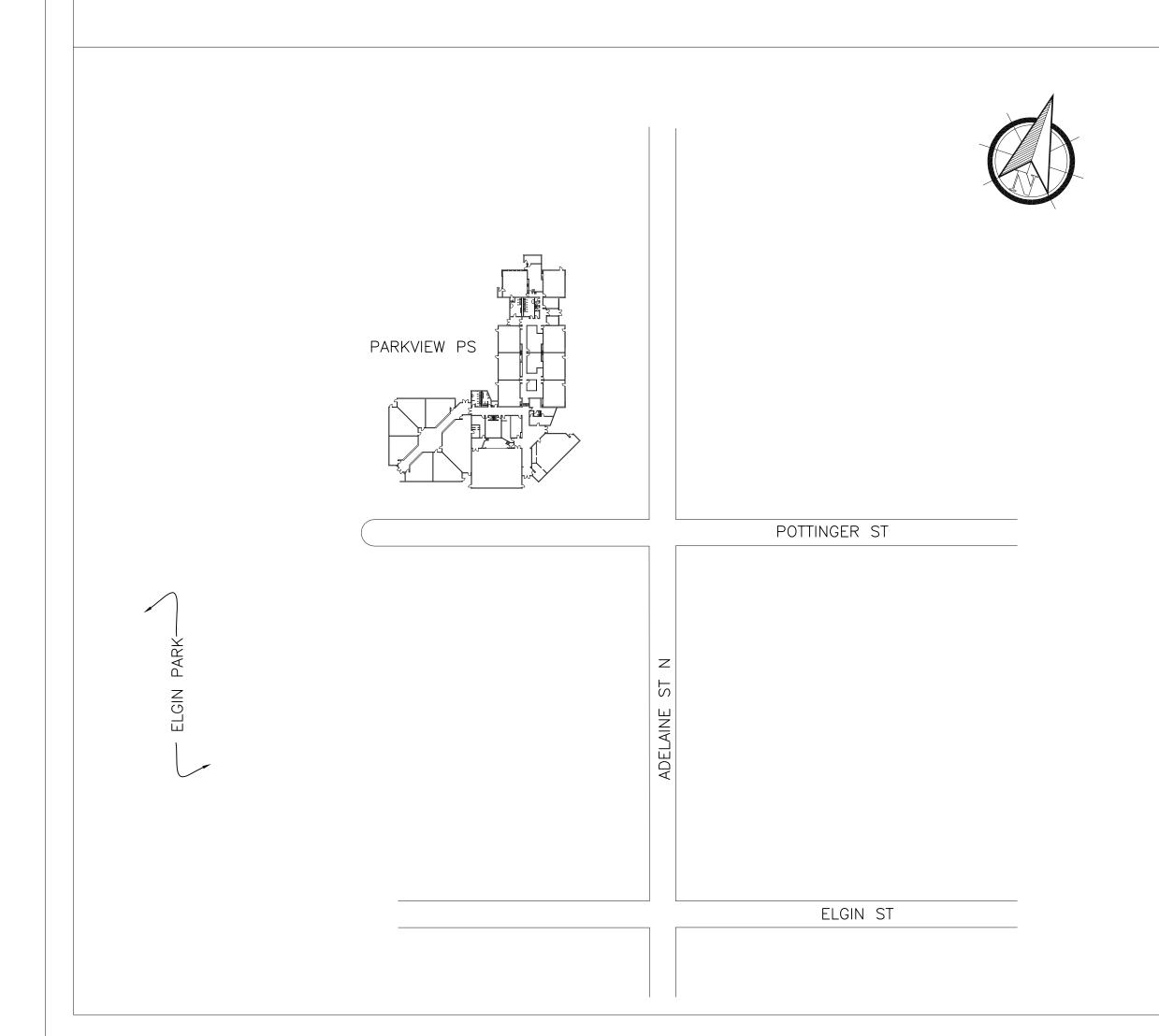
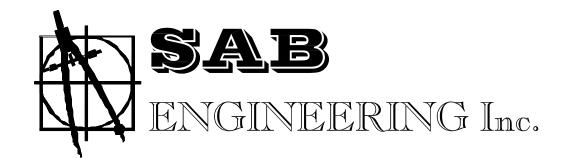
# TLDSB PARKVIEW PUBLIC SCHOOL HVAC UPGRADES

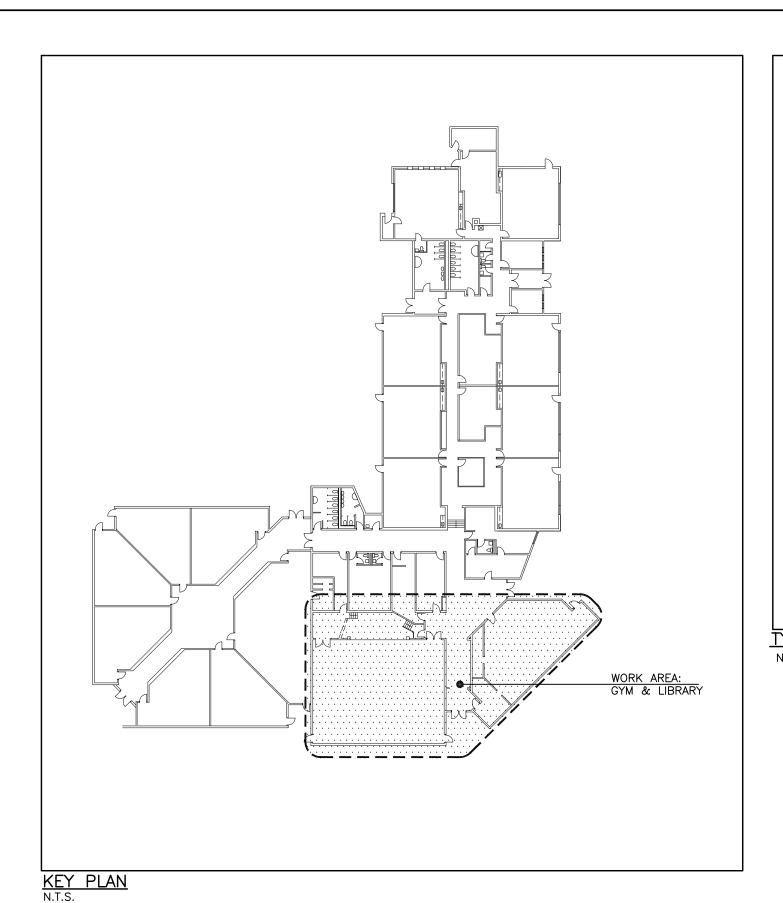
133 ADELAIDE ST. N, LINDSAY K9V 4M2

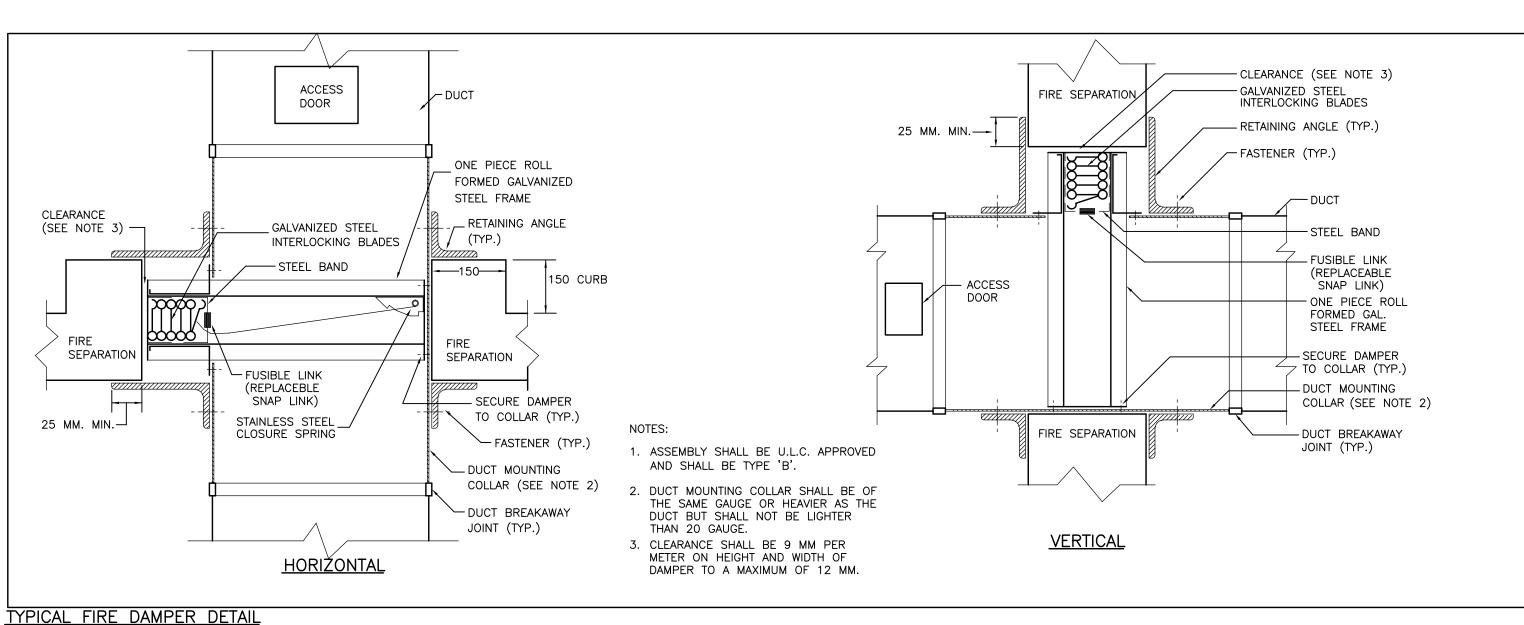
ISSUED FOR TENDER MAY 2021

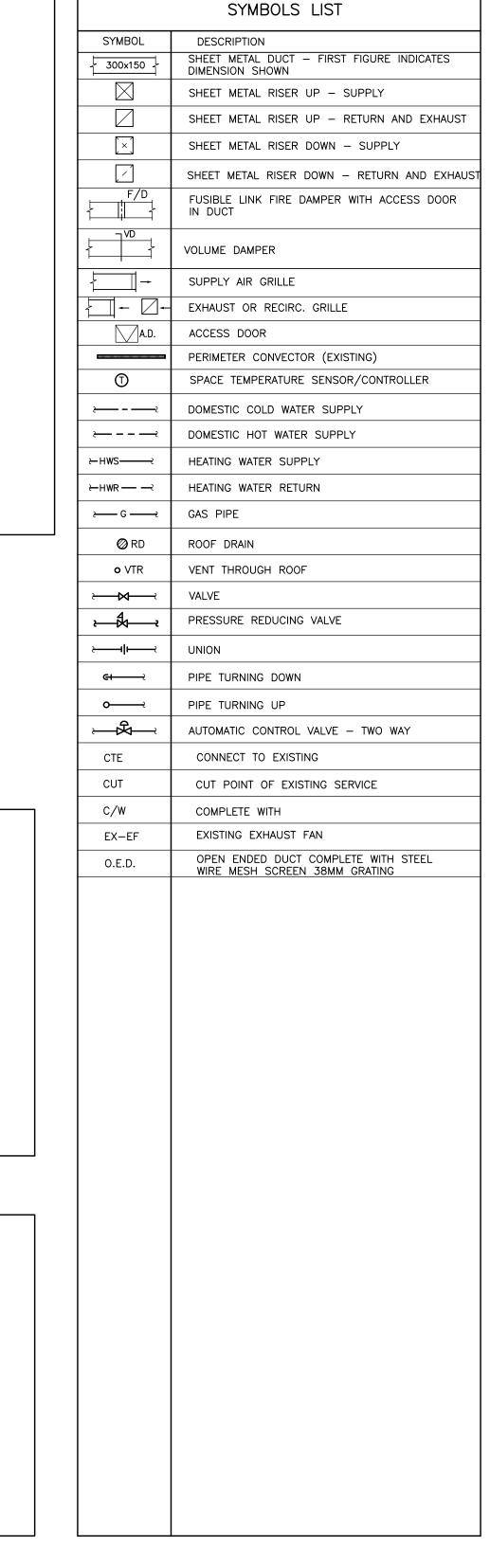


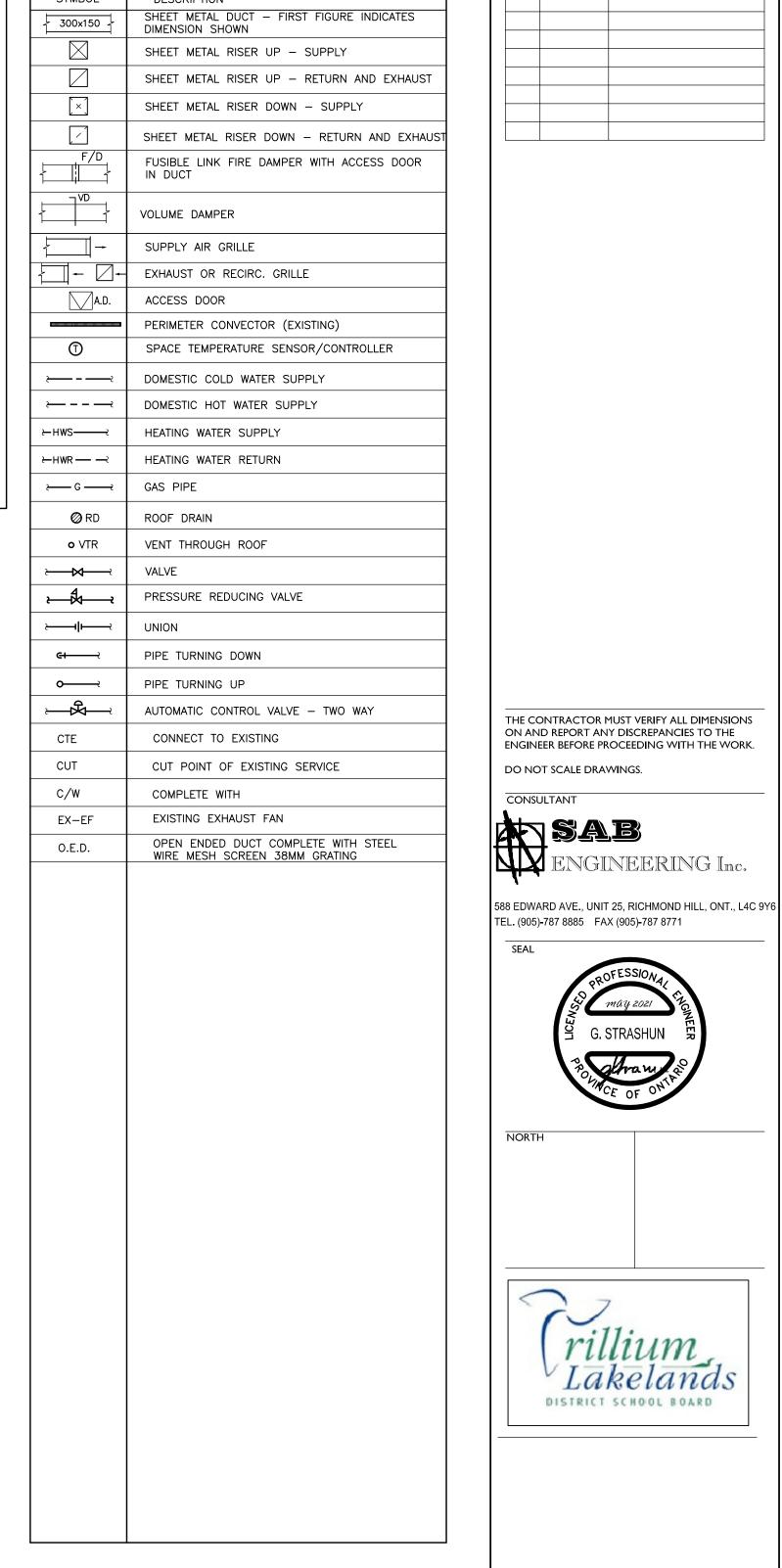












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No. DATE

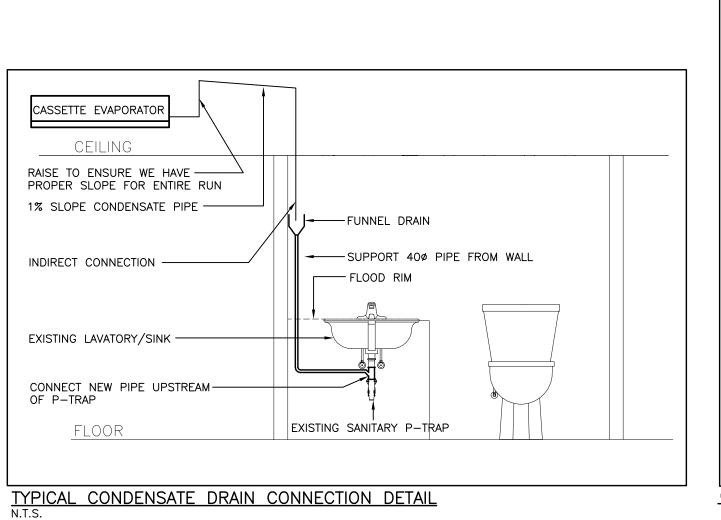
DESCRIPTION

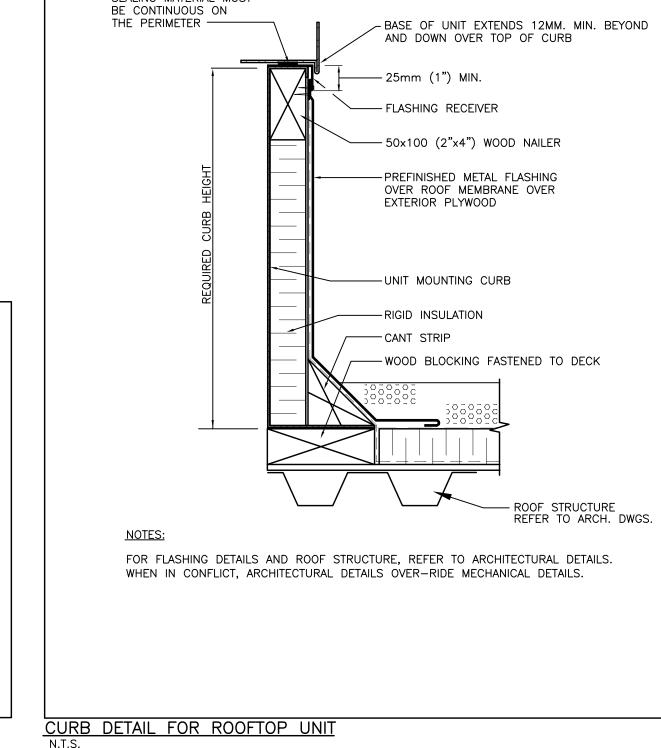
ENGINEERING Inc.

G. STRASHUN

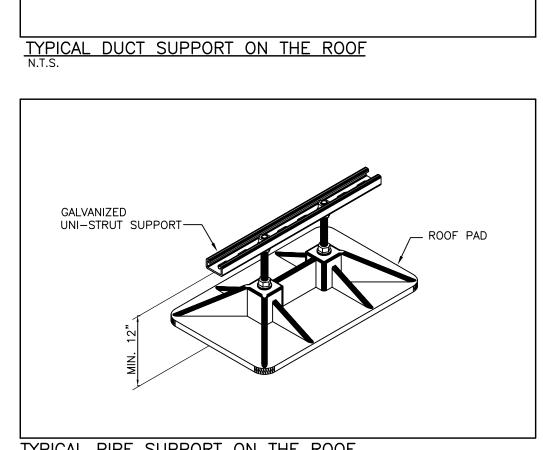
DISTRICT SCHOOL BOARD

I. 21/05/2021 ISSUED FOR TENDER





SEALING MATERIAL MUST



GLAVANIZED

U-CHANNEL

GLAVANIZED

U-CHANNEL

ROOF PAD

| <u> </u> | PICAL CONDENSATE DRAIN CONNECTION DETAIL r.s. |  | CURB DETAIL FOR ROOFTOP UNIT  | TYP<br>N.T.  | PICAL PIPE SUPPORT ON THE ROOF T.S.                            |         |
|----------|---|--|---|--|--|---------|
|          |   |  | SCHEDULE OF ROOFTOP UNITS   |  |  |         |
|          | LOCATION AIR FLOW E.S.P. SPEED LID AIR FLOW   | UST FAN PERFORMANCE  E.S.P. SPEED HP AIR (CFM) Pa [IN] RPM | HEATING PERFORMANCE  CAPACITY kW [MBH] AIR TEMP [*F] TURNDOWN RATIO  INPUT OUTPUT EDBT/EWBT LDBT/LWBT | DX COOLING PERFORMANCE  TOTAL CAP. SENS. CAP. AIR TEMP [*F]  kW [MBH] kW [MBH] EDBT/EWBT LDBT/LWBT | WEIGHT POWER SUPPLY MCA MOCP KG [LBS] (V/PH/Hz) (AMPS) REMARKS |         |
|          | LOW ROOF 3,000 199 [0.8] 1760 3.0 3,000 12    | 25 [0.5] 1760 3.0 1200                                     |   | 28.8 [98.37] 20.6 [70.38] 77.4/65.4 55.3/54.1  |  | OF CURB |
|          |   |  |   |  |  |         |

NOTE: 0-100% ECONOMIZER WITH DRY BULB CONTROL; CO2 SENSOR FOR VENTILATION CONTROL

SERVING

GYMNASIUM

RTU-1

| TAG   | MANUFACTURER | MODEL    | COOLING CAP. TONS [MBH] | I REFRIGERANT | CONNECTIO<br>RL (MM/IN) |          | EQUIPMENT SIZE (HxLxW, MM) | POWER SUPPLY<br>(V/PH/MCA) | MOCP | WEIGHT<br>KG [LB] | REMARKS |
|-------|--------------|----------|-------------------------|---------------|-------------------------|----------|----------------------------|----------------------------|------|-------------------|---------|
| CDU-1 | MITSUBISHI   | PUHY-P72 | 6.0 [72]                | R410A         | 9.5 [¾]                 | 22/[1/8] | 1650x950x740               | 208/3ø/25                  | 30   | 195 [430]         |         |

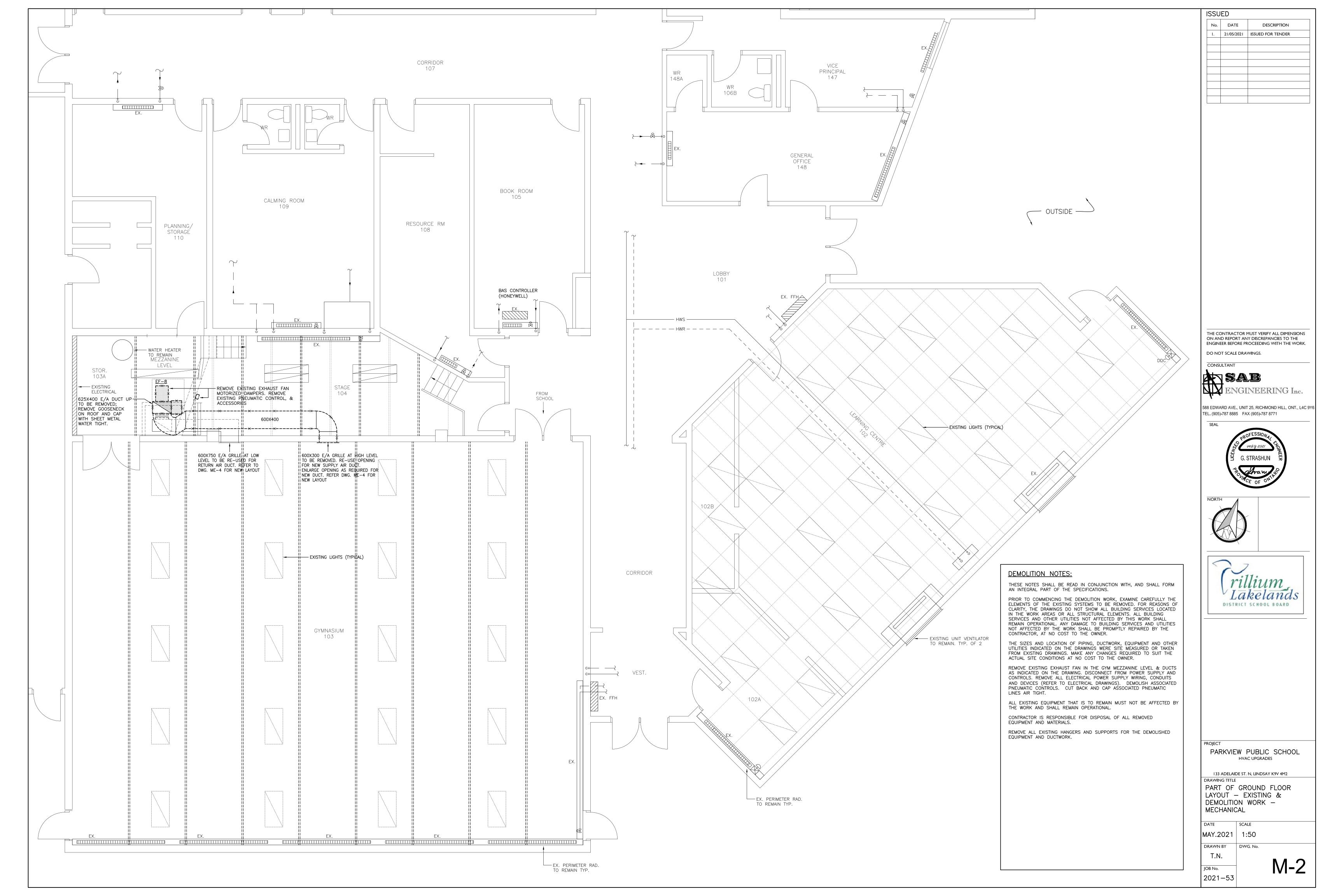
|      | SCHEDULE OF GRILLES & DIFFUSERS |              |       |                   |        |                               |  |  |  |  |
|------|---------------------------------|--------------|-------|-------------------|--------|-------------------------------|--|--|--|--|
| TYPE | SERVICE                         | MANUFACTURER | MODEL | VOLUME<br>CONTROL | FINISH | REMARKS                       |  |  |  |  |
| Α    | SUPPLY                          | E.H. PRICE   | RCD   | YES               | B12    | C/W SAFETY CHAIN & WIRE GUARD |  |  |  |  |

| TAG  | TYPE          | MANUFACTURER | MODEL          | CLG. CAP. | AIR FLOW | POWER SUPPLY | MCA  | моср | WEIGHT | EQUIPMENT SIZE | REFRIG. P | PIPE (MM) | DRAIN | REMARKS |
|------|---------------|--------------|----------------|-----------|----------|--------------|------|------|--------|----------------|-----------|-----------|-------|---------|
| TAG  | ITPE          | MANUFACTURER | MODEL          | (TONS/KW) | (CFM)    | (V/PH/Hz)    | (A)  | (A)  | (KG)   | (HxWxD, MM)    | LIQUID    | GAS       | (MM)  | REMARKS |
| AC-1 | CLG. CASSETTE | MITSUBISHI   | PLFY-P30NBMU-E | 2.5/8.8   | 565-777  | 208/1ø/60    | 0.51 | 15   | 23     | 258x840x840    | 9.5       | 15.8      | 32    |         |
| AC-2 | CLG. CASSETTE | MITSUBISHI   | PLFY-P30NBMU-E | 2.5/8.8   | 565-777  | 208/1ø/60    | 0.51 | 15   | 23     | 258x840x840    | 9.5       | 15.8      | 32    |         |
| AC-3 | CLG. CASSETTE | MITSUBISHI   | PLFY-P08NCMU-E | 0.75/2.3  | 280-350  | 208/1ø/60    | 0.28 | 15   | 13.1   | 208X570X570    | 6.35      | 12.7      | 32    |         |
| AC-4 | CLG. CASSETTE | MITSUBISHI   | PLFY-P08NCMU-E | 0.75/2.3  | 280-350  | 208/1ø/60    | 0.28 | 15   | 13.1   | 208X570X570    | 6.35      | 12.7      | 32    |         |
|      |               |              |                |           |          |              |      |      |        |                |           |           |       |         |

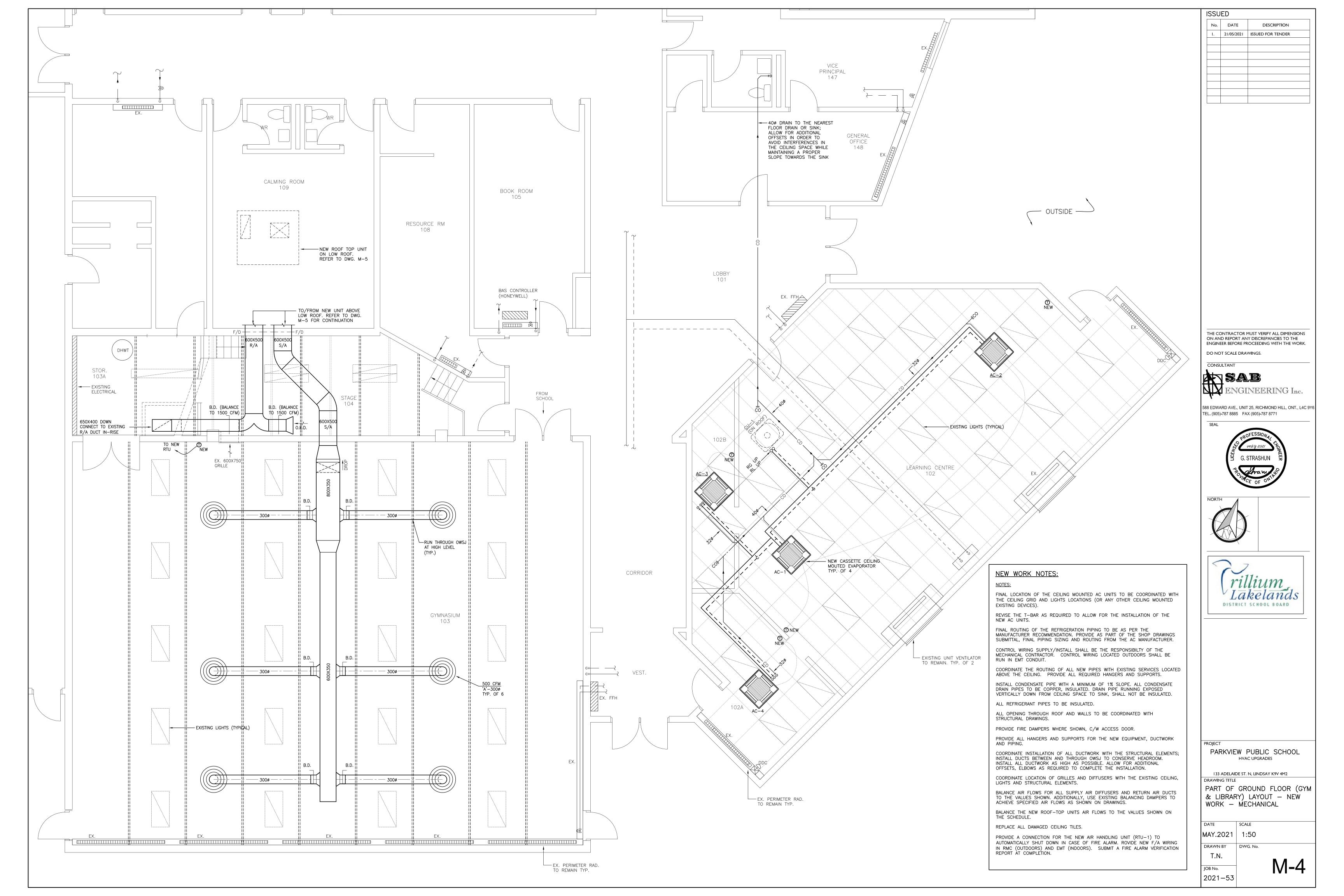
NOTE: COOLING ONLY. HEATING SHALL BE DISABLED

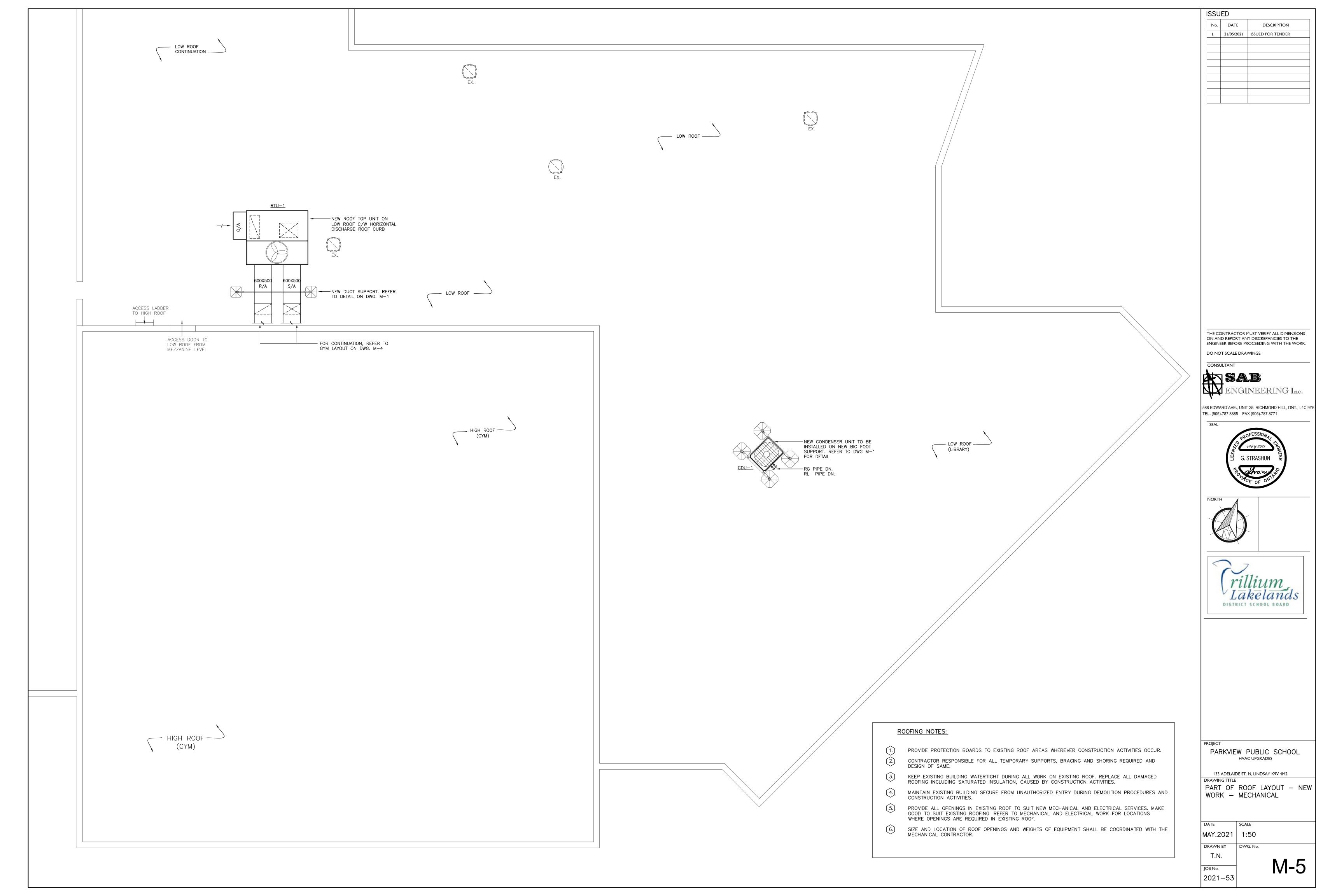
SCHEDULE OF INDOOR A/C UNITS

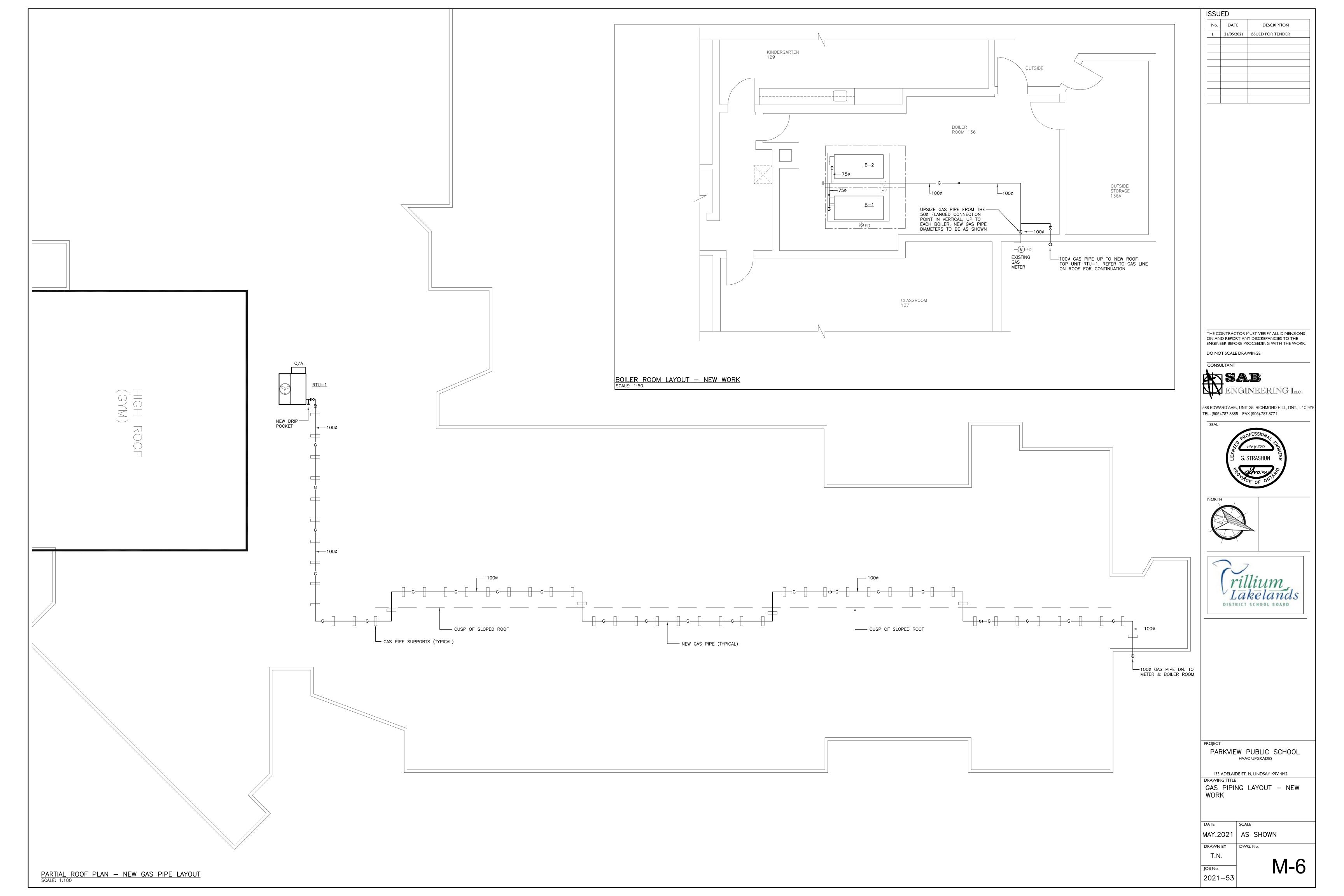
PARKVIEW PUBLIC SCHOOL **HVAC UPGRADES** 133 ADELAIDE ST. N, LINDSAY K9V 4M2 DRAWING TITLE SYMBOLS, EQUIPMENT SCHEDULE & DETAILS -MECHANICAL MAY.2021 N.T.S. DRAWN BY T.N. JOB No. 2021-53

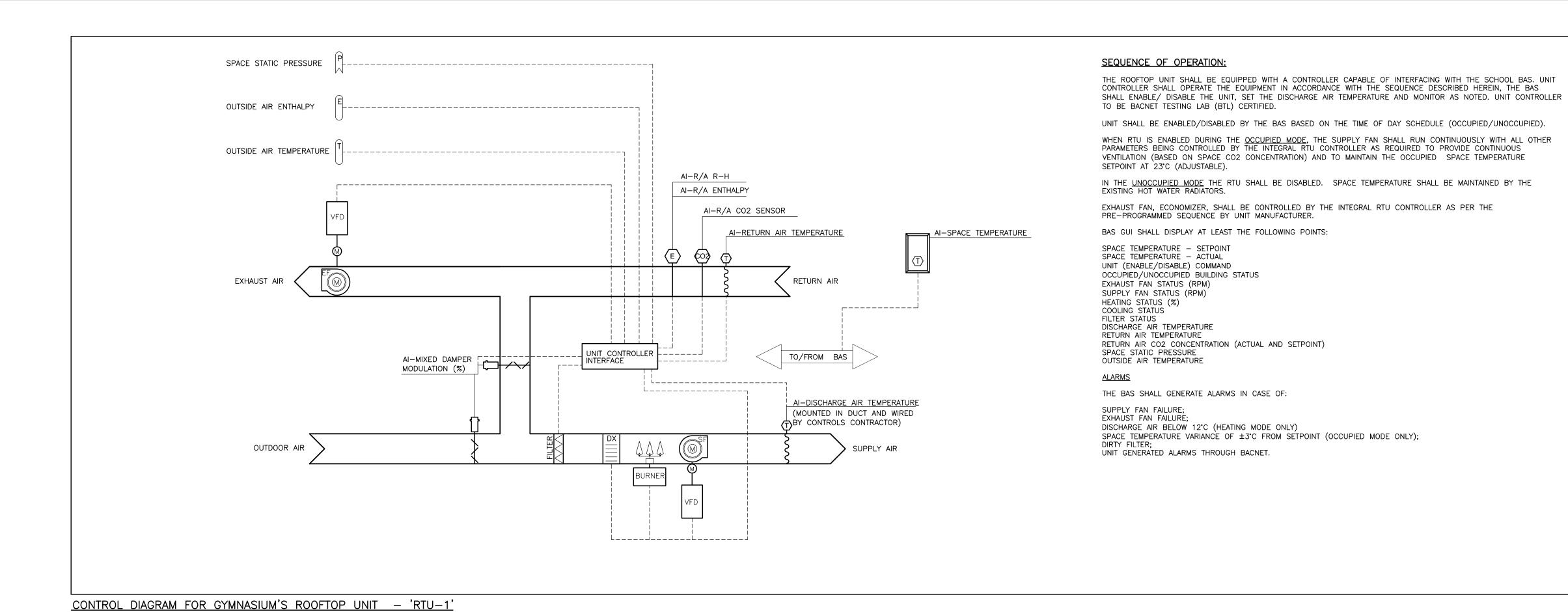












VRF OUTDOOR UNIT SPACE TEMPERATURE (REMOTE CONTROLLER) INDOOR UNIT INDOOR UNIT SPACE TEMPERATURE INDOOR UNIT (REMOTE CONTROLLER) INDOOR UNIT SPACE TEMPERATURE (REMOTE CONTROLLER) SEQUENCE OF OPERATION MUTLI-SPLIT AIR CONDITIONING SYSTEMS THE MULTI-SPLIT AIR CONDITIONING SYSTEMS SHALL BE ENERGIZED DURING THE COOLING/OCCUPIED PERIODS ONLY. WHEN THE SYSTEMS ARE ENERGIZED, THE INDOOR EVAPORATOR FANS SHALL RUN AS REQUIRED TO MAINTAIN THE COOLING/OCCUPIED SPACE SETPOINTS (DEFAULT: 25°C). THE OUTDOOR CONDENSING UNIT SHALL MODULATE AS REQUIRED TO REJECT THE HEAT FROM THE BUILDING AND COLLECTED BY THE MULTIPLE EVAPORATORS. DURING COOLING/UNOCCUPIED PERIODS, THE MULTI-SPLIT AIR CONDITIONING SYSTEMS SHALL SHUT DOWN. EVAPORATORS AC-1,2 SHALL MAINTAIN SPACE TEMPERATURE SETPOINT IN THE LIBRARY EVAPORATOR AC-3 SHALL MAINTAIN SPACE TEMPERATURE SETPOINT IN ROOM 102B EVAPORATORS AC-4 SHALL MAINTAIN SPACE TEMPERATURE SETPOINT IN ROOM 102A BAS TO ENSURE THAT HEATING AND COOLING SHALL NOT OPERATE AT THE SAME TIME. THE BAS SHALL GENERATE ALARMS IN ADDITION TO THOSE INCLUDED IN SECTION 23 09 23 AS FOLLOWS: • SPACE TEMPERATURE IN ANY CONTROLLED AREA VARIES ±2°C FROM SETPOINT FOR MORE THAN 15 MINUTES. ANY MULTI-SPLIT CONDENSING UNIT FAILURE REFER TO SPECIFICATIONS SECTION FOR THE CONTROL OF THE A/C VRF SYSTEM. CONTROLS SUB-CONTRACTOR TO CONNECT TO THE VRF SYSTEM VIA BACNET AND PROVIDE MINIMUM REQUIRED POINTS. PROVIDE ALL REQUIRED WIRING AND CONDUITS BETWEEN INDOOR AND OUTDOOR UNITS AND CONTROLLERS. COORDINATE WITH THE VRF SYSTEM MANUFACTURER. FOR EACH INDOOR UNIT PROVIDE AT LEAST: ROOM TEMPERATURE SETTING ROOM TEMPERATURE RESETTING ROOM TEMPERATURE INDOOR UNIT START/STOP OPERATING MODE INDOOR UNIT STATUS FOR EACH OUTDOOR UNIT: OUTDOOR UNIT START/STOP OUTDOOR UNIT STATUS

AC UNIT CONTROL DIAGRAM
N.T.S.

ISSUED No. DATE DESCRIPTION I. 21/05/2021 ISSUED FOR TENDER THE CONTRACTOR MUST VERIFY ALL DIMENSIONS ON AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE DRAWINGS. ENGINEERING Inc. 588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6 TEL. (905)-787 8885 FAX (905)-787 8771 G. STRASHUN NORTH DISTRICT SCHOOL BOARD PARKVIEW PUBLIC SCHOOL HVAC UPGRADES 133 ADELAIDE ST. N, LINDSAY K9V 4M2 DRAWING TITLE CONTROLS (BAS) MAY.2021 N.T.S. DRAWN BY JOB No. 2021-53



## **ELECTRICAL GENERAL NOTES**

EXAMINE ARCHITECTURAL, STRUCTURAL AND MECHANICAL CONDITIONS AND AVAILABLE DRAWINGS BEFORE PROCEEDING WITH THE WORK. ANY DISCREPANCIES BETWEEN DRAWINGS AND/OR SPECIFICATIONS MUST BE REFERRED TO THE PRIME CONSULTANT BEFORE ANY AFFECTED WORK IS COMMENCED.

ALL MATERIALS USED THROUGHOUT SHALL BE NEW, OF BEST QUALITY CSA APPROVED AND OF ONE MANUFACTURER.

OBTAIN AND PAY FOR APPROVALS AND PERMITS FROM AUTHORITIES HAVING JURISDICTION.

PROVIDE ALL CONDUIT, WIRING, BOXES, SWITCHES, OUTLETS, DEVICES, ETC, AS REQUIRED. MAKE UP TO THE LAST 3 FT OF FINAL CONNECTIONS TO ROTATING EQUIPMENT WITH LIQUID TIGHT FLEXIBLE CONDUIT.

CONTRACTORS SHALL NOTE THAT THIS CONTRACT IS AN ALTERATION TO AN EXISTING BUILDING AND SHALL THOROUGHLY INVESTIGATE THE EXISTING ELECTRICAL INSTALLATION AND CONDITIONS. DEMOLITION. REMOVE POWER CONNECTIONS AS SHOWN ON DRAWINGS C/W CONDUIT AND WIRING TO SOURCE.

### CONDUCTORS AND CABLES

CONDUCTORS AND CABLES SHALL BE IN ACCORDANCE WITH NEMA WC-70 AND AS SPECIFIED HEREIN.

CONDUCTORS SHALL BE ANNEALED COPPER, STRANDED FOR SIZES NO. 8 AWG AND LARGER, SOLID FOR SIZES NO. 10 AWG AND SMALLER. CONDUCTORS SHALL BE MINIMUM SIZE NO. 12 AWG, EXCEPT WHERE SMALLER SIZES ARE SPECIFICALLY SHOWN ON THE DRAWINGS. MINIMUM SIZE WIRING FOR DC WIRING SHALL BE #10 GAUGE.

ALL WIRING SHALL BE 600 VOLT TYPE RW90 AND RUN IN METALLIC CONDUIT EXCEPT WHERE ALLOWED IN FLEXIBLE LIQUID-TIGHT FLEXIBLE ENCLOSURE (SEE SECTION 15241). MAXIMUM VOLTAGE DROP SHALL NOT EXCEED 2%. PROVIDE GROUND WIRES WITH ALL FEEDERS AND BRANCH CIRCUITS IN ACCORDANCE WITH APPLICABLE CODES AND ONTARIO ELECTRICAL SAFETY CODE REQUIREMENTS. PROVIDE MAIN GROUND TO ESA APPROVAL.

THHN-THWN SHALL BE IN ACCORDANCE WITH NEMA WC-70, UL 44, AND UL 83.

ALL CONDUIT SHALL BE RIGID ALUMINUM (OUTDOORS) OR EMT THINWALL (INDOORS) WITH STEEL SET SCREW COUPLINGS AND CONNECTORS WITH INSULATED THROATS UNLESS OTHERWISE NOTED. RUN CONDUITS PARALLEL TO BUILDING LINES AND CONCENTRIC RIGHT ANGLE BENDS ONLY SHALL BE USED.

SEAL ALL PENETRATIONS THROUGH FLOOR SLABS WITH AN APPROVED NON-SHRINK, WATERPROOF AND FIREPROOF SEALANT.

NEW CONDUIT HANGERS SHALL BE SUPPORTED FROM BUILDING STRUCTURE AND INDEPENDENTLY FROM OTHER EXISTING ELEMENTS SUCH AS DUCTWORK, CONDUITS, PIPING ETC.

### POWER DISTRIBUTION SYSTEM

THE POWER DISTRIBUTION SYSTEM SHALL BE MODIFIED AS SHOWN ON THE PLANS AND AS HEREINAFTER SPECIFIED. BREAKERS RATING SHALL MATCH EXISTING EQUIPMENT TO WHICH THEY ARE INSTALLED.

# SPLICES AND JOINTS

IN ACCORDANCE WITH UL 486A, C, D, E, AND NEC.

CONNECTORS: SOLDERLESS, SCREW ON, REUSABLE PRESSURE CABLE TYPE, RATED 600 V, 220° F [105° C], WITH INTEGRAL INSULATION, APPROVED FOR COPPER CONDUCTORS. THE INTEGRAL INSULATOR SHALL HAVE A SKIRT TO COMPLETELY

COVER THE STRIPPED WIRES. THE NUMBER, SIZE, AND COMBINATION OF CONDUCTORS, AS LISTED ON THE MANUFACTURER'S PACKAGING, SHALL BE STRICTLY FOLLOWED. CONNECTORS SHALL BE INDENT, HEX SCREW, OR BOLT CLAMP TYPE OF HIGH CONDUCTIVITY AND CORROSION RESISTANT MATERIAL, LISTED FOR USE WITH COPPER AND ALUMINUM CONDUCTORS. FIELD-INSTALLED COMPRESSION CONNECTORS FOR

CABLE SIZES 250 MCM AND LARGER SHALL HAVE NOT FEWER THAN TWO CLAMPING ELEMENTS OR COMPRESSION INDENTS PER WIRE. INSULATE SPLICES AND JOINTS WITH MATERIALS APPROVED FOR THE PARTICULAR USE, LOCATION, VOLTAGE, AND TEMPERATURE. SPLICE AND JOINT INSULATION LEVEL SHALL BE NOT LESS THAN THE INSULATION LEVEL OF THE CONDUCTORS BEING JOINED. PLASTIC ELECTRICAL INSULATING TAPE: PER ASTM D2304, FLAME-RETARDANT, COLD AND WEATHER RESISTANT.

# LOW VOLTAGE FUSED AND NON-FUSED DISCONNECT SWITCHES RATED 600 AMPERES AND LESS

IN ACCORDANCE WITH UL 98, NEMA KS1, AND NEC. SHALL HAVE NEMA CLASSIFICATION GENERAL DUTY (GD) FOR 240 V SWITCHES AND NEMA CLASSIFICATION HEAVY DUTY (HD) FOR 600 V SWITCHES. SHALL BE HP RATED.

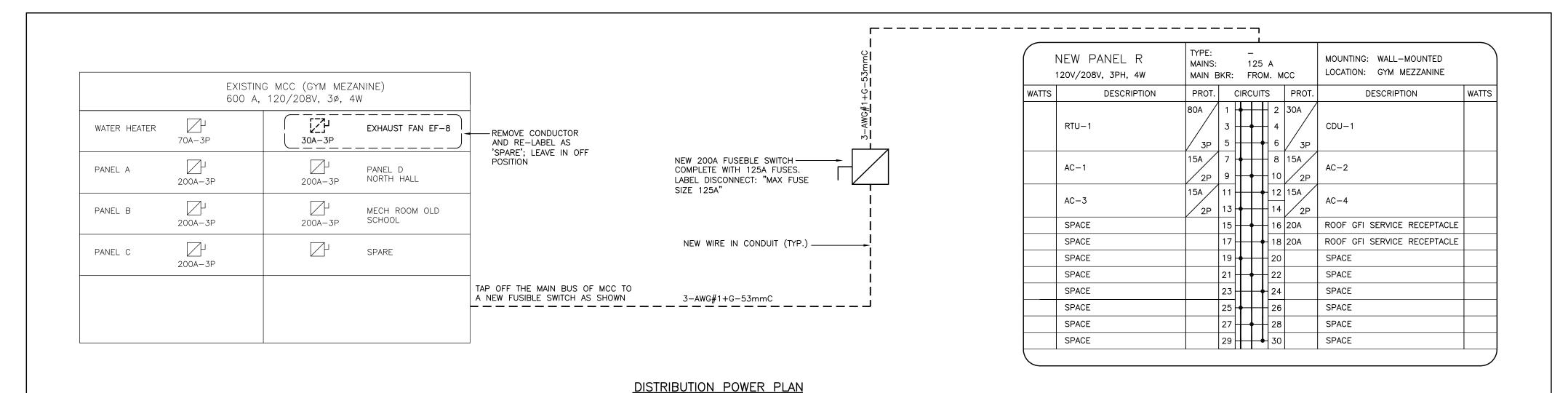
LOCATE IN THE PROXIMITY OF THE EQUIPMENT SERVED, IN ACCORDANCE WITH NEC REQUIREMENTS.

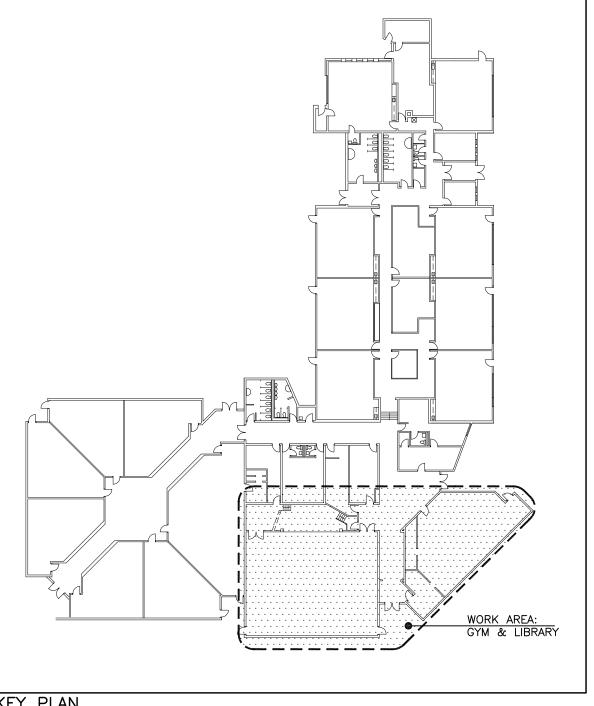
SHALL HAVE THE FOLLOWING FEATURES:

 SWITCH MECHANISM SHALL BE THE QUICK-MAKE, QUICK-BREAK TYPE. COPPER BLADES, VISIBLE IN THE OFF POSITION.

- AN ARC CHUTE FOR EACH POLE.
- EXTERNAL OPERATING HANDLE SHALL INDICATE ON AND OFF POSITION AND HAVE LOCK OPEN PADLOCKING PROVISIONS. MECHANICAL INTERLOCK SHALL PERMIT OPENING OF THE DOOR ONLY WHEN THE SWITCH IS IN THE OFF POSITION, DEFEATABLE TO PERMIT INSPECTION.
- FUSE HOLDERS FOR THE SIZES AND TYPES OF FUSES SPECIFIED (WHERE APPLICABLE).
- WHERE APPLICABLE, FUSIBLE DISCONNECT SWITCHES SHALL BE FURNISHED COMPLETE WITH FUSES. ARRANGE FUSES SUCH THAT RATING INFORMATION IS READABLE WITHOUT REMOVING THE FUSE. SOLID NEUTRAL FOR EACH SWITCH BEING INSTALLED IN A CIRCUIT WHICH INCLUDES A NEUTRAL CONDUCTOR.
- GROUND LUGS FOR EACH GROUND CONDUCTOR.

SHALL BE THE NEMA TYPES SHOWN ON THE DRAWINGS FOR THE SWITCHES. WHERE THE TYPES OF SWITCH ENCLOSURES ARE NOT SHOWN, THEY SHALL BE THE NEMA TYPES MOST SUITABLE FOR THE AMBIENT ENVIRONMENTAL CONDITIONS. UNLESS OTHERWISE INDICATED ON THE PLANS, ALL OUTDOOR SWITCHES SHALL BE NEMA 3R. SHALL BE FINISHED WITH MANUFACTURER'S STANDARD GRAY BAKED ENAMEL PAINT OVER PRE-TREATED STEEL (FOR THE TYPE OF ENCLOSURE REQUIRED).





# KEY PLAN SCALE: N.T.S.

| LEGEND     |   |  |  |  |  |  |  |
|------------|---|--|--|--|--|--|--|
|            | DIRECT POWER OUTLET FOR USE AS NOTED INCLUDING FINAL CONNECTION.                  |  |  |  |  |  |  |
|            | NON-FUSED DISCONNECT SWITCH   |  |  |  |  |  |  |
|            | FUSED DISCONNECT SWITCH   |  |  |  |  |  |  |
| <b>M</b> ¹ | COMBINATON MAGNETIC MOTOR STARTER WITH DISCONNECT SWITCH & OVERCURRENT PROTECTION |  |  |  |  |  |  |
|            | MUSHROOM STYLE PUSH BUTTON  |  |  |  |  |  |  |
|            | ELECTRICAL PANEL, SURFACE OR FLUSH RESPECTIVELY.                                  |  |  |  |  |  |  |
| (\$)       | CEILING SPEAKER   |  |  |  |  |  |  |
| 4. VFD     | VARIABLE FREQUENCY DRIVE  |  |  |  |  |  |  |
| \$         | SINGLE POLE TOGGLE SWITCH   |  |  |  |  |  |  |
| EX         | DENOTES EXISTING TO REMAIN  |  |  |  |  |  |  |
| R          | DENOTES EXISTING TO BE REMOVED ENTIRELY U.N.O.                                    |  |  |  |  |  |  |
| N          | DENOTES NEW EQUIPMENT   |  |  |  |  |  |  |

# GENERAL NOTES

- IT IS MANDATORY FOR THE ELECTRICAL CONTRACTOR TO VISIT SITE AND REVIEW EXISTING CONDITIONS AND DEMOLITION SCOPE OF WORK TO SUIT EXISTING ARCHITECTURAL AND STRUCTURAL CONDITIONS AND MECHANICAL
- CAREFULLY EXAMINE OTHER EXISTING UTILITY LINES SUCH AS GAS, WATER ETC. PRIOR TO START THE ELECTRICAL CONSTRICTION WORKS AND COORDINATE WITH OTHER TRADES AND REPORT OF ANY DISCREPANCY PRIOR TO PROCEEDING.
- REFER TO ELECTRICAL AND MECHANICAL LAYOUTS FOR EXACT LOCATION OF ALL EQUIPMENT.
- LOCATIONS OF ALL NEW DISCONNECT SWITCHES, VFDS AND STARTERS SHALL BE CONFIRMED WITH DIVISION 15 PRIOR TO INSTALLATION.

|           |                              |                       |                      |         | MECHAN          | IICAL EQU                       | JIPMENT WIRING SC | CHEDULE  |
|-----------|------------------------------|-----------------------|----------------------|---------|-----------------|---------------------------------|-------------------|--|
|           |                              |                       | UNIT                 |         |                 |                                 |                   |  |
| EQUIPMENT | POWER<br>SOURCE              | MCA/FLA<br>MOCP<br>HP | PHASE                | VOLTAGE | STARTER<br>TYPE | BREAKER<br>SIZE OR<br>FUSE SIZE | FEEDER SIZE       | REMARKS  |
| RTU-1     | PANEL 'R'<br>(GYM MEZZANINE) | 58 MCA<br>80 MOCP     | 3                    | 208     | INTEGRAL        | 80A-3P                          | 3-AWG#6+G-35mmC   | PROVIDE POWER FROM NEW BREAKER PANEL 'R' THROUGH A NEW 80A-3P BREAKER. PROVIDE ALL NEW WIRING FROM PANEL 'R' TO THE NEW ROOF TOP UNIT. ALL WIRING TO BE IN EMT CONDUIT (INDOORS) AND RMC CONDUIT (OUTDOORS). USE NON-PENETRATING ROOF SUPPORTS FOR THE CONDUIT ON THE ROOF. PROVIDE FLEXIBLE LIQUID TIGHT CONDUIT FOR THE LAST 900 MM. |
| CDU-1     | PANEL 'R'<br>(GYM MEZZANINE) | 25 MCA<br>30 MOCP     | 3                    | 208     | MAGNETIC        | 30A-3P                          | 3-AWG#10+G-21mmC  | PROVIDE POWER FROM NEW BREAKER PANEL 'R' THROUGH A NEW 30A-3P BREAKER. PROVIDE ALL NEW WIRING FROM PANEL 'R' TO THE NEW CONDENSER. ALL WIRING TO BE IN EMT CONDUIT (INDOORS) AND RMC CONDUIT (OUTDOORS). USE NON-PENETRATING ROOF SUPPORTS FOR THE CONDUIT ON THE ROOF. PROVIDE FLEXIBLE LIQUID TIGHT CONDUIT FOR THE LAST 900 MM.     |
| AC-1      | PANEL 'R'                    | 0.51 MCA              |                      | 000     | W.T.C.D.L.      | 15A-2P                          | 2-AWG#12+G-16mmC  |  |
| AC-2      | (GYM MEZZANINE)              | 15 MOCP               |                      | 208     | INTEGRAL        | 15A-2P                          | 2-AWG#12+G-16mmC  | PROVIDE POWER TO EACH EVAPORATOR FROM NEW BREAKER PANEL 'R' THROUGH NEW DEDICATED 15A-2P   |
| AC-3      | PANEL 'R'                    | 0.28 MCA              |                      | 005     | INITEODAL       | 15A-2P                          | 2-AWG#12+G-16mmC  | BREAKERS. PROVIDE ALL NEW WIRING FROM PANEL 'R' TO THE NEW EVAPORATORS. ALL WIRING TO BE IN EMT CONDUIT (INDOORS).   |
| AC-4      | (GYM MEZZANINE)              | 15 MOCP               | I 1 I 208 I INTECDAL |         |                 | 15A-2P                          | 2-AWG#12+G-16mmC  |  |

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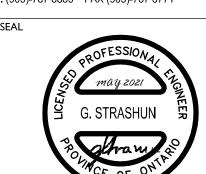
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DATE

. 21/05/2021 ISSUED FOR TENDER



588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6 TEL. (905)-787 8885 FAX (905)-787 8771



NORTH



PARKVIEW PUBLIC SCHOOL **HVAC UPGRADES** 

133 ADELAIDE ST. N, LINDSAY K9V 4M2 LEGEND, NOTES & EQUIPMENT WIRING SCHEDULE -ELECTRICAL

MAY.2021 N.T.S. DRAWN BY T.N.

JOB No.

2021-53

