



| Minimum Required Exhaust Rate | | | | | | |
|-------------------------------|------------------------------------|----------------|--|------------------|---------------------------------|--------------------------|
| Room Name | # of WC or urinals (if applicable) | Square Footage | Occupancy Category (Ashrae 62.1 Table 6.4) | Exhaust Rate per | Area Outdoor Air Rate (cfm/ft²) | Fresh air Required (CFM) |
| Storage | 0 | 2110.5 | Parking Garages | 0 | 0.75 | 1582.875 |
| | | | | 0 | 0 | 0 |
| | | | | 0 | 0 | 0 |
| | | | | 0 | 0 | 0 |
| | | | | 0 | 0 | 0 |

| EXHAUST FAN SCHEDULE | | | | | | | | |
|----------------------|--------------|--------------------------|-----------------|-----------|----------------|-----------------------|---------------------|--|
| IDENT. | MANUFACTURER | TYPE | POWER | DUCT SIZE | MODEL | CONTROL | CFM/STATIC PRESSURE | REMARKS |
| EF-1 | GREENHECK | WALL UPBLAST EXHAUST FAN | 208/1/60 1/2 HP | AS NOTED | CUBE-180H VG-2 | SWITCH AND GAS SENSOR | 3243 CFM @ 0.25" | c/w BACKDRAFT DAMPER, ACOUSTIC INSULATION, DISCONNECT, MOUNTING BRACKETS, BIRDSCREEN, VARI-GREEN DRIVE |

| LOUVER SCHEDULE | | | | | |
|-----------------|---------------------------|-----------|--------------|--------|--------------------------|
| IDENT. | DESCRIPTION | SIZE | MANUFACTURER | MODEL | NOTES |
| LV-1,2 | MAKE UP AIR INTAKE LOUVER | 24"Hx18"W | NAILOS | 1604AD | COMPLETE WITH BIRDSCREEN |

| GAS DETECTION SCHEDULE | | | | | |
|------------------------|-------------------|--------------|------------|----------|---|
| IDENT. | ITEM | MANUFACTURER | MODEL | VOLTAGE | NOTES |
| GMP-1 | GAS MONITOR PANEL | ARMSTRONG | AMC-1AD1/2 | 120/1/60 | SINGLE/DUAL ZONE GAS MONITOR, RED/YELLOW/GREEN LED INDICATORS, 95 dBA AUDIO ALARM, UP TO 8 MODULES PER ZONE, MOUNTING HEIGHT AS PER MANUFACTURER'S SPECIFICATIONS. LOW VOLTAGE OUTPUTS FOR SENSORS. |
| GS-1 | CO/NO2 GAS SENSOR | ARMSTRONG | AMC-1220 | 12-24VDC | CO & NO2 ELECTROCHEMICAL SENSOR, 0-100ppm CO/0-3ppm NO2, LOW POWER 3 WIRE 18 AWG SHIELDED INSTALLATION WIRING, 50' RADIUS COVERAGE AREA. MAXIMUM 150FT BETWEEN SENSORS AND PANEL. POWERED FROM PANEL. |

| FAN FORCED HEATER SCHEDULE | | | | | | | |
|----------------------------|--------------|----------------------------|----------------|------------|--------------|---------------------|--|
| IDENT. | MANUFACTURER | TYPE | POWER | MODEL | FINISH | CONTROL | REMARKS |
| EFF-1 | OUELLET | RECESSED FAN FORCED HEATER | 208/1/60 3000W | OACP4000-T | BY ARCHITECT | BUILT-IN THERMOSTAT | CEILING MOUNTED FAN FORCED HEATER BUILT-IN TAMPERPROOF THERMOSTAT, 160CFM. MINIMUM CLEARANCE OF 10" (254mm) FROM WALLS AND FLOOR. SUPPLIED BY MECHANICAL AND INSTALLED BY ELECTRICAL |

| AIR SCRUBBER SCHEDULE | | | | |
|-----------------------|--------------|----------------------|-------------|--|
| IDENT. | MANUFACTURER | POWER | MODEL | REMARKS |
| AS-1.1 AS-1.2 | AIRMATION | 208-230 1 PHASE 4.7A | AMB 302-NDR | PRE-FILTER #AMPF-04 HEPA FILTER #AMVBD-95 CARBON FILTER #AMCF-26 C/W AIRMATION TSCMM CONTROLLER |

| HRV SCHEDULE | | | | | | | |
|--------------|--------------|-------|-------------------|------------|---------------------|---------------------------|---|
| IDENT. | MANUFACTURER | MODEL | POWER | DUCT SIZE | CFM/STATIC PRESSURE | CONTROL | NOTES |
| HRV-1 | LIFEBREATH | DCS | 120/1/60 1.5A 67W | 6" COLLARS | 193 CFM @ 0.3" | WALL MOUNT CONTROLLER (H) | c/w 99-DXPLO2 DIGITAL CONTROLLER, MOUNTING BRACKETS, 6" 99-186 WEATHERHOOD KIT FOR INTAKE AND EXHAUST |

| UNIT HEATER SCHEDULE | | | | | |
|----------------------|--------------|--------|-------------------------|-------------|---|
| IDENT. | MANUFACTURER | MODEL | CAPACITY (MBH IN / OUT) | POWER | REMARKS |
| UH-1 | MODINE | HDS-30 | 30 MBH / 24.9 MBH | 115V, 2.4 A | COMPLETE WITH THERMOSTAT BY MANUFACTURER, MOUNTED ON THE WALL |

- GENERAL NOTES**
- MECHANICAL CONTRACTOR RESPONSIBLE FOR CONTROLS. POWER BY ELECTRICAL.
- NOTES**
- EF-1 FAN TO BE CONTROLLED BY HAND/OFF/AUTO SWITCH. HAND SETTING TO RUN AT EITHER HIGH OR LOW SETTING, LOW SETTING IS SUCH THAT IT MEETS MINIMUM REQUIRED EXHAUST RATE FOR THE SPACE. AUTO SETTING TO RUN FAN AT LOW SPEED WHEN RECEIVING SIGNAL FROM OCCUPANCY SENSOR, AND HIGH SPEED WHEN RECEIVING ALERT FROM CO AND NO2 SENSOR.
 - MOTORIZED DAMPERS TO RECEIVE SIGNAL TO OPEN FROM EF-1 SUCH THAT DAMPERS LV-1 AND LV-2 OPENS WHEN EF-1 IS TURNED ON, AND LOUVERS ARE CLOSED WHEN EF-1 IS OFF.
 - AIR SCRUBBER TO BE CONTROLLED BY CONTROLLER. AUTO TO RUN WHENEVER AN OVERHEAD DOOR IS OPEN. COORDINATE WITH SELECTED OVERHEAD DOOR.
 - ELECTRIC HEAT BY MECHANICAL. WIRING BY ELECTRICAL.

| NO. | DESCRIPTION | DATE | BY |
|-----|---------------------------|------------|-----|
| 2 | RE-ISSUED FOR ADDENDUM M1 | 2026.03.27 | CSM |
| 1 | RE-ISSUED FOR PERMIT | 2026.01.27 | CSM |
| 0 | ISSUED FOR PERMIT | 2025.07.03 | CSM |

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Kirkland Engineering Ltd BCIN: 28857

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PROJECT

**FENELON FALLS
FIRE STATION #22
STORAGE BUILDING**

4 John Street
Fenelon Falls, Ontario

| TITLE | | |
|-------------|------|----------------|
| HVAC LAYOUT | | |
| DESIGN | CSM | SCALE AS NOTED |
| DRAWN | ABS | DWG NO. |
| CHECKED | CSM | M1 |
| APPROVED | CSM | |
| PROJECT | 7445 | |

