## HVAC SYSTEM PERFORMANCE SPECIFICATIONS:

- CODES & GENERAL REQUIREMENTS: DESIGN AND CONSTRUCT ALL HVAC & PLUMBING SYSTEMS IN ACCORDANCE WITH NFFA STANDARDS \$4, 90A, ASHRAE 52 & 90.1, ADA, STATE OF MANNE PLUMBING CODE (LAPMO) CITY OF PORTLAND, MAINE, AND STATE OF MANNE REGULATORY REQUIREMENTS. HVAC DUCTWORK AND PERING SHOWN ON DRAWINGS IS GENERALLY SCHEMATIC AND ACTUAL LOCATIONS OF DUCTWORK AND PERING SHALL BE FULLY COORDINALTED WITH ALL TRADES. ALL DUCTWORK AND PERING SHALL BE CONCEALED UNLESS NOTED OTHERWISE. ALL PIPING SHALL BE CONCEALED UNLESS NOTED OTHERWISE. ALL PIPING SHALL BE INSTALLED TO ALLOW FOR EXPANSION USING OFFSETS, SWING JOURNS, EXPANSION HITTINGS OR JOINTS, TO PREVENT UNDUE STRAIN ON PERING AND BOUTPMENT. DESIGN AND INSTALL SYSTEMS TO MAINTAIN THATING SET POINT OF 70°F WITH OUTDOOR CONDITIONS AT -10°F AND COOLING SYSTEM SET POINT OF 74°F.
- AIR DISTRIBUTION: PROVIDE DUCTED SUPPLY AIR, RETURN AIR, AND EXHAUST AIR AND OUTSIDES AIR SYSTEMS. SUPPLY, RETURN, AND OUTSIDE AIR DUCTWORK SHALL BE GALVANIZED STEEL, CONSTRUCTION AND BE FABRICATED AND INSTALLED PER SMACNA STANDARDS. DUCTWORK LAYOUT SHALL BE AS DIRECT AS POSSIBLE. MINIMIZE DUCI LENGTHS, ELBOWS, TRANSITIONS, AND OPPESITS TO MINIMIZE DUCI AIR PRESSURE DROP. PROVIDE DAMPERS ON ALL DUCT BRANCHES FOR SYSTEM BALANCING, INSULATE ALL DUCTWORK FOR CONDENSATE AND ENERGY CONSERVATION, AND IN ACCORDANCE WITH ASSHRAE 90.1.
- GAS FIRED FIRNACE: VERTICAL UPFLOW, HIGH EFFICIENCY, MODULATING GAS FIRED CONDENSING FURNACE WITH ECM VARIABLE SEPED DRIVE SUPPLY AIR FAN MOTOR, CONCENTRIC ROOP TERMINATION VENT KIT, CONDENSATE NEUTRALLZATION KIT, RETURN AIR FILTER RACKS WITH DISPOSABLE FILTERS, AND WALL MOUNTED DIGITAL PROGRAMMABLE HEATING/COOLING THERMOSTAT. FUNNACE SHALL PROVIDE 1600 CPM @ 0.50" ESP, 8028 MBH HOPUT, 7827 MBH OUTPUT, 977 AURI, 115V-1-60. FURNACE EQUAL TO YORK YPPC SERIES. PROVIDE WITH CONDENSATE PUMP KIT.

  OUTDOOR CONDENSING UNIT AND DIRECT EXPANSION COOLING COIL TO BE PAIRED WITH FURNACE AND OUTDOOR CONDENSING UNIT UTILIZING R-410A REPRIGERANT. COOLING SYSTEM CAPACITY SHALL PROVIDE 472 MBH TOTAL, 34.6 MBH SENSIBLE, AND AUR RAFIED COOLING CAPACITY SHALL PROVIDE HOMMAL 4-TONS OF COOLING. CONDENSING UNIT EQUAL TO YORK MC48C3XCI. SYSTEM SHALL PROVIDE HOMMAL 4-TONS OF COOLING. CONDENSING UNIT EQUAL TO YORK MC48C3XCI. SYSTEM SHALL PROVIDE HOMMAL 4-TONS OF COOLING. CONDENSING UNIT EQUAL TO YORK CZHO4811C SERIES, 208730V-1-60.
- ALL COLD WATER & HOT WATER FIPING TO BE INSULATED WITH 1/2" THICK ARMAFLEX OR EQUAL.

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MECHANICAL NOTES

SIN

1/8" = 1'-0"

CONDENSING UNIT

M-101

