

MECHANICAL EQUIPMENT SCHEDULE:

SINKS:

- SK-1 STAINLESS STEEL SINGLE COMPARTMENT LEDGEBACK SINK - BARRIER FREE (ADA COMPLIANT)
 COMPLETE WITH: SELF-RIMMING LEDGE BACK WITH 3-HOLE DRILLING
 20 GAUGE, TYPE 302, 18-8 STAINLESS STEEL CONSTRUCTION
 89mm CRUMB CRUSH STRAINER
 520mm X 510mm X 175mm DEEP
 DIMENSIONS: CHROME PLATED CAST BRASS ADA COMPLIANT SINGLE LEVER
 TRIM : CHROME PLATED CAST BRASS ADA COMPLIANT SWIVEL GOOSENECK, 300mm HIGH
 CAST BRASS TRIM
 POLISHED CHROME FINISH
 AERATOR
 P-TRAP (OFFSET INSULATED P-TRAP)
 CHROME PLATED MINI DAHL VALVES WITH WALL ESCUTCHEONS
 INSULATED BRAIDED FLEX SUPPLY HOSES

GRILLES & DIFFUSERS: (CONFIRM LOCATIONS OF METRIC AND IMPERIAL GRIDS WITH GENERAL CONTRACTOR PRIOR TO ORDERING)

- S-1,2 SQUARE CEILING DIFFUSER (NOMINAL 24" x 24") - T-BAR CEILING
 STEEL SQUARE PLAQUE CEILING DIFFUSER
 COMPLETE WITH: B-12 WHITE POWDERCOAT FINISH
 BORDER TO SUIT CEILING TYPE
- R-1 SQUARE CEILING RETURN AIR GRILLE - T-BAR CEILING
 ALUMINUM EGG CRATE RETURN GRILLE
 COMPLETE WITH: ALUMINUM CONSTRUCTION
 WHITE POWDERCOAT FINISH AS SELECTED BY ARCHITECT
 BORDER TO SUIT CEILING TYPE
- R-2 LOUVERED FACE RETURN AIR GRILLE - REFER TO DIMENSIONS ON DRAWINGS
 COMPLETE WITH: ALUMINUM CONSTRUCTION
 CUSTOM PAINT COLOUR SELECTED BY ARCHITECT
 ORIENT BLADES UPWARDS

VARIABLE AIR VOLUME BOXES:

- VAV-XXX SINGLE DUCT VAV TERMINAL UNITS - REFER TO SCHEDULE ON DRAWINGS
 COMPLETE WITH: ATTENUATOR
 MULTI-POINT AIR FLOW SENSOR
 12mm DIA DAMPER SHAFT
 SET UP FOR VARIABLE VOLUME APPLICATION
 ACTUATOR AND STAT BY CONTROLS
 ELECTRICAL: LOW VOLTAGE POWER BY CONTROLS

FAN COILS:

- FC-102.1 VARIABLE SPEED HORIZONTAL FAN COIL UNIT WITH DX COOLING - VARIABLE REFRIGERANT VOLUME
 FC-102.2 CLG CAPACITY: 14.1 KW (48 MBH) 4 TON NOMINAL (EACH)
 AIRFLOW: 466-650 l/s (988-1377 CFM) @ 125 Pa (0.5") ESP
 COMPLETE WITH: 2 SPEED DIRECT DRIVE FAN - HIGH / LOW
 WASHABLE FILTER
 FLEXIBLE DUCTWORK CONNECTIONS
 SUITABLE FOR HORIZONTAL INSTALLATION WITH HORIZONTAL SUPPORT FRAME KIT, NEOPRENE
 ISOLATORS & HANGERS
 CONDENSATE DRAIN PAN WITH BUILT-IN DRAIN PUMP
 PROGRAMMABLE REMOTE THERMOSTAT WITH LCD DISPLAY
 R-410a REFRIGERANT
 SND PRES. LVL: 44 / 40 DBA (H / L) MEASURED AT 5' BELOW RETURN GRILLE
 DIMENSIONS: 1400mm W x 300mm H x 701mm D
 ELECTRICAL: 208V / 3 PH / 3.4 MCA

CONDENSING UNITS:

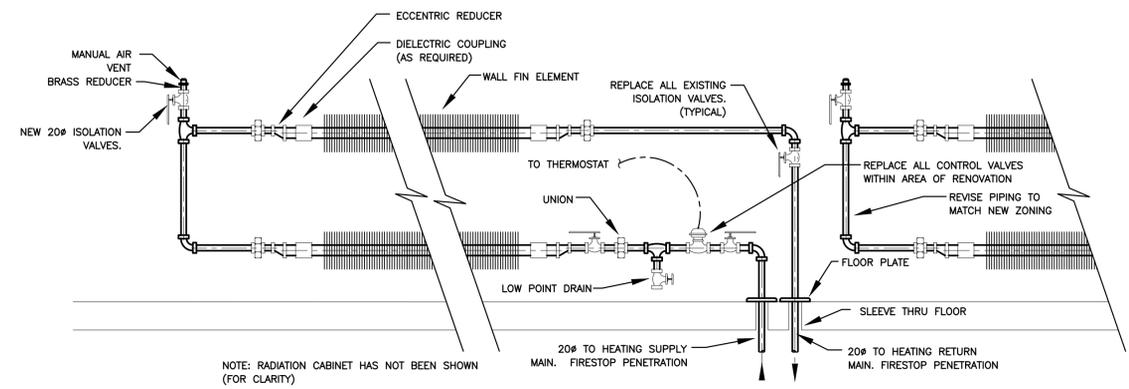
- CU-102.1 HIGH EFFICIENCY CONDENSING UNIT - VARIABLE REFRIGERANT VOLUME
 CU-102.2 COOLING CAPACITY: 14.1 KW (48 MBH) 4 TON NOMINAL
 COMPLETE WITH: INSULATED REFRIGERANT LINE SET (SIZED FOR APPLICATION) & ALL REQUIRED ACCESSORIES
 FULL CHARGE R410A REFRIGERANT
 LOW AMBIENT KIT FOR OPERATION TO -40 deg F WITH COMPRESSOR
 CRANK CASE HEATER, HEATED RECEIVER
 INDOOR BLOWER RELAY
 COMPRESSOR TIME-OFF CONTROL
 DIMENSIONS: 930mm W x 1680mm H x 765mm D
 WEIGHT : 254 KG
 ELECTRICAL: 208V / 3 PH

HUMIDIFIERS:

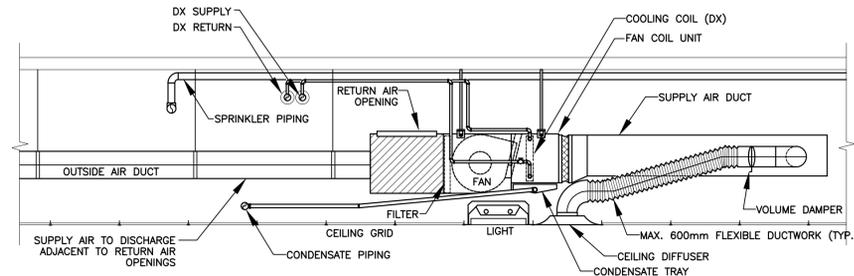
- HUM-102.1 HUMIDIFIER -FOR FC-102.1 & 102.2
 HUM-102.2 ELECTRODE STEAM EVAPORATIVE HUMIDIFIER
 CAPACITY: 0-5 LB/H
 COMPLETE WITH: S.S. TANK & COVER, FULLY INSULATED
 SUPPORT LEGS
 WALL MOUNT HUMIDISTAT
 AIR PROVING SWITCH
 REPLACEABLE BOTTLE CANNISTER
 ELECTRONIC WATER LEVEL CONTROL WITH AUTOMATIC DRAIN
 SURFACE SKIMMER
 CONTROL TRANSFORMER
 INTEGRAL CONTROLS IN CABINET, FULLY WIRED
 SCR MODULATING FROM 0% TO 100% OF FULL CAPACITY
 TERMINAL STRIP FOR TIE-IN TO CONTROLS SYSTEM (COORDINATE WITH CONTROLS)
 (CONTROLS TO PROVIDE 0 TO 10 VDC SIGNAL), MONITOR GENERAL ALARM CONTACT
 (SHORT ABSORPTION MANIFOLD) 150MM DISTANCE. DISPERSION GRID TO SUIT FAN COIL DUCT
 INTERNAL DRAIN COOLER
 CONTRACTOR TO PROVIDE SOFT MAKE-UP WATER AND SANITARY DRAIN
 DUCT MOUNTED HIGH LIMIT HUMIDISTAT
 1200mm ALUMINUM DUCT SECTION WITH DRAIN
 ELECTRICAL: 1.9 KW / 120V / 1 PH

FIRE EXTINGUISHERS:

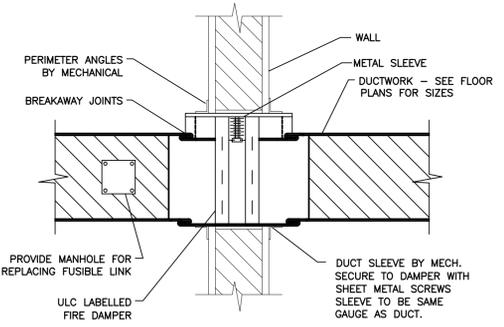
- FEX-1 NATIONAL FIRE EQUIPMENT MODEL ABC-10F CO2 FIRE EXTINGUISHER
 COMPLETE WITH: WALL MOUNTING BRACKET
- FEX-2 NATIONAL FIRE EQUIPMENT MODEL ABC-10F FIRE EXTINGUISHER
 COMPLETE WITH: WALL MOUNTING BRACKET



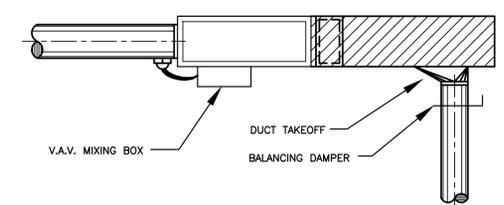
1 WALL FIN DETAIL
M4.1 NTS



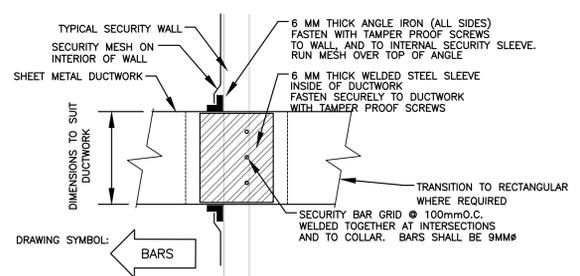
2 FAN COIL DETAIL
M4.1 NTS



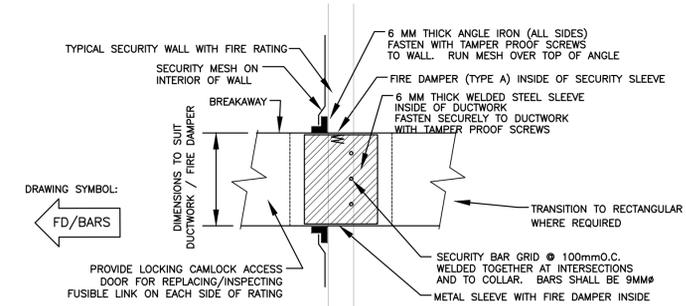
3 FIRE DAMPER DETAIL
M4.1 NTS



4 TYPICAL VAV BOX DETAIL
M4.1 NTS



5 SECURITY BAR DETAIL
M4.1 NTS



6 SECURITY BAR AND DAMPER DETAIL
M4.1 NTS



MacPHERSON Engineering Inc.



ASSOCIATION OF PROFESSIONAL ENGINEERS OF SASKATCHEWAN
 CERTIFICATE OF AUTHORIZATION
 MacPHERSON ENGINEERING INC.
 NUMBER 806
 PERMISSION TO CONSULT HELD BY:
 DISCIPLINE: SASK. REG. NO. SIGNATURE
 MELH 5306

revisions	description	date
1	TENDER SET	13/07/05

Client: R.050172.002 FOR PWGSC

project title: OFFICE RENOVATIONS

REGINA, SASKATCHEWAN

approved by:

designed by: JL

drawn by: BG

PWGSC Project Manager: SK

PWGSC, Architectural and Engineering Resources Manager: KD

Client: KL

drawing title: PARTIAL SECOND FLOOR FIRE PROTECTION PLAN

project no.	sheet	revision no.
R.050172.002	M4.1	

