



KEY PLAN

NOTE
 ALL MAKE-UP AIR UNITS OUTSIDE AIR AND SUPPLY AIR DUCTWORK AND FITTINGS ARE BASED ON ENGINEERED AIR UNITS (BASE UNIT); CONTRACTOR SHALL MAKE ALL NECESSARY ADJUSTMENTS, IF APPROVED EQUAL IS SELECTED.

- KEY NOTES**
- 1 EXISTING CHIMNEY TO BE MAINTAINED, TYP. x3 (H695, H750 & H755)
 - 2 REMOVED AIR HANDLING UNIT H700-AHU RETURN DUCT FLOOR OPENING TO BE FILLED; REMOVE FIRE DAMPER AND CONCRETE FILL CONCRETE HOUSEKEEPING PAD OPENING; SEE DETAIL 1 DWG LS2.1
 - 3 NEW H600-MUA INTAKE DUCT SLEEVE, INSULATED; REWORK INTAKE PLENUM WALL OPENING TO SUIT.
 - 4 NEW H600-MUA INTAKE DUCT SLEEVE, INSULATED; REWORK INTAKE PLENUM WALL OPENING TO SUIT.
 - 5 NEW H700-MUA INTAKE DUCT SLEEVE, INSULATED; REWORK INTAKE PLENUM WALL OPENING TO SUIT (1250x1150±)
 - 6 NEW H725-MUA INTAKE DUCT SLEEVE, INSULATED; REWORK INTAKE PLENUM WALL OPENING TO SUIT (1250x1150±)
 - 7 EXISTING O/A INTAKE PLENUMS TO BE MAINTAINED; BLOCK EXTERIOR OPENING, SEE DWG HS2.2, TYP. PROVIDE NEW WALL OPENING ON INSIDE WALL TO ACCEPT NEA INTAKE AIR DUCT, DUCT INSULATED; SEE STRUCTURAL DWG. HS2.2, DETAIL 1
 - 8 NEW DUCT TRANSITION ON H600-MUA DISCHARGE, TRANSITION TO MATCH EXISTING A/S DUCT DIMENSION+NEW H600-MUA OUTLET DIMENSIONS; SIZE TO SUIT UNIT SELECTED
 - 9 NEW DUCT TRANSITION ON H650-MUA DISCHARGE, TRANSITION TO MATCH EXISTING A/S DUCT DIMENSION+NEW H650-MUA OUTLET DIMENSIONS; SIZE TO SUIT UNIT SELECTED
 - 10 EXISTING SS SUPPLY AIR DUCTWORK, TO REMAIN IN SERVICE
 - 11 NEW DUCT FROM AIR INTAKE PENTHOUSE TO EXISTING INLET PLENUM RISER 3100x4600, HORIZ. DUCT 4600x450, INSULATED; RISER BASE SEALED CONSTRUCTION, SLOPED TO CL OF RISER
 - 12 NEW DUCT FROM AIR INTAKE PENTHOUSE TO EXISTING INLET PLENUM RISER 3100x4600, HORIZ. DUCT 4600x450, INSULATED; RISER BASE SEALED CONSTRUCTION, SLOPED TO CL OF RISER
 - 13 NEW 300Ø VENTILATION AIR INTAKE DUCT, AT REMOVED U650-MUA CHIMNEY LOCATION, INSULATED BELOW ROOF LINE WITH INVERTED TRAP; TERMINATE DUCT WITH GOOSENECK 1000mm ABOVE ROOF LINE, C/W EXPANDED METAL MESH BIRDSCREEN; RE-USE EXISTING ROOF CURB, PROVIDE DUCT FLASHING
 - 14 NEW 300Ø COMBUSTION AIR INTAKE DUCT, AT REMOVED U600-MUA CHIMNEY LOCATION, INSULATED BELOW ROOF LINE WITH INVERTED TRAP; TERMINATE DUCT WITH GOOSENECK 1000mm ABOVE ROOF LINE, C/W EXPANDED METAL MESH BIRDSCREEN; RE-USE EXISTING ROOF CURB, PROVIDE DUCT FLASHING
 - 15 EXISTING LOW BASE LIGHT FIXTURE TO BE RELOCATED BELOW INTAKE PLENUM DUCT; FOR LOCATION, SEE ELECTRICAL DWG. E601.
 - 16 RELOCATED 50Ø (SS SCH 40) PROCESS WATER; RELOCATE LINE IN CEILING SPACE TO CLEAR NEW O/A RISER DROP FROM ROOF LOUVERED PENTHOUSE, RUN LINE BETWEEN JOISTS.
 - 17 OPEN AND FRAME NEW OPENING HIGH IN EXISTING ROOM END PLENUM WALL, FOR NEW 4500x450 O/A INTAKE PLENUM DUCT.
 - 18 NEW 40Ø PVC SCH. 40 NEW DUCT PLENUM DRAIN, C/W C/O'S; FIELD RUN TO EXISTING FUNNEL DRAIN; SLOPE 2% MIN.
 - 19 NEW 40Ø PVC SCH. 40 NEW DUCT PLENUM DRAIN, C/W C/O'S; FIELD RUN TO EXISTING FUNNEL DRAIN; SLOPE 2% MIN.
 - 20 4600x3100 RISER AND 4600x3100 TO 4100x450 FLANGED BOTH ENDS MITER TRANSITION ELBOW, FROM ROOF CURB OPENING THRU NEW JOIST FRAME, TO HORIZONTAL DUCT, 4600x450; ALL O/A DUCT INSULATED; RISER CROSS SECTION DIMENSIONS TO SUIT 1/1 ROOF CURB DIMENSIONS; RISER FLANGED BELOW ROOF LINE AND AT BOTTOM, FOR INSTALLATION AND MAINTENANCE PURPOSE DUCT WATER TIGHT.
 - 21 EXISTING FIRE DAMPERS AT FLOOR PENETRATIONS TO REMAIN IN SERVICE, TYP.
 - 22 RELOCATE N. GAS SUPPLY LINE TO UNITS, ON SIDE AND U/S O/A PLENUM INTAKE DUCT (U/S PLENUM FOR UNITS H700 & H725) AND RUN TO BURNER SECTION, C/W REGULATOR, ISOLATION VALVE, CLEANOUT & SWING JOINT, TYP. x 4; RUN PIPING TIGHT UNDER DUCT, TO MINIMIZE HEADROOM
 - 23 O/A INTAKE PLENUM DUCT ACCESS DOOR, 600x600
 - 24 O/A INTAKE PLENUM HORIZONTAL DUCT ACCESS DOOR, 300x600W, TYP. BOTH SIDES OF DUCT, LOCATION TO SUIT
 - 25 NOTE TOP OF EXISTING O/A PLENUM ACCESS DOOR FRAME, APPROX. 2300± FROM TOP OF FLOOR; DOOR UNDER NEW HORIZ. DUCT PLENUM; LOWER EXISTING DOOR TO SUIT DUCT FRAMED OPENING, TYP. BOTH PLENUMS
 - 26 NEW LOUVERED PENTHOUSE LOCATION, STRADDLES ROOF JOISTS, AS SHOWN ON STRUCTURAL DRAWING; SEE STRUCTURAL DWG. HS2.1 FOR DETAILS.

- GENERAL NOTES**
1. PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS AND PROVINCIAL MECHANICAL ENGINEERING & INSPECTIONS BRANCH REQUIREMENTS.
 2. COORDINATE WORKS WITH OTHER SUB-TRADES. REFER TO SPECIFIC DETAILS FOR CUTTING AND SEALING PENETRATIONS THROUGH OPENINGS & FIRE SEPARATIONS.
 3. REFER TO TECHNICAL SPECIFICATIONS FOR EQUIPMENT AND MATERIAL SPECIFICATIONS AND INSTALLATION CONSTRUCTION AND PHASING REQUIREMENTS.
 4. INSULATE DUCTWORK WHERE INDICATED AND SPECIFIED.
 5. SUPPORT ALL DUCTWORK TO MEET CODE REQUIREMENTS & ESTABLISHED INDUSTRY TRADE PRACTICES, (SMACNA, ASHRAE).
 6. INVESTIGATE SITE PRIOR TO CONSTRUCTION TO CONFIRM ALL DIMENSIONS AND INSTALLATION REQ'S.
 7. PERFORM ALL CUTTING & PATCHING NECESSARY FOR ANY REQUIRED OPENINGS.
 8. PROVIDE TAB TO ENSURE AIR DISTRIBUTION TO VOLUMES INDICATED.
 9. NOT ALL EQUIPMENT/PIPING, ETC. IS SHOWN.

A AREA H - MECHANICAL ROOM - DUCTWORK MODIFICATIONS PLAN AT EL. 248.500
 SCALE 1:50

APEN
 Certificate of Authorization
 Alliance Engineering Services Inc.
 No.2906 Date: _____

S.M. ELEV.	FIELD BOOK #:
POSTED TO LBIS	
DESIGNED BY JC/AS	CHECKED BY AFG
DRAWN BY AS	APPROVED BY
HOR. SCALE 1:50	RELEASED FOR CONSTRUCTION
VERTICAL	
00 ISSUED FOR TENDER 2010-12-21 AFG	
NO. REVISIONS	DATE BY
	2010-06-23

ALLIANCE
 Engineering Services Inc.

DESIGNED BY JC/AS
 CHECKED BY AFG
 DRAWN BY AS
 APPROVED BY
 HOR. SCALE 1:50
 VERTICAL
 00 ISSUED FOR TENDER 2010-12-21 AFG
 NO. REVISIONS DATE BY
 2010-06-23

ENGINEER'S SEAL

 CONSULTANT DRAWING NO. HM2.2

THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT

2010 HVAC REPLACEMENT AND ASSOCIATED WORKS
 WEWPCC
 AREA H - HEADWORKS
 MECHANICAL ROOM VENTILATION - DUCTWORK MODIFICATIONS

SHEET 1 OF 1
 CITY DRAWING NUMBER
 1-0103G-M0018-001