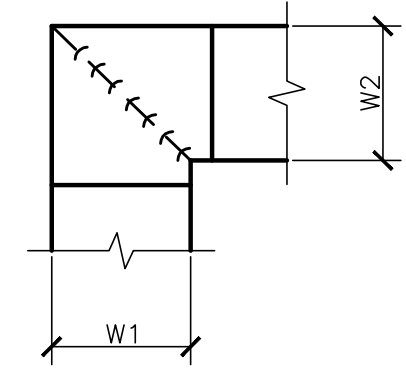


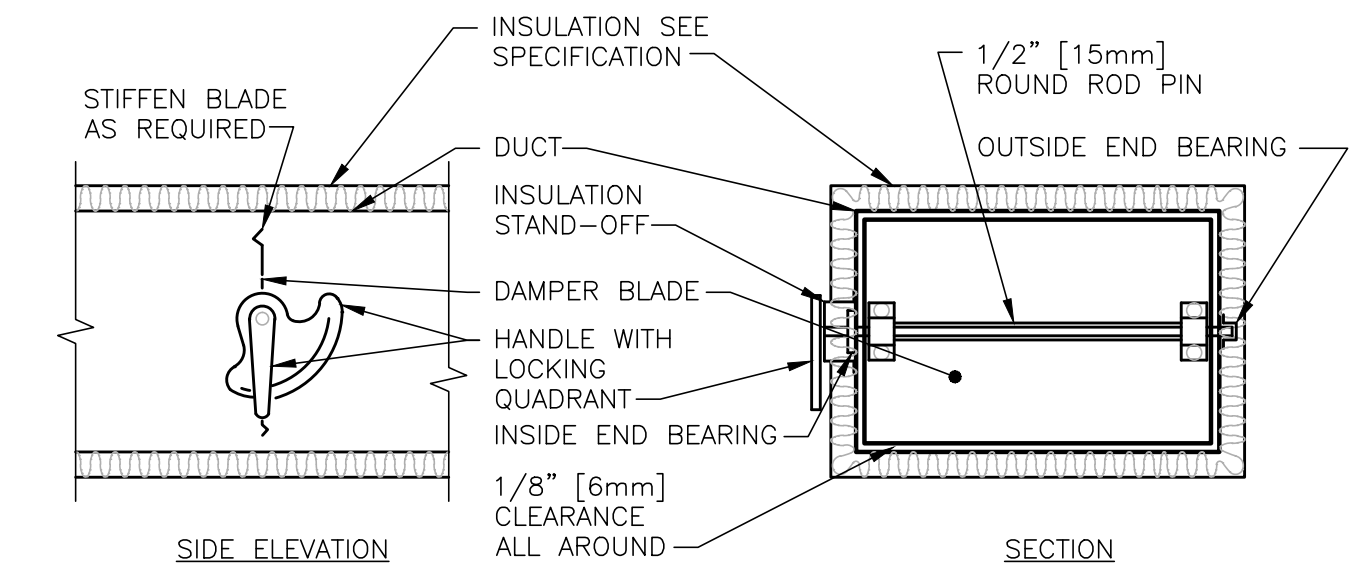
three inches = one foot
 one and one-half inches = one foot
 one inch = one foot
 three-quarters inch = one foot
 one-half inch = one foot
 three-eighths inch = one foot
 one-quarter inch = one foot
 one-eighth inch = one foot



- NOTE:**
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" [50mm] RADIUS, 1 1/2" [40mm] MAXIMUM SPACE BETWEEN VANES AND A 3/4" [20mm] TRAILING EDGE.
 4. WHEN W EQUALS W2 AND W1 IS GREATER THAN 20" [500mm] VANES SHALL BE DOUBLE VANE TYPE.

1 DUCTWORK SQUARE VANE ELBOWS

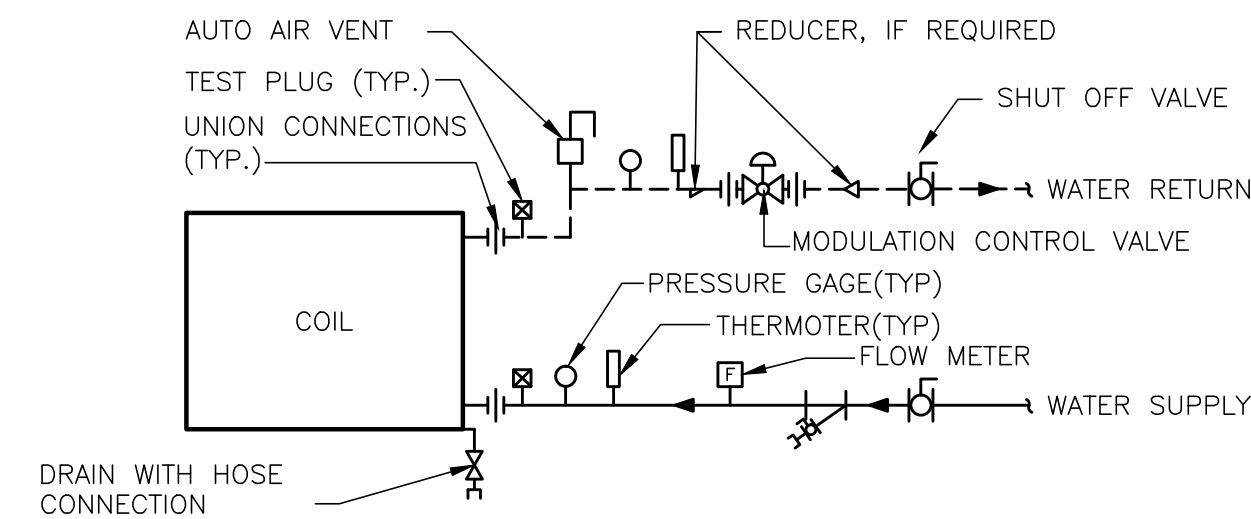
NTS



- NOTE:**
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.

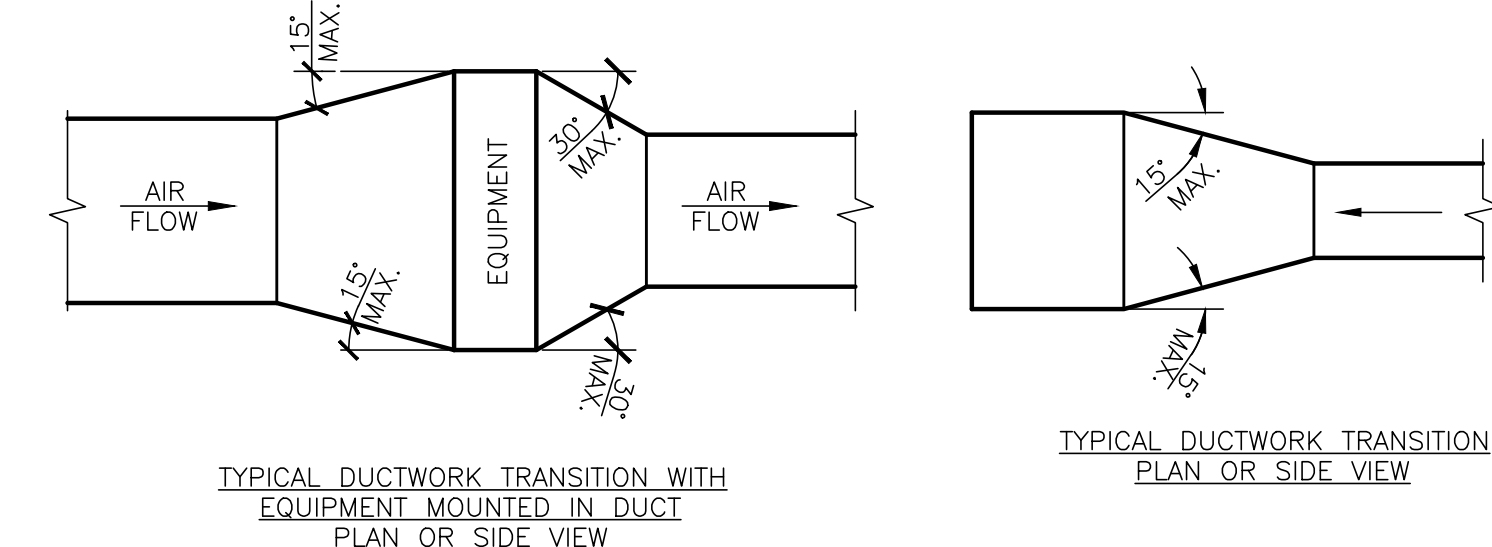
2 VOLUME DAMPER DETAIL

NTS



3 TERMINAL UNIT WATER COILS - PIPING CONNECTIONS

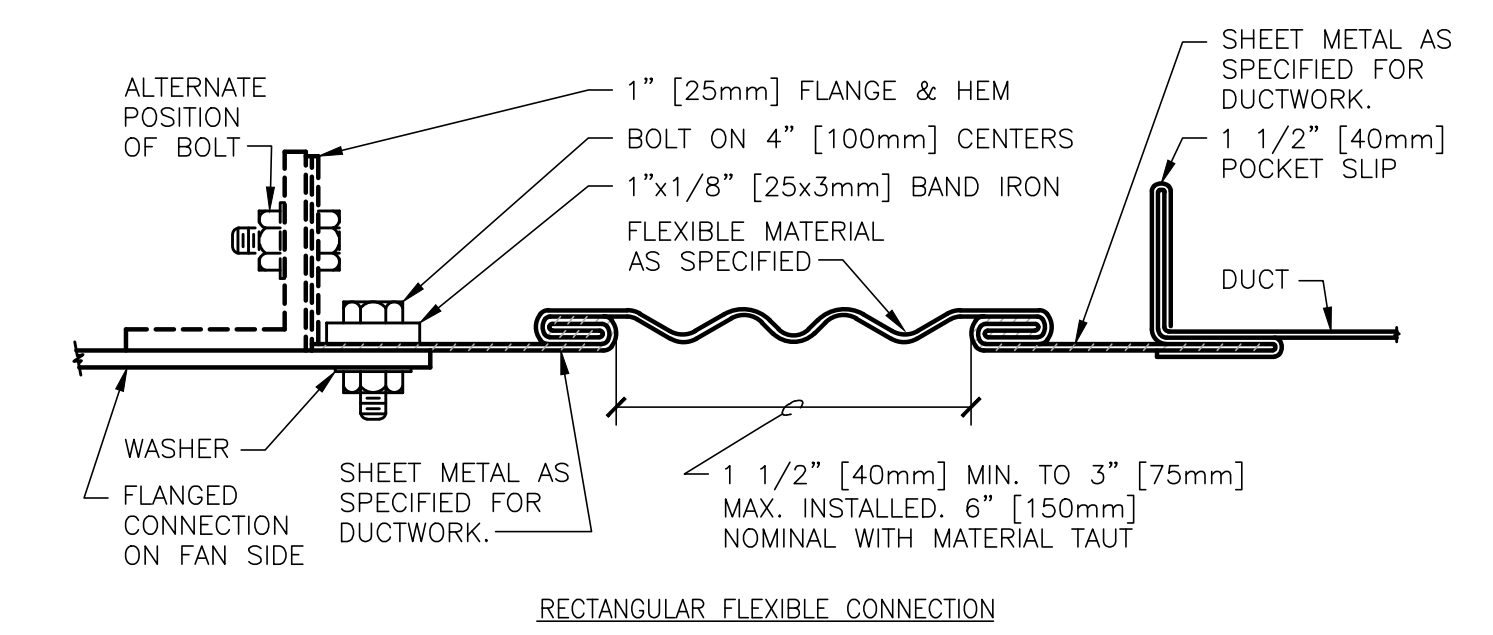
NTS



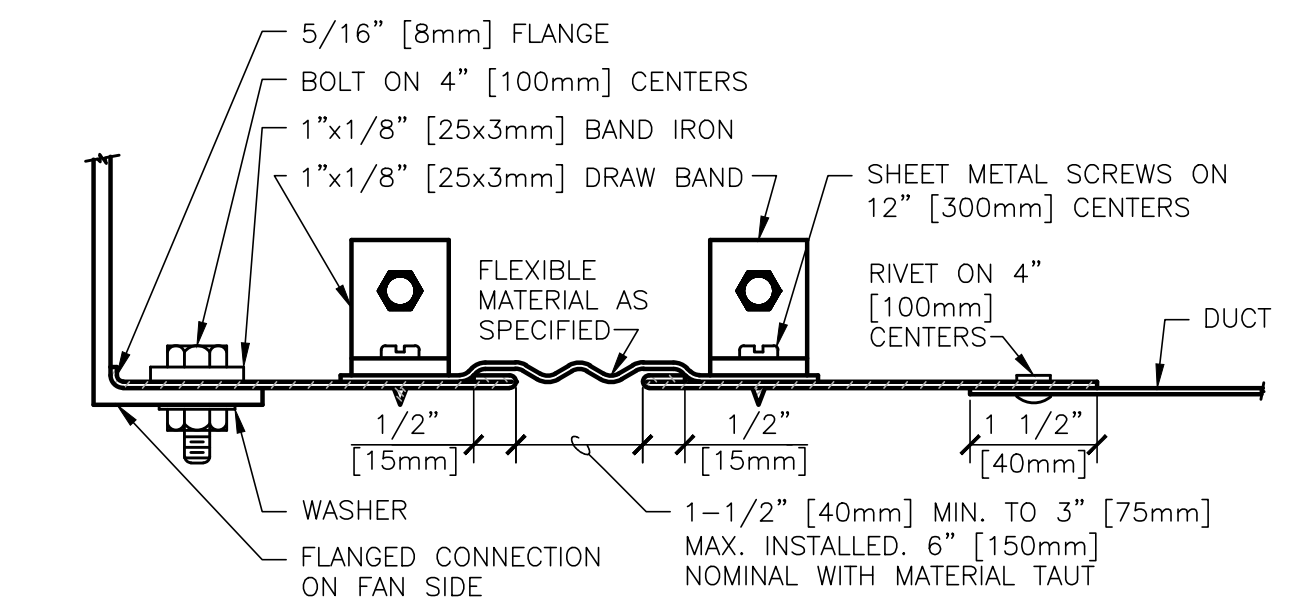
- NOTE:**
 UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

4 DUCTWORK TRANSITIONS (WITH EQUIPMENT MOUNTED IN DUCT)

NTS



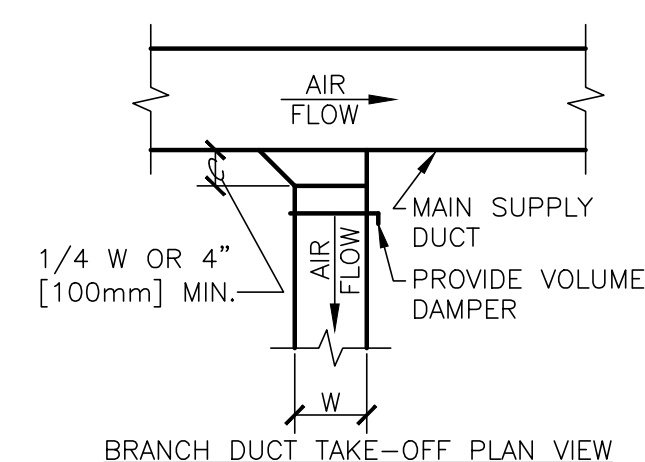
RECTANGULAR FLEXIBLE CONNECTION



ROUND FLEXIBLE CONNECTION

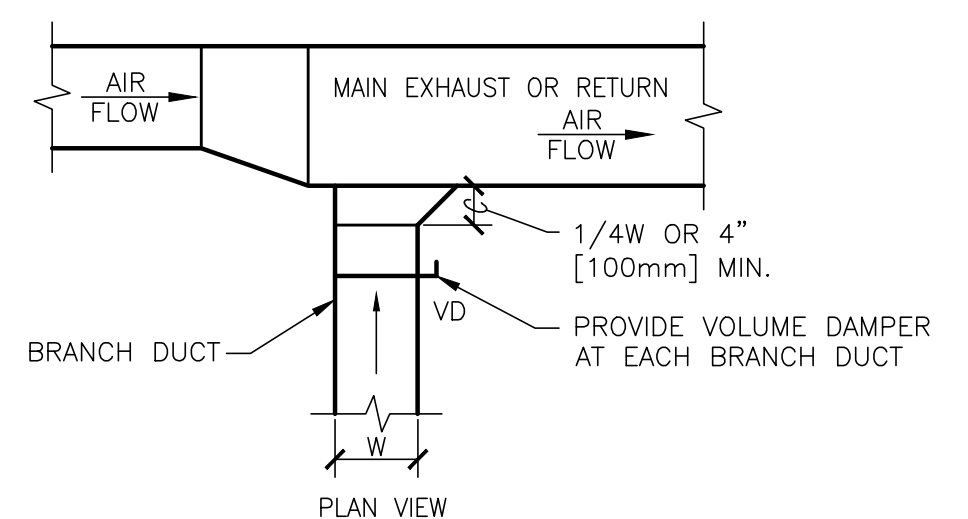
5 FLEXIBLE DUCT CONNECTIONS

NTS



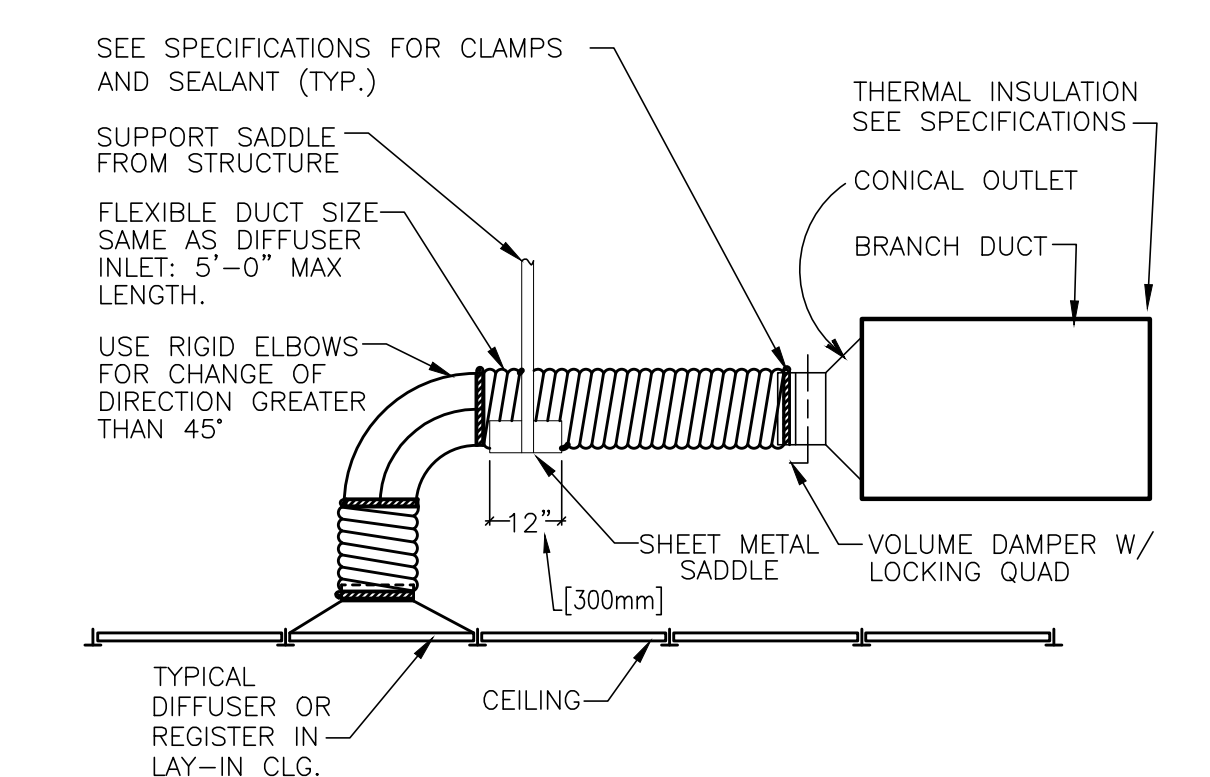
6 SUPPLY DUCTWORK TAKE-OFF

NTS



7 EXHAUST OR RETURN BRANCH DUCTWORK

NTS



- NOTE:**
 THE USE OF FLEXIBLE AIR DUCT CONNECTORS ARE NOT PERMITTED FOR THE DEDICATED AHU SERVING THE SURGICAL SUITE.

8 FLEXIBLE AIR DUCT CONNECTOR

NTS

Revisions	Date

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 MAINTENANCE FOREMAN _____
 MAINTENANCE FOREMAN _____

MISC HVAC DETAILS

Approved: Service Engineer _____
 Approved: Service Director _____

Project Title: **VA Gulf Coast Decontamination Unit**

Date: 7/17/2015

Project No.: 520-13-136

DRAWING NO.: **M202**

Dwg. Of: _____

FOR CONSTRUCTION

Office of Facilities

Department of Veterans Affairs