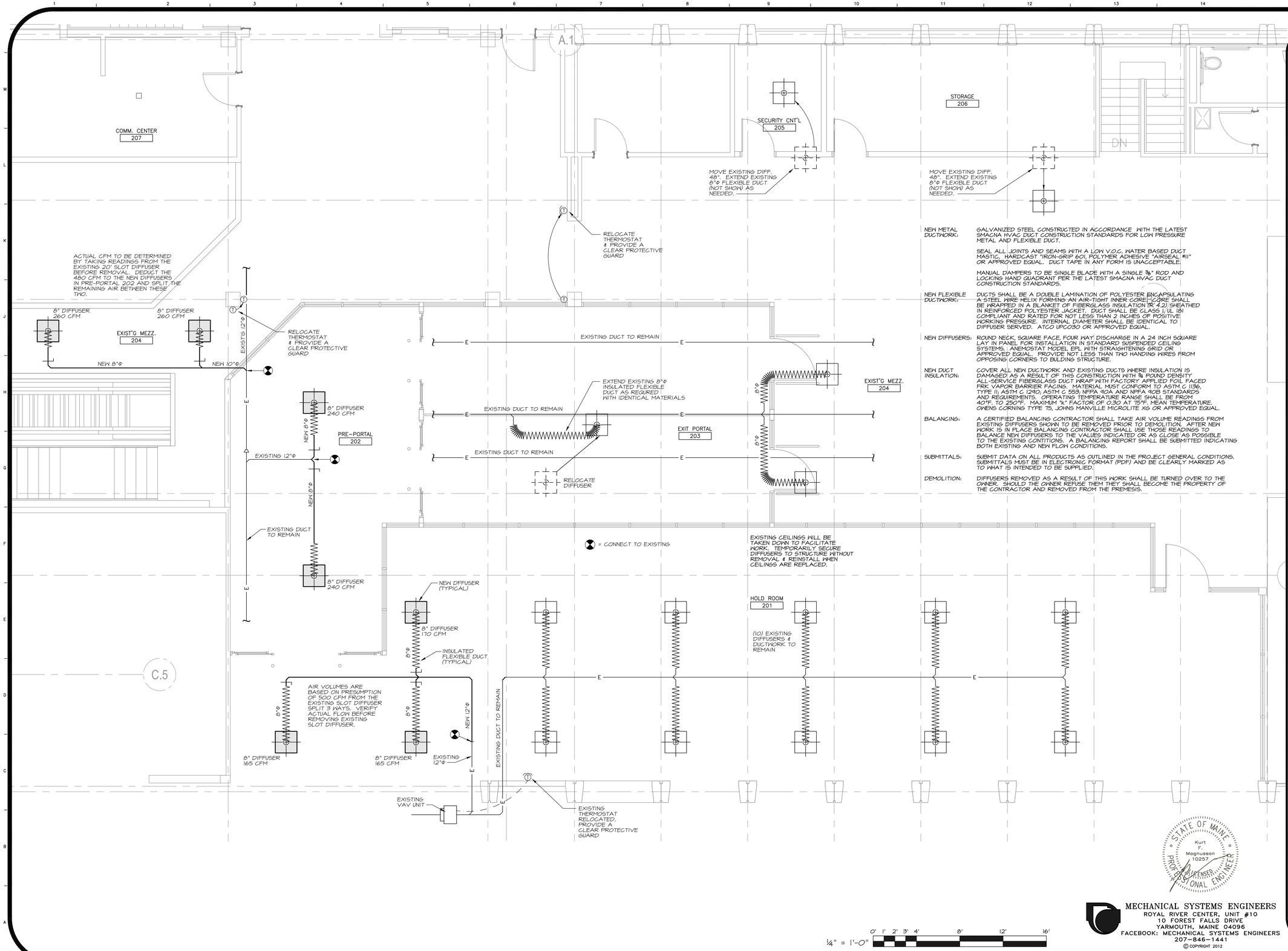

NEW METAL DUCTWORK: GALVANIZED STEEL CONSTRUCTED IN ACCORDANCE WITH THE LATEST SMACNA HVAC DUCT CONSTRUCTION STANDARDS FOR LOW PRESSURE METAL AND FLEXIBLE DUCT.

SEAL ALL JOINTS AND SEAMS WITH A LOW V.O.C. WATER BASED DUCT MASTIC. HARDCAST "IRON-GRIP 601, POLYMER ADHESIVE "AIRSEAL #11" OR APPROVED EQUAL. DUCT TAPE IN ANY FORM IS UNACCEPTABLE.

MANUAL DAMPERS TO BE SINGLE BLADE WITH A SINGLE ⅜" ROD AND LOCKING HAND QUADRANT PER THE LATEST SMACNA HVAC DUCT CONSTRUCTION STANDARDS.

NEW FLEXIBLE DUCTWORK: DUCTS SHALL BE A DOUBLE LAMINATION OF POLYESTER ENCAPSULATING A STEEL WIRE HELIX FORMING AN AIR-TIGHT INNER CORE. CORE SHALL BE WRAPPED IN A BLANKET OF FIBERGLASS INSULATION (R-4.2) SHEATHED IN REINFORCED POLYESTER JACKET. DUCT SHALL BE CLASS 1, UL 181 COMPLIANT AND RATED FOR NOT LESS THAN 2 INCHES OF POSITIVE WORKING PRESSURE. INTERNAL DIAMETER SHALL BE IDENTICAL TO DIFFUSER SERVED. ATCO UFC080 OR APPROVED EQUAL.

NEW DIFFUSERS: ROUND NECK, SQUARE FACE, FOUR WAY DISCHARGE IN A 24 INCH SQUARE LAY IN PANEL FOR INSTALLATION IN STANDARD SUSPENDED CEILING SYSTEMS. ANEMOSTAT MODEL EFL WITH STRAIGHTENING GRID OR APPROVED EQUAL. PROVIDE NOT LESS THAN TWO HANDING WIRES FROM OPPOSING CORNERS TO BUILDING STRUCTURE.

NEW DUCT INSULATION: COVER ALL NEW DUCTWORK AND EXISTING DUCTS WHERE INSULATION IS DAMAGED AS A RESULT OF THIS CONSTRUCTION WITH ¾ POUND DENSITY ALL-SERVICE FIBERGLASS DUCT WRAP WITH FACTORY APPLIED FOIL FACED FRK VAPOR BARRIER FACING. MATERIAL MUST CONFORM TO ASTM C 1136, TYPE II; ASTM C 1290; ASTM C 553; NFPA 90A AND NPFA 90B STANDARDS AND REQUIREMENTS. OPERATING TEMPERATURE RANGE SHALL BE FROM 40°F. TO 250°F. MAXIMUM "K" FACTOR OF 0.30 AT 75°F. MEAN TEMPERATURE. OWENS CORNING TYPE 75, JOHNS MANVILLE MICROLITE X6 OR APPROVED EQUAL.

BALANCING: A CERTIFIED BALANCING CONTRACTOR SHALL TAKE AIR VOLUME READINGS FROM EXISTING DIFFUSERS SHOWN TO BE REMOVED PRIOR TO DEMOLITION. AFTER NEW WORK IS IN PLACE BALANCING CONTRACTOR SHALL USE THOSE READINGS TO BALANCE NEW DIFFUSERS TO THE VALUES INDICATED OR AS CLOSE AS POSSIBLE TO THE EXISTING CONTITIONS. A BALANCING REPORT SHALL BE SUBMITTED INDICATING BOTH EXISTING AND NEW FLOW CONDITIONS.

SUBMITTALS: SUBMIT DATA ON ALL PRODUCTS AS OUTLINED IN THE PROJECT GENERAL CONDITIONS. SUBMITTALS MUST BE IN ELECTRONIC FORMAT (PDF) AND BE CLEARLY MARKED AS TO WHAT IS INTENDED TO BE SUPPLIED.

DEMOLITION: DIFFUSERS REMOVED AS A RESULT OF THIS WORK SHALL BE TURNED OVER TO THE OWNER. SHOULD THE OWNER REFUSE THEM THEY SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE PREMESIS.

¼" = 1'-0"

0' 1' 2' 3' 4' 8' 12' 16'

STATE OF MAINE
Kurt F. Magnusson 10257
LICENSED PROFESSIONAL ENGINEER

MECHANICAL SYSTEMS ENGINEERS
ROYAL RIVER CENTER, UNIT #10
10 FOREST FALLS DRIVE
YARMOUTH, MAINE 04096
FACEBOOK: MECHANICAL SYSTEMS ENGINEERS
207-846-1441
© COPYRIGHT 2012

General Notes

ISSUED FOR CONSTRUCTION
11/5/2012

No.	Revision/Issue	Date

PIM
PORTLAND INTERNATIONAL JETPORT
Facilities & Engineering
1001 Westbrook ST
Portland, ME 04102
207-874-8877

Project Name and Address
SECURE EXIT PORTAL AND ASSOCIATED RENOVATIONS

Sheet Title
NEW MECHANICAL WORK

Project Number: 12-102
Date: Issued For Construction 11/25/2012
Scale: Reference Individual Drawings
Sheet: M1

October 29, 2012 - 7:43 am
M:\Projects\1235 Jetport Security Gate\Drawings\1235-M1.dwg