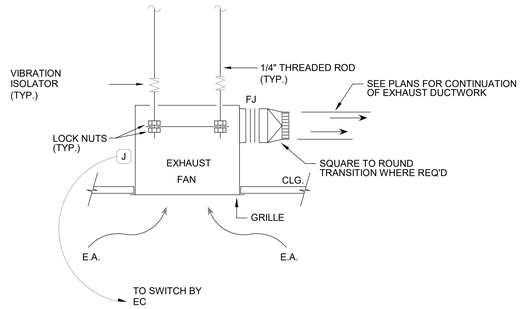
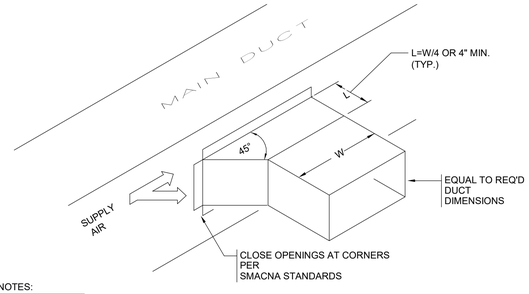


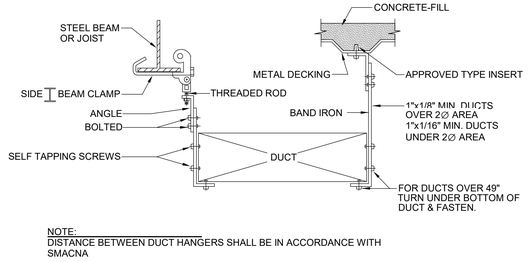
CEILING MOUNTED EXHAUST FAN DETAIL



NOTES:

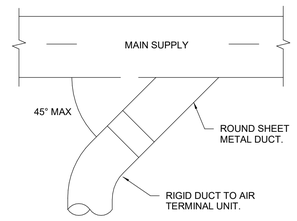
1. ALL BRANCH CONNECTIONS SHALL BE PER SMACNA STANDARDS.

TYPICAL BRANCH TAKE-OFF FITTING DETAIL

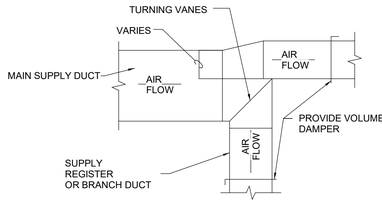


NOTE:
DISTANCE BETWEEN DUCT HANGERS SHALL BE IN ACCORDANCE WITH SMACNA

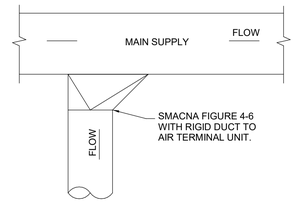
DUCT HANGER DETAIL



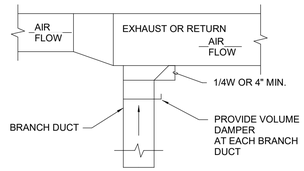
SUPPLY DUCT TAKEOFF - AIR TERMINAL UNIT



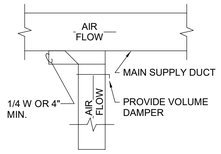
AIR SPLIT DUCT TAKE-OFF



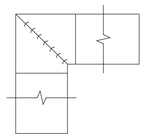
ALTERNATE SUPPLY DUCT TAKEOFF - AIR TERMINAL UNITS



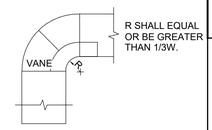
EXHAUST OR RETURN BRANCH DUCTWORK



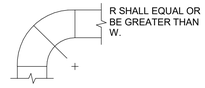
BRANCH DUCT TAKE-OFF



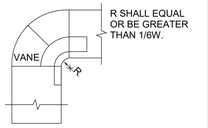
DUCTWORK SQUARE ELBOW DETAIL



SHORT RADIUS ELBOW WITH ONE VANE



STANDARD RADIUS OR LONG RADIUS ELBOW

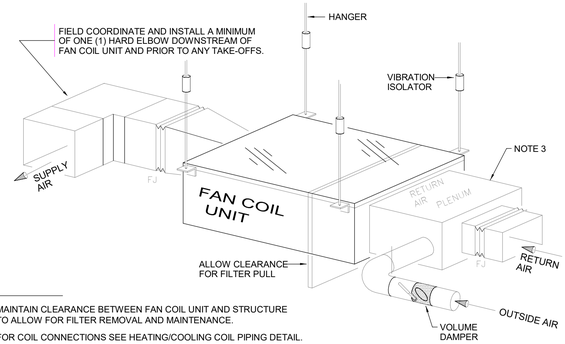


SHORT RADIUS ELBOW WITH TWO VANES

NOTES:

1. ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
2. WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE THICKNESS VANE TYPE REGARDLESS OF W DIMENSION.
3. ALL SINGLE THICKNESS VANES SHALL HAVE A 2" RADIUS, 1 1/2" MAXIMUM SPACE BETWEEN VANES AND A 3/4" TRAILING EDGE.
4. WHEN W EQUALS W2 AND W1 IS GREATER THAN 20" VANES SHALL BE DOUBLE VANE TYPE.
5. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
6. ALL STANDARD RADIUS ELBOWS CAN BE SUBSTITUTED WITH SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

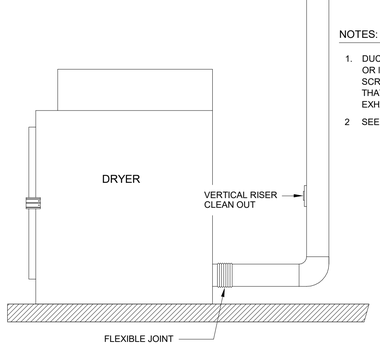
DUCTWORK TAP & FITTING DETAILS



NOTES:

1. MAINTAIN CLEARANCE BETWEEN FAN COIL UNIT AND STRUCTURE TO ALLOW FOR FILTER REMOVAL AND MAINTENANCE.
2. FOR COIL CONNECTIONS SEE HEATING/COOLING COIL PIPING DETAIL.
3. HEALTHCARE GRADE, FIBER-FREE, ANTI-MICROBIAL LINER

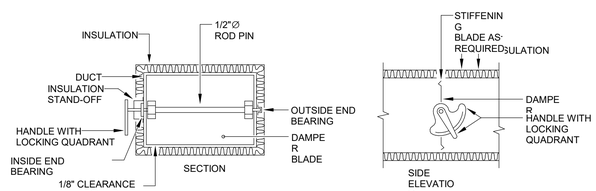
FAN-COIL UNIT DETAIL



NOTES:

1. DUCT SHALL NOT BE CONNECTED OR INSTALLED WITH SHEET METAL SCREWS OR OTHER FASTENERS THAT WILL OBSTRUCT THE EXHAUST FLOW.
2. SEE SECTION 23 31 13.

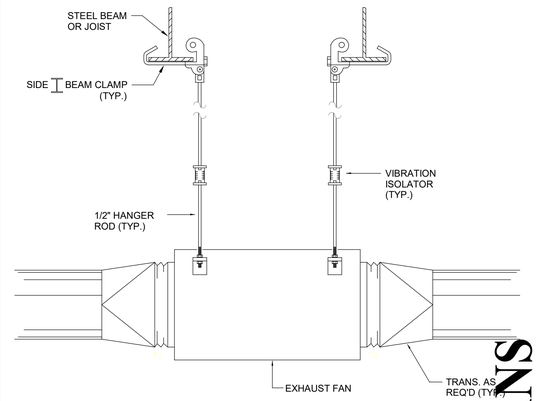
DRYER VENT DETAIL



NOTES:

1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
2. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

MANUAL VOLUME DAMPER DETAIL



NOTES:

1. INSTALL FAN IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

IN-LINE EXHAUST FAN DETAIL

WARNING – IT IS A VIOLATION OF NEW YORK EDUCATION LAW SECTION 7209.2, FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF NEW YORK EDUCATION LAW, SECTION 7209.2.

BID PLANS

DATE: 06/21/2023
DRAWN BY: AOS
SCALE: N.T.S.
REVIEWED BY: TJH
PROJECT NO.: 20-2006
FILE:

HESNOR ENGINEERING ASSOCIATES
WWW.HESNOR.COM
KEYSTONE ASSOCIATES ARCHITECTS, ENGINEERS AND SURVEYORS, LLC
DELAWARE ENGINEERING, D.P.C. CIVIL AND ENVIRONMENTAL CONSULTANTS
WWW.DELAWAREENGINEERING.COM

REVISIONS

NO.	DESCRIPTION	DATE

PORT EWEN FIRE DEPARTMENT, ULSTER, NEW YORK

MECHANICAL DETAILS

SHEET: M501