

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

[illegible]

All measurements are to be checked and verified on site by the contractor before proceeding with work

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Checked by: Ali Nakhaei-Zadeh
Original Issue Date: 2024-07-31
Project No: TT-24-005
Scale:

MECHANICAL SCHEDULES

No. **M-900**

| VRF FAN COIL UNIT | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|----------------------|--------------|-------------|--------------------------|------------------|-------------|---------------|----------------------------|--------------------------|--------------------------|---------------------|-------------------------|-------------------|-------------------|----------------|----------------|---------------|-------------------|----------------|------------------|-------|------------|-------|---------|-------------|-------|
| TAG | ASSOCIATED CONDENSER | MANUFACTURER | MODEL | TYPE | SERVICE | REFRIGERANT | AIRFLOW (L/S) | | AIRFLOW (L/S) HIGH SPEED | AIRFLOW (L/S) E.S.P (Pa) | TOTAL CAPACITY (KW) | COOLING | | | | | HEATING | | | SOUND (DBA) | | ELECTRICAL | | | WEIGHT (kg) | NOTES |
| | | | | | | | LOW SPEED | AIRFLOW (L/S) MEDIUM SPEED | | | | SENSEIBLE CAPACITY (KW) | SET POINT DB (°C) | SET POINT WB (°C) | S.A.T. DB (°C) | S.A.T. WB (°C) | CAPACITY (KW) | SET POINT DB (°C) | S.A.T. DB (°C) | PRESSURE (H/M/L) | POWER | MCA | MOCPP | V/PHz | | |
| FCU-1 | ODU-1 | DAIKIN | FXSQ07TBVJU | HORIZONTAL, DUCTED | CONFERENCE RM | R-410A | 109 | 125 | 133 | 0.10 | 2.20 | 1.61 | 26.7 | 19.4 | 12.8 | 12.2 | 2.49 | 21.1 | 29.4 | 33/30/28 | 61 | 0.8 | 15 | 208/160 | 24.9 | |
| FCU-2 | ODU-1 | DAIKIN | FXSQ24TBVJU | HORIZONTAL, DUCTED | MECHANICS OFFICE | R-410A | 242 | 292 | 350 | 0.10 | 7.03 | 5.01 | 26.7 | 19.4 | 12.8 | 12.2 | 7.91 | 21.1 | 29.4 | 36/32/29 | 64 | 1.8 | 15 | 208/160 | 24.9 | |
| FCU-3 | ODU-1 | DAIKIN | FXSQ07TBVJU | HORIZONTAL, DUCTED | KITCHEN/Lounge | R-410A | 109 | 125 | 133 | 0.10 | 2.20 | 1.61 | 26.7 | 19.4 | 12.8 | 12.2 | 2.49 | 21.1 | 29.4 | 33/30/28 | 61 | 0.8 | 15 | 208/160 | 24.9 | |
| FCU-4 | ODU-1 | DAIKIN | FXSQ24TBVJU | HORIZONTAL, DUCTED | GENERAL OFFICE | R-410A | 242 | 292 | 350 | 0.10 | 7.03 | 5.01 | 26.7 | 19.4 | 12.8 | 12.2 | 7.91 | 21.1 | 29.4 | 36/32/29 | 64 | 1.8 | 15 | 208/160 | 60 | |
| FCU-5 | ODU-1 | DAIKIN | FXSQ07TBVJU | HORIZONTAL, DUCTED | QUARTER MASTER | R-410A | 133 | 125 | 133 | 0.10 | 1.70 | 1.38 | 26.7 | 19.4 | 12.8 | 12.2 | 1.90 | 21.1 | 29.4 | 33/30/28 | 61 | 0.8 | 15 | 208/160 | 24.9 | |
| FCU-6 | ODU-1 | DAIKIN | FXSQ07TBVJU | HORIZONTAL, DUCTED | OFFICE 1 | R-410A | 133 | 125 | 133 | 0.10 | 1.70 | 1.38 | 26.7 | 19.4 | 12.8 | 12.2 | 1.90 | 21.1 | 29.4 | 33/30/28 | 61 | 0.8 | 15 | 208/160 | 24.9 | |
| FCU-7 | ODU-1 | DAIKIN | FXSQ07TBVJU | HORIZONTAL, DUCTED | OFFICE 2 | R-410A | 133 | 125 | 133 | 0.10 | 1.70 | 1.38 | 26.7 | 19.4 | 12.8 | 12.2 | 1.90 | 21.1 | 29.4 | 33/30/28 | 61 | 0.8 | 15 | 208/160 | 24.9 | |
| FCU-8 | ODU-1 | DAIKIN | FXSQ07TBVJU | HORIZONTAL, DUCTED | LOCKER RM | R-410A | 133 | 125 | 133 | 0.10 | 1.70 | 1.38 | 26.7 | 19.4 | 12.8 | 12.2 | 1.90 | 21.1 | 29.4 | 33/30/28 | 61 | 0.8 | 15 | 208/160 | 24.9 | |
| FCU-9 | ODU-1 | DAIKIN | FXSQ12TBVJU | HORIZONTAL, DUCTED | LOCKER RM | R-410A | 117 | 134 | 158 | 0.20 | 3.52 | 2.84 | 26.7 | 19.4 | 12.8 | 12.2 | 3.96 | 21.1 | 29.4 | 34/32/30 | 62 | 0.8 | 15 | 208/160 | 24.9 | |
| FCU-10 | ODU-1 | DAIKIN | FXSQ24TBVJU | HORIZONTAL, DUCTED | FITNESS RM | R-410A | 242 | 292 | 350 | 0.10 | 7.03 | 5.01 | 26.7 | 19.4 | 12.8 | 12.2 | 7.91 | 21.1 | 29.4 | 36/32/29 | 64 | 1.8 | 15 | 208/160 | 60 | |
| FCU-11 | ODU-2 | DAIKIN | FTX24WVJU8R | WALL MOUNTED, NON-DUCTED | IT ROOM | R-410A | 0 | 0 | 155 | 0.00 | 6.21 | 4.62 | 26.7 | 19.4 | 12.8 | 12.2 | 7.03 | 21.1 | -273.2 | 51/44/37 | 0 | 18.8 | 0 | 208/160 | 14.96 | |

| TANKLESS ELECTRIC WATER HEATER | | | | | | | | | | | | | |
|--------------------------------|--------------|----------|----------------|---------------------|-------|-----------------|----------------|------------|-----|------|----------|-------------|---------|
| TAG | MANUFACTURER | MODEL | SERVICE | | FLUID | | | ELECTRICAL | | | | WEIGHT (kg) | REMARKS |
| | | | | OUPUT CAPACITY (KW) | TYPE | FLOW RATE (L/S) | TEMP. RISE (C) | AMPS (A) | MCA | MOCP | V/Ph/Hz | | |
| TLWH-1 | RHEEM | RETEX-04 | LAVATORY | 3.5 | WATER | 0.03 | 8.9 | 29 | | | 120/1/60 | 2.0 | |
| TLWH-2 | RHEEM | RETEX-11 | KITCHEN/WASHER | 11.8 | WATER | 0.09 | 10 | 46 | | | 240/1/60 | 3.9 | |
| TLWH-3 | RHEEM | RETEX-13 | SHOWER/JAN RM | 13.0 | WATER | 0.13 | 6.7 | 54 | | | 240/1/60 | 3.9 | |

| BOILER | | | | | | | | | | | | | | | | | |
|--------|--------------|----------------|----------|---------------------|----------------|--------------------|--------------------|------------|-----------------|-----------|-----------|------------|-----|------|----------|-------------|------------|
| TAG | MANUFACTURER | MODEL | LOCATION | GAS | | | | FLUID | | | | ELECTRICAL | | | | WEIGHT (kg) | REMARKS |
| | | | | OUPUT CAPACITY (KW) | BOILER EFF (%) | MIN GAS PRES. (IN) | MAX GAS PRES. (IN) | TYPE | FLOW RATE (GPM) | E.F.T (F) | L.F.T (F) | AMP | MCA | MOCP | V/Ph/Hz | | |
| B-1 | DE DIETRICH | GT 430-8A PLUS | MECH RM | 432 | 96 | 7 | 14 | 40% GLYCOL | 130 | 120 | 95 | 9.8 | | | 120/1/60 | 1470 | CONDENSING |
| B-2 | DE DIETRICH | GT 430-8A PLUS | MECH RM | 432 | 96 | 7 | 14 | 40% GLYCOL | 130 | 120 | 95 | 9.8 | | | 120/1/60 | 1470 | CONDENSING |

| ELECTRIC UNIT HEATER | | | | | | | | | | | | | |
|----------------------|--------------|-------|-----------------|------------------------|-----------------------|---------------|----------|---------|------------|------|---------|-------------|-------|
| TAG | MANUFACTURER | MODEL | LOCATION | MOUNTING CONFIGURATION | HEATING CAPACITY (kW) | AIRFLOW (L/s) | MOTOR KW | FAN RPM | ELECTRICAL | | | WEIGHT (kg) | NOTES |
| | | | | | | | | | FLA | MOCP | V/Ph/Hz | | |
| UH-1 | SIGMA | 05BH | MECH RM | WALL MOUNT | 10.76 | 94 | 0.093 | 1550 | 1.8 | 15 | 120/160 | 21.8 | |
| UH-2 | SIGMA | 047H | VEHICLE BAY | WALL MOUNT | 7.62 | 190 | 0.093 | 1550 | 1.8 | 15 | 120/160 | 18.1 | |
| UH-3 | SIGMA | 047H | VEHICLE BAY | WALL MOUNT | 7.62 | 190 | 0.093 | 1550 | 1.8 | 15 | 120/160 | 18.1 | |
| UH-4 | SIGMA | 047H | PAINT ROOM | WALL MOUNT | 7.62 | 190 | 0.093 | 1550 | 1.8 | 15 | 120/160 | 18.1 | |
| UH-5 | SIGMA | 047H | MAINTENANCE STG | WALL MOUNT | 7.62 | 190 | 0.093 | 1550 | 1.8 | 15 | 120/160 | 18.1 | |
| UH-6 | REZNOR | EHC | VESTIBULE | WALL MOUNTED | 3.00 | 75 | | | | | | | |

| SNOW MELTING SYSTEM | | | | | | | | |
|---------------------|-----------|-------------------|------------|---------------|------------------|---------|---------------------|------------------|
| TAG | AREA (M2) | HEATING LOAD (KW) | FLOW (L/S) | HEAD LOSS (M) | FLUID TYPE | DELTA T | LOOP TYPE | SPACING |
| SM-1 | 1,582 | 998 | 21 | 34 | 40% PROP. GLYCOL | 13.9C | 25.4MM UPONER HEPEX | 229MM CTRS TUBES |

| IN FLOOR HEATING | | | | | | | | |
|------------------|-----------|-----------------|------------|---------------|------------|---------|--------------------|------------------|
| TAG | AREA (M2) | TOTAL LOAD (KW) | FLOW (L/S) | HEAD LOSS (M) | FLUID TYPE | DELTA T | LOOP TYPE/SIZE | SPACING |
| IF-1 | 405 | 45 | 2 | 4 | 100% WATER | 11 C | 12.7MM UPONO HEPEX | 305MM CTRS TUBES |