

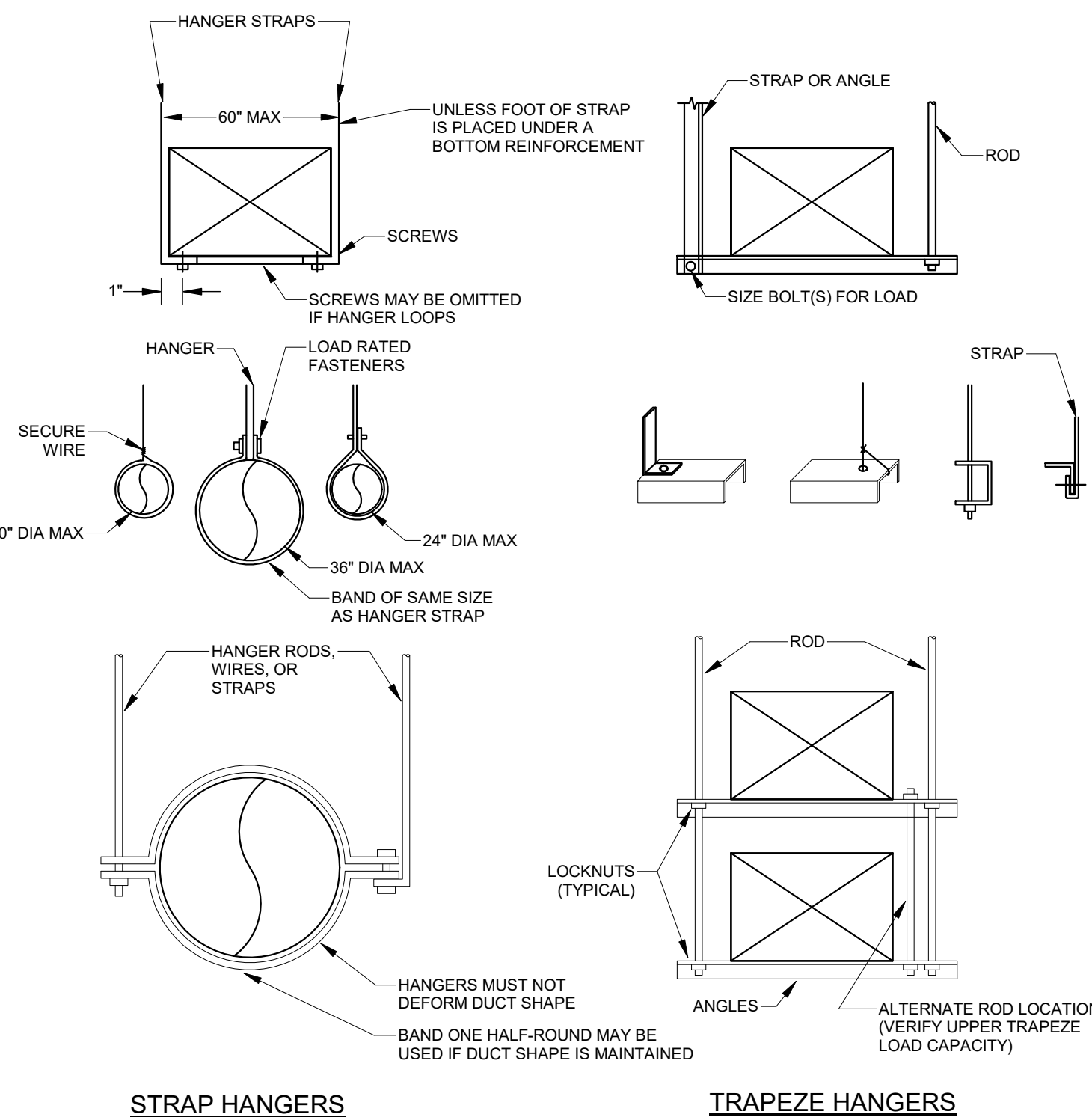
HARRIMAN

AUBURN PORTLAND PORTSMOUTH BOSTON

SAINT ANSELM COLLEGE  
LOWER LEVEL COOLING  
CARR CENTER

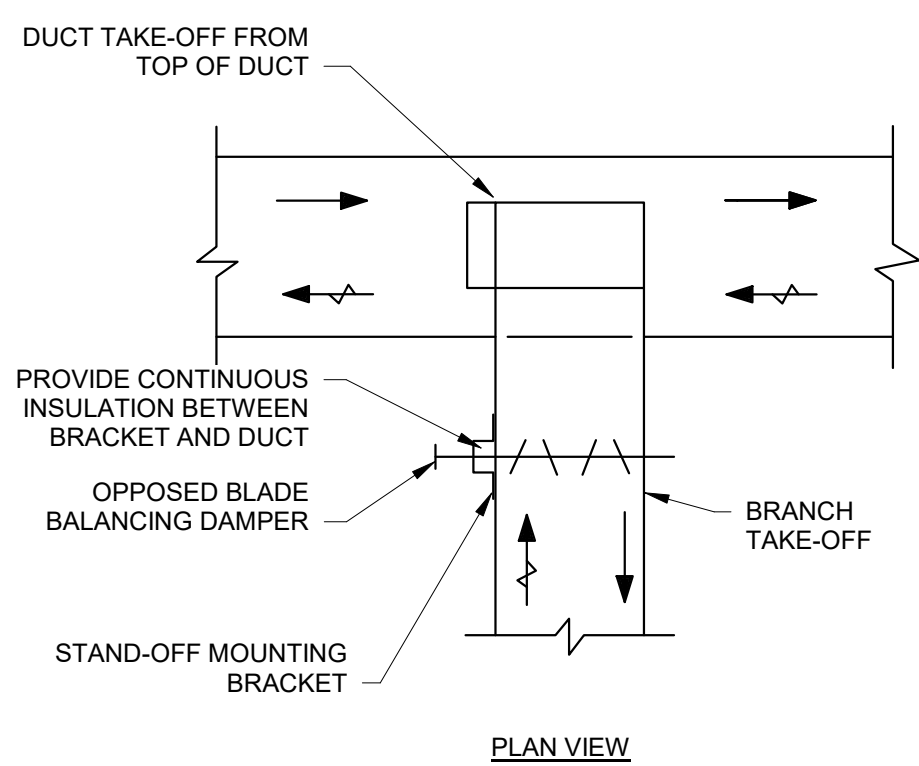
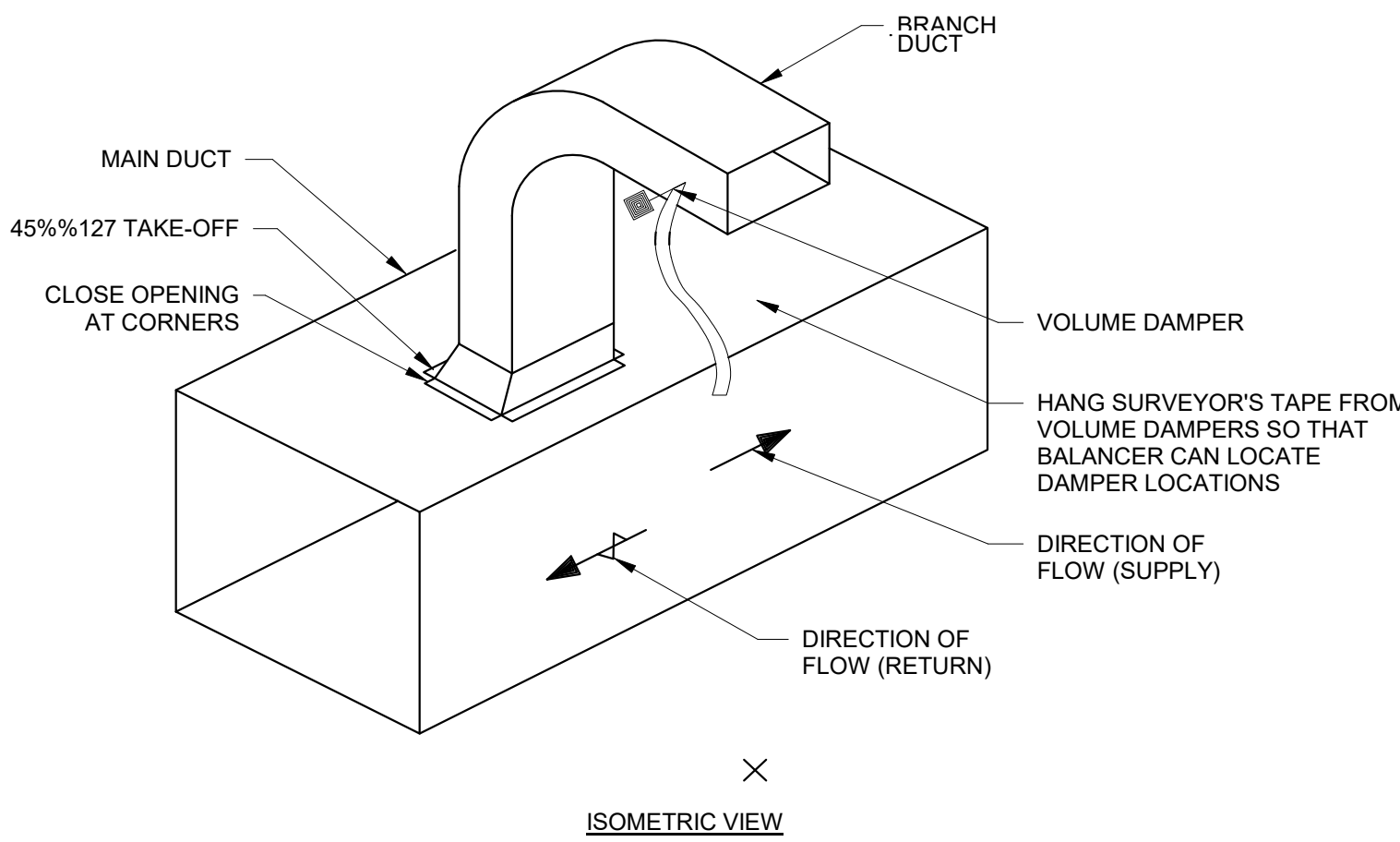
MANCHESTER, NEW HAMPSHIRE

Harriman Project No.	17343
Key Plan	Proj North



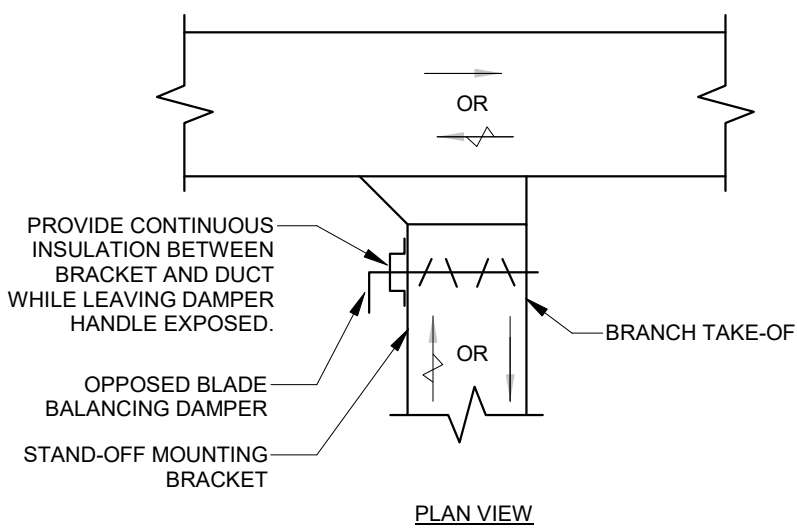
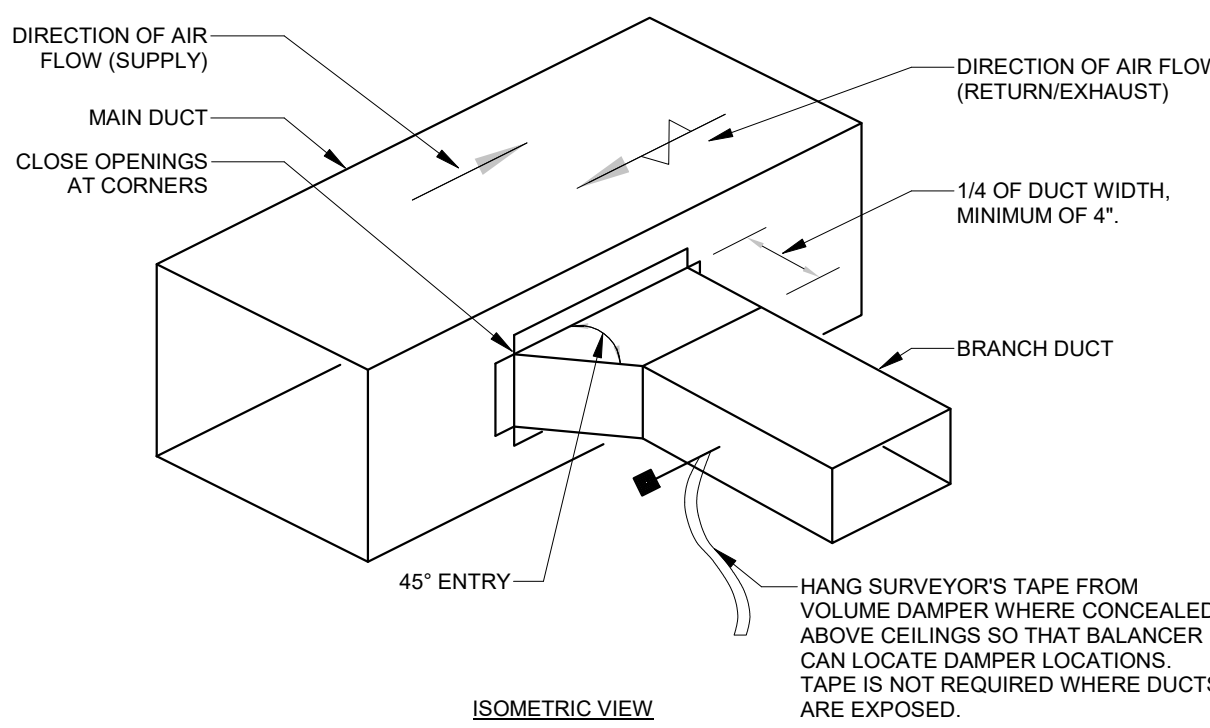
- NOTES:
1. REINFORCEMENT MAY BE USED FOR ATTACHMENT IF IT QUALIFIES FOR BOTH DUTIES.
  2. ATTACH HANGERS TO TOP CHORD OF JOISTS.
  3. DO NOT EXCEED ALLOWABLE LOAD LIMITS.

5 LOWER HANGER ATTACHMENT  
NO SCALE



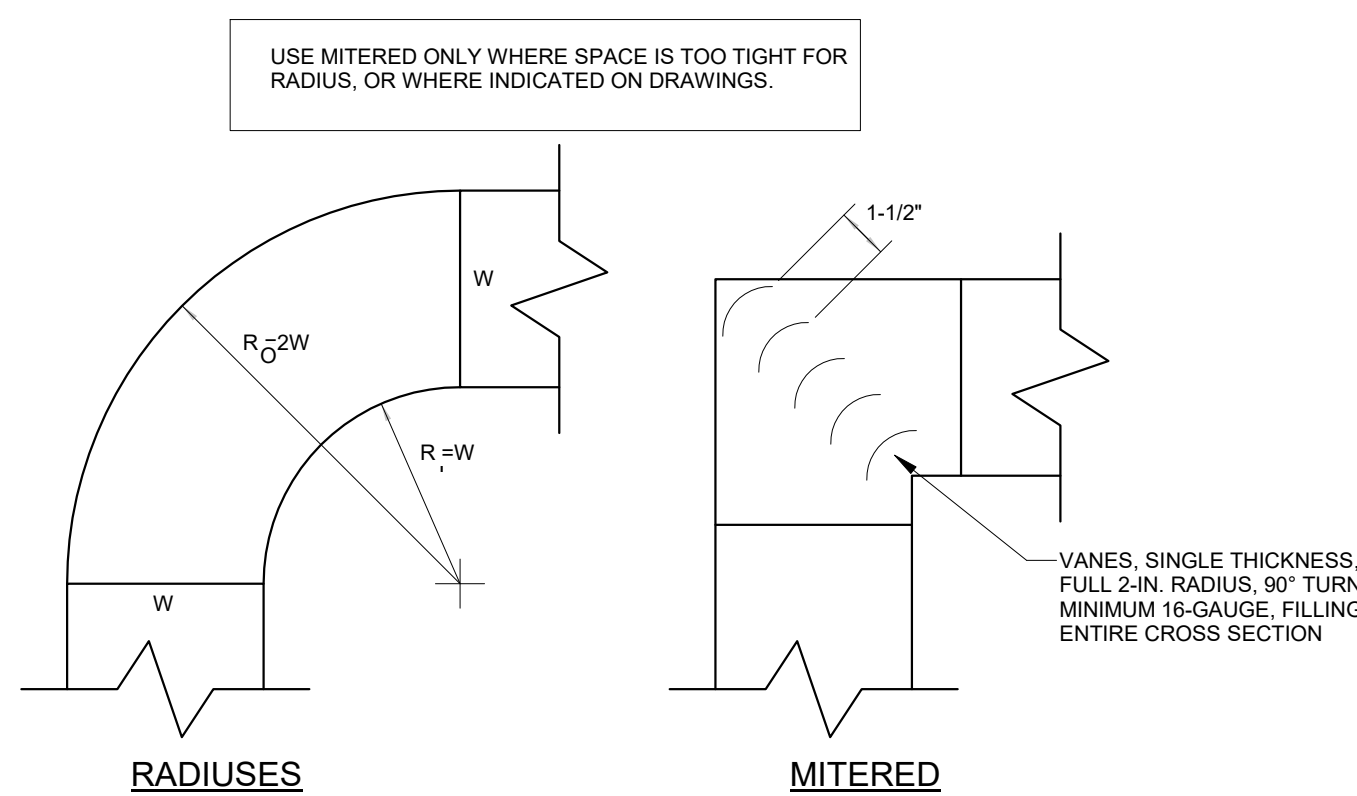
INSULATED SUPPLY AND RETURN DUCTWORK SHALL BE INSTALLED WITH STAND-OFF MOUNTING BRACKETS FOR VOLUME/BALANCING DAMPER OPERATORS. ALLOW CLEARANCE BETWEEN DUCT AND OPERATOR OF NOT LESS THAN INSULATION THICKNESS.

3 TOP BRANCH TAKE-OFF  
NO SCALE



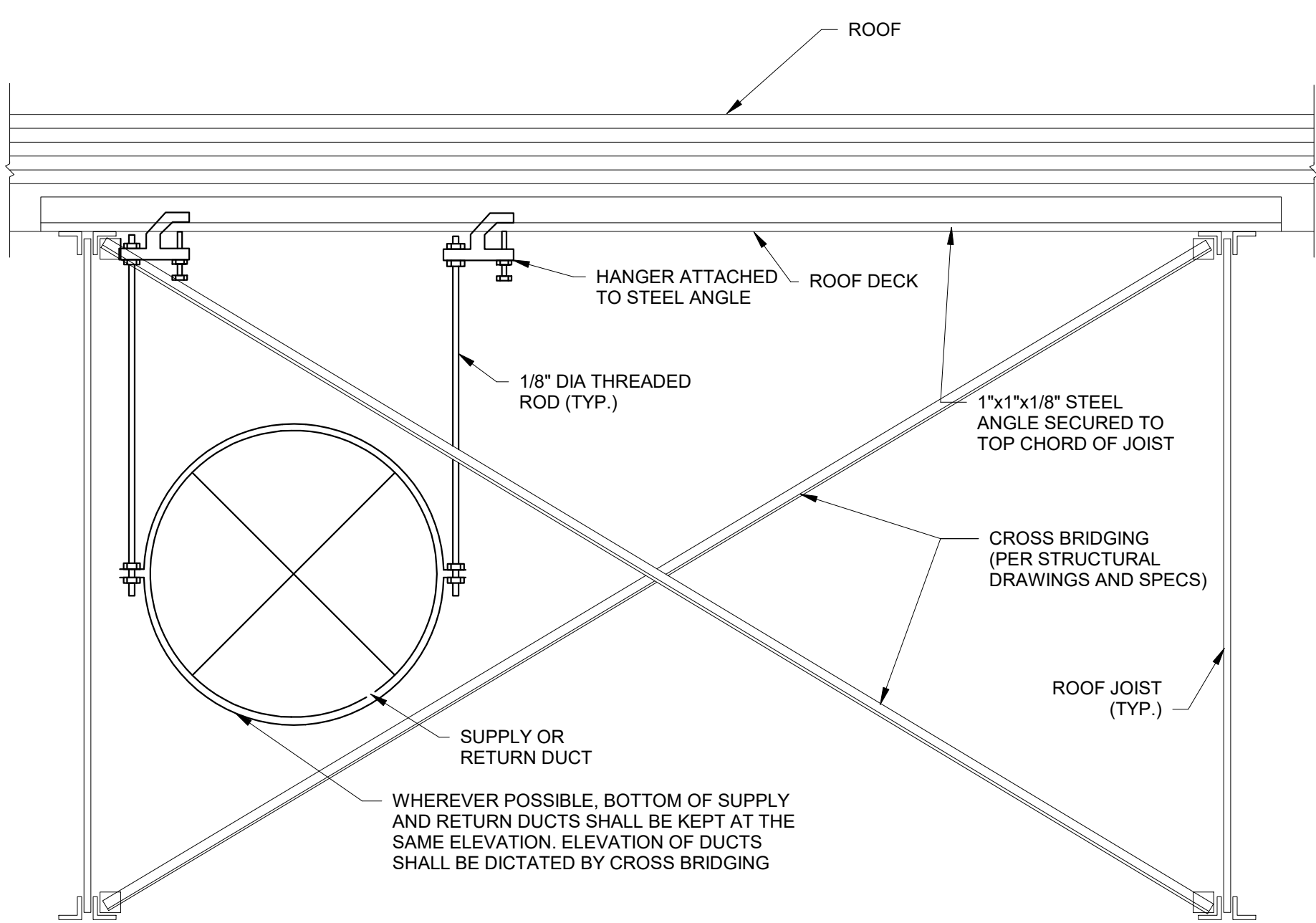
- VOLUME DAMPERS:
1. PROVIDE STAND-OFF BRACKETS ON INSULATED DUCTS.
  2. INSULATE UNDER BRACKETS. SEAL VAPOR BARRIER TO BRACKETS.
  3. PROVIDE LOCKING, INDICATING QUADRANTS.

2 SIDE BRANCH TAKE-OFF  
NO SCALE



PRIOR TO INSTALLATION OF ANY ELBOWS, SUBMIT TO THE ENGINEER A SAMPLE OF EACH TYPE OF 90-DEGREE ELBOW, AT LEAST 12x12 DUCT SIZE, BUT MAY BE LARGER IF IT IS TO BE USED IN THE PROJECT. DELIVER TO THE ENGINEER'S OFFICE. ALLOW AT LEAST 1 WEEK NOTICE FOR REVIEW. APPROVED SAMPLES MAY BE RETURNED TO THE CONTRACTOR FOR USE IN THE PROJECT - PROVIDE RETURN SHIPPING SERVICES AS REQUIRED.

1 DUCT ELBOW  
NO SCALE



4 HANGERS FOR EXPOSED DUCTWORK  
NO SCALE

PRELIMINARY  
NOT FOR  
CONSTRUCTION

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DETAILS

M30.1