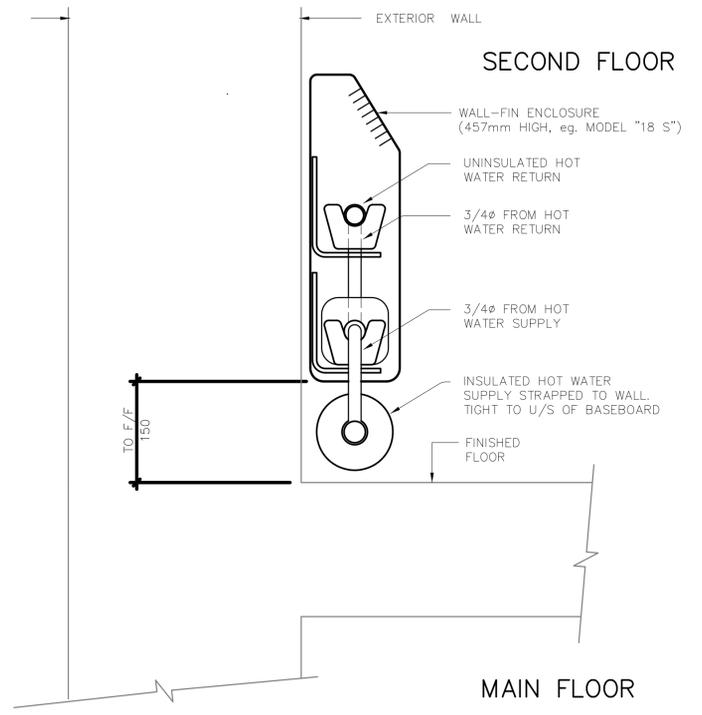
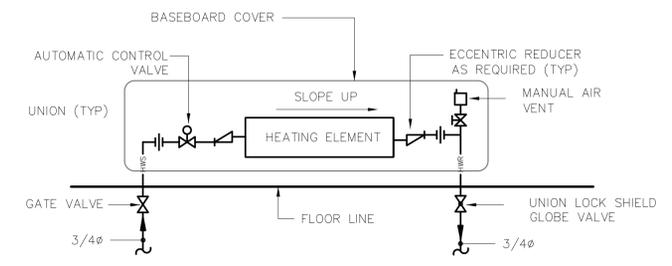


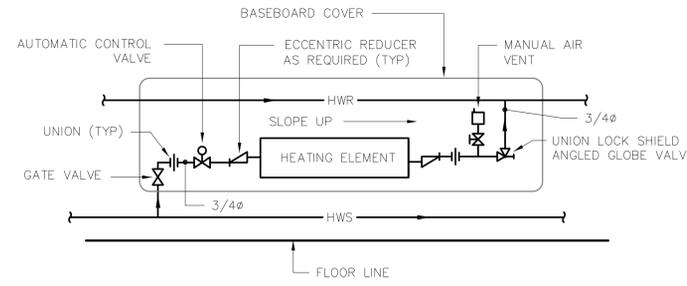
**DIFFUSER OR GRILLE
 FIREWALL PENETRATION DETAIL**
 N.T.S.



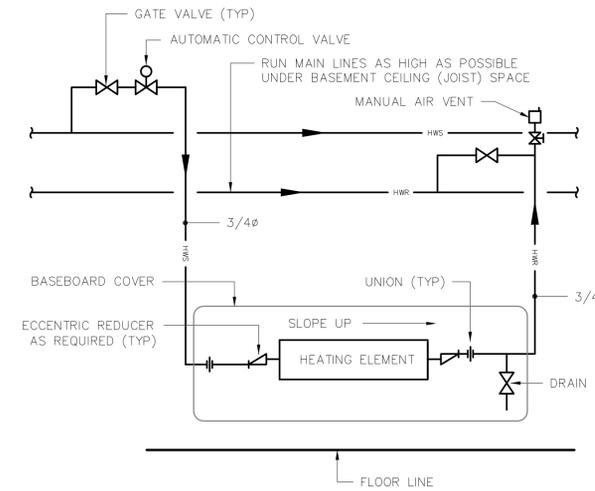
**TYPICAL BASEBOARD PIPE
 DETAIL - SECOND FLOOR**
 N.T.S.



**TYPICAL WALL FIN
 SCHEMATIC - MAIN FLOOR**
 N.T.S.



**TYPICAL WALL FIN
 SCHEMATIC - SECOND FLOOR**
 N.T.S.



**BASEMENT BASEBOARD
 RADIATION PIPING SCHEMATIC**
 N.T.S.

DIFFUSER, REGISTER AND GRILLE SCHEDULE

| NUMBER | TYPE | SIZE | NECK | MODEL | MFG | LPS | QTY |
|--------|----------|-----------|------|------------------------------|----------|------|-----|
| 100 | SUPPLY | 200 X 100 | - | NM/22/S/3/T/SC/B13 | EH-PRICE | 70 | 1 |
| 105 | SUPPLY | 305 X 100 | - | NM/22/S/3/T/SC/B13 | EH-PRICE | 95 | 1 |
| 110 | SUPPLY | 250 X 200 | - | NM/22/S/3/T/SC/B13 | EH-PRICE | 190 | 3 |
| 110 | SUPPLY | 250 X 200 | - | NM/22/S/3/T/SC/B13 | EH-PRICE | 200 | 1 |
| 115 | SUPPLY | 200 X 150 | - | NM/22/S/3/T/SC/B13 | EH-PRICE | 90 | 4 |
| 120 | SUPPLY | - | 150 | RCD/B13 | EH-PRICE | 70 | 1 |
| 125 | SUPPLY | 305 X 150 | - | NM/22/S/3/T/SC/B13 | EH-PRICE | 160 | 3 |
| 130 | SUPPLY | 305 X 200 | - | NM/22/S/3/T/SC/B13 | EH-PRICE | 235 | 1 |
| 135 | SUPPLY | - | 200 | RCD/B13 | EH-PRICE | 120 | 1 |
| 140 | SUPPLY | 305 X 305 | 200 | SCD/3P/S/-/B13 | EH-PRICE | 95 | 2 |
| 145 | SUPPLY | 200 X 200 | - | NM/22/S/3/T/SC/B13 | EH-PRICE | 165 | 2 |
| 150 | SUPPLY | 305 X 305 | 200 | SCD/1/S/-/B13 | EH-PRICE | 90 | 1 |
| 155 | SUPPLY | 200 X 100 | - | NM/22/S/VCS4/T/A/B13 | EH-PRICE | 24 | 12 |
| 155 | SUPPLY | 200 X 100 | - | NM/22/S/VCS4/T/A/B13 | EH-PRICE | 50 | 3 |
| 155 | SUPPLY | 200 X 100 | - | NM/41L/VCS4/T/A/B13 | EH-PRICE | 50 | 1 |
| 155 | SUPPLY | 200 X 100 | - | NM/42S/VCS4/T/A/B13 | EH-PRICE | 50 | 1 |
| 160 | SUPPLY | 1000 X 62 | - | LPB/16B/DV1/3/271/-/A/CC/B13 | EH-PRICE | 85 | 2 |
| 200 | RETURN | 305 X 305 | - | NM/80/-/-/T/A/B13 | EH-PRICE | 190 | 5 |
| 200 | RETURN | 305 X 305 | - | NM/80/-/-/T/A/B13 | EH-PRICE | 200 | 1 |
| 205 | RETURN | 305 X 400 | - | NM/80/-/-/T/A/B13 | EH-PRICE | 510 | 1 |
| 210 | RETURN | 915 X 610 | - | NM/80/-/-/T/A/B13 | EH-PRICE | 1400 | 1 |
| 220 | RETURN | 610 X 100 | - | TB/80/-/-/T/A/B13 | EH-PRICE | 95 | 2 |
| 225 | RETURN | 200 X 200 | - | NM/80/-/-/T/A/B13 | EH-PRICE | 120 | 2 |
| 230 | RETURN | 460 X 200 | - | NM/80/-/-/T/A/B13 | EH-PRICE | 190 | 2 |
| 230 | RETURN | 460 X 200 | - | NM/80/-/-/T/A/B13 | EH-PRICE | 235 | 6 |
| 235 | RETURN | 200 X 100 | - | NM/80/-/VCS4/T/A/B13 | EH-PRICE | 24 | 8 |
| 235 | RETURN | 200 X 100 | - | NM/80/-/VCS4/T/A/B13 | EH-PRICE | 50 | 5 |
| 300 | EXHAUST | 200 X 100 | - | NM/80/-/-/T/A/B13 | EH-PRICE | 24 | 4 |
| 300 | EXHAUST | 200 X 100 | - | NM/80/-/-/T/A/B13 | EH-PRICE | 35 | 3 |
| 300 | EXHAUST | 200 X 100 | - | NM/80/-/-/T/A/B13 | EH-PRICE | 50 | 5 |
| 300 | EXHAUST | 200 X 100 | - | NM/80/-/VCS4/T/A/B13 | EH-PRICE | 50 | 1 |
| 305 | EXHAUST | 405 X 100 | - | NM/80/-/-/T/A/B13 | EH-PRICE | 95 | 1 |
| 315 | EXHAUST | 460 X 460 | - | NM/80/-/-/T/A/B13 | EH-PRICE | 285 | 1 |
| 320 | EXHAUST | 305 X 100 | - | NM/80/-/-/T/A/B13 | EH-PRICE | 85 | 4 |
| 325 | EXHAUST | 200 X 200 | - | NM/80/-/-/T/A/B13 | EH-PRICE | 95 | 1 |
| 400 | TRANSFER | 200 X 100 | - | NM/80/-/VCS4/T/A/B13 | EH-PRICE | 24 | 4 |
| 400 | TRANSFER | 200 X 100 | - | NM/80/-/VCS4/T/A/B13 | EH-PRICE | 50 | 3 |
| 405 | TRANSFER | 200 X 100 | - | NM/80/-/-/T/A/B13 | EH-PRICE | 50 | 2 |
| 410 | TRANSFER | 200 X 200 | - | NM/80/-/-/T/A/B13 | EH-PRICE | 95 | 1 |
| 415 | TRANSFER | 305 X 305 | - | NM/80/-/-/T/A/B13 | EH-PRICE | 215 | 2 |
| 415 | TRANSFER | 305 X 305 | - | NM/80/-/-/T/A/B13 | EH-PRICE | 95 | 1 |
| 420 | TRANSFER | 200 X 200 | - | NM/80/-/VCS4/T/A/B13 | EH-PRICE | 95 | 1 |

THE CONTRACTOR IS RESPONSIBLE TO VERIFY THE ACCURACY OF QUANTITIES IN THIS SCHEDULE WITH HVAC DWG - M2.

PUMP SCHEDULE (BASED ON ARMSTRONG)

- P-1 HEATING SYSTEM PUMPS SERIES 1060-2D 1800 RPM CAPACITY 4.4 L/S @ 14 M. HD - 1.5 KW. MOTOR
- P-2 DOMESTIC WATER RECIRCULATING SSC-30 CAPACITY .25 L/S @ 2.0 M. HD. - 120V/1/60

FORCE FLOW SCHEDULE (BASED ON TRANE)

- BASED ON 11.1 °C (20 °F) WTD
- FF-1 - MODEL M46A004, CAPACITY 10.5 kW, AIR FLOW (HIGH SPEED) 198 L/S, EWT 82.2 °C, FLOW 0.23 L/S, C/W INTEGRAL SPEED SWITCH, C/W REMOTE THERMOSTAT
 - FF-2 - MODEL E46A002, CAPACITY 3.9 kW, AIR FLOW (LOW SPEED) 104 L/S, EWT 82.2 °C, FLOW 0.10 L/S, C/W INTEGRAL SPEED SWITCH, C/W REMOTE THERMOSTAT, RECESSED
 - FF-3 - MODEL M46A003, CAPACITY 8.2 kW, AIR FLOW (HIGH SPEED) 142 L/S, EWT 82.2 °C, FLOW 0.18 L/S, C/W INTEGRAL SPEED SWITCH, C/W REMOTE THERMOSTAT
 - FF-4 - MODEL M46A003, CAPACITY 9.7 kW, AIR FLOW (HIGH SPEED) 142 L/S, EWT 82.2 °C, FLOW 0.21 L/S, C/W INTEGRAL SPEED SWITCH, C/W REMOTE THERMOSTAT
 - FF-5 - MODEL B12A004, CAPACITY 8.5 kW, AIR FLOW (HIGH SPEED) 93 L/S, EWT 82.2 °C, FLOW 0.19 L/S, C/W INTEGRAL SPEED SWITCH, C/W REMOTE THERMOSTAT

- LOCATIONS
- FF-1 VESTIBULE, M-01
 - FF-2 STAIR No. 2, MAIN FLOOR
 - FF-3 VESTIBULE, M-04
 - FF-4 STAIR No. 1, MAIN FLOOR
 - FF-5 COMMON AREA, 2-01

WALL FIN CONVECTOR TYPE 12S - ENCLOSURE (TYPE 18S - ENCLOSURE SECOND FLOOR) (BASED ON TRANE)

- 1 ROW 32mm COPPER ALUMINUM
- ① FIN LENGTH 610mm, COVER LENGTH AS SHOWN, CAPACITY 0.7 kW, @ 82.2 °C A.W.T.
 - ①① FIN LENGTH 610mm, COVER LENGTH CONTINUOUS, CAPACITY 0.7 kW, @ 82.2 °C A.W.T.
 - ② FIN LENGTH 915mm, COVER LENGTH AS SHOWN, CAPACITY 1.0 kW, @ 82.2 °C A.W.T.
 - ②① FIN LENGTH 915mm, COVER LENGTH CONTINUOUS, CAPACITY 1.0 kW, @ 82.2 °C A.W.T.
 - ③ FIN LENGTH 1070mm, COVER LENGTH AS SHOWN, CAPACITY 1.2 kW, @ 82.2 °C A.W.T.
 - ③① FIN LENGTH 1070mm, COVER LENGTH CONTINUOUS, CAPACITY 1.2 kW, @ 82.2 °C A.W.T.
 - ④ FIN LENGTH 1525mm, COVER LENGTH AS SHOWN, CAPACITY 1.7 kW, @ 82.2 °C A.W.T.
 - ④① FIN LENGTH 1525mm, COVER LENGTH CONTINUOUS, CAPACITY 1.7 kW, @ 82.2 °C A.W.T.
 - ⑤ FIN LENGTH 1830mm, COVER LENGTH AS SHOWN, CAPACITY 2.1 kW, @ 82.2 °C A.W.T.
 - ⑤① FIN LENGTH 1830mm, COVER LENGTH CONTINUOUS, CAPACITY 2.1 kW, @ 82.2 °C A.W.T.
 - ⑥ FIN LENGTH 2440mm, COVER LENGTH AS SHOWN, CAPACITY 2.8 kW, @ 82.2 °C A.W.T.
 - ⑥① FIN LENGTH 2440mm, COVER LENGTH CONTINUOUS, CAPACITY 2.8 kW, @ 82.2 °C A.W.T.
 - ⑦ FIN LENGTH 2740mm, COVER LENGTH AS SHOWN, CAPACITY 3.1 kW, @ 82.2 °C A.W.T.
 - ⑦① FIN LENGTH 2740mm, COVER LENGTH CONTINUOUS, CAPACITY 3.1 kW, @ 82.2 °C A.W.T.
 - ⑧ FIN LENGTH 3050mm, COVER LENGTH AS SHOWN, CAPACITY 3.5 kW, @ 82.2 °C A.W.T.
 - ⑧① FIN LENGTH 3050mm, COVER LENGTH CONTINUOUS, CAPACITY 3.5 kW, @ 82.2 °C A.W.T.

UNIT HEATER SCHEDULE (BASED ON TRANE)

- BASED ON 15.55 °C (60 °F) EAT, 11.1 °C (20 °F) WTD
- UH-1 MODEL 42-S, CAPACITY 3.2 kW, AIRFLOW 279 L/S (591 CFM), EWT 82.2 °C, FLOW 0.07 L/S
 - UH-1 MECHANICAL ROOM, B-05
 - EF-1 MAIN FLOOR EXHAUST - DELHI 310, 375 L/S (800 cfm), .06 kPa (.25" wg) ESP, 0.07 kW (.10 HP) C/W FLEX CONNECTIONS AT OUTLET.
 - EF-2 BASEMENT EXHAUST - GREENHECK BSQ-90-4, 285 L/S (600 cfm), .12 kPa (.50" wg) ESP, 0.14 kW (1/5 HP) C/W FLEX CONNECTIONS AT INLET AND OUTLET, C/W SPRING ISOLATORS.
 - EF-3 MAIN FLOOR EXHAUST - DELHI 312, 519 L/S (1100 cfm), .09 kPa (.375" wg) ESP, 0.14 kW (.19 HP) C/W FLEX CONNECTIONS AT OUTLET.
 - EF-4 ELECTRIC ROOM EXHAUST - GREENHECK BSQ-70-4, 95 L/S (200 cfm), .06 kPa (.25" wg) ESP, 0.06 kW (1/8 HP) C/W FLEX CONNECTIONS AT INLET AND OUTLET, C/W SPRING ISOLATORS. FAN OF SPARKPROOF CONSTRUCTION C/W EXPLOSION PROOF MOTOR.
 - EF-5 DRYER EXHAUST BOOSTER FANS - REVERSOMATIC MODEL BF-150 120V/1/60 6 & 8 MOUNT EACH FAN IN EXPOSED PORTION OF VERTICAL DRYER DUCT.
 - EF-7 KITCHEN EXHAUST - BROAD DUCTED SERIES 212 L/S (450 cfm), C/W LIGHTS AND 2 SPEED SWITCH - REFER TO SPEC FOR EXACT SIZE AND COLOR.

EXHAUST FAN SCHEDULE

AIR HANDLER / MAKEUP UNIT SCHEDULE

- AHU-1 MAIN FLOOR AIR HANDLER - Eng A - SERIES 'S' 350 @ 1980 L/S (4200 cfm), .24 kPa (1.0" wg) ESP, 1.49 kW (2 HP) C/W FACTORY INLET HOOD, ROOF MTG CURB AND ISOLATORS, C/W MOTORIZED RELIEF MIXING BOX.
- AHU-2 BASEMENT FLOOR AIR HANDLER - Eng A - SERIES 'S' 125 @ 900 L/S (2100 cfm), .24 kPa (1.0" wg) ESP, 1.14 kW (1 1/2 HP) C/W FACTORY INLET HOOD, ROOF MTG CURB AND ISOLATORS.
- AMU-1 MAIN AND 2nd FLOORS RESIDENCE AIR MAKEUP UNIT - Eng A - SERIES 'S' 150 @ 520 L/S (1100 cfm), .24 kPa (1.0" wg) ESP, 1.14 kW (1 1/2 HP) C/W FACTORY INLET HOOD, ROOF MTG CURB AND ISOLATORS.

| revisions | date |
|---|---------------------------------|
| Client | Client |
| CORRECTIONAL SERVICE CANADA | |
| project title | titre du projet |
| COMMUNITY CORRECTIONAL CENTRE | |
| 1045 MAIN STREET WINNIPEG, MANITOBA | |
| approved by | approuve par |
| designed by | concu par |
| drawn by | dessine par |
| reviewed by | |
| PWC Project Manager | Administrateur de Projets TPC |
| PWC A&E Resources Manager | Gestionnaire Ressources A&G TPC |
| Client | Client |
| drawing title | titre du dessin |
| MECHANICAL SCHEMATICS, DETAILS + SCHEDULES | |
| scale | project no. |
| AS NOTED | 781438 |
| date | CAD no. |
| JUNE, 1993 | A097 |
| sheet | feuille |
| M5 | of 6 |

