

KEY PLAN

KEY NOTES

- 1 > EXISTING 300X300 E/A DUCT UP THRU ROOF, TO U615-EF EXHAUST FAN; EXHAUST SYSTEM TO REMAIN IN SERVICE WITH NO MODIFICATION TO EQUIPMENT
- \langle 2 \rangle EXISTING 350X350 E/A DUCT UP THRU ROOF, TO U655-EF EXHAUST FAN; EXHAUST SYSTEM TO REMAIN IN SERVICE WITH NO MODIFICATION TO EQUIPMENT
- \langle 3 angle PROVIDE WALL OPENING TO SUIT ACCESS FOR U605—AHU AND U610—MUA TO NEW LOCATIONS; OPENING FRAMED AND REINFORCED TO SUIT PROVIDE WALL CLOSURE, 2HR RATING; PART OF SCOPE, RELOCATION OF ONE SURFACE MOUNTED DUPLEX RECEPTACLE AND CONDUIT; FOR WALL OPENING DETAILS, SEE STRUCTURAL DRAWINGS US2.1 AND US2.3 FOR DETAILS
- 4 > PROPOSED ACCESS FOR U605 & U610 ACCESS, THRU GARAGE/SHOP SPACE
- \langle 5 \rangle EXISTING GARAGE VENTILATION DUCTWORK RISER, TO REMAIN IN SERVICE, DUCT UP THRU ROOF TO NEW EXHAUST FAN, U675-EF
- \langle 6 \rangle EXISTING CHEMICAL STORAGE EXHAUST RISER UP THRU ROOF TO NEW EXHAUST FAN, U670-EF ON THE ROOF.
- \langle 7 \rangle NEW CHEMICAL STORAGE VENTILATION AIR SUPPLY FAN, U620-SF, AT LOCATION SHOWN; FAN WILL BE PART OF CHEMICAL STORAGE VENTILATION SYSTEM.
- (8) NEW AIR HANDLING UNIT, U640-AHU, FOR UTILITY BUILDING OFFICES AND BASEMENT VENTILATION, AT LOCATION SHOWN. BASE UNIT DIMENSIONS, 2625L x
- 1800W x 1100H, 1600kg; PROVIDE CONCRETE HOUSEKEEPING PAD, 100mm HIGH; 4 9 CONNECT UNIT TO EXISTING 70 kPa (10lbs) 500 N. GAS LINE AT WEST SIDE OF SHOP, IN CEILING SPACE, C/W TAKE-OFF AT TOP OF EXISTING LINE, WITH
- ISOLATION VALVE; SEE DWG. UM6.5 \langle 10 \rangle NEW GARAGE/SHOP AND CHEMICAL STORAGE VENTILATION MAKE UP AIR UNIT, U610-MUA. INSTALLED IN EXISTING MEZZANINE STORAGE ROOM: UNIT ACCESS THRU NEW FRAMED WALL OPENING TO SHOP AREA. OPENING TO BE BLOCKED
- UPON UNIT U605 AND U610 INSTALLATION; UNIT DIMENSIONS 3150L x 1200W x 900H, 900kg; SEE STRUCTURAL DRAWINGS US2.1 AND US2.3 FOR DETAILS. (11) CONNECT UNIT TO EXISTING 70 kPa (10lbs) 500 N. GAS LINE AT WEST SIDE OF SHOP, IN CEILING SPACE, C/W TAKE-OFF AT TOP OF EXISTING LINE, WITH

ISOLATION VALVE; SEE DWG. UM6.5 FOR DETAILS.

- \langle 12 \rangle NEW BLOWER ROOM VENTILATION AIR HANDLING UNIT, U605-AHU, AT SAME LOCATION AS REMOVED UNIT, ON EXISTING HOUSEKEEPING PAD; UNIT ACCESS THRU NEW WALL OPENINGS; UNIT DIMENSIONS, FOR BASE UNIT, 3575L x 2500W : 1500H, SPLIT IN THREE SECTIONS, MAX. ONE SIDE DIMENSION 2000mm, 2700kg WEIGHT. SEE STRUCTURAL DRAWINGS US2.1 AND US2.3 FOR DETAILS; UNIT ASSEMBLED ON SITE, INSIDE STORAGE ROOM
- \langle 13 angle CONNECT UNIT TO EXISTING 70 kPa (10lbs) N. GAS LINE; RE—PIPE AS REQUIRED.
- (14) PROVIDE WALL OPENING TO SUIT ACCESS FOR U605-AHU TO EXISTING LOCATION; OPENING FRAMED AND REINFORCED TO SUIT, LOCATION TO BE FINALIZED; OPENING NOT FILLED IN; SEE STRUCTURAL DRAWINGS US2.1 AND US2.3 FOR DETAILS; PART OF SCOPE, INCLUDES RELOCATING SURFACE MOUNTED DUPLEX RECEPTACLES AND CONDUITS, ON BOTH SIDES OF WALL; SEE ELECTRICAL DRAWING E502.
- (15) EXISTING 1 TON MONORAIL; CONTRACTOR SHALL PROVIDE TRAVEL STOPS AT EDGE ✓ OF CHEMICAL STORAGE MEZZANINE.
- (16) CONTROL WIRING FROM NEW AIR HANDLING UNIT, U640-AHU AT MAIN LEVEL, TO NEW THERMOSTAT IN ROOM U224.
- (17) CONTROL WIRING TO NEW THERMOSTAT FROM U605-AHU; THERMOSTAT LOCATED IN ─/ BLOWER ROOM, U231
- (18) EXISTING U605-AHU RELIEF AIR WALL LOUVRE, OPENING TO BE FILLED IN; SEE
- STRUCTURAL DWG. US2.2 AND US2.3 FOR DETAILS.
- (19) NEW BLOWER ROOM VENTILATION EXHAUST FAN, U625-EF, LOCATION HIGH IN CEILING SPACE, TO BE FINALIZED ON SITE, FOR MINIMUM DISTURBANCE TO EXISTING MECHANICAL AND ELECTRICAL SYSTEMS; SUPPORT FAN WALL SLEEVE FROM ROOF JOISTS; PROVIDE NEW 900x900 WALL LOUVRED OPENING; SEE STR. DWG. DETAIL C. US2.4
- ig|ig<20ig> NEW WELDING FUMES EXTRACTION HOOD C/W ARM AND EXHAUST FAN, INSTALL AS ig|PER MANUFACTURER'S RECOMMENDATIONS: INSTALL NEW U635-EF FUME EXTRACTION FAN ON NEW FABRICATED SS SUPPORT BRACKET, ANCHORED TO WALL PROVIDE NEW AIRTIGHT SEALED DISCHARGE DUCT THRU EXISTING ROOF CURB OPENING; SUPPORT DUCT BELOW ROOF LINE WITH NEW KNEE BRACE VERTICAL DUCT SUPPORT.

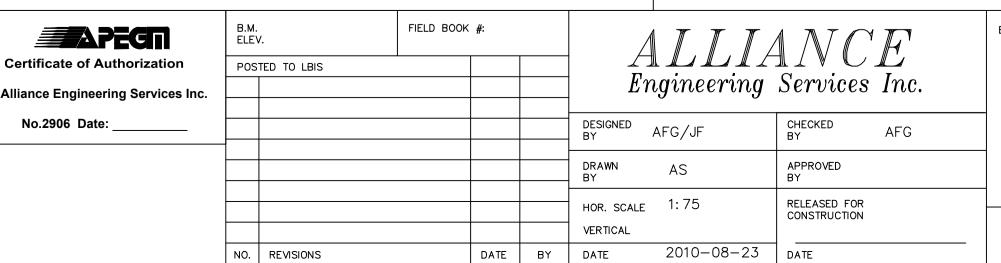
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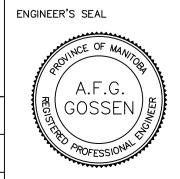
WATER AND WASTE DEPARTMENT

PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS AND PROVINCIAL MECHANICAL ENGINEERING & INSPECTIONS BRANCH REQUIREMENTS.

COORDINATE WORKS WITH OTHER SUB-TRADES. REFER TO SPECIFIC DETAILS FOR CUTTING AND SEALING PENETRATIONS

- THROUGH OPENINGS & FIRE SEPARATIONS. REFER TO TECHNICAL SPECIFICATIONS FOR EQUIPMENT AND MATERIAL SPECIFICATIONS AND INSTALLATION CONSTRUCTION
- AND PHASING REQUIREMENTS. INSULATE DUCTWORK WHERE INDICATED AND SPECIFIED.
- SUPPORT ALL DUCTWORK TO MEET CODE REQUIREMENTS & ESTABLISHED INDUSTRY TRADE PRACTICES, (SMACNA, ASHRAE).
- INVESTIGATE SITE PRIOR TO CONSTRUCTION TO CONFIRM ALL DIMENSIONS AND INSTALLATION REQ'S.
- PERFORM ALL CUTTING & PATCHING NECESSARY FOR ANY REQUIRED OPENINGS. PROVIDE TAB TO ENSURE AIR DISTRIBUTION TO VOLUMES INDICATED.
- 9. NOT ALL EQUIPMENT/PIPING, ETC. IS SHOWN.





CONSULTANT DRAWING NO.

UM6.2





2010 HVAC REPLACEMENT AND ASSOCIATED WORKS

WEWPCC AREA U - UTILITY BUILDING

SHEET 1 OF 1 CITY DRAWING NUMBER

1-0103V-M0042-001 MAIN LEVEL & MEZZANINE - NEW EQUIPMENT