

DIFFUSER & REGISTER SCHEDULE					
TYPE	MANUFACTURER	MODEL & SIZE	FUNCTION	DESCRIPTION	REMARKS
A	KRUEGER	1450 12x12	SUPPLY	SQUARE CONE DIFFUSER - THREE CONE - 12X12 FACE MODULE	SURFACE MOUNT
B	KRUEGER	890 24x24	RETURN/TRANSFER	LOUVERED RETURN GRILLE - 3/4" SPACING - 35 DEGREE DEFLECTION	LAY-IN
C	KRUEGER	1450 24x24	SUPPLY	SQUARE CONE DIFFUSER - THREE CONE - 24X24 FACE MODULE	LAY-IN, REPLACEMENT FOR EXISTING SUPPLY DIFFUSERS
D	KRUEGER	890 12X12	RETURN/TRANSFER	LOUVERED RETURN GRILLE - 3/4" SPACING - 35 DEGREE DEFLECTION	SURFACE MOUNT, REPLACEMENT FOR EXISTING RETURN GRILLES

NOTES:  
1. ALL NECK SIZES ARE NOTED ON DRAWINGS.  
2. THROW PATTERNS ARE 4-WAY UNLESS NOTED OTHERWISE.  
3. PROVIDE OPPOSED BLADE DAMPER.  
4. COLOR BY ARCHITECT.

MECHANICAL LEGEND AIR SYSTEMS	
SYMBOL	DESCRIPTION
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	RETURN OR EXHAUST DUCT UP
	RETURN OR EXHAUST DUCT DN
	EXISTING DUCT (SINGLE LINE)
	EXISTING DUCT (DOUBLE LINE)
	NEW DUCT (SINGLE LINE)
	NEW DUCT (DOUBLE LINE)
	ACCOUSTICALLY LINED DUCT (SINGLE LINE)
	ACCOUSTICALLY LINED DUCT (DOUBLE LINE)
	DUCT TO BE REMOVED (SINGLE LINE)
	DUCT TO BE REMOVED (DOUBLE LINE)
	FLUSH CAP, SINGLE LINE
	SUPPLY DIFFUSER
	RETURN/EXHAUST GRILLE
	LINEAR DIFFUSER
	SUPPLY AIR FLOW
	RETURN/EXHAUST AIR FLOW
	VOLUME DAMPER (PLAN VIEW)
	WALL TEMP SENSOR
	BRANCH OFF TOP OF MAIN
	BRANCH OFF BOTTOM OF MAIN
	ELBOW, TURNED DOWN
	ELBOW, TURNED UP
	PIPING TO BE REMOVED
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN

**MECHANICAL GENERAL NOTES**

- PROVIDE NEW DUCTWORK, DIFFUSERS AND GRILLES WHERE SHOWN. SEE SPECIFICATIONS. COORDINATE NEW DIFFUSER LOCATIONS WITH ARCHITECT'S REFLECTED CEILING PLAN.
- COORDINATE NEW DUCTWORK WITH STRUCTURAL STEEL, PLUMBING PIPING, LIGHTS, ETC. OFFSET NEW DUCTWORK AS REQUIRED. CONTRACTOR SHALL FIELD VERIFY AVAILABLE CEILING CLEARANCE PRIOR TO BID.
- DUCT SIZING SHOWN INDICATES CLEAR INSIDE DIMENSIONS OF DUCT AND INSULATION.
- THIS PLAN IS GENERALLY SCHEMATIC IN NATURE. EVERY ELBOW, FITTING, ETC. IS NOT SHOWN. PROVIDE SUCH COMPONENTS AS REQUIRED FOR COMPLETE INSTALLATION, PROPERLY COORDINATED WITH ALL TRADES.
- PROVIDE VOLUME DAMPERS IN ALL SUPPLY, RETURN, OUTSIDE AIR AND EXHAUST BRANCH DUCTS AS REQUIRED TO PROPERLY BALANCE THE ENTIRE AIR SYSTEM.
- FLEXIBLE DUCT RUNOUTS TO SUPPLY DIFFUSERS ARE SAME SIZE AS DIFFUSER INLET UNLESS INDICATED OTHERWISE. REFER TO FLEX DUCT SCHEDULE.
- INSTALL ACCESS DOORS AT ALL COILS, DAMPERS AND CONTROL DEVICES.
- ALL MATERIALS, METHODS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
- THERMOSTAT AND SWITCH LOCATIONS SHALL BE GENERALLY AS SHOWN. ACTUAL LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS.

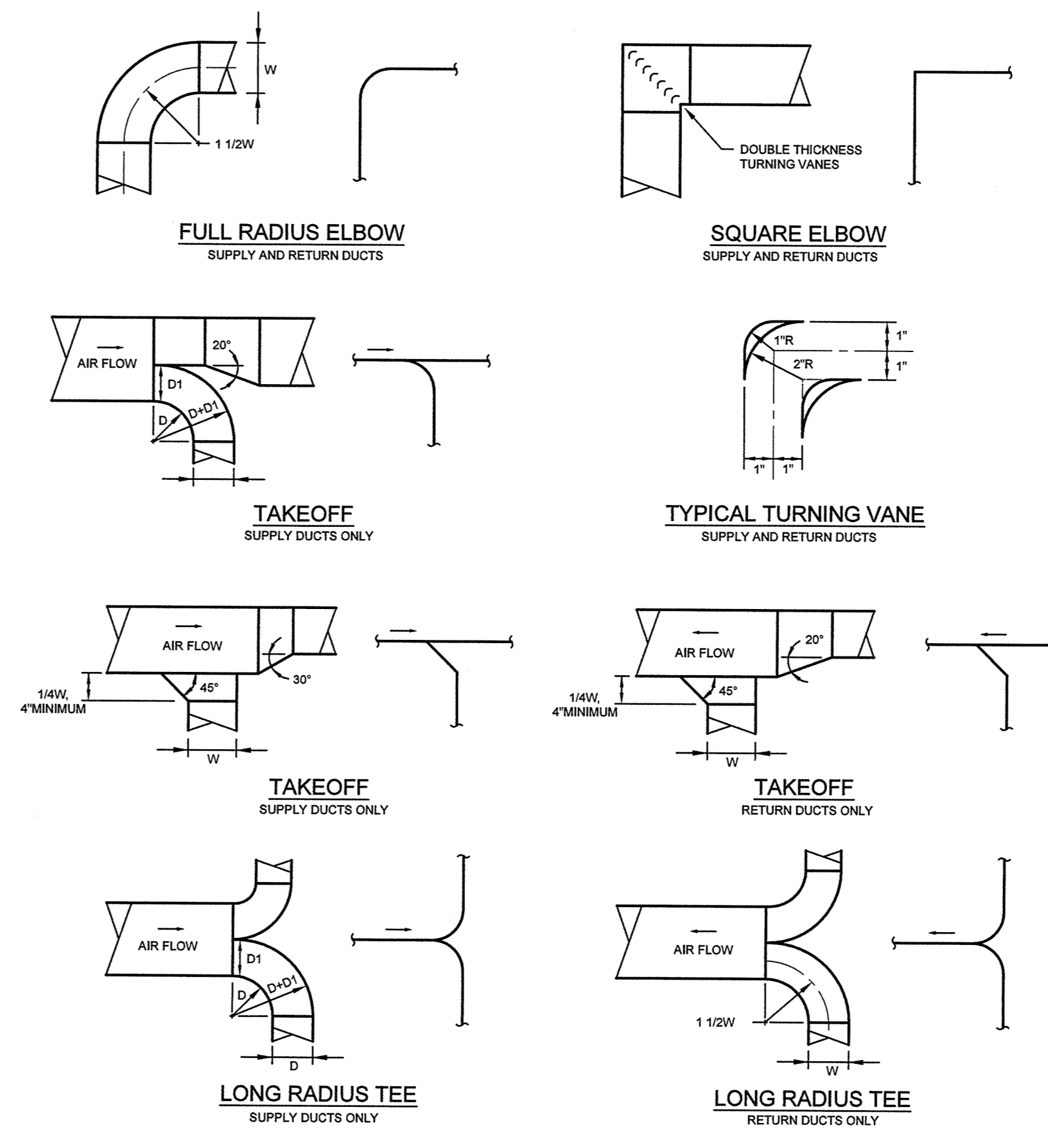
**MECHANICAL LEGEND  
TERMINAL UNIT TAGS**

DIFFUSER TAG	DIFFUSER TYPE PER SCHEDULE	DIFFUSER TYPE PER SCHEDULE
	AXIAL 12X12	CFM
	ROUND 8X8	CFM

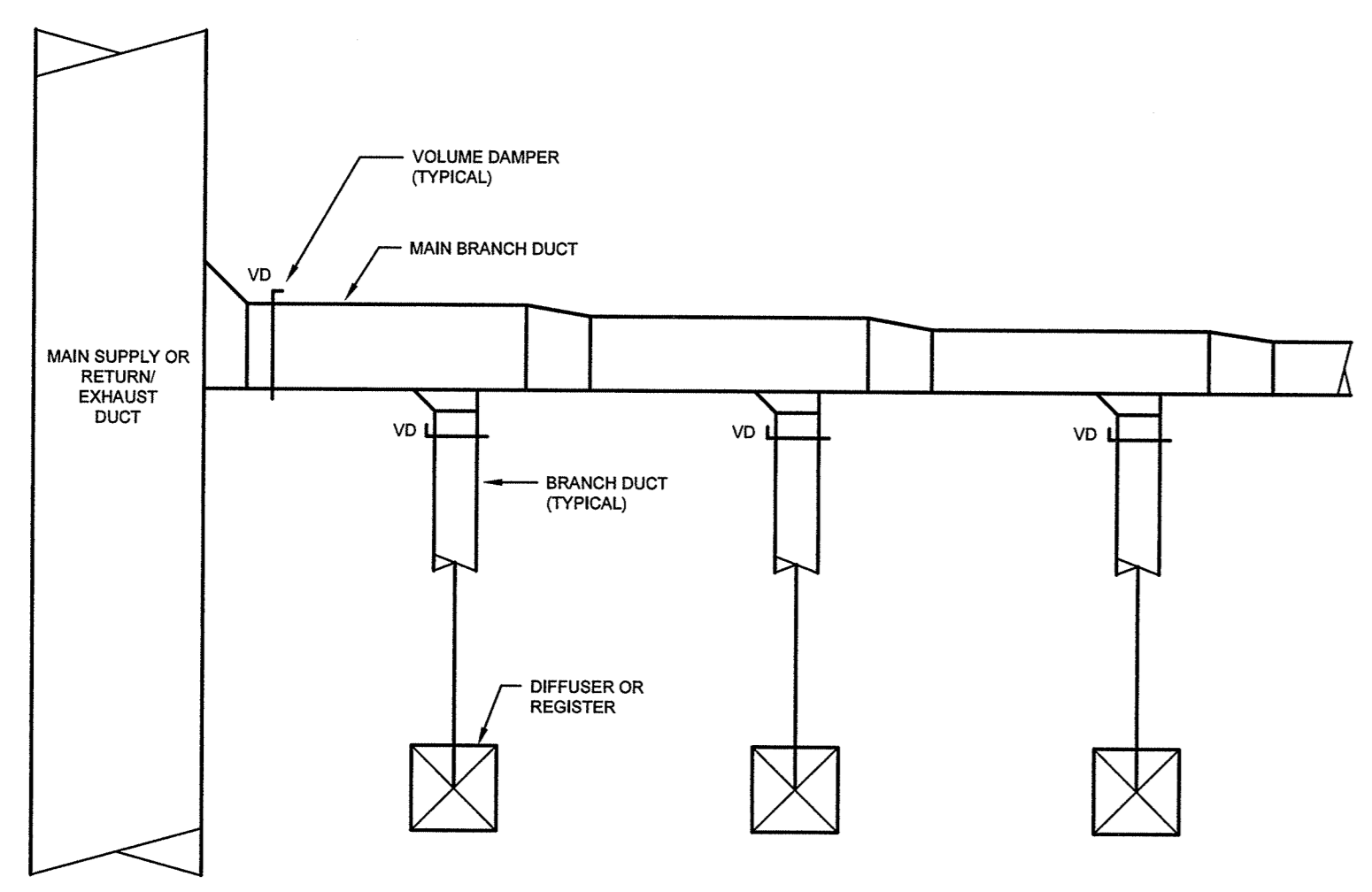
RECTANGULAR NECK SIZE  
ROUND NECK SIZE  
NOTE: ALL DIMENSIONS ARE IN INCHES

**LEGEND NOTE**

THESE ARE THE GENERAL LEGENDS OF SYMBOLS AND ABBREVIATIONS, AND SHALL BE USED AS A DICTIONARY TO DEFINE ITEMS INDICATED ON DRAWINGS. NOT ALL SYMBOLS OR ABBREVIATIONS DEFINED ARE NECESSARILY USED ON THIS PROJECT.

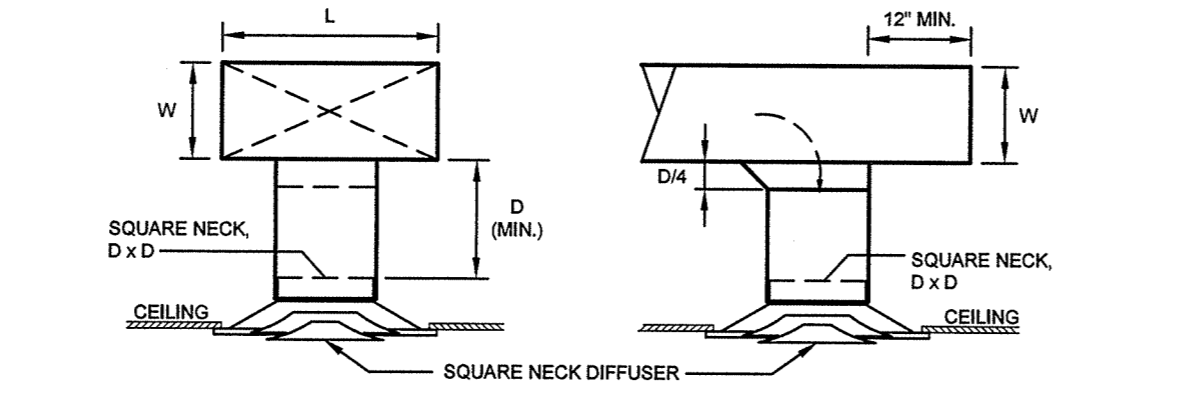


**TYPICAL DUCT DETAILS  
WITH SINGLE LINE REPRESENTATION**  
NOT TO SCALE

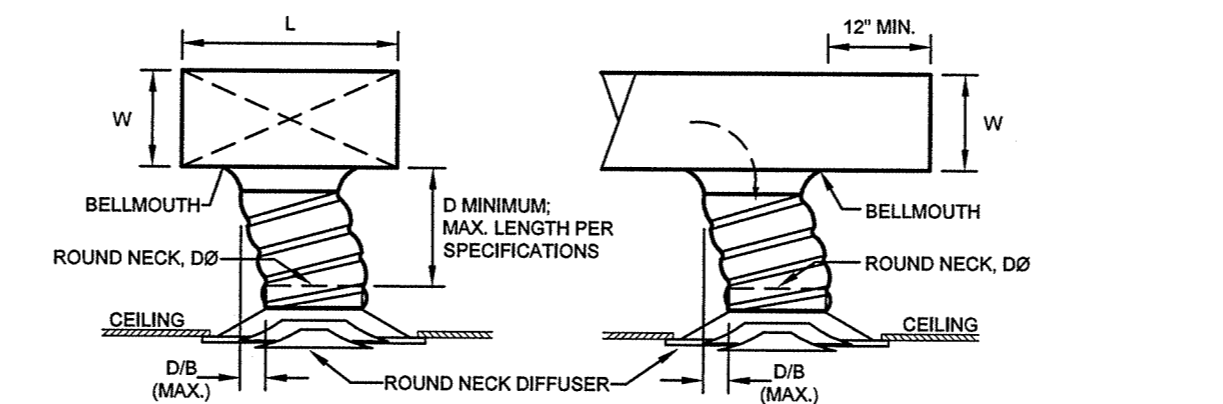


**TYPICAL VOLUME DAMPER LOCATION DETAIL**  
NOT TO SCALE

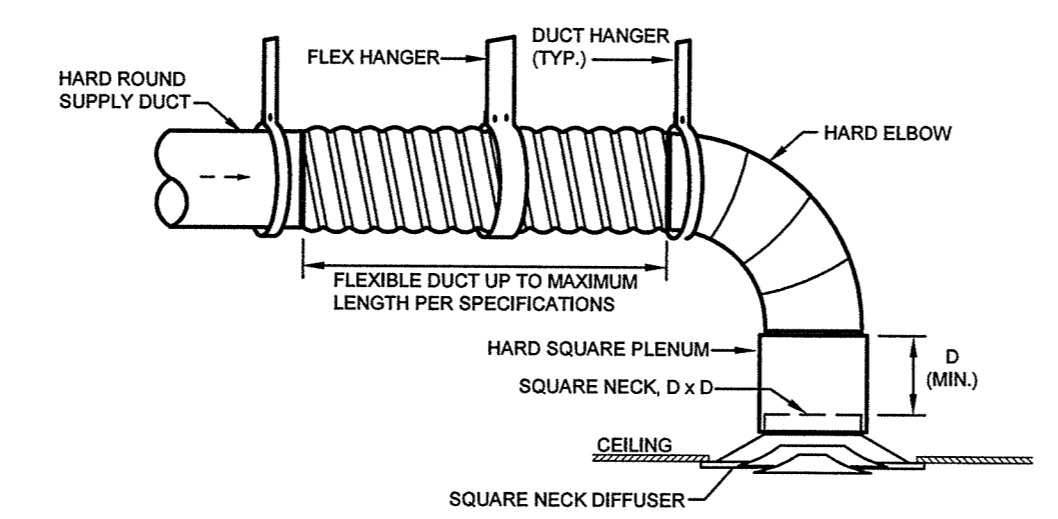
- NOTES:
- PROVIDE VOLUME DAMPERS IN EVERY SUPPLY, RETURN AND EXHAUST MAIN BRANCH DUCTWORK AND DIFFUSER/REGISTER BRANCH DUCTWORK AS INDICATED ABOVE AND AS REQUIRED TO PROPERLY BALANCE EACH SYSTEM.
  - PROVIDE ADDITIONAL VOLUME DAMPERS AS SHOWN ON CONTRACT DOCUMENTS.
  - DO NOT PROVIDE VOLUME DAMPERS IN GREASE OR HAZARDOUS EXHAUST SYSTEMS.



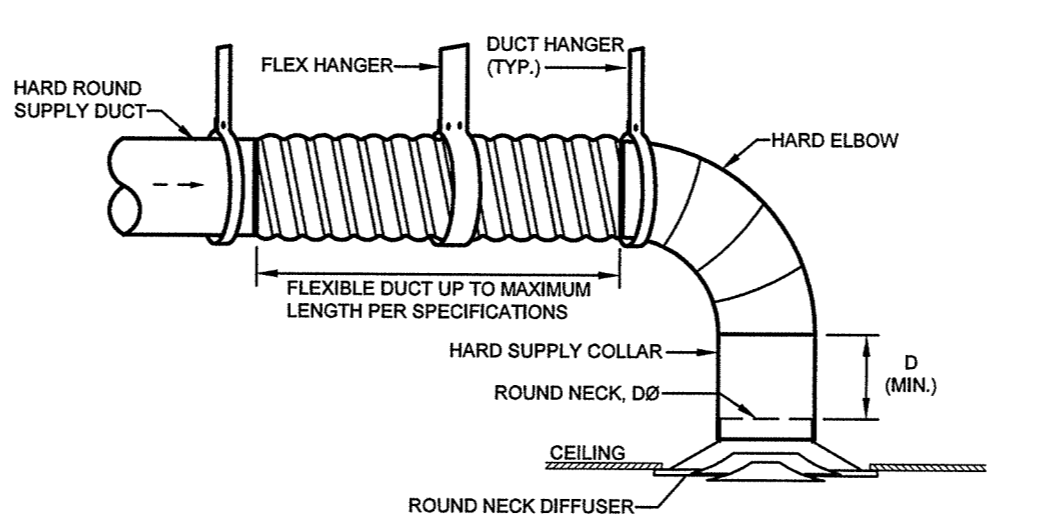
**BOTTOM TAKEOFF FOR CONNECTION TO SQUARE NECK DIFFUSER**  
NOT TO SCALE



**BOTTOM TAKEOFF FOR FLEX CONNECTION TO ROUND NECK DIFFUSER**  
NOT TO SCALE

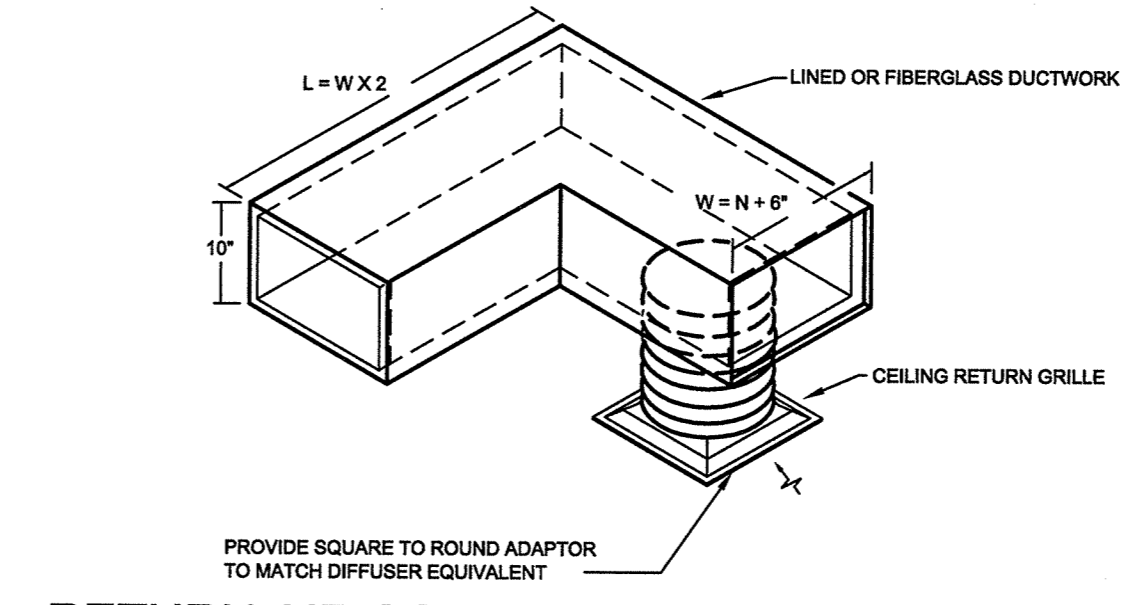


**ROUND CONNECTION TO SQUARE NECK DIFFUSER**  
NOT TO SCALE

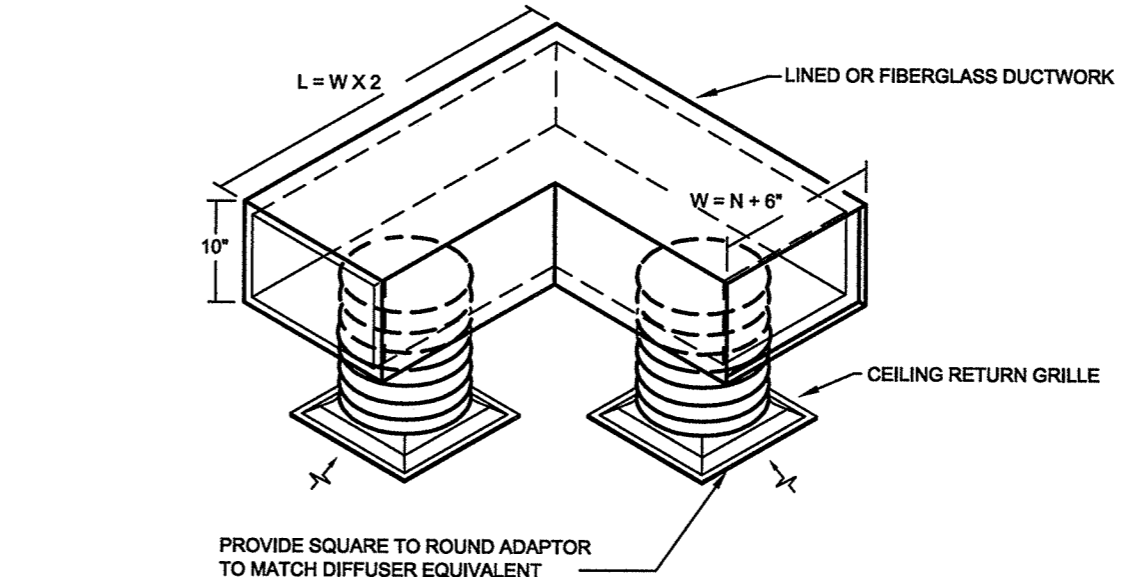


**ROUND CONNECTION TO ROUND NECK DIFFUSER**  
NOT TO SCALE

**TYPICAL CEILING DIFFUSER DUCT  
CONNECTION DETAILS**  
NOT TO SCALE



**RETURN AIR SOUND ELBOW**  
NOT TO SCALE



**RETURN AIR SOUND ELBOW WITH TWO GRILLES**  
NOT TO SCALE

MECHANICAL LEGENDS, SCHEDULES AND DETAILS

Revisions

1	Owner's Review Comments/ Issue for Bid 5/26/16

Date: 5/23/16  
Scale: 1/8" = 1'-0"  
Project Number: 16023  
Drawn By: A.J.D.