



- General Mechanical Notes:**
- All packaged rooftop AC units are Trane, Lemox, or equal, 1 1/2 - 8 1/2 ton, gas-fired with economizers, powered exhaust, 3000 cfm @ 1.0" w.g. ESP each, variable air volume, 200/3/60. Multiple zones will be required with variable air volume boxes. Gas furnaces shall be 4 to 1 modulating with stainless steel burners, medium heat.
 - Supply air ductwork shall be insulated with 2" thick fiberglass ductwrap w/ FSK. All ductwork shall be sealed against leakage per SMACNA.
 - All roof mounted equipment shall be a minimum of 10'-0" from the edge of the roof.
 - Toilet exhaust fans shall be Greenheck, or equal, direct drive, 250 cfm @ .75" w.g. ESP w/ 16" H, insulated curbs.
 - Kitchen hood exhaust ductwork shall be 18"x18" welded construction w/ bolted and gasketed access doors at each floor level, insulated w/ two (2) layers of 2" thick Firemaster or equal, ceramic insulation.
 - Provide Maxitrol or Pietro-Fiorini gas pressure regulators at each gas appliance. Pressure regulators shall have vent limiting devices or be vented to atmosphere.
 - Each rooftop AC unit shall have a 3/4" gas service (2 psig).
 - Provide dynamic-rated fire dampers in each duct at each floor level with access doors, Greenheck, Ruskin, or equal.
 - Roof drain piping shall be Schedule 40 PVC w/ 1" thick fiberglass pipe insulation w/ ASJ. DWV piping shall be Schedule 40 PVC.
 - Sanitary piping serving kitchen equipment upstream of the grease trap shall be service weight cast-iron. The grease trap shall be Carplas, or equal, as approved by the City of Portland.
 - Rainwater filters shall be BioClean, or equal, as approved by the City of Portland.
 - Combination fire and smoke dampers (FD / SD) are required at all ducts that penetrate 2 or more floors. Ducts that pass thru one floor require fire dampers.

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HVAC THIRD FLOOR PLAN	
M1.03	