



203 WELLMAN CRESCENT  
SASKATOON SASKATCHEWAN CANADA S7T 0J1  
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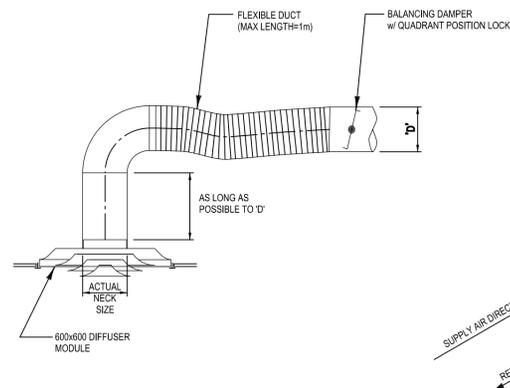


Association of Professional Engineers & Geoscientists of Saskatchewan  
**CERTIFICATE OF AUTHORIZATION**  
WSP Canada Inc.  
Number **C0688**  
Permission to Consult held by:  
Discipline **MECHANICAL** 9159

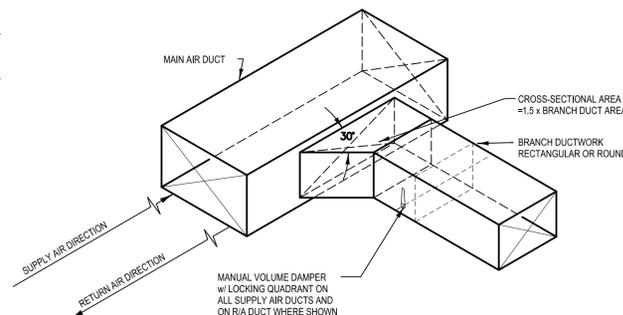
MOTORIZED DAMPER SCHEDULE											
DAMPER NO.	SERVICE	DAMPER					ACTUATOR				REMARKS
		TYPE	SIZE (in)	FLOW RATE (cfm)	ΔP (in. W.C.)	FRAME TYPE	TORQUE (in. lbs)	TYPE	RETURN	ELECTRICAL (V)	
MD-1	EF-1	PARALLEL BLADE	12x12	275	0.012	FLANGED	10	2-POSITION	SPRING	24V	- c/w END SWITCH - SEVERE COLD DAMPER - OPERATING TEMPERATURE RANGE FROM -40 TO 185-F
MD-2	EF-2	PARALLEL BLADE	14x14	800	0.055	FLANGED	10	2-POSITION	SPRING	24V	- c/w END SWITCH - SEVERE COLD DAMPER - OPERATING TEMPERATURE RANGE FROM -40 TO 185-F

GRILLES, DIFFUSERS & LOUVRES	
TYPE	DESCRIPTION
A	ADJUSTABLE SQUARE FACE, STEEL 3 CONE, ROUND NECK DIFFUSER WITH ADJUSTABLE AIRFLOW PATTERN w/ LAY-IN FACE FOR T-BAR INSTALLATION, 4-WAY PATTERN, 24"x24" PANEL, BRITISH WHITE FINISH.
B	ADJUSTABLE SQUARE FACE, STEEL 3 CONE, ROUND NECK DIFFUSER WITH ADJUSTABLE AIRFLOW PATTERN FACE FOR SURFACE MOUNT INSTALLATION, c/w OBD, 4-WAY PATTERN, 12"x12" PANEL, BRITISH WHITE FINISH.
C	ADJUSTABLE SQUARE FACE, STEEL 3 CONE, ROUND NECK DIFFUSER WITH ADJUSTABLE AIRFLOW PATTERN FACE FOR SURFACE MOUNT INSTALLATION, c/w OBD, 4-WAY PATTERN, 24"x24" PANEL, BRITISH WHITE FINISH.
D	ALUMINUM EGG CRATE FACE 1/2"x1/2"x1/2" RETURN/TRANSFER AIR GRILLE FOR SURFACE MOUNT INSTALLATION, BRITISH WHITE IN COLOR.
E	ALUMINUM EGG CRATE FACE 1/2"x1/2"x1/2" EXHAUST AIR GRILLE c/w OBD FOR SURFACE MOUNT INSTALLATION, BRITISH WHITE IN COLOR.
F	STEP DOWN DIFFUSER ASSEMBLY, 450mm DIA. SUPPLY AND RETURN DUCT COLLARS, DOUBLE DEFLECTION SUPPLY GRILLES, RETURN AIR GRID CORE, AND 25mm INSULATION, WHITE IN COLOR, TO BE SUPPLIED BY RTU-30 MANUFACTURER.
O/A LOUVRE	6" DRAINABLE LOUVRE 12ga. EXTRUDED ALUMINUM WITH 14ga. BIRD SCREEN AND BAKED ENAMEL FINISH.

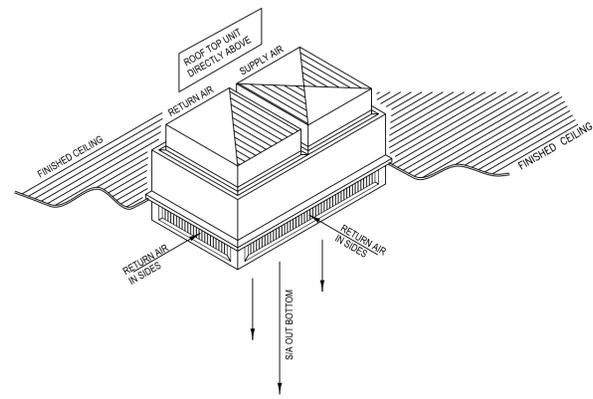
FAN SCHEDULE							
UNIT NO.	LOCATION	SERVICE	FLOW RATE (cfm)	E.S.P. (in. W.C.)	ELECTRICAL (hp/V/ph/TYPE)	CONTROLS	REMARKS
EF-1	ROOF	SMUDGING WR	275	0.2	.167/200/1/ODP	SEE SPECIFICATIONS	- c/w roof curb - upblast orientation
EF-2	ROOF	SMUDGING WR	800	0.75	.5/200/1/ODP	SEE SPECIFICATIONS	- c/w roof curb - upblast orientation
EF-3	ROOF	WR EXHAUST	300	0.25	.167/200/1/ODP	Continuous, Monitored at BMS	- c/w roof curb - upblast orientation
EF-4	ROOF	WR EXHAUST	300	0.25	.167/200/1/ODP	Continuous, Monitored at BMS	- c/w roof curb - upblast orientation



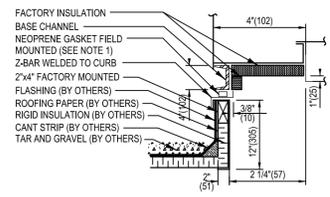
1 DIFFUSER CONNECTION DETAIL  
N.T.S.



2 S/A OR R/A DUCT CONNECTION DETAIL  
N.T.S.

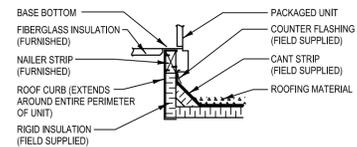


3 TYPICAL COMBINATION DIFFUSER  
N.T.S.

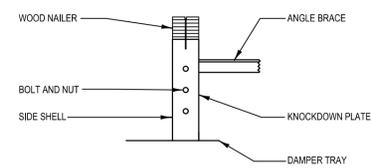


NOTES:  
1. 3/8" X 3/4" (10 X 19) NEOPRENE GASKET  
2. CURB MAY BE BROKEN DOWN FOR SHIPPING. IN THESE CASES, FIELD ASSEMBLY WILL BE REQUIRED BY INSTALLING CONTRACTOR.  
3. CONTINUOUS BASE SUPPORT TO CURB PANELS, INCLUDING THE CENTER SUPPORT PANEL IF SUPPLIED, IS REQUIRED BY OTHERS.  
4. DIMENSIONS GIVEN IN INCHES AND MILLIMETRES.

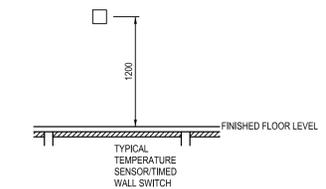
4 ROOF CURB DETAIL FOR RTU-29  
N.T.S.



5 FLASHING DETAIL FOR RTU-30  
N.T.S.



6 EXHAUST FAN CURB DETAIL  
N.T.S.



7 MOUNTING HEIGHT DETAIL  
N.T.S.

revisions	description	date
0	ISSUED FOR TENDER	17/09/13

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA  
SASKATOON SASKATCHEWAN

project title  
**SASKATOON, SK REGIONAL PSYCHIATRIC CENTRE**  
**ROOFTOP AIR HANDLING UNITS REPLACEMENT**

approved by  
**BND**  
designed by  
**BP**  
drawn by  
**ML/MB**  
PWGSC Project Manager

PWGSC Architectural and Engineering Resources Manager

Client  
**CORRECTIONAL SERVICE CANADA**

drawing title  
**MECHANICAL**  
**SCHEDULES & DETAILS**

project no.	sheet	revision no.
R.079699.001	M8.3	0

