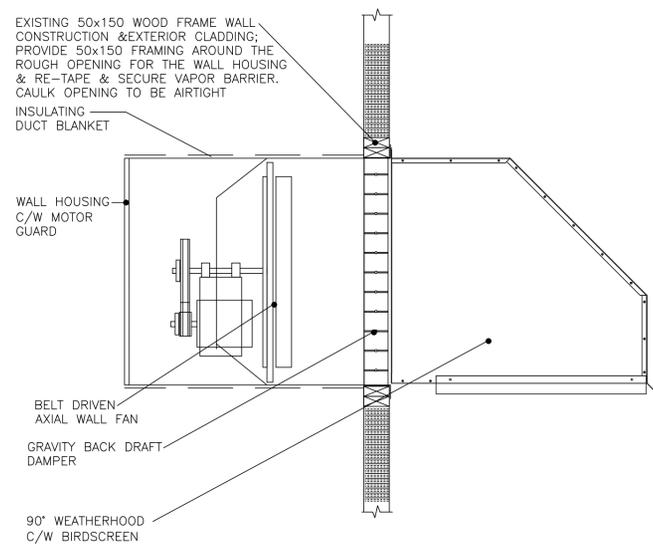


**A** DETAIL - O/A INTAKE DUCT TYP.  
SCALE N.T.S.



**B** DETAIL - EXHAUST FAN TYP. EF-1 THRU EF-3  
SCALE N.T.S.

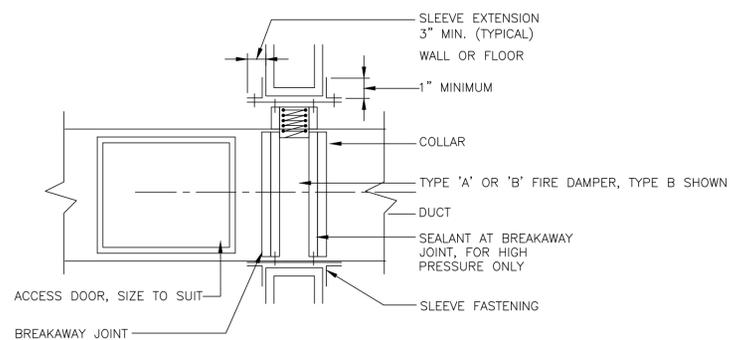
DAMPER SCHEDULE				
TAG	MANUFACTURER	PERFORMANCE	MODEL	COMMENTS
MD-1	TAMCO	LEAKAGE CLASS 1A AT 250 PA DIFFERENTIAL STATIC PRESSURE, FLANGED DUCT TO DUCT TYPE, SIZE AS NOTED	TAMCO 9000	CONTROLS BY OTHERS
MD-2	TAMCO	LEAKAGE CLASS 1A AT 250 PA DIFFERENTIAL STATIC PRESSURE, FLANGED DUCT TO DUCT TYPE, SIZE AS NOTED	TAMCO 9000	CONTROLS BY OTHERS
MD-3	TAMCO	LEAKAGE CLASS 1A AT 250 PA DIFFERENTIAL STATIC PRESSURE, FLANGED DUCT TO DUCT TYPE, SIZE AS NOTED	TAMCO 9000	CONTROLS BY OTHERS
MD-4	TAMCO	LEAKAGE CLASS 1A AT 250 PA DIFFERENTIAL STATIC PRESSURE, FLANGED DUCT TO DUCT TYPE, SIZE AS NOTED	TAMCO 9000	CONTROLS BY OTHERS
MD-5	TAMCO	LEAKAGE CLASS 1A AT 250 PA DIFFERENTIAL STATIC PRESSURE, FLANGED DUCT TO DUCT TYPE, SIZE AS NOTED	TAMCO 9000	CONTROLS BY OTHERS
MD-6	TAMCO	LEAKAGE CLASS 1A AT 250 PA DIFFERENTIAL STATIC PRESSURE, FLANGED DUCT TO DUCT TYPE, SIZE AS NOTED	TAMCO 9000	CONTROLS BY OTHERS

EXHAUST FAN SCHEDULE				
TAG	MANUFACTURER	PERFORMANCE	MODEL	COMMENTS
EF-1	GREENHECK	AIR FLOW 1,360 L/s @ 93 Pa, MOTOR 0.56kW, ELEC: 208V/3Ø/60 Hz, to be confirmed	SBE - MODEL 20 LEVEL 1, (BELT DRIVE)	SIDEWALL MOUNTED C/W WALL HOUSING, FAN TO COME WITH BACKDRAFT DAMPER, 90° WEATHER HOOD AND BIRDSCREEN, INLET GUARD
EF-2	GREENHECK	AIR FLOW 192 L/s @ 93 Pa, MOTOR 0.33 kW; ELEC: 208V/3Ø/60 Hz	SBE - MODEL 20 LEVEL 1	SIDEWALL MOUNTED C/W WALL HOUSING, FAN TO COME WITH BACKDRAFT DAMPER, 90° WEATHER HOOD AND BIRDSCREEN, INLET GUARD
EF-3	GREENHECK	AIR FLOW 1,614 L/s @ 93 Pa, MOTOR 0.56 kW ELEC: 208V/3Ø/60 Hz, to be confirmed	SBE - MODEL 20 LEVEL 1	SIDEWALL MOUNTED C/W WALL HOUSING, FAN TO COME WITH BACKDRAFT DAMPER, 90° WEATHER HOOD AND BIRDSCREEN, INLET GUARD
EF-4	GREENHECK	AIR FLOW 120 L/s @ 93 Pa, MOTOR FRAC; ELEC: 208V/3Ø/60 Hz	BSQ	INLINE MOUNTED C/W BACKDRAFT DAMPER, VIBRATION ISOLATIONS: INLET/OUTLET FLEX
SF-1	CANARM	MOTOR FRAC; ELEC: 115V/1Ø/60 Hz	CP56	CEILING MOUNTED C/W CN5041 MC-3 SPEED CONTROLS
SF-2	CANARM	MOTOR FRAC; ELEC: 115V/1Ø/60 Hz	CP56	CEILING MOUNTED C/W CN5041 MC-3 SPEED CONTROLS
SF-3	CANARM	MOTOR FRAC; ELEC: 115V/1Ø/60 Hz	CP56	CEILING MOUNTED C/W CN5041 MC-3 SPEED CONTROLS
SF-4	CANARM	MOTOR FRAC; ELEC: 115V/1Ø/60 Hz	CP56	CEILING MOUNTED C/W CN5041 MC-3 SPEED CONTROLS

HRV SCHEDULE				
TAG	MANUFACTURER	PERFORMANCE	MODEL	COMMENTS
HRV-1	TEMPEFF	SUPPLY: 566 L/S, EXHAUST 566 L/S, ESP STATIC PRESSURE 448 Pa, FAN SPEED 1725 RPM, 89% TEMPERATURE EFFICIENCY, ELEC: 208/3Ø/60Hz	RGSP 1800	PACKAGED OPERATING CONTROLS; STAGING CONTROLS PER OCCUPIED SCHEDULE BY OTHERS

CONDENSING UNIT SCHEDULE				
TAG	MANUFACTURER	PERFORMANCE	MODEL	COMMENTS
CU-1	DAIKIN	R-410 REFRIGERANT, SINGLE STAGE SCROLL COMPRESSOR, 10.6 kW OF COOLING, ELEC: 208V/1Ø/60Hz	DX13SA036 10AA	CONDENSING UNIT TO BE FASTENED TO EXTERIOR WALL AS SHOWN IN DRAWINGS

HEATING AND COOLING COIL SCHEDULE				
TAG	MANUFACTURER	PERFORMANCE	MODEL	COMMENTS
HC-1	THERMOLEC	6 KW TUBULAR STEEL ELEMENTS, CORROSION RESISTANT FRAME; ELEC: 575V/3Ø/60Hz	ST	FULL SCR STAGING, FLANGE TYPE DESIGN; PACKAGED SAFETY CONTROLS
HC-2	THERMOLEC	7 KW TUBULAR STEEL ELEMENTS, CORROSION RESISTANT FRAME; ELEC: 575V/3Ø/60Hz	ST	FULL SCR STAGING, FLANGE TYPE DESIGN; PACKAGED SAFETY CONTROLS
CC-1	DAIKIN	ALUMINUM EVAPORATOR COILS, R-410 REFRIGERANT, SIZED TO MATCH CU-1	CSCF3036N6	



**C** DETAIL - HORIZONTAL/VERTICAL FIRE DAMPER INSTALLATION  
SCALE N.T.S.

DIFFUSER/GRILLE SCHEDULE				
TAG	DESCRIPTION	MANF	MODEL	COMMENTS
SG-1	GRILLE	PRICE	520	CONTRACTOR TO DEFINE BORDER/PANEL STYLE AND COLOUR TO MATCH SITE CONDITIONS
SD-1	DIFFUSER	PRICE	SCD	CONTRACTOR TO DEFINE BORDER/PANEL STYLE AND COLOUR TO MATCH SITE CONDITIONS
RG-1	GRILLE	PRICE	PDDR	CONTRACTOR TO DEFINE BORDER/PANEL STYLE AND COLOUR TO MATCH SITE CONDITIONS
TG-1	GRILLE	PRICE	STG	CONTRACTOR TO DEFINE BORDER/PANEL STYLE AND COLOUR TO MATCH SITE CONDITIONS
TG-2	GRILLE	PRICE	RCG	CONTRACTOR TO DEFINE BORDER/PANEL STYLE AND COLOUR TO MATCH SITE CONDITIONS
TG-3	GRILLE	PRICE	RCG	CONTRACTOR TO DEFINE BORDER/PANEL STYLE AND COLOUR TO MATCH SITE CONDITIONS

UNIT HEATER SCHEDULE				
TAG	MANUFACTURER	PERFORMANCE	MODEL	COMMENTS
UH-1	OUELLET	10.0 kW TUBULAR STEEL ELECTRICAL ELEMENTS, AIR FLOW 331 L/S, ELEC: 575V/3Ø/60Hz	OAS	CEILING SUSPENDED C/W LOW VOLTAGE WALL THERMOSTAT AND INSULATING BACK PLATE, CONTROLS TO BE INSTALLED BY OTHERS
UH-2	OUELLET	10.0 kW TUBULAR STEEL ELECTRICAL ELEMENTS, AIR FLOW 331 L/S, ELEC: 575V/3Ø/60Hz	OAS	CEILING SUSPENDED C/W LOW VOLTAGE WALL THERMOSTAT AND INSULATING BACK PLATE, CONTROLS TO BE INSTALLED BY OTHERS
UH-3	OUELLET	7.5 kW TUBULAR STEEL ELECTRICAL ELEMENTS, AIR FLOW 331 L/S, ELEC: 575V/3Ø/60Hz	OAS	CEILING SUSPENDED C/W LOW VOLTAGE WALL THERMOSTAT AND INSULATING BACK PLATE, CONTROLS TO BE INSTALLED BY OTHERS
UH-4	OUELLET	7.5 kW TUBULAR STEEL ELECTRICAL ELEMENTS, AIR FLOW 331 L/S, ELEC: 575V/3Ø/60Hz	OAS	CEILING SUSPENDED C/W LOW VOLTAGE WALL THERMOSTAT AND INSULATING BACK PLATE, CONTROLS TO BE INSTALLED BY OTHERS
UH-5	OUELLET	7.5 kW TUBULAR STEEL ELECTRICAL ELEMENTS, AIR FLOW 331 L/S, ELEC: 575V/3Ø/60Hz	OAS	CEILING SUSPENDED C/W LOW VOLTAGE WALL THERMOSTAT AND INSULATING BACK PLATE, CONTROLS TO BE INSTALLED BY OTHERS
UH-6	OUELLET	7.5 kW TUBULAR STEEL ELECTRICAL ELEMENTS, AIR FLOW 331 L/S, ELEC: 575V/3Ø/60Hz	OWD	CEILING SUSPENDED C/W LOW VOLTAGE WALL THERMOSTAT AND INSULATING BACK PLATE, HEATER AND THERMOSTAT WET LOCATION RATED, CONTROLS TO BE INSTALLED BY OTHERS

**APECA**  
Certificate of Authorization  
Alliance Engineering Services Inc.  
No.2906 Date: \_\_\_\_\_

B.M. ELEV.	FIELD BOOK #:	
POSTED TO LBS		
DESIGNED BY	AFG	
CHECKED BY	AFG	
DRAWN BY	LM	
APPROVED BY	AFG	
HOR. SCALE	NTS	
VERTICAL	NTS	
NO. REVISIONS	DATE BY	
1	REVISED & RE-ISSUED FOR TENDER & CONSTRUCTION 2016-07-08 AFG	
0	ISSUED FOR TENDER & CONSTRUCTION 2016-06-30 AFG	
A	ISSUED FOR 99% 2016-06-15 AFG	
NO.	REVISIONS DATE BY	
	DATE	2016-06-15

**Alliance**  
ENGINEERING SERVICES INC

DESIGNED BY: AFG  
CHECKED BY: AFG  
DRAWN BY: LM  
APPROVED BY: AFG  
HOR. SCALE: NTS  
VERTICAL: NTS  
DATE: 2016-06-15

ENGINEER'S SEAL  
PROVINCE OF MANITOBA  
A.F.G.  
GOSSEN  
11-JUL-16  
REGISTERED PROFESSIONAL ENGINEER  
CONSULTANT DRAWING NO.  
M2.4

**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT  
Winnipeg

SUPPLY & INSTALL OF HVAC SYSTEMS

HVAC  
DETAILS & SCHEDULES

SHEET 1 OF 1  
CITY DRAWING NUMBER  
1-0601M-M0007-001