

MECHANICAL:

GENERAL

1. INSTALLATION OF APPLIANCES SHALL BE PER IMC SEC 304.
 2. APPLIANCES SHALL BE LOCATED PER IMC SEC 303.
 3. CLEARANCE TO APPLIANCES SHALL BE PROVIDED PER IMC SEC 304.9.
 4. APPLIANCES SHALL BE VENTED TO THE OUTSIDE PER IMC SEC 804.3.5.
 5. APPLIANCE VENT TERMINATION SHALL BE PER IMC SEC 804.
 6. APPLIANCE VENTING SHALL BE SIZED PER IMC 801.6.
 7. VENT CONNECTORS SHALL BE PER IMC SEC 803.
 8. AUXILIARY DRAIN PAN SHALL BE PROVIDED PER IPC SEC 314.2.3.
- MECHANICAL VENTILATION

1. MECHANICAL VENTILATION SHALL BE PROVIDED PER IMC TABLE 403.3.
2. INTAKE OPENINGS SHALL BE PER IMC SEC 401.4.
3. DUCTING SHALL BE PER IMC SEC 603.

EXHAUST SYSTEMS

1. RESTROOMS SHALL BE VENTILATED PER IMC TABLE 403.3.

DUCT SYSTEMS

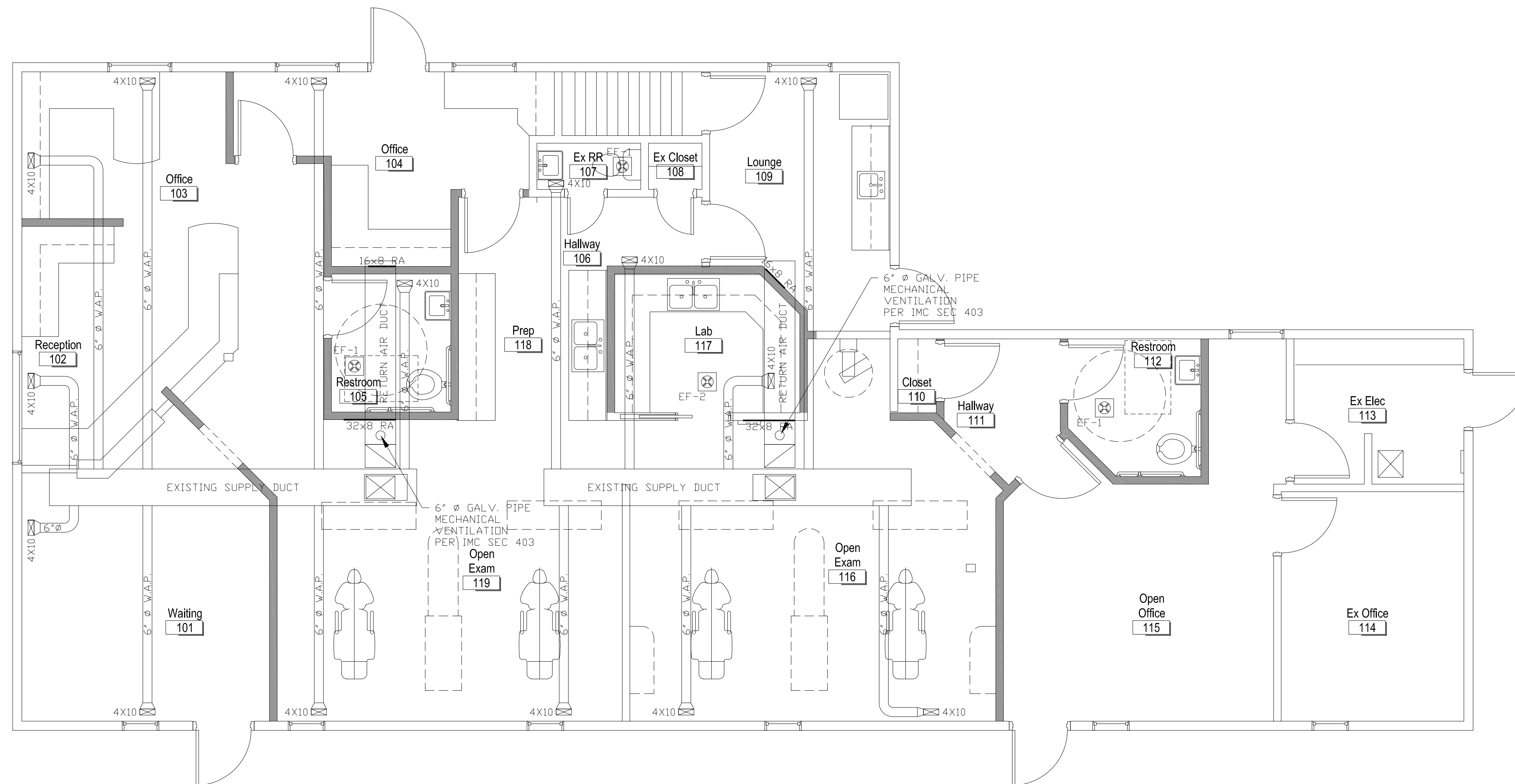
1. DUCT SYSTEMS SERVING HEATING, COOLING AND VENTILATION EQUIPMENT SHALL BE PER IMC SEC 603.
2. SUPPLY AIR DUCTING
 - 26 GA. GALVANIZED RECTANGLE DUCT
 - 6" Ø GALVANIZED METAL DUCT (WAP)
 - 6" Ø FACTORY MADE AIR DUCTS
3. GALVANIZED METAL DUCT SHALL BE SUPPORTED PER IMC SEC 603.10.
4. GALVANIZED METAL DUCT SHALL BE INSULATED PER IMC SEC 604 (R-5).
5. RETURN AIR DUCTING SHALL BE PER PER IMC SEC 603.10.

COMBUSTION AIR

1. COMBUSTION AIR SHALL BE PROVIDED PER IMC SEC 701.
2. COMBUSTION AIR SHALL BE SUPPLIED PER IMC SEC 701.
3. COMBUSTION AIR OPENINGS SHALL BE TERMINATED IN THE ATTIC SPACE PER IFGC 304.
4. COMBUSTION AIR SHALL COMPLY WITH IFGC 304.

FUEL GAS

1. APPLIANCES SHALL BE CONNECTED TO THE FUEL GAS PIPING PER IFGC
2. THE FUEL GAS SYSTEM SHALL BE A DESIGN / BUILD BY THE SITE CONTRACTOR.



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

EQUIPMENT SCHEDULE						
PLAN MARK	MANUFACTURER	MODEL	AIRFLOW	HEATING	COOLING	REMARKS
FURN #1	EXISTING	EXISTING	800	EXISTING		1
FURN #2	EXISTING	EXISTING	800	EXISTING		1
A/C #1	EXISTING	EXISTING			2 TON	1
A/C #2	EXISTING	EXISTING			2 TON	1
REMARKS: 1. EXISTING EQUIPMENT AND DUCT WORK SHALL BE REUSED, INSTALL NEW DUCT WORK AS REQUIRED.						

EXHAUST FAN SCHEDULE									
PLAN MARK	MANUFACTURER	MODEL	AIRFLOW (in cfm)	ELECTRICAL				LOCATION	REMARKS
				watt	volt	ph	amps		
EF-1	-	-	50	-	120	1	-	EX RR #107	1
EF-1	-	-	50	-	120	1	-	RESTROOM #105	1
EF-1	-	-	50	-	120	1	-	RESTROOM #112	1
EF-2	-	-	80	-	120	1	-	LAB #117	1
REMARKS: 1. EXHAUST FANS DUCTS SHALL BE 4" Ø AND SHALL BE TERMINATED TO THE EXTERIOR.									

CONSTRUCTION NOTES:

1. THESE DRAWINGS ARE BASED UPON AVAILABLE DOCUMENTS, WHICH MAY NOT ACCURATELY PORTRAY AS-BUILT CONDITIONS. EXISTING EQUIPMENT AND PIPING SIZES, LOCATIONS, AND DIMENSIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO DEMOLITION AND CONSTRUCTION. NOTIFY THE ENGINEER IMMEDIATELY OF ALL DISCREPANCIES AFFECTING THE REMOVAL OF EXISTING EQUIPMENT AND PIPING AND THE INSTALLATION OF NEW EQUIPMENT AND PIPING.
2. INSTALL PIPING AND DUCT WORK TO BEST SUIT FIELD CONDITIONS AND COORDINATE WITH THE INSTALLATION WORK OF OTHER TRADES. THESE DRAWINGS INDICATE APPROXIMATE LOCATIONS. DO NOT SCALE TO DETERMINE LOCATION OF PIPING. ALL DUCT WORK SHALL BE 26 GAUGE OR THICKER AND SHALL BE INSTALLED PER SMACNA STANDARDS.
3. PROTECT ALL EXISTING EQUIPMENT AND DUCT WORK THAT IS TO REMAIN.
4. REPAIR AND/OR REPLACE ALL EXISTING UTILITIES, STRUCTURAL ELEMENTS, EQUIPMENT, PIPING, CONDUIT, AND DUCT WORK THAT IS DAMAGED AS A RESULT OF THIS WORK.
5. EXHAUST DUCT TERMINATION SHALL MAINTAIN A MINIMUM OF 10' CLEARANCE HORIZONTALLY OR NOT LESS THAN 3' VERTICALLY FROM AIR INTAKE OPENINGS.

MECHANICAL LEGEND	
	FURNACE
	CONDENSING UNIT
	EXHAUST FAN
	THERMOSTAT (TO BE LOCATED PER CUSTOMERS REQUEST)

RONALD McMANAMAN P.E.
608 SOUTH HARDY AVENUE
INDEPENDENCE, MO. 64053



PRAIRIE FIRE CONSTRUCTION GROUP
401 CHARLOTTE ST.
KANSAS CITY, MO

WATERS DAVIDSON, DDS
STILWELL, KS 66013

MARK	DATE	DESCRIPTION
11-18-15		ADD 6" Ø PIPE AND NOTATION FOR MECHANICAL VENTILATION

PROJECT NO: ----
CAD DWG FILE: MECH PLANS.DWG
DRAWN BY: K. HECTOR GIRARDIN
CHK'D BY: RON McMANAMAN
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SHEET TITLE
MECHANICAL PLAN

