol style="list-style-type: none">1. CHANGEOVER BETWEEN HEATING AND COOLING SHALL BE AUTOMATIC IN THE OCCUPIED AND UNOCCUPIED MODES.2. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR INITIAL PROGRAMMING OF THE OCCUPANCY SCHEDULE AND NIGHT SETBACK TEMPERATURES.3. THE NIGHT SETBACK TEMPERATURE SHALL NOT VARY FROM THE OCCUPIED SETPOINT BY MORE THAN 10°F (ADJUSTABLE).4. WHEN EQUIPPED THE UNIT SHALL SHUT DOWN IF THE DUCT SMOKE DETECTOR SENSES SMOKE IN THE RETURN AIR DUCT.

DUCT CONSTRUCTION SCHEDULE				
RECTANGULAR DUCT CONSTRUCTION MINIMUM METAL GAUGES				
MAXIMUM SIDE	GALVANIZED STEEL	PERIMETER HALF	HANGER STRAP	
THROUGH 12" 13" THROUGH 30"	26 GAUGE 24 GAUGE	P/2 = 30" P/2 = 72"	1"x22 GAUGE 1"x18 GAUGE	
ROUND DUCT CONSTRUCTION MINIMUM METAL GAUGES				
DIAMETER	LONGITUDINAL SEAM	SPIRAL SEAM	FITTINGS	HANGER STRAP
THROUGH 12" 13" THROUGH 30"	26 GAUGE 24 GAUGE	28 GAUGE 26 GAUGE	26 GAUGE 24 GAUGE	1"x22 GAUGE 1"x18 GAUGE
DUCT HANGER CONSTRUCTION AND SPACING REQUIREMENTS				
HANGER STRAPS FASTEN TO STRUCTURE MAXIMUM 10' CENTERS				
DUCTWORK INSULATION				
WRAP DUCTWORK WITH 1.5" THICK, 0.75 LBCU FT DENSITY DUCT WRAP (R=5.1) EQUAL TO OWENS CORNING "SOFT" DUCT WRAP. FLEXIBLE DUCT SHALL HAVE AN EQUAL OR GREATER R-VALUE.				
GENERAL REQUIREMENTS				
<div>1. CONSTRUCTION: ALL DUCTWORK AND HANGERS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS. DUCT DIMENSIONS SHOWN ON THE PLANS ARE THE INSIDE CLEAR DIMENSIONS. UNLESS INDICATED OTHERWISE, ALL DUCTWORK SHALL BE GALVANIZED STEEL.</div> <div>2. SEALANT: ALL DUCT JOINTS AND SEAMS SHALL BE SEALED WITH A WATER-BASED BRUSH ON DUCT SEALER ONLY TO UNITED MCGILL DUCT SEALER.</div> <div>3. TAPE: TAPE SHALL BE UL LISTED ALUMINUM DUCT TAPE.</div> <div>4. FLEXIBLE DUCTWORK: DUCT SHALL BE UL LISTED CLASS 1 PRE-INSULATED FLEX DUCT. FLEXIBLE DUCTWORK SHALL BE CONSTRUCTED WITH AN ACOUSTICAL TRANSPARENT CPE FABRIC SUPPORTED BY A GALVANIZED STEEL MECHANICALLY LOCKED HELIX. WIRE HELIX TYPE CORE SUPPORT NOT ACCEPTABLE. INSULATION SHALL BE COVERED WITH A REINFORCED ALUMINUM PIGMENTED VAPOR BARRIER. FLEXIBLE DUCT TO BE "FLEXMASTER USA" TYPE 8M ONLY, OR SUBMIT A SAMPLE TO THE ENGINEER FOR AN ALTERNATE APPROVED EQUAL. FLEXIBLE DUCT SHALL BE USED FOR FINAL CONNECTION TO AIR DEVICE AND SHALL NOT EXCEED 6'-0" IN LENGTH.</div> <div>5. FITTINGS: INSTALL TURNING VANES IN ALL RECTANGULAR ELBOWS GREATER THAN 45°. ALL BRANCH DUCTS SHALL HAVE A 45° ENTRY AT THE MAIN TRUNK DUCT.</div> <div>6. TAKE-OFF FITTINGS: BRANCH DUCT TAKE-OFF FITTINGS SHALL BE MINIMUM 26 GAUGE GALVANIZED STEEL WITH FLANGE CONNECTOR AND ADHESIVE NEOPRENE GASKET. FLANGE SHALL BE PRE-DRILLED FOR SECURING TO DUCT WITH SCREWS. BRANCH DUCT TAKE-OFF FITTINGS FOR SUPPLY AND EXHAUST DIFFUSERS/REGISTERS SHALL INCLUDE AN INTEGRAL MANUAL VOLUME DAMPER W/LOOKING QUADRANT. DAMPER NOT REQUIRED ON RETURN AIR TAKE-OFF FITTINGS TO BE "BUCKLEY" MODEL ATM & ATMD OR EQUAL. WHERE DUCT HEIGHT REQUIRES A RECTANGULAR TO ROUND TAKE-OFF, UTILIZE A "BUCKLEY" MODEL 3300 & 3300D OR EQUAL.</div> <div>7. EXHAUST DUCTWORK DOES NOT REQUIRE INSULATION.</div>				

HVAC DEMOLITION	
ALL EXISTING HVAC EQUIPMENT AND ASSOCIATED DUCTWORK, GAS PIPING, ELECTRICAL WIRING AND DEVICES IN THE WORK AREA SHALL BE REMOVED UNLESS OTHERWISE INDICATED ON THIS PLAN. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR ALL EQUIPMENT REMOVED.	

GENERAL NOTES	
1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2012 EDITION OF THE INTERNATIONAL MECHANICAL CODE.	
2. DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL PLANS OR FIELD MEASUREMENTS FOR DIMENSIONS.	
3. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE COMPLETE SET OF PLANS FOR WORK PERTAINING TO HIS DISCIPLINE.	
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE AND FUNCTIONAL SYSTEM IN ACCORDANCE WITH THE INTENT OF THE PLANS, WHETHER OR NOT EVERY ELEMENT THEREOF IS SPECIFICALLY CALLED OUT.	
5. THE CONTRACTOR SHALL COOPERATE AND COORDINATE HIS WORK WITH THE WORK OF OTHER SUBCONTRACTORS OF THE PROJECT. COORDINATION DOES NOT MEAN "I WAS HERE FIRST".	
6. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL DEVICES REQUIRED TO ACHIEVE THE SEQUENCE OF OPERATIONS.	
7. ALL ROOF AND WALL PENETRATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR. PROVIDE ALL REQUIRED SLEEVES, FLASHINGS, CURBS, REINFORCING ANGLES, SUPPORTING FRAMES, ETC. UNLESS THEY ARE SPECIFICALLY CALLED OUT TO BE FURNISHED BY OTHERS.	
8. THE HVAC SYSTEM SHALL BE BALANCED BY THE CONTRACTOR TO WITHIN 10% OF THE DESIGN FLOW RATES AND A TEST REPORT SHALL BE SUBMITTED TO THE ENGINEER'S OFFICE. A CERTIFIED TEST & BALANCE IS NOT REQUIRED. HOWEVER, THE TEST PROCEDURES AND RESULTING REPORT SHALL FOLLOW NEBB STANDARDS.	
9. THE ELECTRICAL SYSTEM DESIGN IS BASED IN PART ON THE SPECIFIED HVAC EQUIPMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE ELECTRICAL REQUIREMENTS OF THE HVAC EQUIPMENT BEING FURNISHED. ANY CHANGES TO THE ELECTRICAL SYSTEM DUE TO HVAC EQUIPMENT OTHER THAN THE SPECIFIED EQUIPMENT BEING FURNISHED SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.	
10. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING A BID.	
11. THE CONTRACTOR SHALL SCHEDULE AND EXECUTE ALL WORK WITH REGARD TO THE OWNER'S USE OF THE BUILDING DURING PERIOD OF CONSTRUCTION. VERIFY ALL POSSIBLE SCHEDULING CONFLICTS WITH THE OWNER'S REPRESENTATIVE.	
12. CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC. INSULATE PIPING WITH 1/2" AP ARMAFLEX (UNSLIT TUBES). SEAL JOINTS PER MANUFACTURER'S RECOMMENDATIONS.	
Last Modification	
DATE	INITIALS

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Missouri Certificate of Authority: A-2008008317

STATE OF MISSOURI
NOTARY PUBLIC
CHRISTOPHER RAY DUNCAN
NUMBER 000021661
EXPIRES 08/2016

1-8-16

Renovation of Suites 3 & 4
Pulmonology Suite

1002 McIntosh Circle Joplin, MO
Freeman Health System

Drawn By
cdd

Checked By
cdd/knc

Date
10/14/16

Scale
As Noted

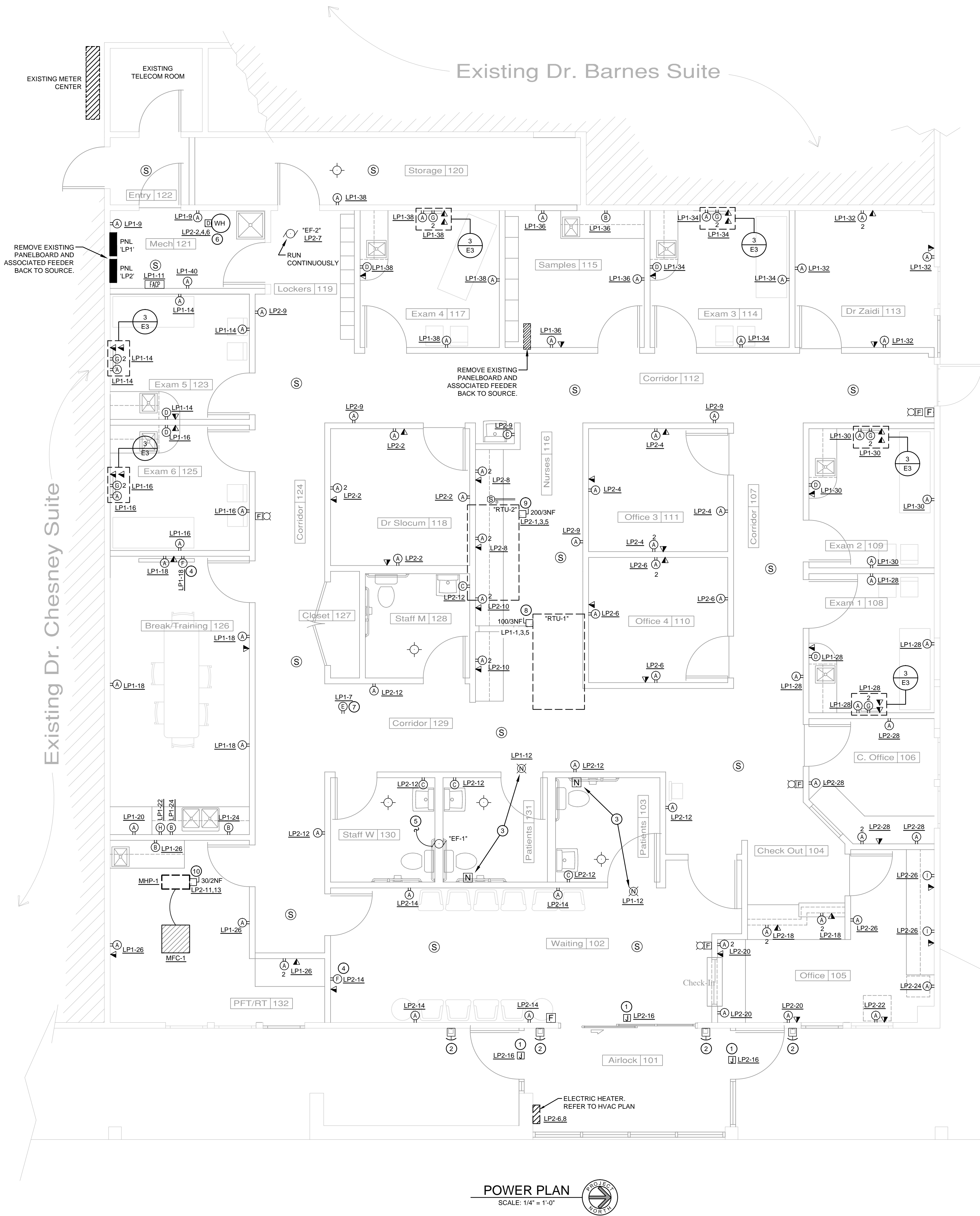
Job Number
1724

HVAC Schedules
& Details

M3



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MISSOURI COA: E-2014013301



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

KEY NOTES

- INDICATED BY SYMBOLS ①, ②, ETC.
- JUNCTION BOX FOR POWER SUPPLY TO ELECTRICALLY OPERATED DOOR. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER'S SPECIFICATIONS AND PROVIDE ACCORDINGLY.
 - WALL-MOUNTED PUSHBUTTON FOR DOOR OPERATOR. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER'S SPECIFICATIONS AND PROVIDE ACCORDINGLY.
 - PROVIDE 4X4 OUTLET BOX FOR NURSE CALL PULL-STATION AND INDICATOR LIGHT. COORDINATE EXACT REQUIREMENTS AND LOCATION OF PULL-STATION AND LIGHT AS DIRECTED BY OWNER AND PROVIDE AS REQUIRED. DERIVE POWER FROM NON-SWITCHED RESTROOM LIGHT FIXTURE CIRCUITRY.
 - COORDINATE DEVICE MOUNTING HEIGHT AT TELEVISION / MONITOR LOCATION WITH OWNER PRIOR TO ROUGH-IN. INCLUDE CABLE SERVICE ROUGH-IN.
 - DERIVE POWER FOR EXHAUST FAN FROM SWITCHED CORRIDOR LIGHTING CIRCUITRY.
 - PROVIDE DIRECT CONNECTION TO WATER HEATER.
 - MAINTENANCE RECEPTACLE MOUNTED ON ROOF WITHIN 25 FEET OF ROOF-TOP EQUIPMENT.
 - PROVIDE 'SQUARE D' NEMA-3R 100-AMP, 3-POLE, NON-FUSED DISCONNECT AT ROOFTOP UNIT.
 - PROVIDE 'SQUARE D' NEMA-3R 200-AMP, 3-POLE, NON-FUSED DISCONNECT AT ROOFTOP UNIT.
 - PROVIDE 'SQUARE D' NEMA-3R 30-AMP, 2-POLE, NON-FUSED DISCONNECT AT HEAT PUMP.

FIRE ALARM

FIRE ALARM SYSTEM AND DEVICES ARE INDICATED HEREIN AS A GENERAL BASIS OF DESIGN. THE CONTRACTOR SHALL OBTAIN EXACT FIRE ALARM SYSTEM REQUIREMENTS FROM SYSTEM MANUFACTURERS REPRESENTATIVE WITH A MINIMUM OF NICET LEVEL III CERTIFICATION, AND UTILIZE SUCH TO INCLUDE INSTALLATION AND SYSTEM COST WITHIN BID. CONTRACTOR SHALL SUBMIT FIRE ALARM SYSTEM SHOP DRAWINGS FOR REVIEW BY DESIGN TEAM, FIRE MARSHAL, AND/OR OTHER AUTHORITY HAVING JURISDICTION. ACCEPTABLE FIRE ALARM SYSTEM MANUFACTURERS ARE HONEYWELL (SILENT KNIGHT), NOTIFIER, AND SIMPLEX-GRINNELL.

ELECTRICAL DEMOLITION

- REMOVE ALL EXISTING FIXTURES, DEVICES, EQUIPMENT AND ASSOCIATED WIRING IN CONFLICT WITH CONSTRUCTION.
- FIXTURES, DEVICES, EQUIPMENT AND ASSOCIATED WIRING THAT ARE REMOVED REMAIN PROPERTY OF THE OWNER UNLESS REJECTED BY THE OWNER IN WRITING.
- EXISTING OUTLET BOXES AND CONDUIT MAY BE USED AS LOCATION PERMITS.
- PATCH AND REPAIR WHERE REQUIRED BY REMOVAL OF EXISTING ELECTRICAL ITEMS.

RECEPTACLE SCHEDULE

	MOUNTING HEIGHT	COLOR	WALLPLATE	FEATURES							COVER		NEMA	NOTE
				GFCI	TR	IG	SS	HG	USB	WP	WPI			
A	18"	OFFICE WHITE	NYLON	-	-	-	-	-	-	-	-	-	5-20	
B	AC	OFFICE WHITE	NYLON	X	-	-	-	-	-	-	-	-	5-20	
C	48"	OFFICE WHITE	NYLON	X	-	-	-	-	-	-	-	-	5-20	
D	18"	OFFICE WHITE	NYLON	X	-	-	-	-	-	-	-	-	5-20	
E	ROOF	GRAY	-	X	-	-	-	-	-	-	X	-	5-20	
F	VERIFY	OFFICE WHITE	NYLON	-	-	-	-	-	-	-	-	-	5-20	2
G	54"	OFFICE WHITE	NYLON	-	-	-	-	-	-	-	-	-	5-20	2
H	60"	OFFICE WHITE	NYLON	X	-	-	-	-	-	-	-	-	5-20	1
I	AC	OFFICE WHITE	NYLON	-	-	-	-	-	-	-	-	-	5-20	

UNLESS NOTED 'AC', THE RECEPTACLE MOUNTING HEIGHT IS TO THE DEVICE MID-POINT MEASURED ABOVE THE ASSOCIATED FLOOR, STAIR TREAD, STAIR LANDING, OR PLATFORM.

WALLPLATE COLOR SHALL MATCH RECEPTACLE COLOR UNLESS OTHERWISE NOTED.

AC DEVICE MID-POINT AT 4" ABOVE COUNTER, OR COUNTER BACKSPLASH IF PRESENT
S/S STAINLESS STEEL
GFCI GROUND FAULT CIRCUIT INTERRUPTER
TR TAMPER RESISTANT
IG ISOLATED GROUND
SS SURGE SUPPRESSION
HG HOSPITAL GRADE
USB USB CHARGING
WP WEATHERPROOF
WPI WEATHERPROOF IN-USE

- NOTES:
1. COORDINATE MOUNTING WITH MICROWAVE LOCATION AND CABINETRY.
2. MOUNTING HEIGHT OF TELEVISION OR MONITOR RECEPTACLE TO BE CONFIRMED WITH OWNER.



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Revisions	By
Last Modification	
DATE	INFLS

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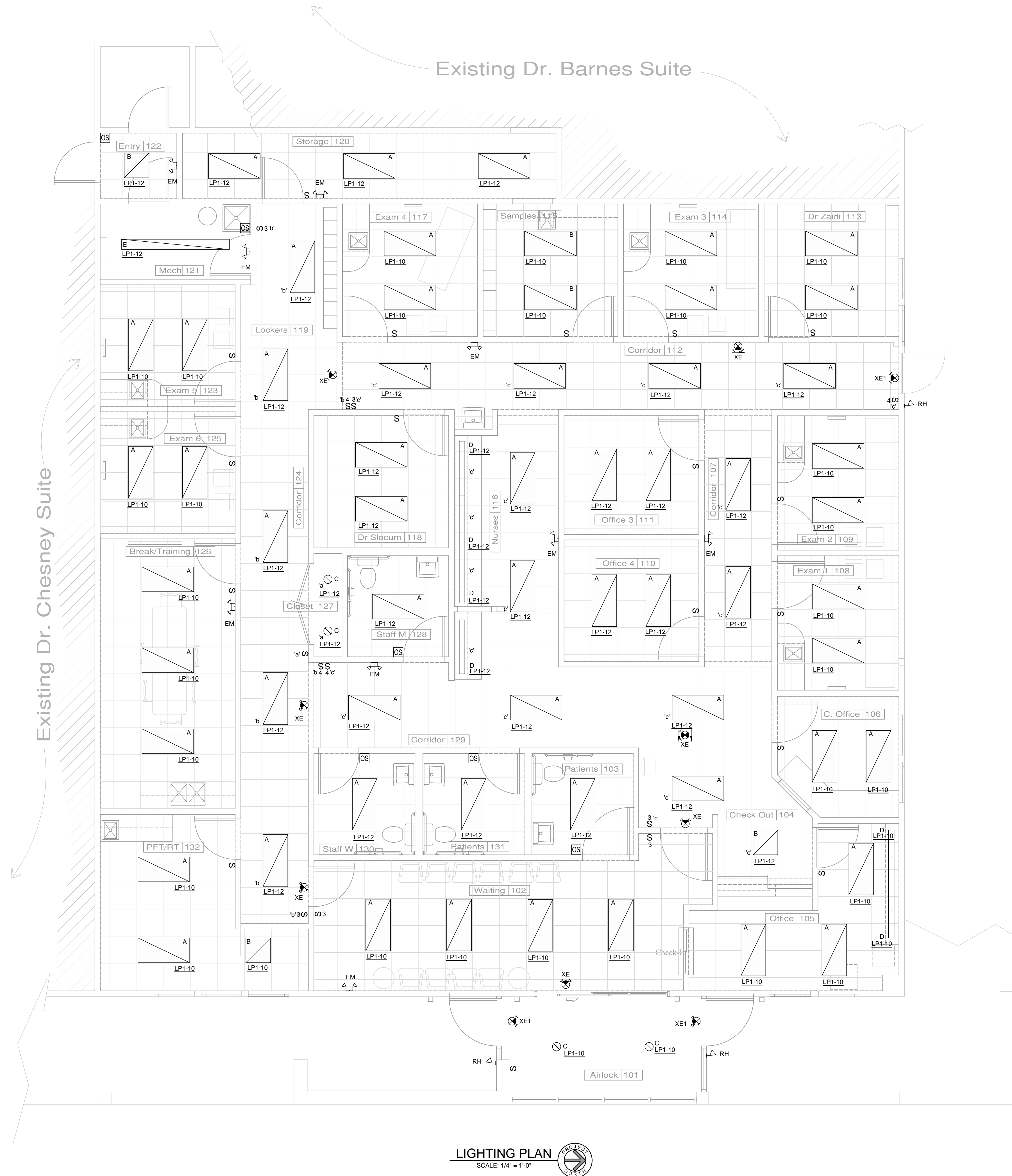
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Renovation of Suites 3 & 4
Pulmonology Suite
1002 McIntosh Circle Joplin, MO
Freeman Health System

Drawn By czd
Checked By crd / kns
Date 10/14/16
Scale As Noted
Job Number 1724
Power Plan

E1



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

GENERAL PLAN NOTES

1. LIGHT SWITCH/OCCUPANCY SENSOR SWITCH LOCATIONS SHALL BE CONFIRMED WITH ARCHITECT AND/OR OWNER PRIOR TO INSTALLATION.
2. EXIT AND/OR EMERGENCY LIGHT FIXTURES SHALL BE CONNECTED TO "HOT" UNSWITCHED LEG OF CIRCUIT SERVING NEAREST LIGHT FIXTURE.
3. LIGHT SWITCH(ES), WALL MOUNT OCCUPANCY SENSOR SWITCH(ES), AND/OR CEILING MOUNT OCCUPANCY SENSOR(S) ARE INTENDED TO CONTROL THE LIGHT FIXTURE(S) IN CORRESPONDING ROOM/AREA.

Revisions	By
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DATE	INITIALS

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Renovation of Suites 3 & 4
Pulmonology Suite
1002 McIntosh Circle Joplin, MO
Freeman Health System

Drawn By	cdl
Checked By	cdl/knc
Date	10/14/16
Scale	As Noted
Job Number	1724

Lighting Plan
E2

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LIGHT FIXTURE SCHEDULE										
MARK	MANUFACTURER	CATALOG NUMBER	FINISH	MOUNTING	TYPE	VOLTS	WATTS	LAMPS	NOTES	NOTES
A	LSI	ELFP24-LED-40-UE	WHITE	LAY-IN W/CLIPS	LED	120	45	BY MANUFACTURER	2	1. MANUFACTURERS OF ALTERNATIVE FIXTURES WITH SIMILAR QUALITY, FUNCTION, SIZE, AND AESTHETICS ARE LIMITED TO: ACUTY, COLUMBIA, EATON, HUBBELL, PHILLIPS, AND H.E. WILLIAMS. 2. PROVIDE BASIS-OF-DESIGN FIXTURE UNLESS APPROVAL OF ALTERNATIVE FIXTURE(S) HAS BEEN ISSUED PRIOR TO PROJECT BID DATE. REQUESTS FOR APPROVAL OF ALTERNATIVE FIXTURES MUST BE RECEIVED BY DESIGN ENGINEER A MINIMUM OF SEVEN WORKING DAYS PRIOR TO BID DATE. 3. REQUESTS FOR APPROVAL OF ALTERNATIVE FIXTURE(S) MUST BE ACCOMPANIED WITH PHOTOMETRIC CALCULATIONS.
B	LSI	ELFP22-LED-40-UE	WHITE	LAY-IN W/CLIPS	LED	120	36	BY MANUFACTURER	2	
C	LSI	PDL6K-LED-08-40-120WH-PDLK HSG NC	WHITE	RECESSED	LED	120	14	BY MANUFACTURER	2	
D	H.E. WILLIAMS	1SF-4-L24/840-AF12125-WRS/120-DRV-120	WHITE	SURFACE	LED	120	29	BY MANUFACTURER	2	
E	H.E. WILLIAMS	76-4-L64/840-DRV-120	WHITE	SURFACE/SUSPENDED	LED	120	96	BY MANUFACTURER	2	
EM	MULE	SQ-80-LED-W	WHITE	WALL - 7' A.F.F	LED	120	2	BY MANUFACTURER	2	
EX	MULE	SQC-LED-U-WW	WHITE	WALL - 7' A.F.F	LED	120	4	BY MANUFACTURER	2	
EXI	MULE	SQC-LED-U-WW-REM	WHITE	WALL - 8' A.F.F.	LED	120	4	BY MANUFACTURER	2	
RH	MULE	RLEDC-1-WP	WHITE	WALL - 8' A.F.F.	LED	120	4	BY MANUFACTURER	2	
										ABBREVIATIONS
										A.F.F. ABOVE FINISHED FLOOR
										A.D.F. ABOVE DOOR/WINDOW FRAME
										T.O.F. TOP OF FIXTURE
										C.O.F. CENTER OF FIXTURE
										B.O.F. BOTTOM OF FIXTURE

CONDUCTORS AND CONDUIT SCHEDULE						
OVERCURRENT PROTECTION DEVICE RATING	CONDUCTORS	EQUIPMENT GROUNDING CONDUCTOR	SINGLE PHASE 2-WIRE + GND CONDUIT SIZE	SINGLE PHASE 3-WIRE + GND CONDUIT SIZE	THREE PHASE 3-WIRE + GND CONDUIT SIZE	THREE PHASE 4-WIRE + GND CONDUIT SIZE
15 AMP	14 AWG	14 AWG	1/2"	1/2"	1/2"	1/2"
20 AMP	12 AWG	12 AWG	1/2"	1/2"	1/2"	1/2"
25 AMP	10 AWG	10 AWG	1/2"	1/2"	1/2"	1/2"
30 AMP	10 AWG	10 AWG	1/2"	1/2"	1/2"	1/2"
35 AMP	8 AWG	10 AWG	1/2"	3/4"	3/4"	3/4"
40 AMP	8 AWG	10 AWG	1/2"	3/4"	3/4"	3/4"
45 AMP	8 AWG	10 AWG	1/2"	3/4"	3/4"	3/4"
50 AMP	8 AWG	10 AWG	1/2"	3/4"	3/4"	3/4"
60 AMP	6 AWG	10 AWG	3/4"	3/4"	3/4"	1"
70 AMP	4 AWG	8 AWG	3/4"	1"	1"	1-1/4"
80 AMP	4 AWG	8 AWG	3/4"	1"	1"	1-1/4"
90 AMP	3 AWG	8 AWG	1"	1"	1"	1-1/4"
100 AMP	3 AWG	8 AWG	1"	1"	1"	1-1/4"
110 AMP	2 AWG	6 AWG	1"	1-1/4"	1-1/4"	1-1/4"
125 AMP	1 AWG	6 AWG	1-1/4"	1-1/4"	1-1/4"	1-1/2"
150 AMP	1/0 AWG	6 AWG	1-1/4"	1-1/2"	1-1/2"	1-1/2"
175 AMP	2/0 AWG	6 AWG	1-1/4"	1-1/2"	1-1/2"	2"
200 AMP	3/0 AWG	6 AWG	1-1/4"	2"	2"	2"
225 AMP	4/0 AWG	4 AWG	1-1/2"	2"	2"	2-1/2"
250 AMP	250 kcmil	4 AWG	2"	2"	2"	2-1/2"
300 AMP	350 kcmil	4 AWG	2"	2-1/2"	2-1/2"	2-1/2"
350 AMP	500 kcmil	3 AWG	2-1/2"	2-1/2"	2-1/2"	3"
400 AMP	600 kcmil	3 AWG	2-1/2"	3"	3"	3-1/2"
NOTE: CONDUCTOR SIZES BASED ON COPPER, TYPE THHN, WITH THREE (MAXIMUM) CURRENT-CARRYING CONDUCTORS IN MINIMUM SIZED EMT. CONDUIT SIZES SHALL BE INCREASED AT CONTRACTOR'S DISCRETION, OR FOR CONDUIT MATERIALS OTHER THAN EMT AS REQUIRED. CONDUCTORS SHALL BE DERATED IF FOUR OR MORE CURRENT-CARRYING CONDUCTORS ARE PLACED IN A RACEWAY OR CABLE. WHERE PLANS INDICATE UP-SIZED CONDUCTORS DUE TO VOLTAGE DROP, THE EQUIPMENT GROUNDING CONDUCTOR SIZE SHALL BE INCREASED PROPORTIONATELY.						

PANELBOARD SCHEDULE - LP1							
200 AMP	MAIN BREAKER	120/208 VOLTS	3 PHASE	MFR.	SQUARE D	TYPE	NQ
FLUSH	SURFACE	X	BRANCH MOUNTING SPACE	42	10K AIC MINIMUM		WIDTH 20
DESCRIPTION	LOAD (VA)	BKR. SIZE	CIRC. NO.	CIRC. NO.	BKR. SIZE	LOAD (VA)	DESCRIPTION
RTU-1	32,184	90A/3P	1	2	30A/2P	4500	WATER HEATER
			3	4			
			5	6	-	-	SPACE
ROOF MAINTENANCE RECEPTACLES	360	20A/1P	7	8	15A/2P	2000	HEATER
RECEPTACLES-MECH. RM.	360	20A/1P	9	10			
FACP	500	20A/1P	11	12	20A/1P	1472	LIGHTING
-	-	-	13	14	20A/1P	1454	LIGHTING
-	-	-	15	16	20A/1P	1080	RECEPTACLES-EXAM RM.
-	-	-	17	18	20A/1P	1080	RECEPTACLES-EXAM RM.
-	-	-	19	20	20A/1P	900	RECEPTACLES-TRAIN/BRK. RM
-	-	-	21	22	20A/1P	600	REFRIGERATOR
-	-	-	23	24	20A/1P	1800	MICROWAVE
-	-	-	25	26	20A/1P	1800	SMALL APPLIANCE
-	-	-	27	28	20A/1P	900	RECEPTACLES
-	-	-	29	30	20A/1P	1080	RECEPTACLES-EXAM RM.
-	-	-	31	32	20A/1P	1080	RECEPTACLES-EXAM RM.
-	-	-	33	34	20A/1P	900	RECEPTACLES-OFFICE
-	-	-	35	36	20A/1P	1080	RECEPTACLES-EXAM RM.
-	-	-	37	38	20A/1P	720	RECEPTACLES-SAMPLES
-	-	-	39	40	20A/1P	1260	RECEPTACLES-EXAM RM.
-	-	-	41	42	20A/1P	180	RECEPTACLE-MECH. RM.

PANELBOARD SCHEDULE - LP2							
200 AMP	MAIN BREAKER	120/208 VOLTS	3 PHASE	MFR.	SQUARE D	TYPE	NQ
FLUSH	SURFACE	X	BRANCH MOUNTING SPACE	42	10K AIC MINIMUM		WIDTH 20
DESCRIPTION	LOAD (VA)	BKR. SIZE	CIRC. NO.	CIRC. NO.	BKR. SIZE	LOAD (VA)	DESCRIPTION
RTU-2	40,032	125A/3P	1	2	20A/1P	1080	RECEPTACLES-OFFICE
			3	4	20A/1P	1080	RECEPTACLES-OFFICE
			5	6	20A/1P	900	RECEPTACLES-OFFICE
EXHAUST FAN EF-2	180	15A/1P	7	8	20A/1P	720	RECEPTACLES-NURSE STATION
GEN. USE RECEPTACLES	720	20A/1P	9	10	20A/1P	720	RECEPTACLES-NURSE STATION
MFC-1/MHP-1	2496	15A/2P	11	12	20A/1P	1440	GEN. USE RECEPTACLES
			13	14	20A/1P	720	GEN. USE RECEPTACLES
SPARE	-	20A/1P	15	16	20A/1P	180	ELECT. OPERATED DOOR(S)
SPARE	-	20A/1P	17	18	20A/1P	720	RECEPTACLES-OFFICE
SPARE	-	20A/1P	19	20	20A/1P	720	RECEPTACLES-OFFICE
SPARE	-	20A/1P	21	22	20A/1P	500	PRINTER
SPARE	-	20A/1P	23	24	20A/1P	500	SHREDDER
SPARE	-	20A/1P	25	26	20A/1P	540	RECEPTACLES-OFFICE
-	-	-	27	28	20A/1P	900	RECEPTACLES-OFFICE
-	-	-	29	30	-	-	-
-	-	-	31	32	-	-	-
-	-	-	33	34	-	-	-
-	-	-	35	36	-	-	-
-	-	-	37	38	-	-	-
-	-	-	39	40	-	-	-
-	-	-	41	42	-	-	-

GENERAL ELECTRICAL NOTES

- ELECTRICAL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, 2011 EDITION.
- DO NOT SCALE THESE DRAWINGS. OBTAIN DIMENSIONS FROM ARCHITECTURAL PLANS AND/OR FIELD CONDITIONS. COORDINATE LOCATION OF DEVICES AND FIXTURES WITH ARCHITECTURAL PLANS AND ELEVATIONS.
- CONDUCTORS SHALL BE INSULATED COPPER, ROUTED WITHIN CONDUIT OR METAL CABLE ASSEMBLY. BRANCH CIRCUITS AND FEEDERS SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR ROUTED WITH THE CIRCUIT CONDUCTORS, SIZED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE ARTICLE 250.
- CONDUIT BELOW GRADE SHALL BE PVC. EXTERIOR CONDUIT ABOVE GRADE SHALL BE RMC. INTERIOR CONDUIT ABOVE SLAB SHALL BE EMT. CONCEAL ALL CONDUIT IN FINISHED SPACES UNLESS NOTED OTHERWISE.
- MC CABLE IS ALLOWED FOR BRANCH CIRCUITRY WITHIN STUD WALLS, AND FOR 60" LENGTH (MAX.) CONNECTIONS TO FIXTURES OR EQUIPMENT. MC CABLE SHALL NOT BE CONNECTED TO SOURCE PANELBOARD.
- DISCONNECT SWITCHES SHALL BE GENERAL DUTY UNLESS OTHERWISE NOTED, NEMA 3R IF LOCATED EXTERIOR.
- ELECTRICAL DEVICES SHALL BE EQUAL TO:

RECEPTACLES
HUBBELL BR20 SERIES
GFCI RECEPTACLES
HUBBELL GF20 SERIES
MANUAL SWITCHES
HUBBELL CSB_20 SERIES
ACCEPTED MANUFACTURERS ARE EATON, HUBBELL, LEGRAND, AND LEVITON.
- ELECTRICAL DESIGN HEREIN IS BASED IN PART ON EQUIPMENT SPECIFIED IN MECHANICAL DRAWINGS. COORDINATE ELECTRICAL REQUIREMENTS OF EQUIPMENT BEING FURNISHED, AND PROVIDE CORRECT BRANCH CIRCUIT AND OVERCURRENT PROTECTION AT NO ADDITIONAL COST TO THE OWNER. SHOULD THE LOAD OF FURNISHED EQUIPMENT RESULT IN THE NEED TO INCREASE AMPACITY OF ASSOCIATED PANELS OR FEEDERS, THAT WORK SHALL ALSO BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL INSTALL A COMPLETE AND OPERABLE SYSTEM ACCORDING TO THE INTENT OF THESE DRAWINGS, WHETHER OR NOT ELEMENTS THEREOF ARE SPECIFICALLY CALLED OUT.
- COORDINATE ALL WORK WITH OTHER TRADES TO AVOID CONFLICTS.
- FIELD VERIFY THE EXISTING CONDITIONS AND MAKE ALLOWANCES FOR THE SAME.

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DATE	INPLS

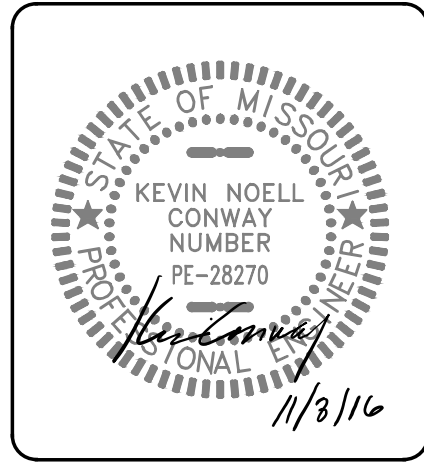
Hunter & Millard
ARCHITECTS, INC.

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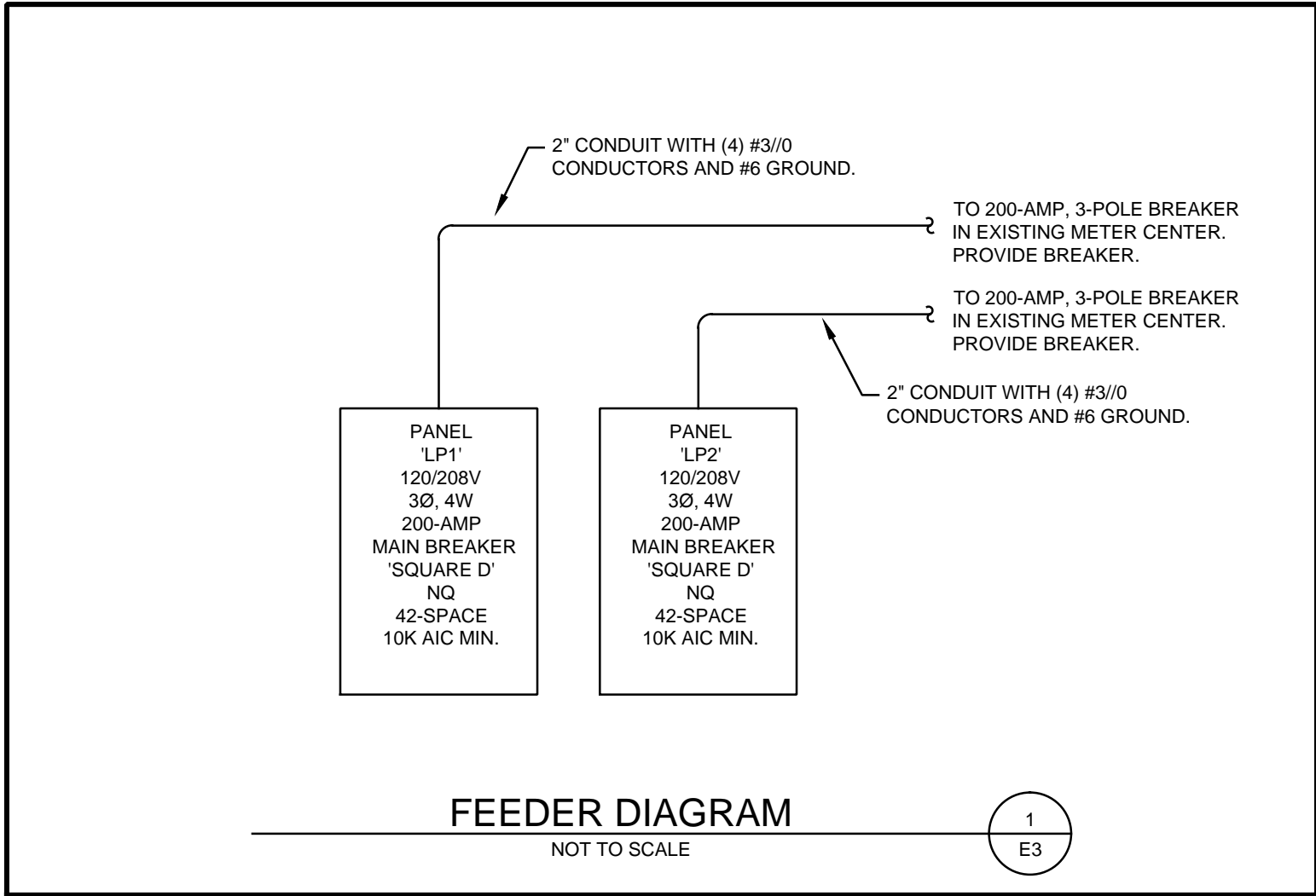
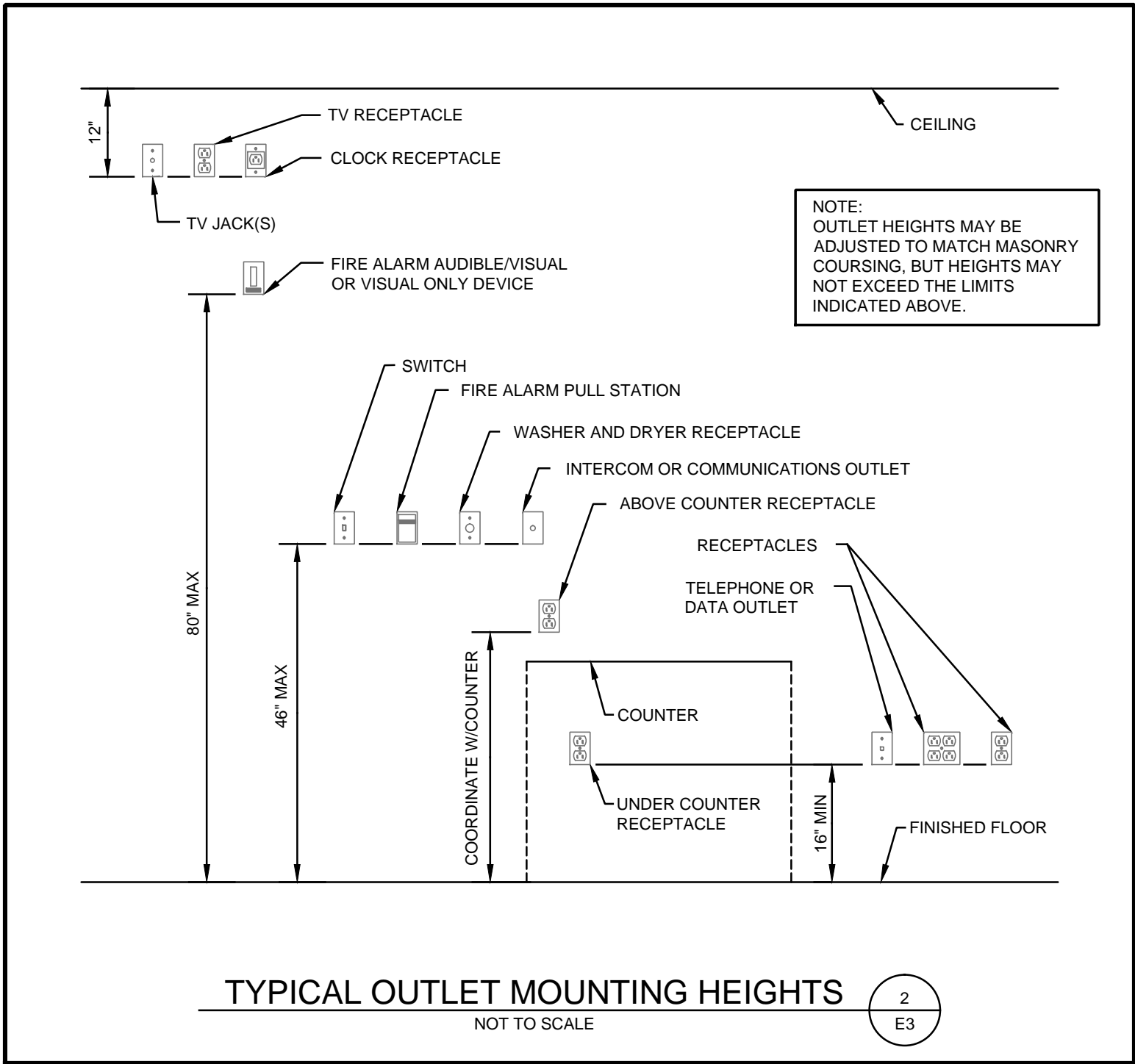
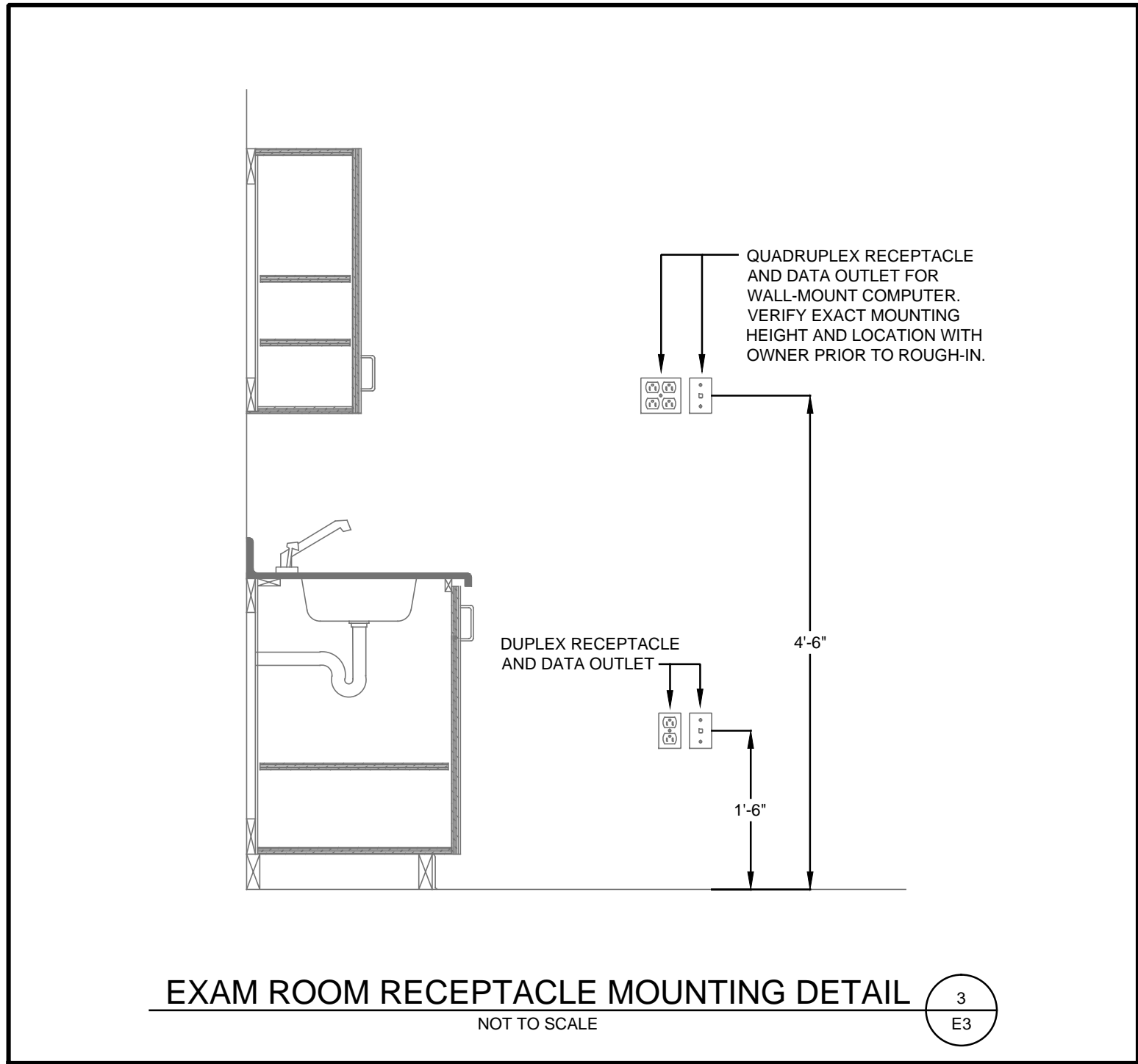
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Missouri Certificate of Authority: A-2008008317



Renovation of Suites 3 & 4
Pulmonology Suite
1002 McIntosh Circle Joplin, MO
Freeman Health System

Drawn By
c.d.
Checked By
c.d./knc
Date
10/14/16
Scale
As Noted
Job Number
1724
Electrical Schedules
& Details
E3



CONWAY DUNCAN
3015 SOUTH FORT AVENUE | SUITE D
SPRINGFIELD | MISSOURI | 65804
P: 417.881.1586 | F: 417.881.8390
MISSOURI COK: E-2014013301

1002 McIntosh Circle Joplin, MO
Freeman Health System



T1	Title Sheet & Key Plan
D1	Demolition Plan
A1	Floor Plan & Room Finish Sch.
A2	Door & Window Schedule
A3	Millwork Elevations
A4	Millwork Elevations
A5	Sections
A6	Sections

- ## Building Code Information

Project Information

Plumbing, HVAC, & Electrical Engineer:
Conway Duncan, Inc.
 3015 S Fort Ave. Suite D Springfield, Missouri 65807
 TELE: 417-881-1586 FAX: 417-881-8390
 CONTACT: Chris Duncan - Mechanical Kevin Conway-Electrical

Building Signage

NO EXTERIOR SIGNAGE WORK SHALL BE PART OF THIS WORK.
OWNER SHALL PROVIDE NEW SIGNAGE/SUITE IDENTIFICATION WORK.

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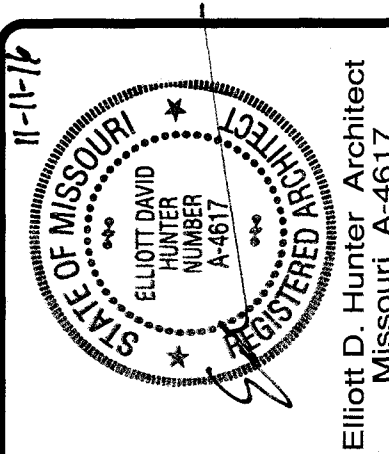
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**Renovation of Suites 3 & 4
Pulmonology Suite**
1002 McIntosh Circle Joplin, MO
Freeman Health System

Drawn By
Checked By	
Date	11/11/16
Scale	as indicated
Job Number	1624
Title Sheet	

T1

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS.
2. BY CAREFUL STUDY OF DRAWINGS AND EXISTING CONDITIONS VERIFY THE EXTENT AND LOCATION OF DEMOLITION REQUIRED.
3. SHUT OFF, CAP AND OTHERWISE PROTECT EXISTING PUBLIC UTILITY LINES IN ACCORDANCE WITH THE REQUIREMENTS OF THE PUBLIC AGENCY OR UTILITY HAVING JURISDICTION.
4. DEMOLISHED MATERIALS SHALL BE CONSIDERED THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE AGREED UPON WITH THE OWNER. ITEMS SHALL BE COMPLETELY REMOVED FROM THE SITE.
5. REMOVE WALLS, EQUIPMENT, ETC. AS INDICATED ON PLANS. COORDINATE REMOVAL WITH PLUMBING, MECHANICAL AND ELECTRICAL CONTRACTORS.
6. PATCH AND REPAIR ALL EXISTING FLOORS, CEILINGS AND WALLS DISTURBED BY DEMOLITION.
7. REMOVE ALL FLOOR COVERINGS FROM THIS SUITE.
8. REMOVE ALL CEILING SYSTEMS FROM THIS SUITE (GRID & TILE).
EXIST. CEILINGS (DRYWALL & SUSP. T-GRID) ARE APPROX. 8'-0" A.F.F.
EXIST. DRYWALL RAISED CEILINGS IN BOTH EXIST. LOBBIES ARE 9'-0" A.F.F. AT HIGHEST LEVEL.
9. MILLWORK TO BE REMOVED; VERIFY (WITH OWNER'S REP.) IF OWNER WANTS TO KEEP ANY OF THE MILLWORK SHOWN AS REM'D.
10. SEE DEMOLITION SECTION 02050 FOR MORE INFORMATION.

EXISTING WALL REMAINS IN PLACE

REMOVE EXIST. GPDW FROM WALL, STUDWALL REMAINS IN PLACE,
REPLACE INSULATION IN PARTY WALLS AND EXTERIOR WALLS
(SEE INSUL. NOTES THIS SHEET)

EXISTING WALLS, FIXTURES, DOORS, ETC. TO BE REMOVED

1. EXISTING INSULATION: ALL GPDW SHALL BE REMOVED FROM EXISTING WALLS. REMOVE EXIST. INSULATION. SCHEDULE A MEETING WITH ARCHITECT AND OWNER'S REPRESENTATIVE TO INSPECT EXIST. WALL STUDS FOR DAMAGE.
2. INSTALL R-19 BATT INSULATION IN EXIST. EXTERIOR WALLS & FULL THICKNESS SOUND BATT INSULATION IN EXIST. 2x4 STUD PARTY WALLS.



3,452 s.f.



Revisions	By

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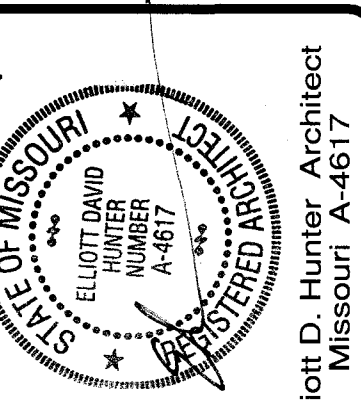
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Missouri A-4617

Renovation of Suites 3 & 4
Pulmonology Suite
1002 McIntosh Circle Joplin, MO
Freeman Health System

Drawn By

...
Checked By

Date _____

11/16
Scale

Scale
= 1'-0"

Number
624

Exist/Demo Plan

D1

(N.I.C.)	NOT IN CONTRACT. FURNISHED AND INSTALLED BY
OTHERS.	
(TYP.)	TYPICAL
(RR)	RESTROOM
(DEMO)	DEMOLITION, DEMOLISH OR REMOVE
A.F.F.	ABOVE FINISH FLOOR
F.C. GYPSDW	FIRE CODE GYPSUM DRYWALL
F.E.	FIRE EXTINGUISHER
D.F.	DRINKING FOUNTAIN
W.H.	WATER HEATER (SEE PLUMBING PLANS)
T.B.D.	TO BE DETERMINED

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS.
2. INTERIOR WALLS: METAL STUD WALL w/ 5/8" F.C. GPDW
3. SEE ROOM FINISH SCHEDULE/NOTES SHT. A2 FOR FINISHES.
4. PROVIDE ADEQUATE BLOCKING IN WALLS FOR TOILET ACCESSORIES, SHELVEING, INCL. WALL MOUNTED COMPUTER FOR EXAM ROOMS, TV, & WALL MOUNTED MONITOR IN RM. 126. OWNER TO PROVIDE CUT SHEETS w/ BLOCKING REQMTS.
5. FURNITURE AND WINDOW TREATMENTS SHALL BE (N.I.C.) NOT IN CONTRACT UNLESS OTHERWISE NOTED ON DRAWINGS.
6. WALL DIMENSIONS ARE NOMINAL:
5" ACTUAL DIMENSION 4 7/8" (FOR 3 5/8" METAL STUDS w/ 5/8" F.C. GPDW EACH SIDE)
7. MILLWORK CONTRACTOR SHALL FIELD VERIFY FINAL DIMENSIONS
8. FIRE EXTINGUISHERS: PROVIDE TWO (2) 10 POUND ABC FIRE EXTINGUISHERS WITH WALL BRACKETS - VERIFY FINAL LOCATION WITH OWNER'S REPRESENTATIVE
9. CORNER GUARDS: ALL OUTSIDE CORNERS TO HAVE 2" WIDE VINYL GUARDS.

Legend for architectural symbols and section markers:

- NEW WALL CONSTRUCTION
- NEW WALL CONST. W/ BATT INSULATION
- EXISTING WALL
- EXISTING WALL TO BE REMOVED
- VINYL PLANK FLOORING
- CARPET
- VINYL COMPOSITION TILE
- F.E. FIRE EXTINGUISHER & BRACKET
- F.E. FIRE EXTINGUISHER & CABINET
- 1 DOOR ASSEMBLY MARK
- A WINDOW MARK
- ELEVATION MARK
- SECTION/DETAIL LETTER/NUMBER
SHEET DETAIL FOUND ON
- CORNER GUARDS - SEE FLOOR PLAN NOTES #8.
- SECTION

1" = 1'-0"

Mk.	Room Name	Flooring	Base	Walls	Ceiling	Ceiling Height	Other Notes
101	Airlock	EXIST.	NONE	PAINTED GPDW	2' x 2' GRID	8'-0"	
102	Waiting Room	VINYL PLANK	VINYL BASE	PAINTED GPDW	2' x 2' GRID	8'-0"	
103	Patients RR	SHT. VINYL	INTEGRAL	RR WALL	2' x 2' GRID	8'-0"	
104	Check Out	VINYL PLANK	VINYL BASE	PAINTED GPDW	2' x 2' GRID	8'-0"	
105	Business Office	CARPET	VINYL BASE	PAINTED GPDW	2' x 2' GRID	8'-0"	
106	Office	CARPET	VINYL BASE	PAINTED GPDW	2' x 2' GRID	8'-0"	
107	Corridor	VINYL PLANK	VINYL BASE	PAINTED GPDW	2' x 2' GRID	8'-0"	
108	Exam 1	VINYL PLANK	VINYL BASE	PAINTED GPDW	2' x 2' GRID	8'-0"	
109	Exam 2	VINYL PLANK	VINYL BASE	PAINTED GPDW	2' x 2' GRID	8'-0"	
110	Dr Office 4	CARPET	VINYL BASE	PAINTED GPDW	2' x 2' GRID	8'-0"	
111	Dr Office 3	CARPET	VINYL BASE	PAINTED GPDW	2' x 2' GRID	8'-0"	
112	Corridor	VINYL PLANK	VINYL BASE	PAINTED GPDW	2' x 2' GRID	8'-0"	
113	Dr Zaidi	CARPET	VINYL BASE	PAINTED GPDW	2' x 2' GRID	8'-0"	
114	Exam 3	VINYL PLANK	VINYL BASE	PAINTED GPDW	2' x 2' GRID	8'-0"	
115	Samples	VINYL PLANK	VINYL BASE	PAINTED GPDW	2' x 2' GRID	8'-0"	
116	Nurses	VINYL PLANK	VINYL BASE	PAINTED GPDW	2' x 2' GRID	8'-0"	
117	Exam 4	VINYL PLANK	VINYL BASE	PAINTED GPDW	2' x 2' GRID	8'-0"	
118	Dr Slocum	CARPET	VINYL BASE	PAINTED GPDW	2' x 2' GRID	8'-0"	
119	Lockers	VINYL PLANK	VINYL BASE	PAINTED GPDW	2' x 2' GRID	8'-0"	
120	Storage	VCT	VINYL BASE	PAINTED GPDW	2' x 2' GRID	8'-0"	
121	Mech	SEALED CONC.	VINYL BASE	PAINTED GPDW	2' x 2' GRID	8'-0"	
122	Entry	EXIST.	VINYL BASE	PAINTED GPDW	2' x 2' GRID	8'-0"	
123	Exam 5	VINYL PLANK	VINYL BASE	PAINTED GPDW	2' x 2' GRID	8'-0"	
124	Corridor	VINYL PLANK	VINYL BASE	PAINTED GPDW	2' x 2' GRID	8'-0"	
125	Exam 6	VINYL PLANK	VINYL BASE	PAINTED GPDW	2' x 2' GRID	8'-0"	
126	Break / Training	SHT. VINYL	INTEGRAL	PAINTED GPDW	2' x 2' GRID	8'-0"	
127	Closet	VINYL PLANK	VINYL BASE	PAINTED GPDW	2' x 2' GRID	8'-0"	
128	Staff M RR	SHT. VINYL	INTEGRAL	RR WALL	2' x 2' GRID	8'-0"	
129	Corridor	VINYL PLANK	VINYL BASE	PAINTED GPDW	2' x 2' GRID	8'-0"	
130	Staff W RR	SHT. VINYL	INTEGRAL	RR WALL	2' x 2' GRID	8'-0"	
131	Patient RR	SHT. VINYL	INTEGRAL	RR WALL	2' x 2' GRID	8'-0"	
132	PFT/RT	VINYL PLANK	VINYL BASE	PAINTED GPDW	2' x 2' GRID	8'-0"	

Floor Covering	Walls
CARPET: SEE SPEC. SECTION 09605.	PAINTED GPDW: 5/8" F.C. GPDW, LIGHT SPLATTER TEXTURE, PRIMED & PAINTED. THE EXIST. WALLS REMAINING IN PLACE WILL HAVE EXIST. GPDW REMOVED AND REPLACED WITH NEW GPDW. SEE SECTIONS 09260 & 09900
SHT. VINYL: SHEET VINYL - SEE SPEC SECTION 09650	
VINYL PLANK: SEE SPEC. SECTION 09650	
VCT: VINYL COMPOSITION TILE, 12" x 12" x 1/8". SEE SPEC. SECTION 09650.	RR WALL: PAINTED GPDW (SEE ABOVE) ON THREE WALLS, 12" x 12" WALL TILE FULL HEIGHT ON WATER WALL. SEE SPEC SECTION 09300
Wall Base	Walls
4" VINYL COVE BASE, SEE SPEC. SECTION 09650	2' x 2' GRID: NEW T-GRID W/ ACOUST. CEILING TILES, TEGULAR EDGES, WHITE, SEE SPEC. SECTION 09510
INTEGRAL: SHT. VINYL INTEGRAL BASE UP 4" ON WALL	

1. PAINTING CONTRACTOR TO PAINT H.M. DOOR FRAMES.
2. WOOD DOORS SHALL BE FACTORY FINISHED.
3. AT HANDWASHING SINK IN CORRIDOR 112, INSTALL SOLID SURFACE PANELS FROM FLOOR TO 42" A.F.F. - PANELS TO BE SOLID SURFACE MATERIAL - SIM. TO MILLWORK COUNTERTOPS - SEE MILLWORK SPEC.

1. EXIST. ROOFING SYSTEM TO REMAIN IN PLACE.
2. PROTECT EXIST. ROOFING DURING CONSTRUCTION (HVAC UNIT REPLACEMENT, EXHAUST FAN INSTALLATION). PROTECT TRAFFICWAY.
3. PATCH EXISTING ROOF AS REQUIRED AT NEW ROOF PENETRATIONS & AT REPLACEMENT OF ROOFTOP UNITS.

Revisions		By
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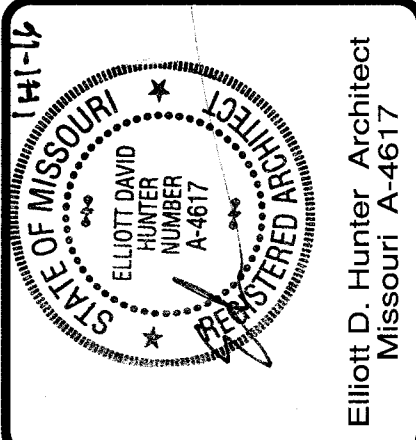
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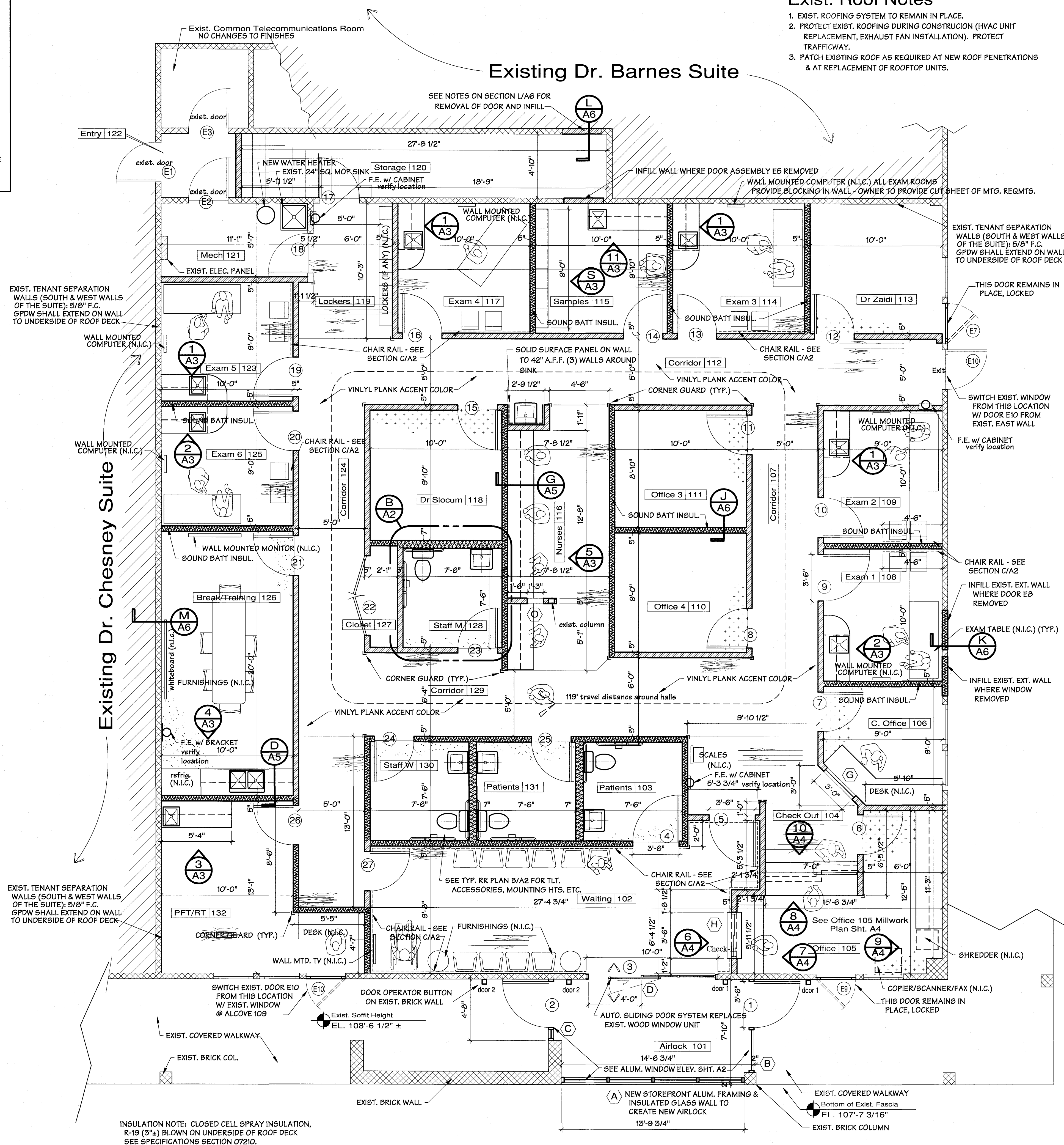
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Missouri A-4617

Renovation of Suites 3 & 4
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1002 McIntosh Circle Joplin, MO
Freeman Health System

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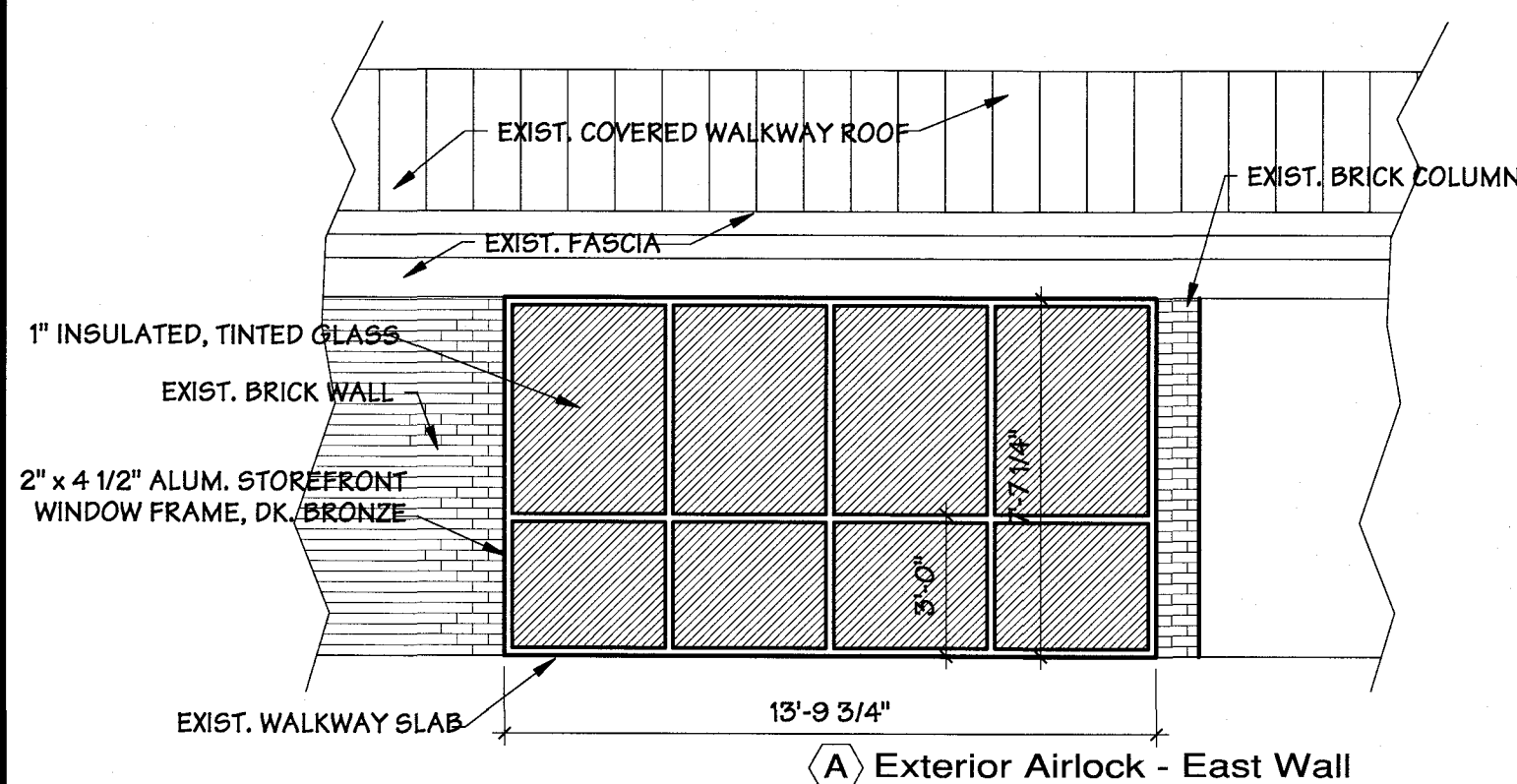
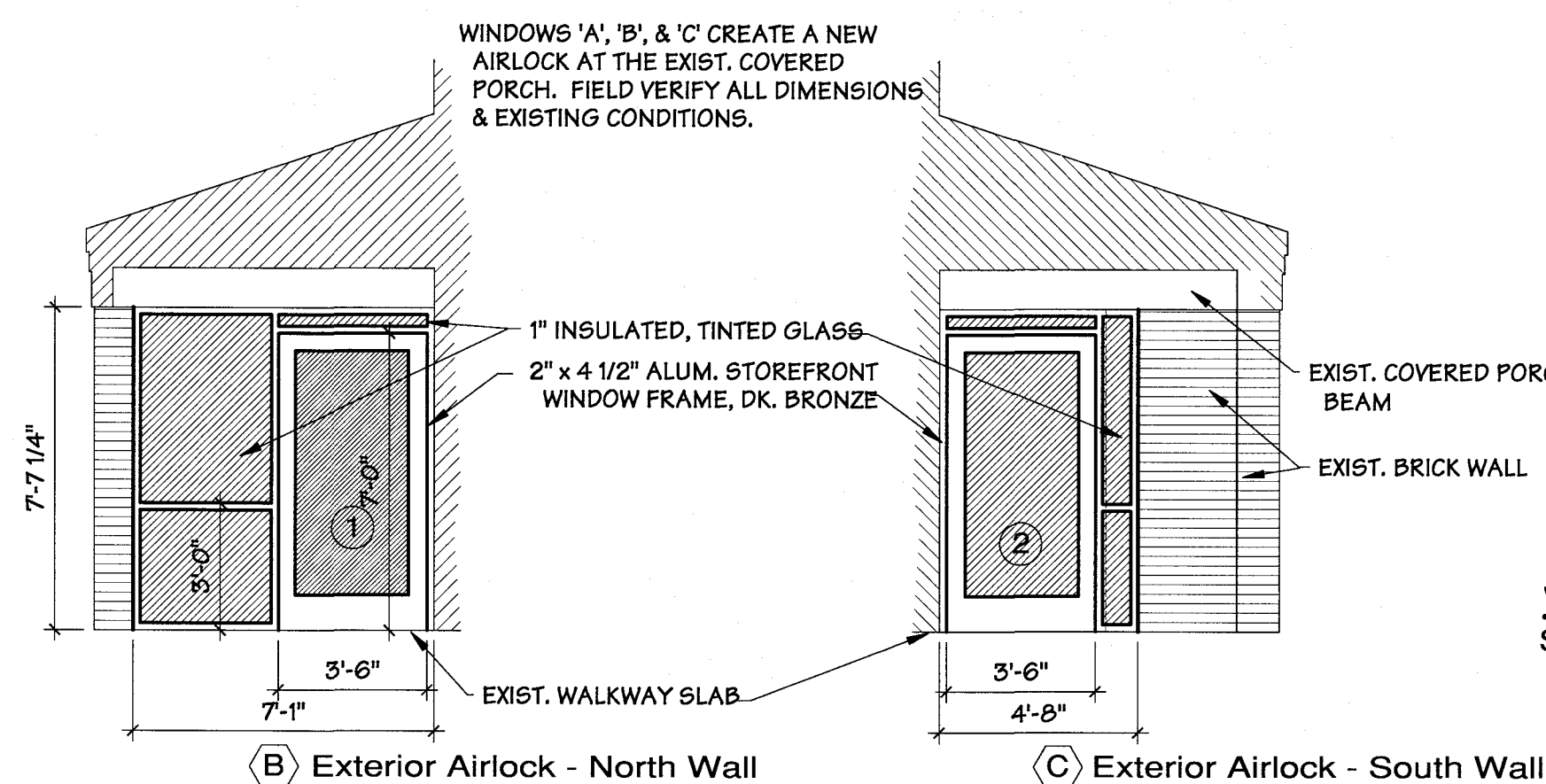
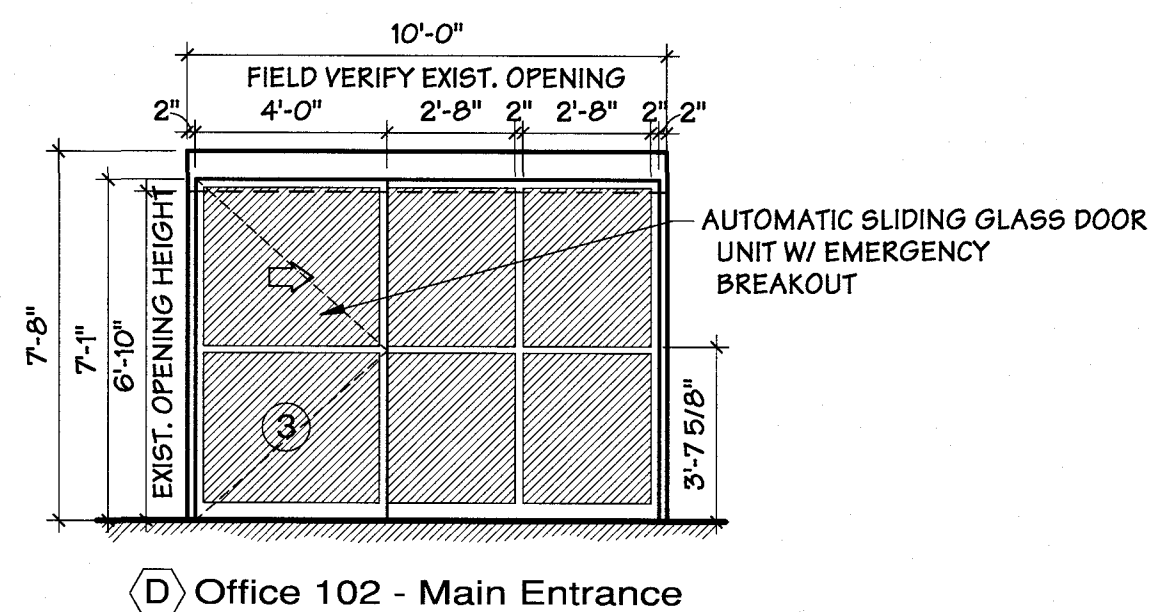
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11/11/16
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1/4" = 1'-0"
Job Number
1624
Floor Plan

A1



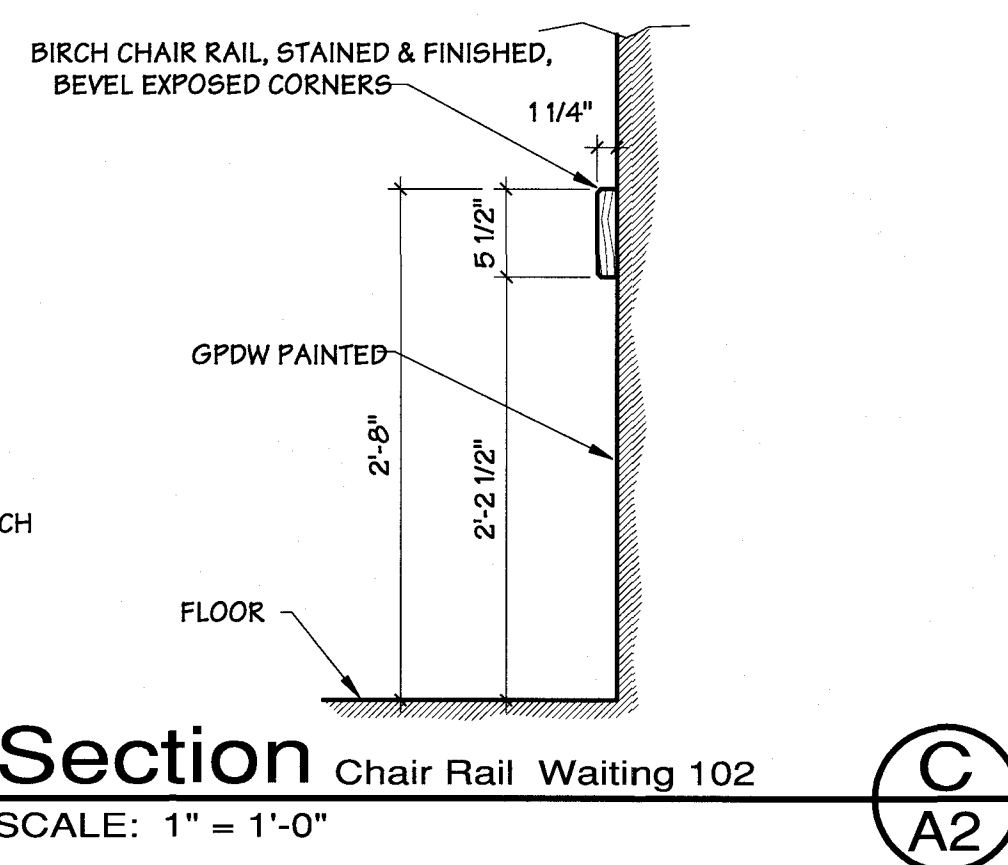
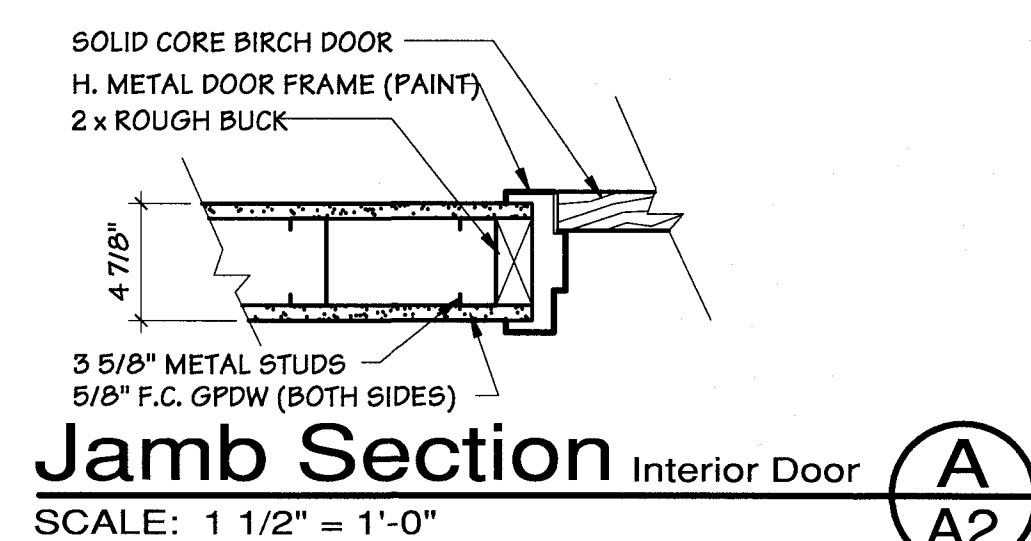
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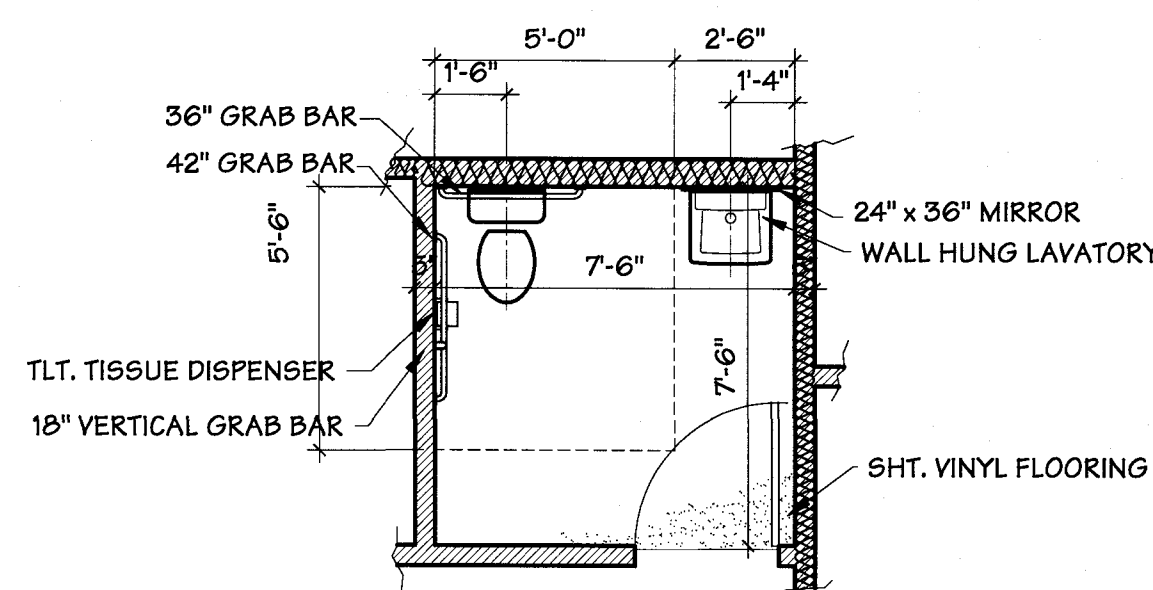
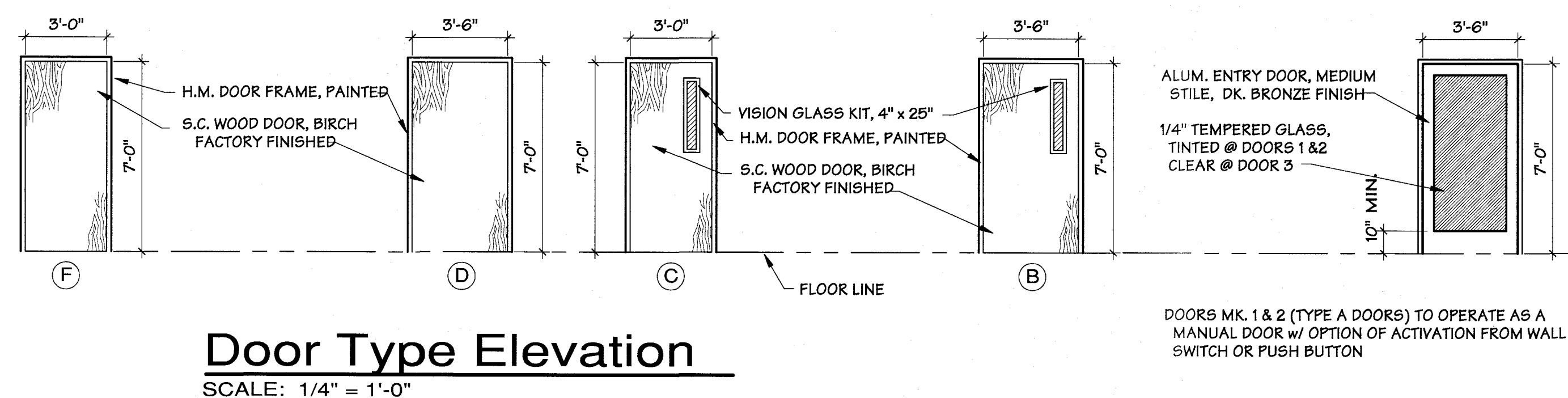
SCALE: 1/4" = 1'-0"

Other Notes
LOCKS SHALL BE KEYED PER OWNER'S REQUIREMENTS IN A MASTER KEY FORMAT.

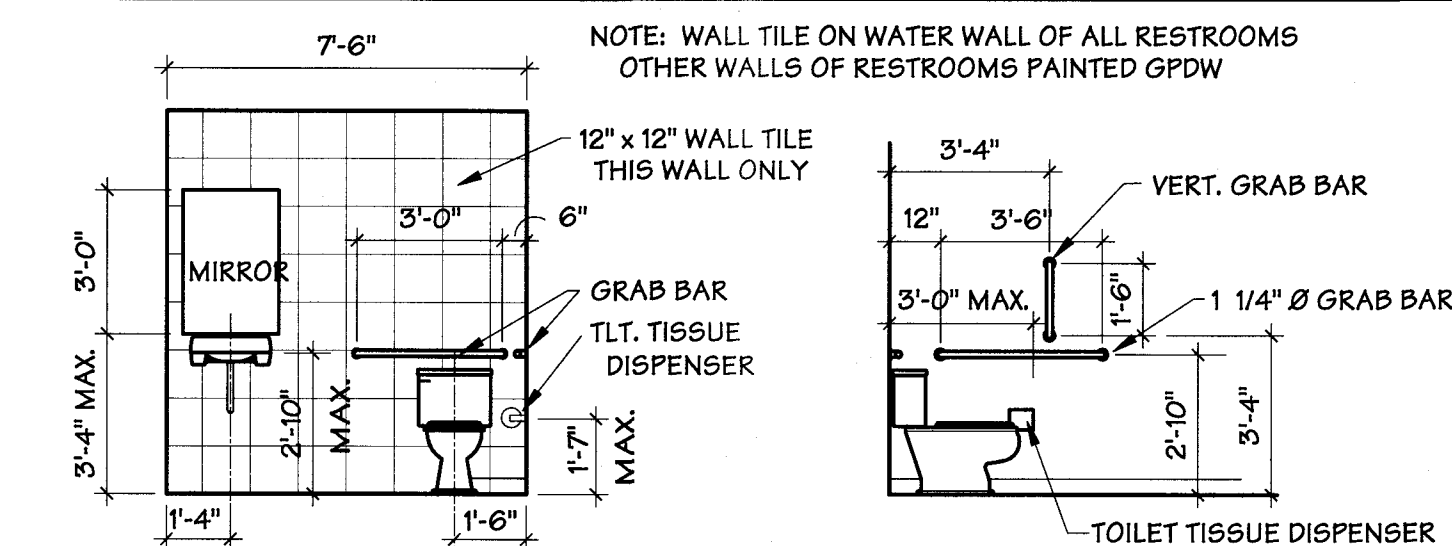


TOILET TISSUE DISPENSERS	BRADLEY DUAL ROLL CHROME PLATED FINISH SURFACE MOUNTED TO ALLOW UNOBTAINED DISPENSING
WATER CLOSET GRAB BARS	1 1/4"Ø STAINLESS STEEL, MEN'S 123 & WOMEN'S 124. NONE REQUIRED AT STAFF RR 115
MIRRORS	1/4" THICK; SEAMING EDGE. SEE PLAN AND/OR ELEVATION FOR SIZE(S).
SOAP DISPENSERS	FURNISHED BY OWNER
PAPER TOWEL DISPENSERS	FURNISHED BY OWNER, INSTALLED BY CONTRACTOR
WASTE RECEPTACLE	FURNISHED BY OWNER

Doors							Frames				Hardware						
Mk.	Room	Width	Ht.	Thick.	Material	Type	Mk.	Material	Wall Thick.	Jamb Detail	Dr.	# of Butts	Butt Type	Lock	Closer	Stop	Other
1	101	3'-6"	7'-0"	1.75"	ALUM ENTRY	A	1	STOREFRONT	EXTERIOR	---	1	AIRLOCK DOOR-1	w/ POWER ASSIST. DOOR OPERATOR				
2	101	3'-6"	7'-0"	1.75"	ALUM ENTRY	A	2	STOREFRONT	EXTERIOR	---	2	AIRLOCK DOOR-1	w/ POWER ASSIST. DOOR OPERATOR				
3	102	4'-0"	7'-8"	1.75"	SLIDING DR.	SEE (D)	3	AUTOMATIC SLIDING DOOR SYSTEM			3	AUTOMATIC SLIDING DOOR SYSTEM					
4	103	3'-6"	7'-0"	1.75"	S.C. BIRCH	D	4	HM FRAME	4 7/8"	A/A2	4	H-2	PRIVACY	NO		STOP	
5	104	3'-6"	7'-0"	1.75"	S.C. BIRCH	B	5	HM FRAME	4 7/8"	A/A2	5	H-2	PASSAGE	NO		STOP	
6	105	3'-0"	7'-0"	1.75"	S.C. BIRCH	C	6	HM FRAME	4 7/8"	A/A2	6	1.5 PAIR	H-1	LOCK-1	NO	STOP	
7	106	3'-0"	7'-0"	1.75"	S.C. BIRCH	F	7	HM FRAME	4 7/8"	A/A2	7	1.5 PAIR	H-1	LOCK-1	NO	STOP	
8	110	3'-0"	7'-0"	1.75"	S.C. BIRCH	F	8	HM FRAME	4 7/8"	A/A2	8	1.5 PAIR	H-1	LOCK-1	NO	STOP	
9	108	3'-6"	7'-0"	1.75"	S.C. BIRCH	B	9	HM FRAME	4 7/8"	A/A2	9	H-2	PASSAGE	NO	STOP		
10	109	3'-0"	7'-0"	1.75"	S.C. BIRCH	F	10	HM FRAME	4 7/8"	A/A2	10	1.5 PAIR	H-1	PASSAGE	NO	STOP	
11	111	3'-0"	7'-0"	1.75"	S.C. BIRCH	F	11	HM FRAME	4 7/8"	A/A2	11	1.5 PAIR	H-1	LOCK-1	NO	STOP	
12	113	3'-0"	7'-0"	1.75"	S.C. BIRCH	F	12	HM FRAME	4 7/8"	A/A2	12	1.5 PAIR	H-1	LOCK-1	NO	STOP	
13	114	3'-0"	7'-0"	1.75"	S.C. BIRCH	F	13	HM FRAME	4 7/8"	A/A2	13	1.5 PAIR	H-1	PASSAGE	NO	STOP	
14	115	3'-0"	7'-0"	1.75"	S.C. BIRCH	F	14	HM FRAME	4 7/8"	A/A2	14	1.5 PAIR	H-1	LOCK-1	NO	STOP	
15	118	3'-0"	7'-0"	1.75"	S.C. BIRCH	F	15	HM FRAME	4 7/8"	A/A2	15	1.5 PAIR	H-1	LOCK-1	NO	STOP	
16	117	3'-0"	7'-0"	1.75"	S.C. BIRCH	F	16	HM FRAME	4 7/8"	A/A2	16	1.5 PAIR	H-1	PASSAGE	NO	STOP	
17	120	3'-0"	7'-0"	1.75"	S.C. BIRCH	F	17	HM FRAME	4 7/8"	---	17	1.5 PAIR	H-1	LOCK-1	NO	STOP	
18	121	3'-0"	7'-0"	1.75"	S.C. BIRCH	F	18	HM FRAME	4 7/8"	---	18	1.5 PAIR	H-1	LOCK-1	NO	STOP	
19	123	3'-0"	7'-0"	1.75"	S.C. BIRCH	F	19	HM FRAME	4 7/8"	A/A2	19	1.5 PAIR	H-1	PASSAGE	NO	STOP	
20	125	3'-0"	7'-0"	1.75"	S.C. BIRCH	F	20	HM FRAME	4 7/8"	A/A2	20	1.5 PAIR	H-1	PASSAGE	NO	STOP	
21	126	3'-0"	7'-0"	1.75"	S.C. BIRCH	C	21	HM FRAME	4 7/8"	A/A2	21	1.5 PAIR	H-1	PASSAGE	NO	STOP	
22	127	pr 3'-0"	7'-0"	1.75"	S.C. BIRCH	F (slm)	22	HM FRAME	4 7/8"	A/A2	22	3 PAIR	H-1	LOCK-1	NO	STOP	
23	128	3'-0"	7'-0"	1.75"	S.C. BIRCH	F	23	HM FRAME	4 7/8"	A/A2	23	1.5 PAIR	H-1	PRIVACY	NO	STOP	
24	130	3'-0"	7'-0"	1.75"	S.C. BIRCH	F	24	HM FRAME	4 7/8"	A/A2	24	1.5 PAIR	H-1	PRIVACY	NO	STOP	
25	131	3'-0"	7'-0"	1.75"	S.C. BIRCH	F	25	HM FRAME	4 7/8"	A/A2	25	1.5 PAIR	H-1	PRIVACY	NO	STOP	
26	132	3'-0"	7														



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



1. LAVATORY MOUNTING HEIGHT SHALL BE 34" MAXIMUM ABOVE FINISH FLOOR WITH EDGE. 27" MIN. KNEE SPACE BELOW LEADING EDGE.
2. WATER CLOSET FLUSH HANDLE SHALL BE ON THE OPEN SIDE (NOT WALL SIDE)
3. BLOCKING FOR GRAB BARS: 2x6 MIN. MUST BE CAPABLE OF SUPPORTING A VERTICAL OR HORIZONTAL LOAD OF 250 POUNDS.

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

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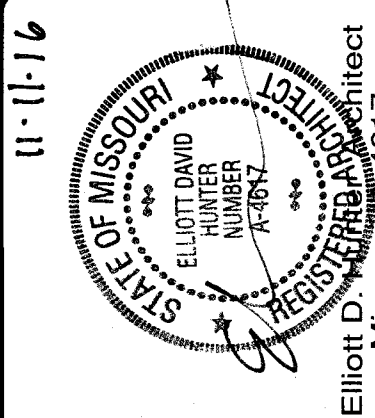
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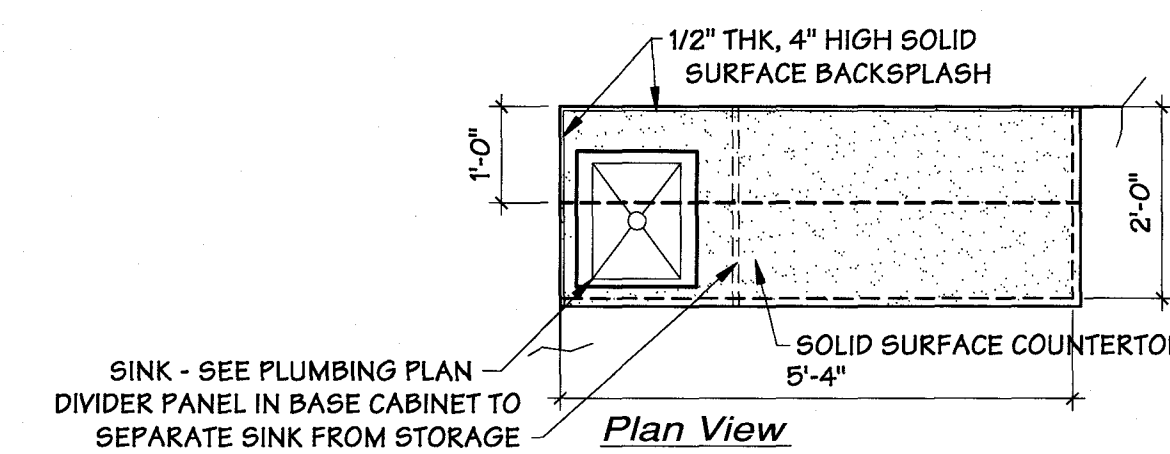
Missouri Certificate of Authority: A-2008008317



Renovation of Suites 3 & 4
Pulmonology Suite
1002 McIntosh Circle Joplin, MO
Freeman Health System

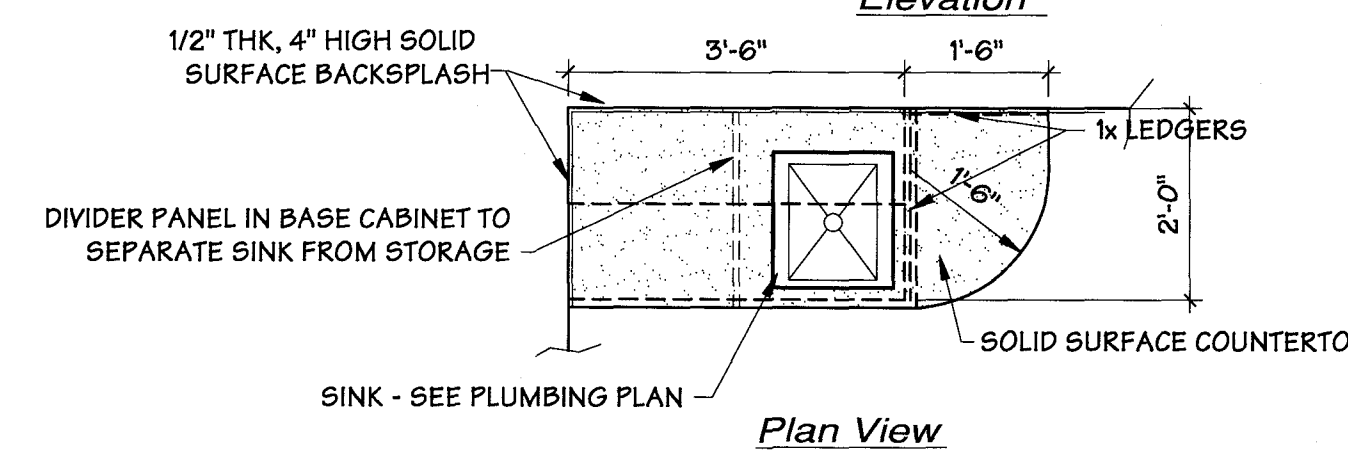
Drawn By
....
Checked By
Date
11/11/16
Scale
1/4" = 1'-0"
Job Number
1624
s & Windows

A2



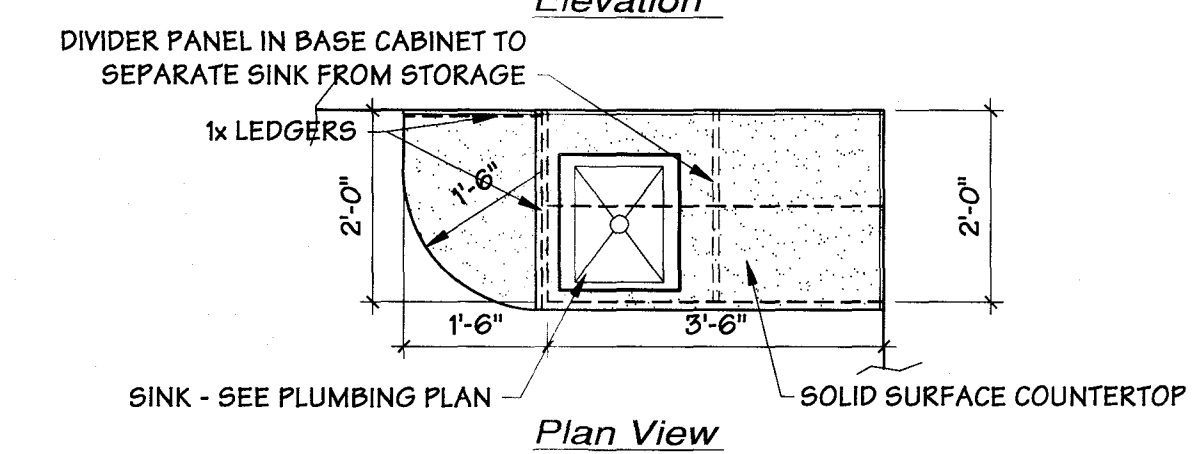
Elevation PFT/RT Rm 132
West Wall

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

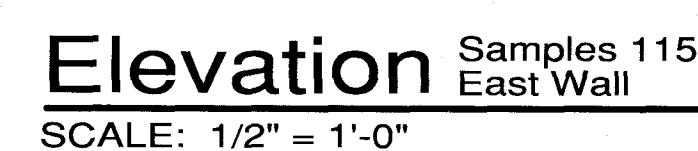


Elevation Exam 1 Rm 108, Exam 2 Rm. 125
Desk / Cabinet

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



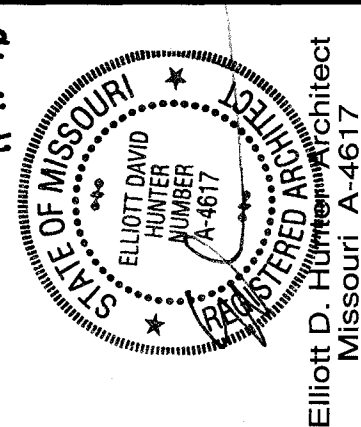
Exam 2 Rm 109, Exam 3 Rm 114, Exam 4 Rm 117
Elevation Exam 5 Rm. 123
 Desk / Cabinet
 SCALE: 1/2" = 1'-0"



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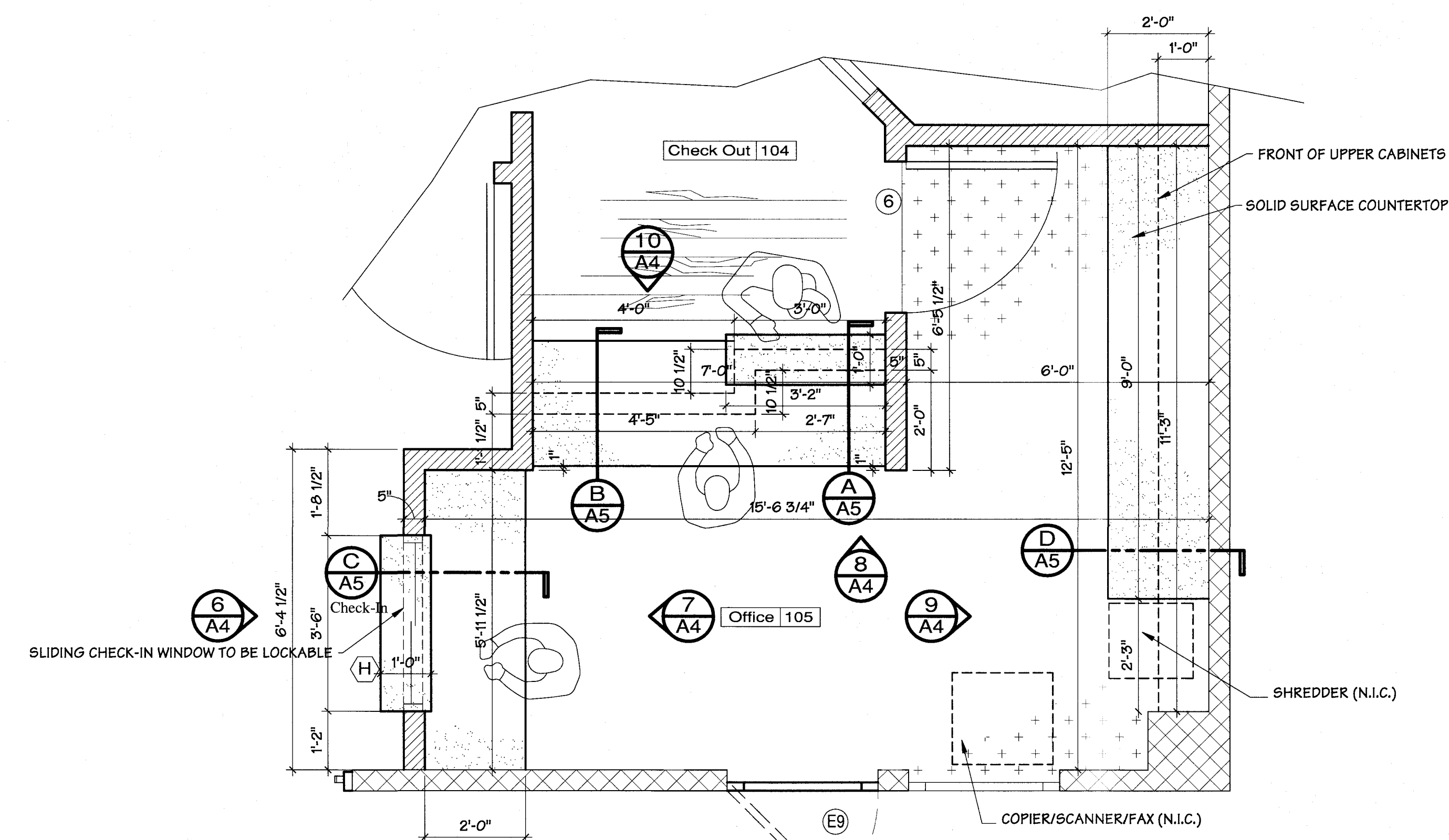
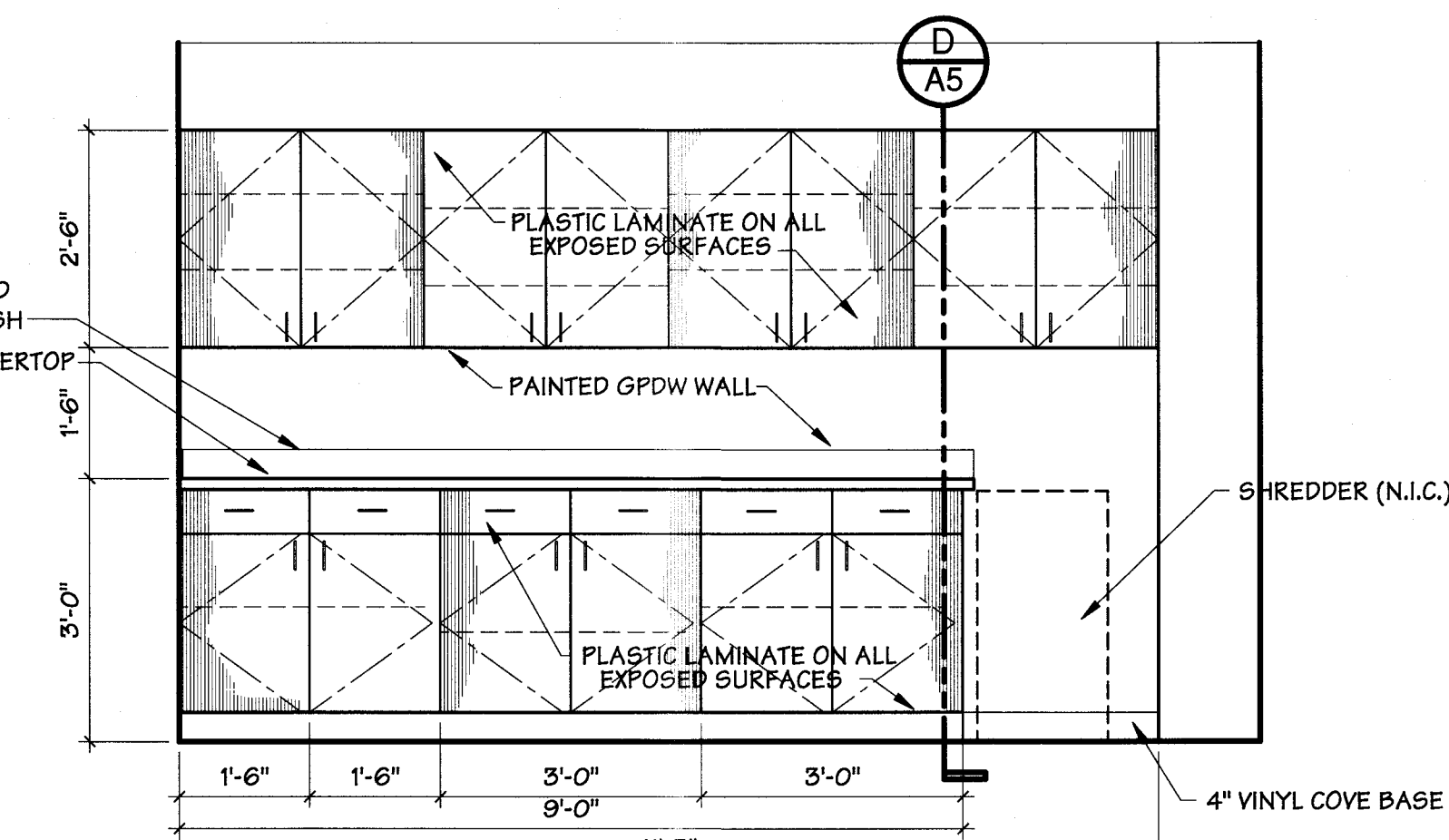
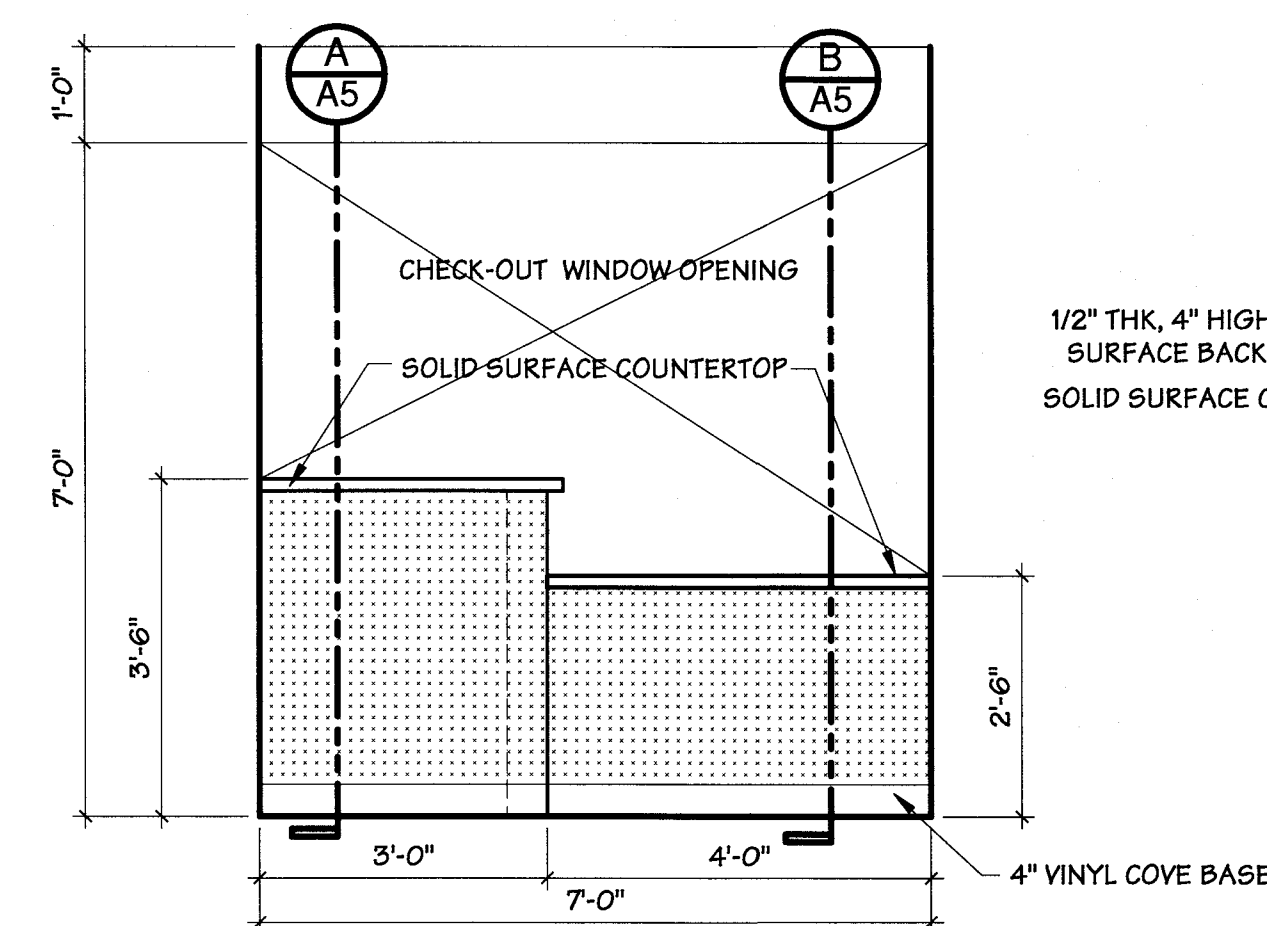
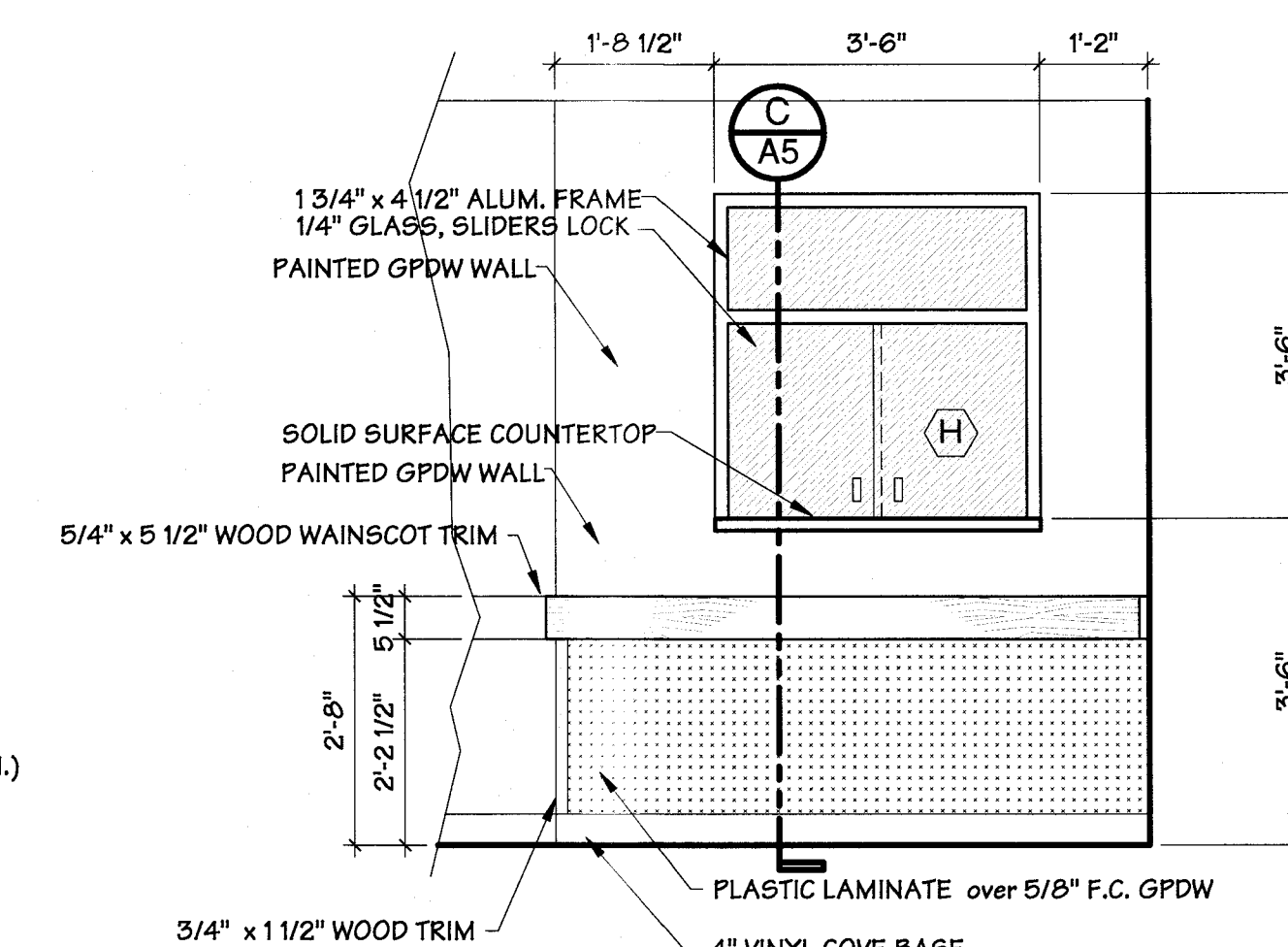
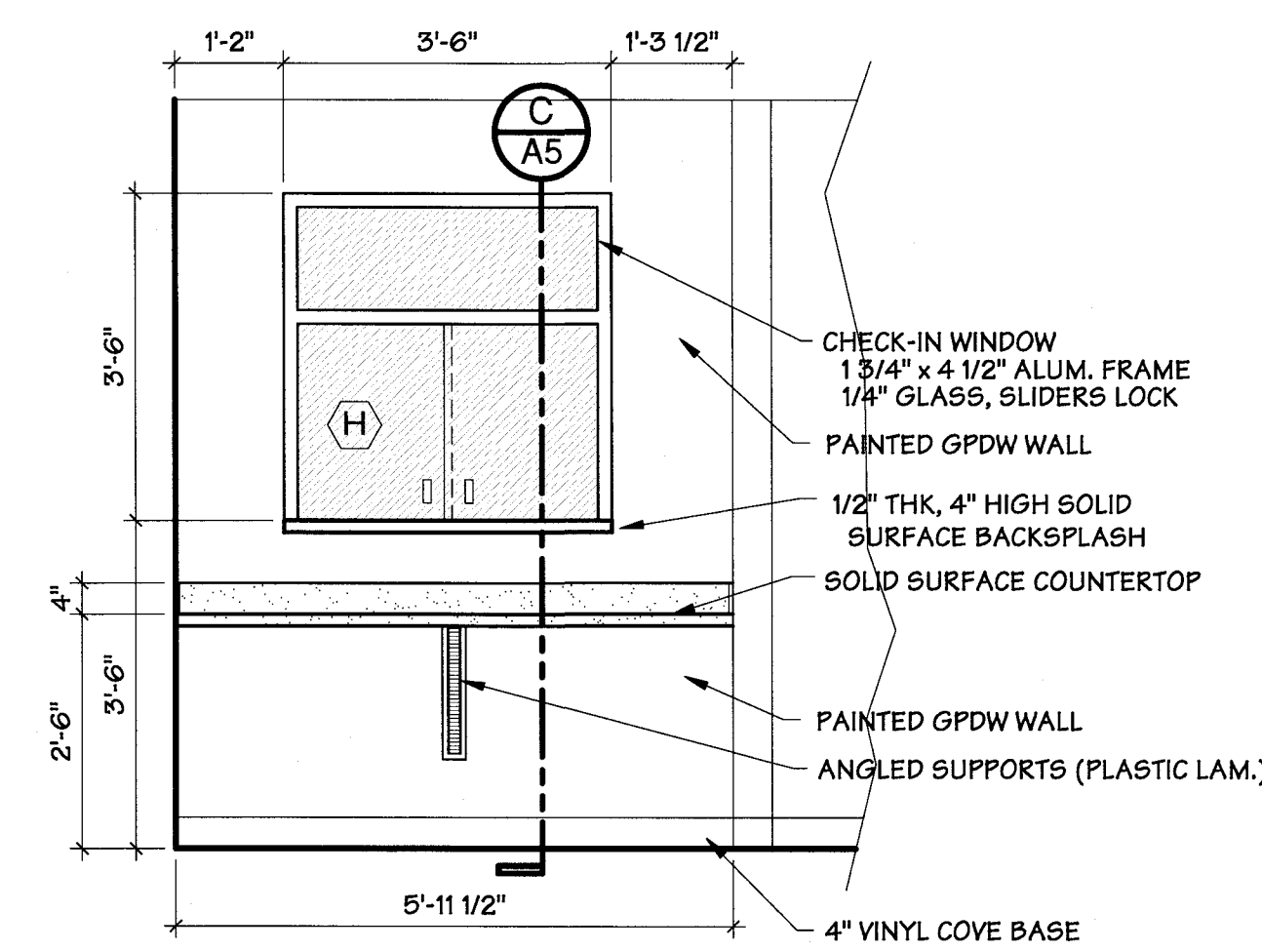
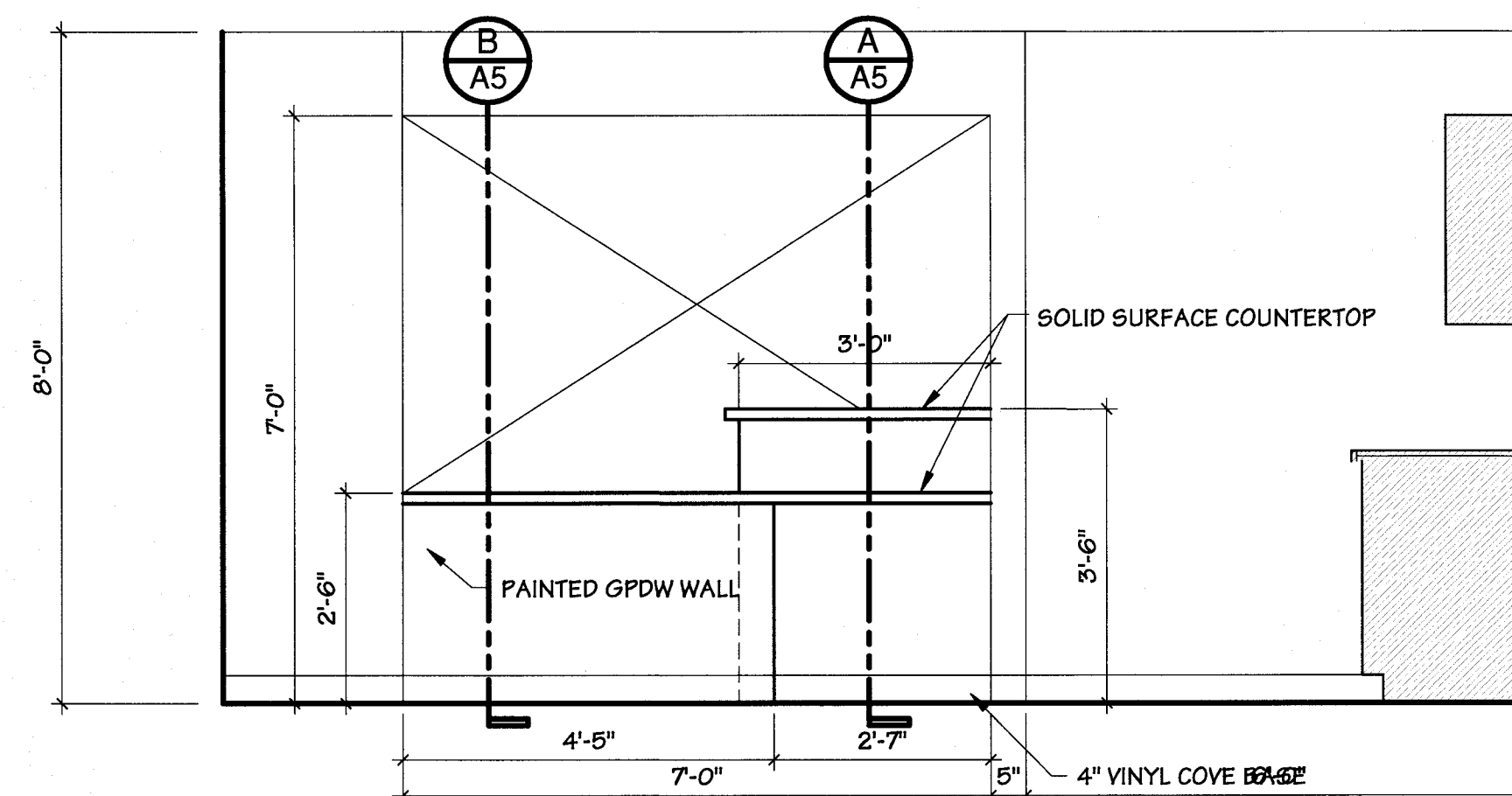


Renovation of Suites 3 & 4
Pulmonology Suite
1002 McIntosh Circle Joplin, MO
Freeman Health System

Drawn By
....
Checked By

Date
11/11/16
Scale
1/4" = 1'-0"
Job Number
1624
Millwork

A3



Revisions	By
Last Modification	
DATE	INT'L

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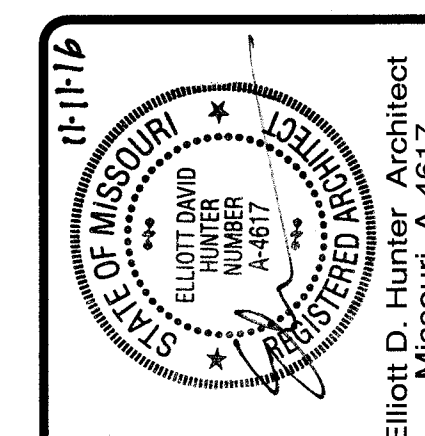
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Renovation of Suites 3 & 4
Pulmonology Suite
1002 McIntosh Circle Joplin, MO
Freeman Health System

Drawn By

Checked By
Date
11/11/16
Scale
1/4" = 1'-0"
Job Number
1624
Millwork

A4

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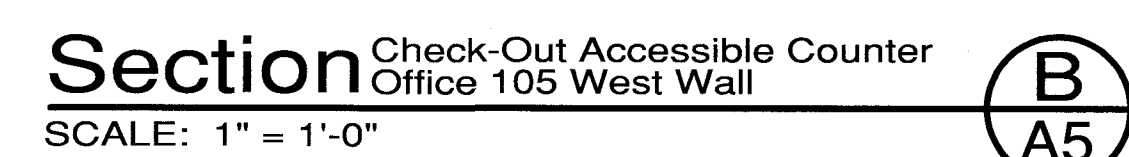
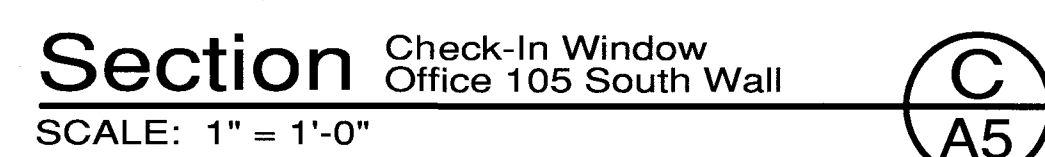
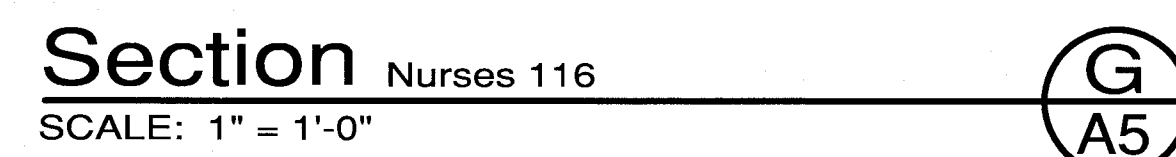
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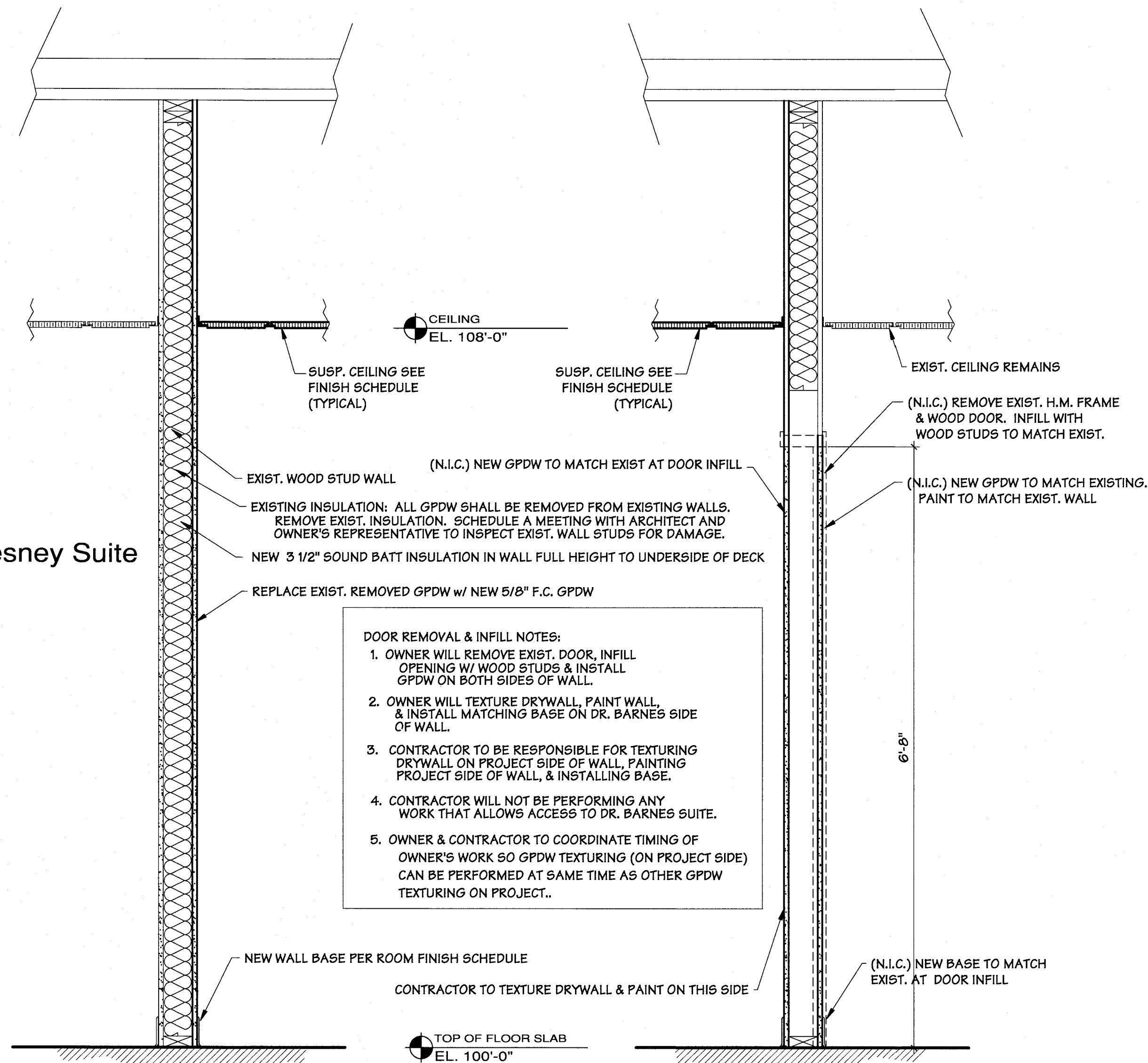
Pulmonology Suite
1002 McIntosh Circle Joplin, MO
Freeman Health System

Drawn By	***
Checked By	
Date	11/11/16
Scale	1" = 1'-0"
Job Number	1624
Millwork Sections	

A5

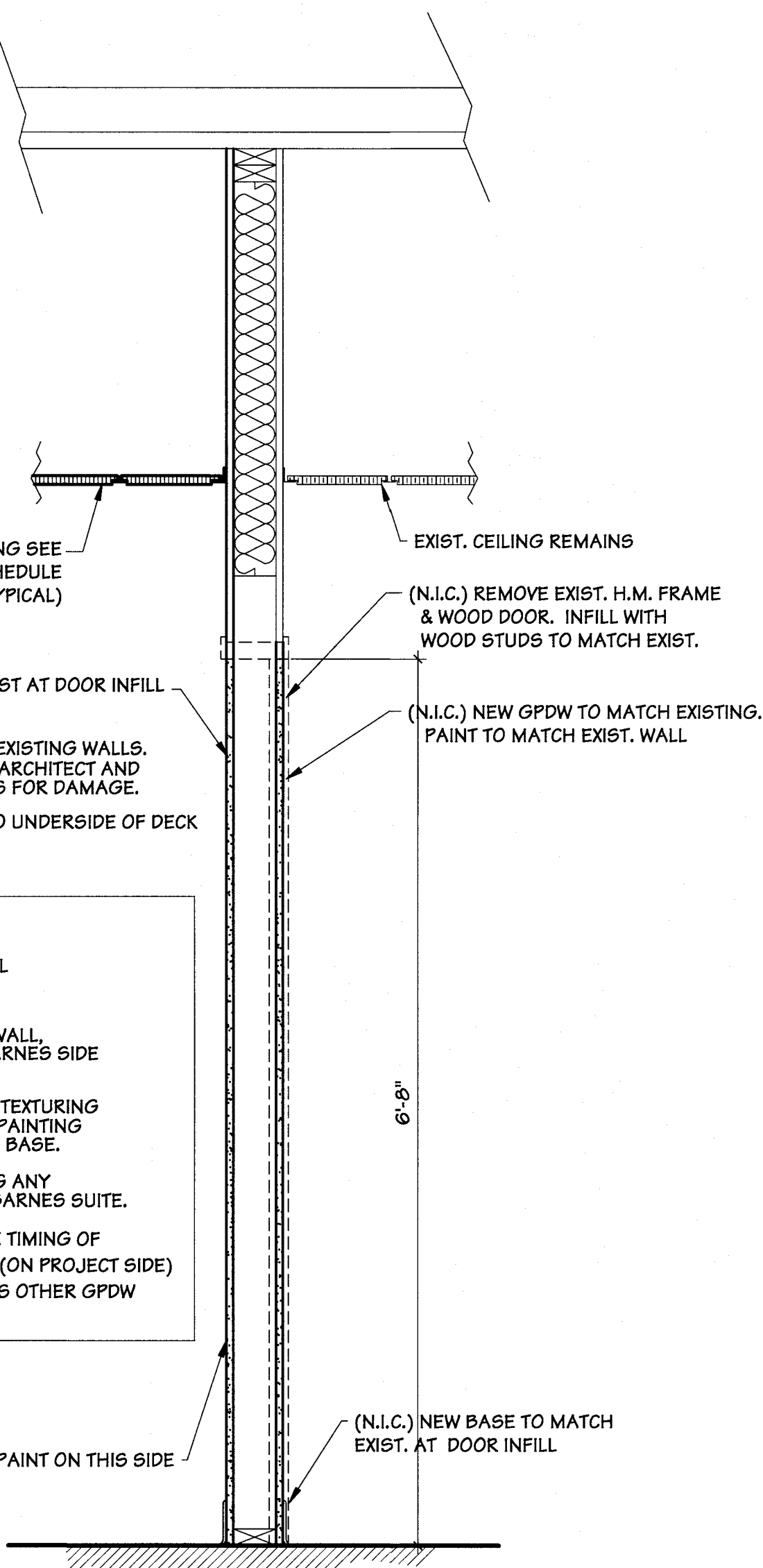


Existing Dr. Chesney Suite
NO CHANGES INSIDE THIS SUITE



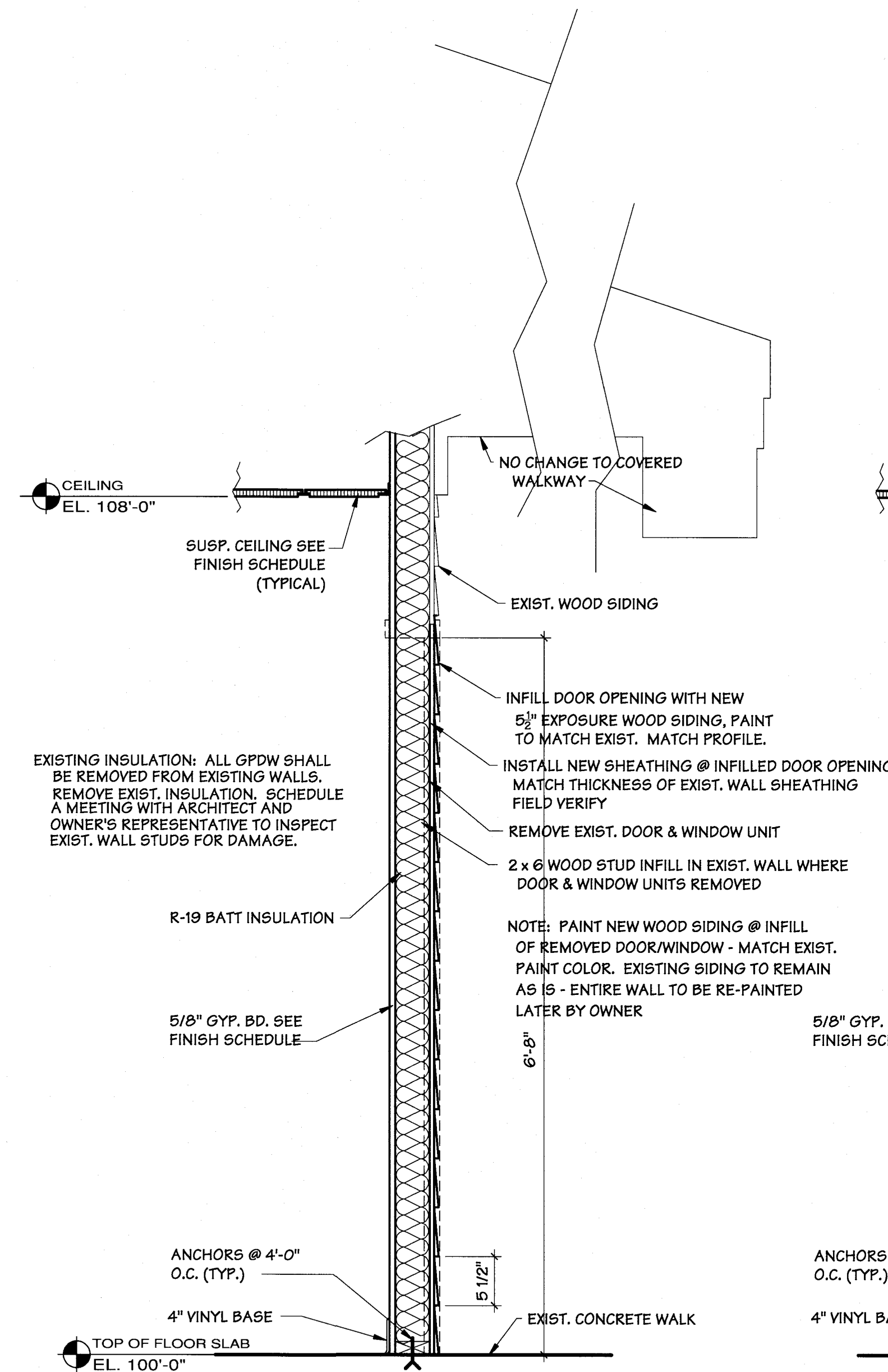
Wall Section Exist. Tenant Separation Wall
SCALE: 1" = 1'-0"

M
A6



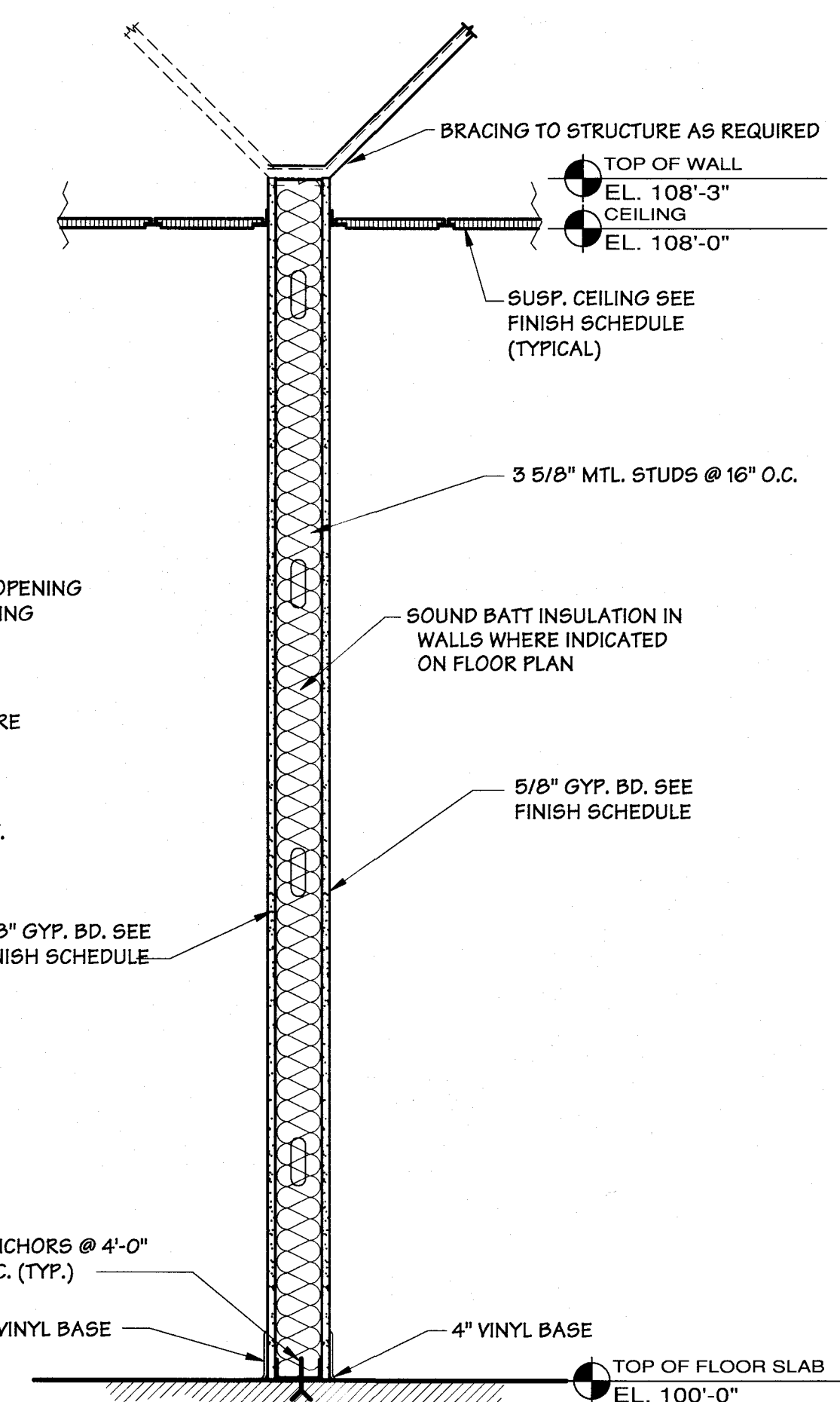
Wall Section Storage 120 West Wall Removed Door Infill
SCALE: 1" = 1'-0"

L
A6



Wall Section Infill Door Unit Exam 1 108 North Wall
SCALE: 1" = 1'-0"

K
A6



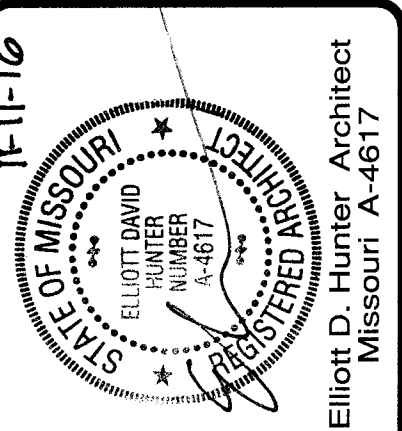
Wall Section Typical Interior Wall
SCALE: 1" = 1'-0"

J
A6

Revisions	By
Last Modification	
DATE	INT'L6

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Renovation of Suites 3 & 4
Pulmonology Suite
1002 McIntosh Circle Joplin, MO
Freeman Health System

Drawn By	...
Checked By	...
Date	11/11/16
Scale	1" = 1'-0"
Job Number	1624
Wall Sections	

A6

Revisions	By
Last Modification	
DATE	INFLS

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STATE OF MISSOURI

CHRISTOPHER RAY DUNCAN

NUMBER

PL-2405021661

PROFESSIONAL EXPIRATION DATE

Renovation of Suites 3 & 4

Pulmonology Suite

1002 McIntosh Circle Joplin, MO

Freeman Health System

Drawn By czd
Checked By crd/knc
Date 10/14/16
Scale As Noted
Job Number 1724
MEP Legend & Symbols

MEP1

CONWAY DUNCAN

3015 SOUTH FORT AVENUE | SUITE D
SPRINGFIELD | MISSOURI | 65804
P: 417.881.1586 | F: 417.881.8390
MISSOURI COAL E-2014013301

MEP SYMBOLS LEGEND

HVAC AIR DEVICES & DUCTWORK

	SUPPLY AIR DEVICE (4-WAY)
	SUPPLY AIR DEVICE (3-WAY)
	SUPPLY AIR DEVICE (2-WAY)
	RETURN/EXHAUST AIR DEVICE
	EXISTING SUPPLY AIR DEVICE
	EXISTING RETURN AIR DEVICE
	SIDEWALL AIR DEVICE
	AIR DEVICE TAG W/MARK NUMBER, NOMINAL SIZE AND FLOW
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	RETURN/EXHAUST DUCT UP
	RETURN/EXHAUST DUCT DOWN
	RECTANGULAR DUCT WIDTHxHEIGHT
	ROUND DUCT (SPIRAL)
	EXISTING DUCTWORK
	ROUND DUCT (SNAP-LOCK)
	ROUND DUCT TAKEOFF WITH MANUAL DAMPER
	EQUIPMENT TAG W/EQUIPMENT TYPE AND IDENTIFICATION NUMBER

HVAC SENSORS & SYMBOLS

	THERMOSTAT
	TEMPERATURE SENSOR
	TEMPERATURE CONTROLLER
	HUMIDITY SENSOR
	CARBON DIOXIDE SENSOR
	CARBON DIOXIDE SENSOR - DUCT MOUNT
	CARBON MONOXIDE SENSOR
	REFRIGERANT PIPING
	CONDENSATE PIPING
	BALANCING DAMPER
	MOTORIZED DAMPER W/ADJUSTABLE STOP
	FIRE DAMPER
	SMOKE DAMPER
	FIRE/SMOKE DAMPER
	ZONE DAMPER
	BYPASS DAMPER
	MECHANICAL EQUIPMENT
	MECHANICAL EQUIPMENT ON ROOF

ELECTRICAL SWITCHES

MOUNT AT 48" ABOVE FINISH FLOOR (AFF) UNLESS OTHERWISE NOTED. WHEN MOUNTED IN MASONRY, SWITCH MOUNTING HEIGHT SHALL ALIGN WITH MASONRY COURSING NEAREST TO 48" (MID-POINT) AFF, BUT SHALL NOT BE HIGHER THAN 48" (MID-POINT) AFF.

S	SINGLE POLE SWITCH
S 2	DOUBLE POLE SWITCH
S 3	THREE-WAY SWITCH
S 4	FOUR-WAY SWITCH
S DM	DIMMER SWITCH
S M	MOTOR RATED SWITCH
S K	KEYED SWITCH
S 2K	2-POLE KEYED SWITCH
S 3K	3-WAY KEYED SWITCH
S T	TIME SWITCH
S P	PILOT LIGHT SWITCH
	WALL BOX OCCUPANCY SENSOR
	OCCUPANCY SENSOR - CEILING MOUNTED
	OCCUPANCY SENSOR - WALL MOUNTED
	PHOTOELECTRIC CONTROL (PEC)

RECEPTACLES

UNLESS IN FLOOR BOX, MOUNT AT HEIGHT SCHEDULED ABOVE FINISH FLOOR (AFF). WHEN MOUNTED IN MASONRY, RECEPTACLE MOUNTING HEIGHT SHALL ALIGN WITH MASONRY COURSING NEAREST TO SCHEDULED HEIGHT, BUT SHALL NOT BE LOWER THAN 16" (MID-POINT) AFF.

	RECEPTACLE-REFER TO RECEPTACLE SCHEDULE
	QUADRUPLEX RECEPTACLE-REFER TO RECEPTACLE SCHEDULE
	RECEPTACLE IN FLOOR BOX, REFER TO KEYED NOTES ON PLAN
	QUAD. RECEPTACLE IN FLOOR BOX, REFER TO KEYED NOTES ON PLAN
	SPECIAL RECEPTACLE, NUMERIC 'X-XX' INDICATES NEMA CONFIGURATION

EQUIPMENT

INSTALL EQUIPMENT TO COMPLY WITH WORKING SPACE REQUIREMENTS LISTED IN ARTICLE 110 OF THE NATIONAL ELECTRICAL CODE.

	LOAD CENTER, PANELBOARD, SWITCHBOARD, OR MOTOR CONTROL CENTER
	DISCONNECT SWITCH WITH AMPACITY AND NUMBER OF POLES INDICATED
	JUNCTION BOX
	DIRECT EQUIPMENT CONNECTION
	ELECTRIC HAND DRYER
	MOTOR LOAD: EF - EXHAUST FAN AHU - AIR HANDLING UNIT P - PUMP CU - CONDENSING UNIT OHD - OVERHEAD DOOR CF - CEILING FAN RTU - ROOFTOP UNIT
	PUSHBUTTON OPERATOR: EMS - EMERGENCY STOP DAW - DOOR ACTUATOR - WALL MOUNTED DAP - DOOR ACTUATOR - PEDESTAL MOUNTED PTE - EMERGENCY PUSH TO EXIT
	MOTOR STARTER
	TRANSFORMER
	CIRCUIT HOMERUN
	UNDERGROUND ELECTRIC
	OVERHEAD ELECTRIC
	UNDERGROUND TELEPHONE
	OVERHEAD TELEPHONE

COMMUNICATION OUTLET ROUGH-IN

UNLESS IN FLOOR BOX OR OTHERWISE NOTED, MOUNT AT 18" ABOVE FINISH FLOOR (AFF). WHEN MOUNTED IN MASONRY, OUTLET MOUNTING HEIGHT SHALL ALIGN WITH MASONRY COURSING NEAREST TO SCHEDULED HEIGHT, BUT SHALL NOT BE LOWER THAN 16" (MID-POINT) AFF.

PROVIDE A 4" SQUARE JUNCTION BOX AND 3/4" CONDUIT WITH DE-BURRED ENDS, INCLUDING 90° SWEEP, INTO ACCESSIBLE CEILING SPACE. FOR SINGLE-GANG OUTLETS IN FRAMED WALLS, PROVIDE A SINGLE-GANG PLASTER RING.

	SINGLE-GANG OUTLET
	COMBINATION TELEPHONE/DATA OUTLET
	DATA OUTLET
	TELEVISION OUTLET BOX
	TELEPHONE/DATA OUTLET IN RECESSED FLOOR BOX
	INTERCOM OUTLET BOX
	INTERCOM SPEAKER
	CLOCK - SINGLE FACE
	CLOCK - DOUBLE FACE
	NURSE CALL PULL CORD (TOILET STATION)
	NURSE CALL LIGHT

FIRE ALARM

COMPLY WITH REQUIREMENTS OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) FOR CEILING-MOUNTING AND/OR WALL-MOUNTING HEIGHTS OF FIRE ALARM DEVICES.

	SMOKE DETECTOR
	COMBINATION SMOKE & CARBON MONOXIDE DETECTOR
	HEAT DETECTOR
	CEILING-MOUNTED STROBE
	WALL-MOUNTED STROBE
	WALL-MOUNTED HORN/SPEAKER WITH STROBE
	CEILING-MOUNTED HORN/SPEAKER WITH STROBE
	WALL-MOUNTED HORN/SPEAKER
	TAMPER SWITCH
	FLOW SWITCH
	MAGNETIC DOOR HOLDER
	MAGNETIC DOOR HOLDER - WALL MOUNTED
	MANUAL PULL STATION
	FIRE ALARM CONTROL PANEL
	FIRE ALARM REMOTE ANNUNCIATOR
	DUCT SMOKE DETECTOR
	DUCT HEAT DETECTOR

LIGHT FIXTURES

	LAY-IN/RECESSED 24" X 48" OR 24" X 24" FLUORESCENT OR LED LIGHT
	SURFACE 24" X 48" OR 24" X 24" FLUORESCENT OR LED LIGHT
	STRIP, SUSPENDED, OR SURFACE MOUNT LIGHT
	INDUSTRIAL FLUORESCENT OR LED LIGHT
	DOWNLIGHT/CAN LIGHT OR WALL WASH LIGHT
	WALL MOUNTED LIGHT
	PENDANT LIGHT
	EXIT LIGHT, DIRECTIONAL EXIT LIGHT, OR EXIT/EMERGENCY LIGHT
	DUAL HEAD EMERGENCY LIGHT OR REMOTE HEAD

PIPE LABELS

	WATER SERVICE
	COLD WATER
	HOT WATER
	HOT WATER RETURN
	BUILDING WASTE/SEWER
	KITCHEN WASTE
	VENT
	STORM DRAIN
	OVERFLOW DRAIN
	GAS
	HIGH PRESSURE GAS
	COMPRESSED AIR
	VACUUM
	FILTERED WATER
	EXISTING PIPE
	PIPE BELOW GRADE

VALVES & FITTINGS

	BALL VALVE
	CIRCUIT BALANCING VALVE
	PRESSURE REDUCING VALVE
	CHECK VALVE
	DOUBLE CHECK VALVE
	CAP
	EQUIPMENT CONNECTION
	ELBOW UP
	ELBOW DOWN
	TEE
	ELBOW
	TEE UP
	TEE DOWN
	WATER HAMMER ARRESTOR
	PIPING CONTINUATION

PLUMBING SYMBOLS

	REDUCED PRESSURE BACKFLOW PREVENTER
	FLOOR DRAIN
	CLEANOUT
	OUTDOOR CLEANOUT
	WALL CLEANOUT
	FLOOR SINK
	ROOF DRAIN
	GAS PRESSURE REGULATOR
	GAS METER
	COLD WATER CONNECTION - PEX TUBING
	HOT WATER CONNECTION - PEX TUBING

FIRE PROTECTION

	FLOW SWITCH
	SIAMESE FIRE DEPT. CONN.
	BACKFLOW PREVENTER
	SPRINKLER HEAD
	HOSE CABINET
	VALVE CABINET

SECURITY

	SECURITY/CCTV CAMERA
	DOOR BUZZER
	DOOR BELL/CHIME
	CARD READER
	ELECTRIC DOOR LOCK
	MAGNETIC DOOR LOCK
	ACCESS KEYPAD
	MOTION SENSOR
	GLASS BREAK SENSOR

GENERAL MEP SYMBOLS & ABBREVIATIONS

	PLAN KEY NOTE IDENTIFIER
	DENOTES 'CONNECT TO EXISTING'
	DETAIL REFERENCE IDENTIFIER
	PLAN REVISION IDENTIFIER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
TOF	TOP OF FIXTURE
BOF	BOTTOM OF FIXTURE
COF	CENTER OF FIXTURE
AC	ABOVE COUNTER
BC	BELOW COUNTER
GFI	GROUND FAULT INTERRUPTER
WP	WEATHER PROOF
TL	TWISTLOCK
TP	TAMPER PROOF
NIC	NOT IN CONTRACT
CLG	CEILING
UNO	UNLESS NOTED OTHERWISE
MFG	MANUFACTURER
NTS	NOT TO SCALE
RE	REFER TO, REFERENCE
OF/CI	OWNER FURNISHED, CONTRACTOR INSTALLED
EM	EMERGENCY
NL	NON-SWITCHED NIGHT LIGHT
HOR	HORIZONTAL
FACP	FIRE ALARM CONTROL PANEL
CW	COLD WATER
HW	HOT WATER
HWR	HOT WATER RETURN
TW	TEMPERED WATER
FW	FILTERED WATER
WS	WATER SERVICE
SS	SANITARY SEWER
V	VENT
VTR	VENT THROUGH ROOF
EF	EXHAUST FAN
AHU	AIR HANDLING UNIT
HP	HEAT PUMP
CU	CONDENSING UNIT
RTU	ROOF TOP UNIT
CF	CEILING FAN
P	PUMP
UH	UNIT HEATER
FCU	FAN COIL UNIT
SF	SUPPLY FAN
OHD	OVERHEAD DOOR
GH	BASKETBALL GOAL HOIST