MECHANICAL LEGEND

- SUPPLY RISER (UP)
- RETURN RISER (UP)
- SUPPLY RISER (DN)
- RETURN RISER (DN)
- EXISTING PIPING TO BE REMOVED
- ST — STORM DRAIN NOT BURIED
- ST — STORM DRAIN BURIED
- V — SANITARY VENT
- SAN — SANITARY DRAIN NOT BURIED
- SAN — SANITARY DRAIN BURIED
- DOMESTIC COLD WATER
- DOMESTIC HOT WATER
- DOMESTIC HOT WATER RECIRC
- BALL VALVE
- GLOBE VALVE
- DOUBLE REGULATING VALVE ARMSTRONG CBV
- CO — CLEANOUT
- CAPPED CONNECTION
- MV — MEDICAL VACUUM
- OX — OXYGEN
- N2O — NITROUS OXIDE
- N — NITROGEN
- CO — CARBON DIOXIDE
- ZCV LEA — ZONE CONTROL VALVE BOX / LOCAL EMERGENCY ALARM PANEL
- G — NATURAL GAS
- BACKFLOW PREVENTER (B.F.P.) (SUPPLIED WITHOUT SHUT-OFF VALVES)
- SD — SCUPPER DRAIN
- RD/AD — ROOF DRAIN / AREA DRAIN
- CD — COMBINATION DRAIN
- FD/FFD — FLOOR DRAIN/FUNNEL FLOOR DRAIN
- WH — NON FREEZE WALL HYDRANT
- SP-XX — SPRINKLER MAIN / ZONE NUMBER
- SPD — SPRINKLER DRAIN
- SMOKE / HEAT DETECTOR
- QUICK RESPONSE CONCEALED DRY SPRINKLER HEAD
- QUICK RESPONSE UPRIGHT SPRINKLER HEAD
- QUICK RESPONSE PENDANT SPRINKLER HEAD
- QUICK RESPONSE CONCEALED SPRINKLER HEAD
- GHS — GLYCOL HEATING WATER SUPPLY
- GHR — GLYCOL HEATING WATER RETURN
- RS — REFRIGERANT WATER SUPPLY
- RL — REFRIGERANT WATER LIQUID
- CHS — CHILLED WATER SUPPLY
- CHR — CHILLED WATER RETURN
- HTS — CONSTANT TEMPERATURE HOT WATER (REHEAT) SUPPLY
- HTR — CONSTANT TEMPERATURE HOT WATER (REHEAT) RETURN
- S-70 — STEAM (PRESSURE AS NOTED)
- GC70 — GRAVITY CONDENSATE (PRESSURE AS NOTED)
- DR — EQUIPMENT DRAIN LINE
- TOP RUNOUT CONNECTION
- BOTTOM RUNOUT CONNECTION
- CROSSED TEE'S
- SHUT OFF VALVE
- BALANCING VALVE
- DOUBLE REGULATING VALVE
- SUPERVISED VALVE (TYPE OF VALVE AS SHOWN)
- BUTTERFLY VALVE
- Y-STRAINER
- BASKET STRAINER
- SH — SPRING HANGER
- ANCHOR

- FLANGED CONNECTION
- UNION
- CAPPED CONNECTION
- BLIND FLANGED CONNECTION
- ECCENTRIC REDUCER
- CONCENTRIC REDUCER
- VTR — VENT THROUGH ROOF
- CHECK VALVE
- ANGLE VALVE
- LOCKSHIELD VALVE
- BALL VALVE
- PLUG VALVE
- 3-WAY VALVE (MANUAL)
- FLEXIBLE CONNECTOR
- EXPANSION JOINT
- EXISTING REHEAT COIL RUNOUT PIPING TO REMAIN.
- NEW COIL RUNOUT PIPING. BALANCE TO FLOW AS INDICATED OR AS SCHEDULED. FOR PIPING CONNECTIONS REFER TO SPEC.
- T — ROUND THERMOMETER
- P — PRESSURE GAUGE
- DP — DIFFERENTIAL PRESSURE GAUGE
- P — GAUGE TAPPING
- T — THERMOMETER WELL
- PILOT OPERATED PRV.
- RELIEF VALVE WITH DRIP PAN ELBOW
- DRIP ASSEMBLY
- T — STEAM TRAP
- RELIEF VALVE
- MOTOR STARTER
- PET COCK FOR PRESSURE GAUGE
- M — FLOW METER (IN LINE)
- PUMP (SCHEMATIC ONLY)
- FAN (SCHEMATIC ONLY)
- HEAT EXCHANGER (SCHEMATIC ONLY)
- ALARM VALVE
- FS — FLOW SWITCH
- T — TEMPERATURE SENSOR
- PS — PRESSURE SWITCH
- P — PRESSURE SENSOR
- DP — DIFFERENTIAL PRESSURE SENSOR
- S — ELECTRIC OPERATED VALVE (SOLENOID VALVE)
- C — CONTROL VALVE
- THROTTLING VALVE
- THERMOSTATIC MIXING VALVE

- EXISTING DUCTWORK TO REMAIN
- EXISTING DUCTWORK TO BE REMOVED (UP TO THIS POINT)
- RECTANGULAR DUCT
- RECTANGULAR DUCT C/W 1" ACOUSTIC LINING
- END OF DUCT
- MITERED ELBOW (C\W TURNING VANES WITH EXTENDED TRAILING EDGE)
- RADIUS ELBOW (C\W TURNING VANES)
- TRANSITION (SQUARE TO SQUARE) CONCENTRIC / ECCENTRIC
- TRANSITION (SQUARE TO ROUND) CONCENTRIC / ECCENTRIC
- OFFSET (RECTANGULAR)
- RECTANGULAR DUCT WYE BRANCH — PARALLEL FLOW BRANCH TYPE
- RECTANGULAR MAIN WYE BRANCH – 30°
- RECTANGULAR DUCT BRANCH – RADIUS TYPE — PARALLEL FLOW BRANCH TYPE
- RECTANGULAR MAIN BRANCH TAP – 45ø ENTRY
- NEW RECTANGULAR MAIN ROUND BRANCH – SPIN ON CONNECTION C\W BALANCING DAMPER AND FLEXIBLE DUCT
- NEW RECTANGULAR MAIN ROUND BRANCH – SPIN ON CONNECTION C\W BALANCING DAMPER AND RIGID ROUND DUCT
- NEW RECTANGULAR MAIN BRANCH TAP – ECCENTRIC SQUARE TO ROUND
- 2 HR FIRE WRAP

LOCATION IN THE CEILING SPACE WHERE THE DIVISION #26 CONTRACTOR IS TERMINATING 1PH/120V/60Hz. ELECTRICAL CIRCUIT FOR DDC (DIRECT DIGITAL CONTROLS). ALL WIRING (INCLUDING INTERPOSING RELAYS,TRANFORMERS, ETC..) IS BY CONTROLS CONTRACTOR.

- F-XX — FAN NUMBER
- P-XX — PUMP NUMBER
- SL-XX — SILENCER NUMBER
- AC-XX — AC UNIT NUMBER
- HE-XX — HEAT EXCHANGER NUMBER
- HR-XX — HEAT RECOVERY DEVICE NUMBER
- F-XX — FAN NUMBER ASSOCIATED WITH DUCT
- RH-XX — REHEAT COIL NUMBER
- FC-XX — FANCOIL UNIT NUMBER
- CD-XX — CONDENSING UNIT NUMBER
- ME-XX — MECHANICAL EQUIPMENT NUMBER
- V-XX — CONTROL VALVE NUMBER

- CONSTANT VOLUME TERMINAL UNIT C/W MATCHING ATTENUATOR & REHEAT COIL, & C/W ACCESS DOORS ON INTAKE & DISCHARGE SIDE OF COIL
- VENTURI VALVE – SINGLE
- SILENCER (NUMBER AS SHOWN)
- NEW MANUAL BALANCING DAMPER (DIMENSIONS TO MATCH DUCT)
- NEW HEAVY DUTY BALANCING DAMPER (EQUAL TO E.H. PRICE MODEL 'PRV') (DIMENSIONS TO MATCH DUCT)
- NEW TYPE 'B' FIRE DAMPER
- NEW MOTORIZED DAMPER
- EXISTING SUPPLY DIFFUSER TO REMAIN
- EXISTING SUPPLY DIFFUSER TO BE REMOVED
- EXISTING EXHAUST/RETURN GRILLE/REGISTER TO REMAIN
- EXISTING EXHAUST/RETURN GRILLE/REGISTER TO REMAIN

NEW SUPPLY DIFFUSER

DIFFUSER NECK SIZE	DIFFUSER NECK SIZE DIAMETER (mm.)
5	125
6	150
7	175
8	200
10	250
12	300
14	350

- PACKAGED CEILING BOX WITH PIPING CONNECTIONS TO DUCT TERMINAL BOX REHEAT COILS. REFER TO DETAIL.
- NEW SUPPLY GRILLE OR REGISTER (FOR SIZE REFER TO SCHEDULE)
- NEW SUPPLY GRILLE OR REGISTER (SIDEWALL) (FOR SIZE REFER TO SCHEDULE)
- OPEN ENDED SUPPLY DUCT C/W BIRDSCREEN (OPEN END TO MATCH DUCTSIZE)
- RETURN OR EXHAUST GRILLE OR REGISTER (FOR SIZE REFER TO SCHEDULE)
- RETURN OR EXHAUST GRILLE OR REGISTER (SIDEWALL) (FOR SIZE REFER TO SCHEDULE)
- CEILING RETURN GRILLE (FOR SIZE REFER TO SCHEDULE)
- AIR TRANSFER DUCT C/W 1mm. ACOUSTIC LINING 20 x 10 C/W 2 @ TYPE 'C2' GRILLES (UNLESS NOTED OTHERWISE)
- EXISTING THERMOSTAT TO REMAIN
- EXISTING THERMOSTAT TO BE REMOVED
- NEW ROOM THERMOSTAT CONTROLLING REHEAT COIL CONTROL VALVE (OR TERMINAL BOX MODULATING DAMPER) OF COIL (OR TERMINAL UNIT) SERVING ROOM.
- NEW HUMIDISTAT
- NEW CONNECTION TO EXISTING MECHANICAL SERVICES
- ACCESS DOOR
- MARINE LIGHT (CEILING OR ROOF MOUNTED)
- MARINE LIGHT (WALL MOUNTED)

GENERAL NOTES:

1) MECHANICAL SERVICES SHOWN SCREENED (LIGHT LINEWEIGHT) ARE EXISTING TO REMAIN.
2) BALANCING DAMPERS ARE REQUIRED AT ALL DUCTWORK BRANCH CONNECTIONS. BALANCING DAMPERS SHOWN INDICATE PREFERRED LOCATIONS ONLY. INDICATE LOCATION OF THESE DAMPERS AND ALL BRANCH DUCT BALANCING DAMPERS NOT SHOWN ON THIS DRAWING, ON 1:50 SCALE DUCTWORK INSTALLATION DRAWINGS. INSTALLATION DRAWINGS TO BE SUBMITTED AND APPROVED BY ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3) MAXIMUM LENGTH OF FLEXIBLE DUCTWORK IS 5'-0". SPIRAL ROUND DUCT SHALL BE USED FOR PRECEDING SECTIONS WHERE MAXIMUM LENGTH IS EXCEEDED.
4) NEW SERVICES TO BE INSTALLED TO PERMIT MAXIMUM CEILING HEIGHTS. PROVIDE ALL OFFSETS TO LIFT SERVICES TO MAXIMUM HEIGHT.
5) MECHANICAL SERVICES CROSSING A FIRE SEPARATION MUST BE FIRE STOPPED. REFER TO SECTION 20 05 01 IN THE MECHANICAL TECHNICAL SPECIFICATIONS.
6) DIVISION 21 00 00 (FIRE PROTECTION AND SPRINKLERS) MUST BE CARRIED AND COORDINATED BY MECHANICAL CONTRACTOR.
7) ALL DUCT AND PIPE PENETRATIONS THROUGH MECHANICAL ROOM FLOORS OR WET AREAS, TO BE CURBED AND SLEEVED. SLEEVES TO EXTEND 75mm ABOVE FINISHED FLOOR. CONCRETE CURBS TO BE 100mm WITH CHAMFERED EDGES.
8) ALL MECHANICAL SERVICES ARE TO BE COORDINATED WITH VENDOR EQUIPMENT AND UNISTRUT FRAMING. NO UNISTRUT FRAMING IS TO PROCEED UNTIL INTERFERENCE/ COORDINATION/ INSTALLATION DRAWINGS HAVE BEEN SUBMITTED TO CONSULTANT.
9) EXISTING MECHANICAL SERVICES SHOWN ON PLANS ARE BASED ON INFORMATION OBTAINED FROM ORIGINAL CONSTRUCTION CONTRACT/TENDER DOCUMENTS AVAILABLE. THESE DRAWINGS ARE NOT BASED ON EXHAUSTIVE FIELD MEASUREMENT AND ARE PROVIDED TO ASSIST THE CONTRACTOR IN DETERMINING THE EXTENT OF WORK REQUIRED. DURING THE TENDER PERIOD, THE CONTRACTOR MUST PERFORM A SITE INSPECTION OF THE PLACE OF WORK AND SURROUNDINGS INCLUDING CEILING SPACE, AS WELL AS, OTHER AREAS WHERE ACCESS WOULD BE CONSIDERED REASONABLE, AND MAKE A THOROUGH INVESTIGATION OF AS-BUILT CONDITIONS TO DETERMINE THE SCOPE OF DEMOLITION/RENOVATION WORK REQUIRED PRIOR TO SUBMITTING THEIR TENDER PRICE.
10) ALL NEW SERVICES SHOWN ARE DIAGRAMMATIC ONLY. PRIOR TO INSTALLATION OF NEW SERVICES, CONFIRM LOCATION OF EXISTING SERVICES WITH LAYOUT AND ADJUST INSTALLATION TO SUIT. CONTRACTOR IS RESPONSIBLE FOR FULL COORDINATION OF ALL EXISTING AND NEW SERVICES. ANY ADDITIONAL OFFSETS DUE TO INTERFERENCES ARE TO BE PROVIDED AT NOT ADDITIONAL COST TO THE OWNER. TAKE INFORMATION INVOLVING ACCURATE MEASUREMENTS FROM DIMENSIONED ARCHITECTURAL DRAWINGS OR FROM SITE MEASUREMENTS.
11) EXISTING ITEMS TO BE REMOVED REMAIN THE PROPERTY OF THE OWNER AND SHALL BE DELIVERED TO A LOCATION ON SITE DESIGNATED BY THE OWNER. IF THE OWNER DECLARES NO INTEREST IN THE REMOVED ITEMS, ASSUME OWNERSHIP AND REMOVE THE ITEMS FROM THE SITE.
12) REPAIR FLOORS, WALLS, AND ROOFS DAMAGED BY REMOVING OR REMOVED MECHANICAL SERVICES TO MATCH EXISTING ADJACENT SURFACE AND FINISH. PROVIDE FIRE STOPPING AND SMOKE SEAL AS REQUIRED.

PLUMBING LEGEND

SYMBOL	DESCRIPTION	NOTES / REFERENCE
PLUMBING / MED. GAS / FIRE STAND PIPE RISER DESCRIPTION		
100 SAN, 75 V, 100 ST, N/8	PIPING SIZE [IN] / DESCRIPTION IN LEFT TO RIGHT OR TOP TO BOTTOM ORDER BUILDING GRIDLINES	
PLUMBING FIXTURES		
WC1, S1, U1, CSS1, MS1, L1, SH1, EW1	TOILET No. 1 URINAL No. 1 MOP SINK No. 1 SHOWER No. 1 EYEWASH SINK No. 1 CLINIC SERVICE SINK No. 1 LAVATORY No. 1	FOR PLUMBING FIXTURES DESCRIPTION REF. TO SPEC. SECTIONS 22 42 13 & 22 05 23 AND "PLUMBING FIXTURES SERVICE REQUIREMENTS" DETAIL LABELS & SYMBOLS ARE SAMPLES ONLY.
PLUMBING FIXTURES CONNECTED ON FLOOR ABOVE		
FD, U, WC, L, CD, HB	FLOOR DRAIN / URINAL WATER CLOSET / LAVATORY COMBINATION DRAIN / HUB DRAIN	

MECHANICAL DRAWING LIST

DRAWING NO.	DRAWING TITLE	DISCIPLINE
M0	MECHANICAL LEGEND & DRAWING LIST	MECHANICAL
M1	MECHANICAL SCHEDULES & CONTROLS	MECHANICAL
M2	MECHANICAL DETAILS	MECHANICAL
M3	LEVEL 02 FLOOR PLAN PLUMBING NEW WORK	PLUMBING
M4	LEVEL 03 FLOOR PLAN PLUMBING DEMOLITION	PLUMBING
M5	LEVEL 03 FLOOR PLAN PLUMBING NEW WORK	PLUMBING
M6	LEVEL 03 FLOOR PLAN HVAC PIPING DEMOLITION	HVAC
M7	LEVEL 03 FLOOR PLAN HVAC PIPING NEW WORK	HVAC
M8	LEVEL 03 FLOOR PLAN HVAC DUCTWORK DEMOLITION	VENTILATION
M9	LEVEL 03 FLOOR PLAN HVAC DUCTWORK NEW WORK	VENTILATION

Waypoint Centre for Mental Health Care — Advancing Understanding. Improving Lives.

TOANCHE
LEVEL 03 RENOVATIONS - STAGE 4

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ISSUED FOR TENDER
18 DEC 2023
Ministry of Health Project Number# 205004

LICENSED PROFESSIONAL ENGINEER — 2211105 — PROVINCE OF ONTARIO — 2023/12/18

Rev.	Description	Date
04	Issued for Tender	2023-12-18
03	Issued for Construction	2023-11-17
02	Issued for Stage 4 Submission	2022-11-23
01	Issued for 95% CD- QA/QC	2022-11-01

KEY PLAN

Drawing Title:
MECHANICAL LEGEND & DRAWING LIST

Project No.: 020708.50 Checked by: ES

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