

DIFFUSER, GRILLE, REGISTER & LOUVER SCHEDULE

TAG	MANUFACTURER	MODEL	DESCRIPTION	MOUNTING	COLOR	REMARKS
E-EX	-	-	-	-	-	EXISTING EXHAUST GRILLE. BALANCE TO AIR FLOW VALUES SHOWN.
E-1	E.H. PRICE	80/F/B12	EGG CRATE EXHAUST AIR GRILLE	DUCT MOUNTED	WHITE	GRILLE SIZE SHOWN ON DRAWINGS.
R-1	E.H. PRICE	80/F/TB/B12	EGG CRATE RETURN AIR GRILLE	DUCT MOUNTED	WHITE	GRILLE SIZE SHOWN ON DRAWINGS.
S-EX	-	-	-	-	-	EXISTING SUPPLY DIFFUSER. BALANCE TO AIR FLOW VALUES SHOWN.
S-1	E.H. PRICE	SCD/B12 24"x24"	24"x24" SQUARE CONE DIFFUSER	DUCT MOUNTED	WHITE	NECK SIZE SHOWN ON DRAWINGS.
S-2	E.H. PRICE	PDSP/B12 24"x24"	PERFORATED DIFFUSER	DUCT MOUNTED	WHITE	NECK SIZE SHOWN ON DRAWINGS.

AIR TERMINAL UNITS SCHEDULE

TAG	LOCATION	SIZE	MIN. AIR FLOW (L/S)	MAX. AIR FLOW (L/S)	AIR P.D. (KPA)	ELECTRICAL REHEAT (KW)	ELECTRICAL SERVICE (V/PH/Hz)	NOTES
TB-1	ROOM 174	-	20	80	-	-	120/1/60	RELOCATED TERMINAL BOX. PROVIDE NEW THERMOSTAT C/W EXPLOSION PROOF HOUSING.

FAN SCHEDULE

TAG	SERVICE	MAX AIR FLOW (L/S)	E.S.P. (KPA)	MOTOR (KW)	ELECTRICAL SERVICE (V/PH/Hz)	REMARKS
EF-1	FUME HOOD	470	0.31	1.125	600/3/60	1, 2, 3, WEATHER HOOD OVER BYPASS DAMPER WITH INLET SCREEN
EF-2	BASEMENT	70	0.05	0.0075	120/1/60	1, 2, 3. FAN TO BE CONTROLLED BY A PROGRAMMABLE TIME CLOCK. PROGRAM FOR 24/7 OPERATION.
EF-3	WASHROOM/JANITOR ROOM	250	0.0875	0.125	120/1/60	1, 3, 4, EXISTING TO BE REPLACED RE & RE.

- NOTE:
- ALL FANS SHALL BE C/W STARTER.
 - ALL ROOFTOP FANS SHALL BE C/W ROOF CURB, WEATHERPROOF DISCONNECT, BACKDRAFT DAMPER AND SCREEN.
 - ALL FANS SHALL BE TESTED AND COMMISSIONED.
 - CONTRACTOR SHALL BALANCE ALL EXISTING EXHAUST OUTLETS TO VALUES SHOWN.

MAKEUP AIR (100% OUTDOOT AIR) UNIT SCHEDULE

TAG	SERVICE	SUPPLY FAN			COOLING (PACKAGED DX – R410)						HEATING (GAS)		TURN RATIO	ELECTRICAL V/C/P	WEIGHT (KG)	REMARKS
		MAX. O/A AIR FLOW (L/S)	MIN. O/A AIR FLOW (L/S)	E.S.P. (KPA)	TOTAL CAPACITY (KW)	SENSIBLE CAPACITY (KW)	E.A.T DB (C)	E.A.T WB (C)	COIL L.A.T DB (C)	COIL L.A.T WB (C)	INPUT CAPACITY (KW)	OUTPUT CAPACITY (KW)				
MUA–1	ROOM 174	470	470	0.19	10.7	6.94	32	22	14	14	29.3	23.4	15:1	208/1/60	907	1,2,3,4,5,6,7

- COOLING 2 STAGES C/W DX COIL BYPASS
- C/W VIBRATION ISOLATED 14" CURB ABOVE FINISH ROOF, ECONOMIZER, AND WEATHER-PROOF DISCONNECT SWITCH.
- PROVIDE SECURITY BARS AT THE ROOF PENETRATION. SEE THE ROOF PENETRATION BURGLAR BAR DETAIL.
- PROVIDE ACCOUSTIC INSULATION ON THE S/A AND R/A DUCT WORK FROM THE UNIT TO 5' DOWNSTREAM OF THE FIRST ELBOW. THERE IS TO BE NO ACCOUSTIC INSULATION INSTALLED DOWNSTREAM OF ANY HUMDIFICATION WANDS.
- ASHRAE 90.1-2010 COMPLIANT.
- PRE-FILTER TO BE MERV 8 PLEATED (2 INCHES)
- DX COIL COMPLETE WITH 30% BYPASS DAMPER.

AIR CONDITIONING UNIT SCHEDULE

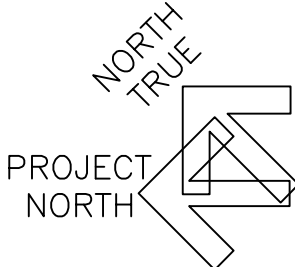
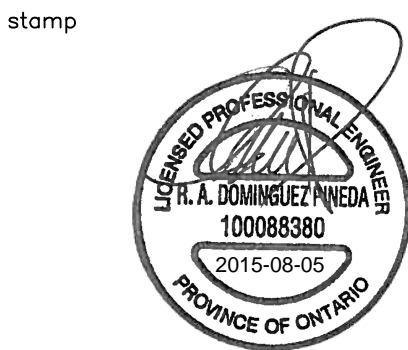
TAG	SERVICE	REFRIGERANT	SUPPLY FAN AIR FLOW (L/S)	WEIGHT (KG)	ELECTRICAL SERVICE (V/PH/Hz)	COOLING CAPACITY (KW)	NOTES
AC-1	BASEMENT	R-410A	180	12	208/230/1/60	2.6	1, 2
CU-1	-	R-410A	N/A	30	208/230/1/60	2.6	
AC-2	ROOM 174	R-410A	190	13	208/230/1/60	3.5	1, 3
AC-3		R-410A	190	13	208/230/1/60	3.5	
AC-4	ROOM 176	R-410A	190	13	208/230/1/60	3.5	3
CU-2	-	R-410A	N/A	130	208/230/1/60	10	2, 3

- NOTE:
- PROVIDE CONDENSATE PUMP.
 - ULTRA LOW AMBIENT, DOWN TO -40°F WIND BAFFLE, C/W 7 DAY PROGRAMMABLE TIMER/THERMOSTAT. THERMOSTAT TO BE HARD WIRED AND WALL MOUNTED.
 - VRF SYSTEM WITH HEATING & COOLING FEATURE. ULTRA LOW AMBIENT, DOWN TO -40°F WIND BAFFLE, C/W 7 DAY PROGRAMMABLE TIMER/THERMOSTAT. THERMOSTAT TO BE HARD WIRED AND WALL MOUNTED.

AIR COMPRESSOR SCHEDULE

TAG	SERVICE	MAX OPERATING PRESSURE (KPA)	MOTOR (KW)	ELECTRICAL (V/PH/HZ)	CAPACITY (L/S @ 690 KPA)	WEIGHT (KG)	NOTES
COMPR-1	FUME HOOD	690	2.2	208/1/60	5.8	118	C/W INTEGRAL RECEIVER, ULTRA QUIET OPERATION, MAX. DB(A) SHALL NOT EXCEED 53 FROM 1M AWAY

DIALOG®



1	BID	2015-08-05
revision	issue	date

Do not scale drawings.
Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.

- A

B

C

A Detail No.
No. du détail
drawing no. - where detail required
dessin no. - où détail exigé
C drawing no. - where detailed
dessin no. - où détaillé

project title
titre du projet
CAMPBELLFORD, ONTARIO
WARKWORTH INSTITUTION BLDG WW27
CORRECTIONAL SERVICES CANADA
15847 County Road 29, KOL 1LO
**RETROFIT ARMOURY &
SMO WORK AREA**

drawing title
titre du dessin

MECHANICAL SCHEDULES

drawn by dessiné par	M MOAZZAM	project manager administrateur de projets
designed by conc par	H ABOUTALEBI	
approved by approuvé par	R DOMINGUEZ	
bid offre	K HAQUE	
project date date du projet	2015-06-15	
project no. no. du projet	R.069651.001	
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