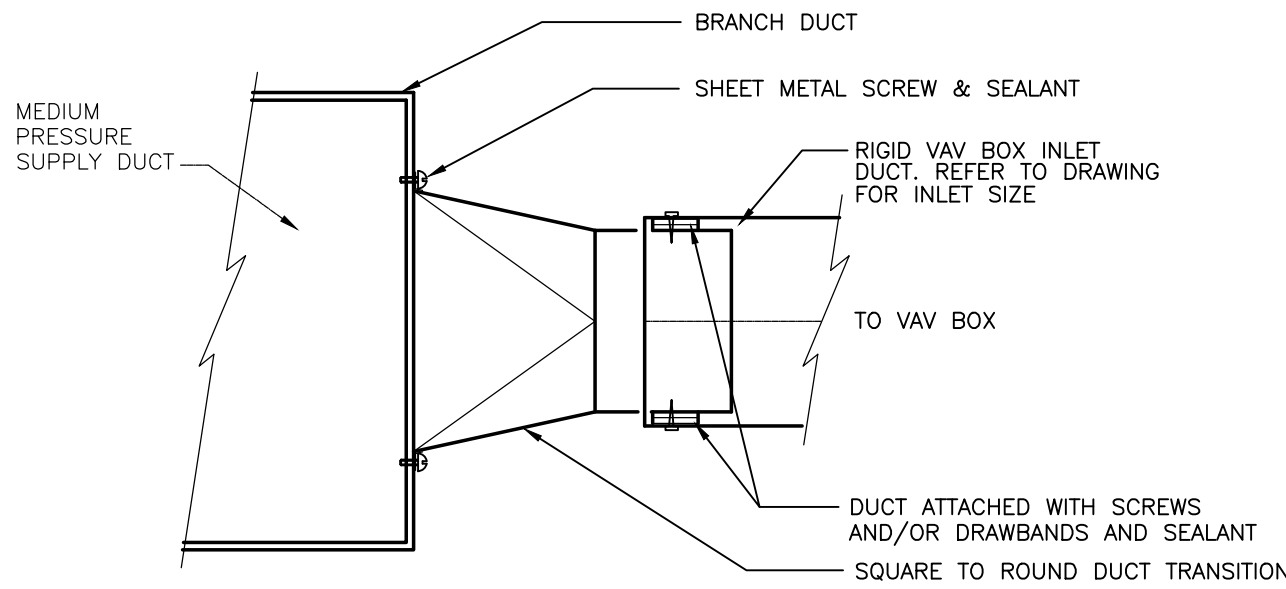
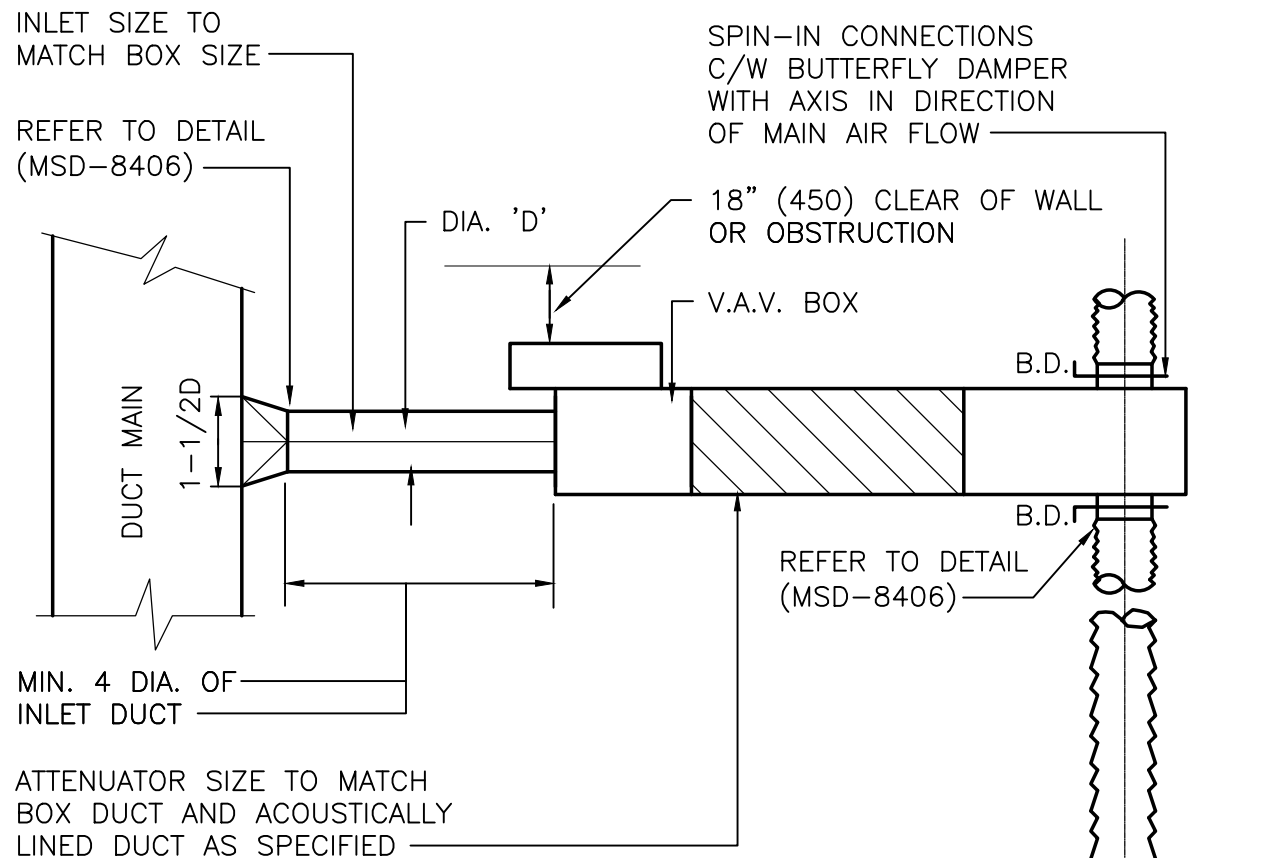


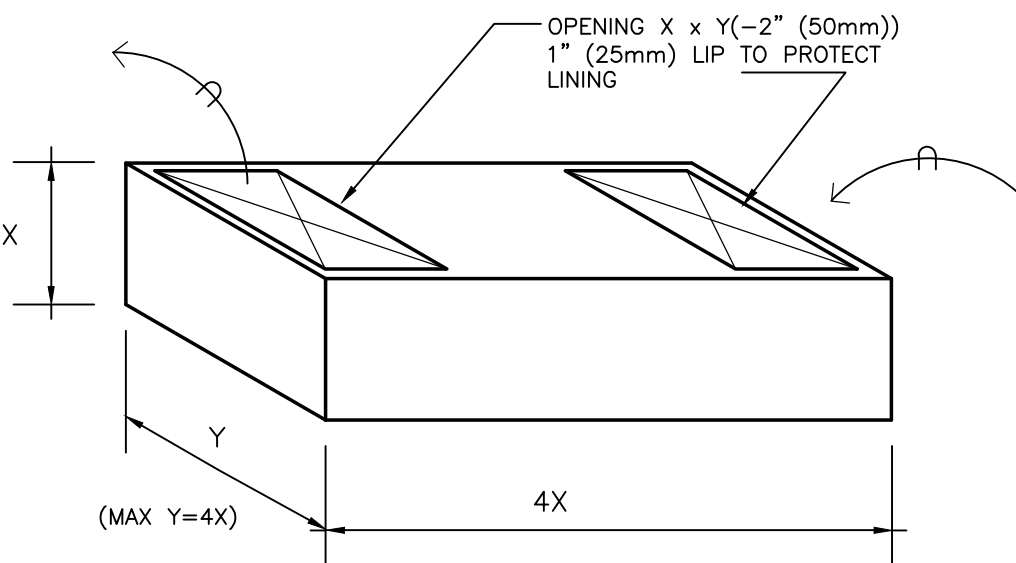
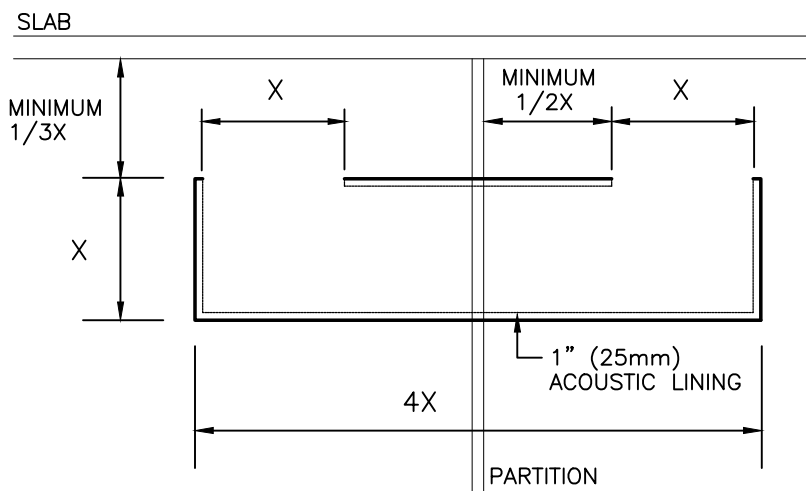
**FLEXIBLE DUCT SPIN-IN CONNECTION**



**VAV BOX INLET**

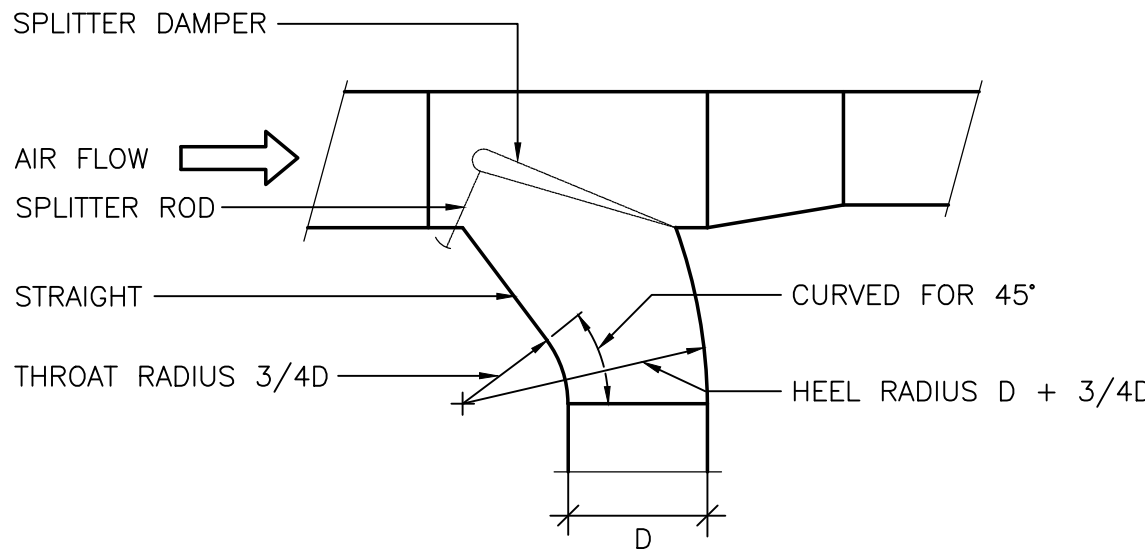


**TYPICAL V.A.V. BOX INSTALLATION**  
(MSD-840.04)

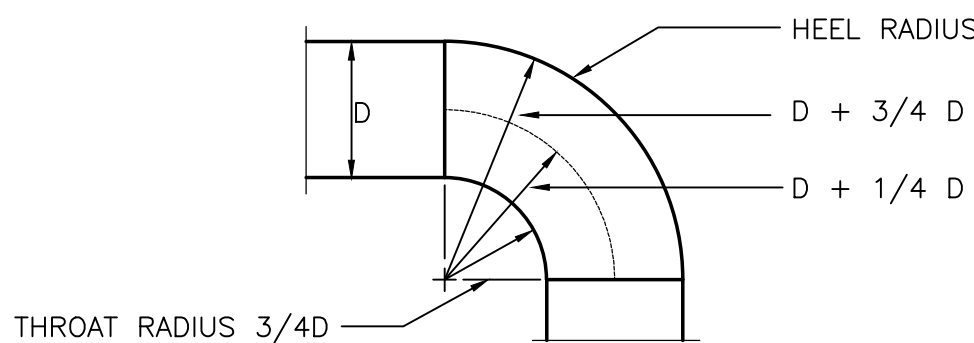


**NOTES:**

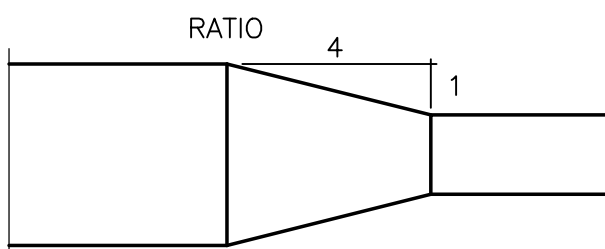
TOTAL FREE AREA NOTED ON DRAWINGS.  
CONTRACTOR TO PROVIDE MULTIPLE  
TRANSFER AIR DUCTS OF SMALLER  
DIMENSIONS TO SUIT SITE CONDITIONS  
AS REQUIRED



**SINGLE TAKE - OFF**



**FULL RADIUS ELBOW (FOR HORIZONTAL)**



**TRANSFORMATION**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	FIRE DAMPER		SMOKE DAMPER
	MOTOR OPERATED DAMPER		POSITIVE SEAL DAMPER
	MANUAL DAMPER		GRAVITY OR BACKDRAFT DAMPER
	BALANCING DAMPER		SPLITTER DAMPER
	COMBINATION SMOKE AND FIRE DAMPER		
	VOLUME EXTRACTOR		

**V.A.V. AND F.P.V.A.V. TAG**

V.A.V. BOX TYPE MIN. FLOW (L/s) IMPERIAL: CFM, [INS.]  
MAX. FLOW (L/s) METRIC: L/s, [mm]

MIN. PRIMARY FLOW FAN POWERED V.A.V. BOX TYPE MAX. PRIMARY FLOW (L/s) IMPERIAL: CFM, [INS.]  
SECONDARY FLOW (L/s) METRIC: L/s, [mm]  
RHC REHEAT COIL CAPACITY (KW)

	V.A.V. BOX (VARIABLE AIR VOLUME)		FAN POWERED BOX C/W RETURN AIR SILENCER OR ACOUSTICALLY LINED RETURN AIR
	V.A.V. BOX WITH ATTENUATOR		INDUCTION V.A.V. BOX
	V.A.V. BOX WITH REHEAT COIL		PNEUMATIC AIR VALVE (LAB)
	V.A.V. BOX WITH REHEAT COIL AND ATTENUATOR		

**HEATING ELEMENT TAG**

HEATING CAPACITY  
ACTIVE ELEMENT LENGTH  
ENCLOSURE TYPE

	REHEAT COIL IN DUCT (RHC) WATER		REHEAT COIL IN DUCT (ERHC) ELECTRIC
	HORIZONTAL UNIT HEATER		RADIATION HEATING RISER NUMBERS (S=SUPPLY AND R=RETURN)
	DOWN BLAST UNIT HEATER		WALL FIN ELEMENT IN CONTINUOUS ENCLOSURE
	RADIANT HEATING PANEL		

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

**AIR HANDLING SYMBOLS**  
(MSD-012.08)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SUPPLY DUCT UP OR FROM ABOVE		ACOUSTICALLY LINED TRANSFER AIR DUCT
	SUPPLY DUCT DOWN OR FROM BELOW		SILENCER
	RETURN OR EXHAUST DUCT UP OR FROM ABOVE		CROSSTALK SILENCER
	RETURN OR EXHAUST DUCT DOWN OR FROM BELOW		DUCT WITH MINIMUM CLEARANCE FIRE RATED ENCLOSURE
	ROUND DUCT UP OR FROM ABOVE		DUCT WITH SLEEVE, INSULATION AND DAMPER
	ROUND DUCT DOWN OR FROM BELOW		CAPPED CONNECTION
	ACOUSTIC LINED DUCT		RISE IN DUCT
	FLEXIBLE CONNECTION		DROP IN DUCT
	SQUARE ELBOW DUCT WITH TURNING VANE		SOUND BAFFLE
	RADIUS ELBOW WITH TURNING VANES		PROPELLER FAN
	AXIAL FAN/INLINE FAN MIXED FLOW OR CENTRIFUG		
	CENTRIFUGAL FAN		

DIFFUSER GRILLE OR REGISTER TYPE NECK OR FACE SIZE (MM)  
IMPERIAL: C.F.M. AIR FLOW (L/S)  
METRIC: L/s

	ROUND SUPPLY DIFFUSER		SUPPLY AIR DIFFUSER C/W FLEXIBLE DUCT
	DUCTED RETURN OR EXHAUST REGISTER OR GRILLE		LIGHT TROFFER DIFFUSER TOP INLET C/W FLEXIBLE DUCT
	SQUARE OR RECTANGULAR DIFFUSER		LIGHT TROFFER DIFFUSER SIDE INLET C/W FLEXIBLE DUCT
	NON DUCTED RETURN OR EXHAUST GRILLE		DUCT MOUNTED SUPPLY OR RETURN GRILLE
	NON DUCTED ROUND RETURN OR EXHAUST GRILLE		LINEAR SUPPLY OR RETURN GRILLE
	SQUARE PLAQUE DIFFUSER		SPIN-IN CONNECTION C/W BALANCING DAMPER AND FLEX DUCT
	DIFFUSERS WITH BLANK-OFF PORTION (QTY SHOWN)		SPIN-IN CONNECTION C/W BALANCING DAMPER AND RIGID DUCT

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

**AIR HANDLING SYMBOLS**  
(MSD-012.09)



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Association of Professional Engineers & Geoscientists of Saskatchewan  
**CERTIFICATE OF AUTHORIZATION**  
Smith and Andersen Consulting Engineering  
Number 21114  
Permission to Consult held by:  
Discipline Sk. Reg. No. Signature  
Electrical 16352

Revision	Description	Date
3	ISSUED FOR CONSTRUCTION	2017/05/18
1	ISSUED FOR 99% CD	2017/04/27
1	ISSUED FOR 50% CD	2017/04/03

PUBLIC WORKS AND GOVERNMENT  
SERVICES CANADA  
(PWGSC)

Project title Project

FORT QU'APPELLE, SASKATCHEWAN  
2ND FLOOR, 740 SIOUX AVENUE  
INAC FORT QU'APPELLE OFFICE FIT-UP

**INDIGENOUS AND NORTHERN  
AFFAIRS CANADA**

Designed by T.B.	Conçu par
Drawn by M.M.	Dessiné par
Approved by K.S.	Approuvé par
PWGSC Project Manager	Administrateur de Projets IPSC

Drawing title Titre du dessin

STANDARD DETAILS

Project No./No. du projet	Drawing No./No. du dessin	Revision No.
16729.001	M0.1	OF 7