

DRAWING NOTES:

- 1 UNDERCUT DOOR 200mm (3/4"). COORDINATE WITH CONTRACT ADMINISTRATOR'S DRAWINGS.
- DUCTWORK TO RUN AT HIGH LEVEL BETWEEN JOIST. COORDINATE WITH ALL TRADES.
- KITCHEN MAKE UP AIR UNIT MAU-1 CONTROL PANEL.
 - COORDINATE WITH ALL OTHER TRADES.
- KITCHEN HOOD EXHAUST FAN <u>EF-1</u> TO BE INTERLOCKED WITH MAU−1. COORDINATE WITH ELECTRICAL SUBCONTRACTOR.
- THE CITY SUPPLIED EXHAUST HOOD $\underline{\mathsf{H}}-1$ COMPLETE WITH ANSVIL FIRE SUPPRESSION SYSTEM. CONTRACTOR TO INSTALL AND COORDINATE INTERLOCKING WITH ELECTRICAL SUBCONTRACTOR.
- CONNECT WELDED EXHAUST DUCT (COMPLIANT WITH N.F.P.A. 96) FROM COLLAR OF HOOD TO EXHAUST FAN <u>EF-1</u> ON ROOF. PROVIDE ACCESS PANEL ON EACH ELBOW. INSTALLATION SHALL BE AS PER N.F.P.A. 96 REQUIREMENTS.
- ALL VISIBLE DUCTWORK SHALL BE WELDED STAINLESS STEEL SUPPLY DUCTWORK UP THROUGH ROOF COMPLETE WITH TRANSITION TO UNIT. PROVIDE BURGULAR BARS WHERE APPLICABLE. REFER TO BUGULAR BAR DEATIL FOR
- DUST COLLECT HOOD FOR THE CITY SUPPLIED EQUIPMENT. COORDINATE WITH THE CITY AND CONTRACT ADMINISTRATOR FOR FINAL LOCATION OF EQUIPMENT PRIOR TO INSTALLATION. COORDINATE ROUTING OF DUCTWORK WITH ALL TRADES.

INFORMATION IN REGARDS TO THIS MATTER.

- LOCATION OF CITY SUPPLIED DUST COLLECTION UNIT (NIC). DUST COLLECTOR NOT TO EXCEED 708 L/S (1,500 CFM). COORDINATE WITH THE CITY AND THE CONTRACT ADMINISTRATOR FOR FINAL EQUIPMENT LOCATION PRIOR TO INSTALLATION. COORDINATE WITH ALL TRADES.
- C.O. & NOx SENSOR TO CONTROL EXHAUST FAN EF-2 & MOTORIZED DAMPER.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL PROP FANS. RUN THE WIRING FROM THE PROP FANS BETWEEN THE BACK TO BACK CHANNEL JOIST. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND FURTHER COORDINATION. COORDINATE WITH ALL TRADES PRIOR TO THE INSTALLATION OF EQUIPMENT.
- DUCTWORK TO RUN THROUGH WEBBING OF JOIST AT HIGH LEVEL. COORDINATE ROUTING OF DUCTWORK WITH ALL
- PROVIDE HEAVY DUTY PROTECTIVE WIRE CAGE AROUND PROP
- DUCTWORK TO DROP DOWN AND RUN IN LOWER CEILING SPACE. CONTRACTOR TO VERIFY ROUTING ON SITE PRIOR TO INSTALLATION. COORDINATE WITH ALL TRADES.
- DUCTWORK TO RUN WITHIN JOIST. COORDINATE WITH ALL TRADES.
- GAS FIRED UNIT HEATER, WITH SEPARATE FLUE GAS AND COMBUSTION AIR CONNECTIONS, INSTALLED AT HIGH LEVEL BETWEEN THE ROOF JOISTS. PROVIDE COMPLETE WITH THRU THE ROOF CONCENTRIC FLUE GAS/COMBUSTION AIR ADAPTER. SIZE AND INSTALL FLUE GAS AND COMBUSTION AIR PIPING ACCORDING TO THE REQUIREMENTS OF THE MANUFACTURER AND THE AUTHORITIES HAVING JURISDICTION.
- INSTALL DUCTWORK TIGHT TO THE UNDERSIDE OF THE JOISTS AND ABOVE THE TRACKS FOR THE OVERHEAD DOOR. COORDINATE EXACT DUCT DEPTH TO SUIT SITE CONDITIONS.
- PROVIDE TWO SUPPLY AIR GRILLES. LOCATE ONE 150mm (6") BELOW THE CEILING/ROOF DECK LEVEL AND THE OTHER AT 150mm (6") ABOVE THE FLOOR LEVEL.
- GAS FIRED DOMESTIC HOT WATER HEATER, WITH SEPARATE FLUE GAS AND COMBUSTION AIR CONNECTIONS, INSTALLED ON 200mm (4") CONCRETE HOUSEKEEPING PAD. PROVIDE COMPLETE WITH THRU THE ROOF CONCENTRIC FLUE GAS/COMBUSTION AIR ADAPTER. SIZE AND INSTALL FLUE GAS AND COMBUSTION AIR PIPING ACCORDING TO THE REQUIREMENTS OF THE MANUFACTURER AND THE AUTHORITIES HAVING JURISDICTION.
- GAS FIRED HYDRONIC HEATING SYSTEM BOILER, WITH SEPARATE FLUE GAS AND COMBUSTION AIR CONNECTIONS, INSTALLED ON 200mm (4") CONCRETE HOUSEKEEPING PAD. PROVIDE COMPLETE WITH SEPARATE THRU THE ROOF FLUE GAS/COMBUSTION AIR PIPING. SIZE AND INSTALL FLUE GAS AND COMBUSTION IR PIPING ACCORDING TO THE REQUIREMENTS OF THE MANUFACTURER AND THE AUTHORITIES HAVING JURISDICTION.
- PROVIDE TWO EXHAUST AIR GRILLES. LOCATE ONE 150mm (6") BELOW THE CEILING/ROOF DECK LEVEL AND THE OTHER AT 150mm (6") ABOVE THE FLOOR LEVEL.
- 22 LOCATE IN THE UNDERSIDE OF THE BULKHEAD.
- 23 INSTALL LOUVER AT HIGH LEVEL BETWEEN THE JOISTS.
- DUST COLLECTOR DUCTWORK SHALL BE RUN THROUGH JOIST SPACE AT HIGH LEVEL. DUST COLLECTOR DUCTWORK SHALL BE ROUND SPIRAL DUCT DESIGNED TO SMACNA STANDARDS AND CAPABLE OF AT LEAST 2500 KPA (10" H20) NEGATIVE STATIC PRESSURE. DUCTS SHALL BE DESIGNED TO MAINTAIN A MINIMUM CONVEYANCE VELOCITY OF 17.8 M/S (3500 FPM). (TYPICAL)
- 25 BLAST GATE (TYPICAL).
- DUCT TO DROP DOWN TO SERVE FLOOR SWEEP. REFER DETAILS ON M-3.4. COORDINATE WITH THE CITY AND THE CONTRACT ADMINISTRATOR FOR FINAL EQUIPMENT LOCATION PRIOR TO INSTALLATION. COORDINATE WITH ALL TRADES.
- DUCT TO DROP DOWN TO SERVE PLANER. REFER DETAILS ON M-3.4. COORDINATE WITH THE CITY AND THE CONTRACT ADMINISTRATOR FOR FINAL EQUIPMENT LOCATION PRIOR TO INSTALLATION. COORDINATE WITH ALL TRADES.
- DUCT TO DROP DOWN TO SERVE BELT SANDER. REFER DETAILS ON M-3.4. COORDINATE WITH THE CITY AND THE CONTRACT ADMINISTRATOR FOR FINAL EQUIPMENT LOCATION PRIOR TO INSTALLATION. COORDINATE WITH ALL TRADES.
- DUCT TO DROP DOWN TO SERVE BAND SAW. REFER DETAILS ON M-3.4. COORDINATE WITH THE CITY AND THE CONTRACT ADMINISTRATOR FOR FINAL EQUIPMENT LOCATION PRIOR TO INSTALLATION. COORDINATE WITH ALL TRADES.
- DUCT TO DROP DOWN TO SERVE TABLE SAW. REFER DETAILS ON M-3.4. COORDINATE WITH THE CITY AND THE CONTRACT ADMINISTRATOR FOR FINAL EQUIPMENT LOCATION PRIOR TO INSTALLATION. COORDINATE WITH ALL TRADES.
- DUCT TO DROP DOWN TO SERVE SLIDING MITER SAW. REFER DETAILS ON M-3.4. COORDINATE WITH THE CITY AND THE CONTRACT ADMINISTRATOR FOR FINAL EQUIPMENT LOCATION PRIOR TO INSTALLATION. COORDINATE WITH ALL TRADES.

THIS DRAWING MUST NOT BE SCALED.

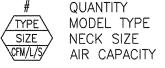
THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DATUMS, AND LEVELS PRIOR TO COMMENCEMENT OF WORK. ALL ERRORS AND OMISSIONS TO BE REPORTED TO THE CONTRACT ADMINSTRATOR BEFORE PROCEEDING.

VARIATIONS AND MODIFICATIONS TO WORK SHOWN ON THESE DRAWINGS SHALL NOT BE CARRIED OUT WITHOUT WRITTEN PERMISSION OF THE CONTRACT ADMINISTRATOR. THIS DRAWING IS THE EXCLUSIVE PROPERTY OF NUMBER TEN ARCHITECTURAL GROUP AND THE COPYRIGHT IN THE SAME BEING RESERVED TO THEM. IT MAY BE REPRODUCED ONLY WITH THE PERMISSION OF THE CITY OF WINNIPEG.

GENERAL NOTES:

ALL INLET DUCTWORK ON FANCOIL UNITS SHALL BE INLET SIZED AND ACOUSTICALLY LINED. ALL SUPPLY AIR DUCTWORK OFF FANCOIL UNIT WILL BE

- ACOUSTICALLY LINED. 2. ALL FAN COIL UNITS TO BE SUSPENDED FROM
- STRUCTURE AND BETWEEN O.W.S.J..
- 3. ALL DUCTWORK TO RUN AS HIGH AS POSSIBLE. COORDINATE ROUTING WITH PIPING AND ALL TRADES.
- 4. COORDINATE EXACT LOCATION OF GRILLES AND DIFFUSERS ON SITE WITH ELECTRICAL SUBCONTRACTOR, CONTRACTOR, ARCHITECTURAL REFLECTED CEILING PLAN, LIGHTING LAYOUT, ETC. TO ENSURE THAT THERE ARE NO CONFLICTS DURING INSTALLATION.
- PROVIDE BALANCE DAMPERS AS SHOWN AND AS REQUIRED TO ALLOW PROPER BALNCING OF SYSTEM. PROVIDE OPPOSED BLADE DAMPERS WITH THE DIFFUSER AND ADJUSTABLE FROM THE DIFFUSE WHEN A DUCT MOUNTED BALANCE DAMPER WOULD NOT BE ACCESSIBLE.
- 6. SINGLE HATCHED DUCTWORK DENOTES DUCTWORK THAT IS TO BE ACOUSTICALLY LINED.
- 7. ALL DUCT DIMENSIONS DENOTE INTERNAL "FREE" AREA
- 8. ALL DUCTWORK PENETRATING THE BUILDING THERMAL ENVELOPE SHELL SHALL BE INSULATED FOR A MINIMUM DISTANCE OF 3.0m (10'-0") BACK FROM THE BUILDING PENETRATION WITH 25mm (1") THICK KNAUF FIBERGLAS DUCT WRAP INSULATION COMPLETE
- WITH FOIL-SKRIM-KRAFT (FSK) COVERING. 9. REFER TO ARCHITECTURAL DRAWING, FIRE DAMPERS SHALL BE PROVIDED IN <u>ALL</u> WALLS DENOTED AS FIRE SEPERATIONS WHETHER SHOWN ON MECHANICL PLANS
- 10. COORDINATE THE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT, DUCT OPENINGS AND DUCT LOCATIONS WITH STRUCTURAL.
- 11. PROVIDE SINGLE THICK NEW TURNING VANES WITH A TRAILING EDGE (AS DETAILED IN THE LATEST SMACNA
- DUCT DESIGN MANUAL) IN ALL "SQUARE ELBOWS". 12. <u>DIFFUSER & REGISTER TAG:</u>



- 13. ALL DUCTWORK SERVING FAN COIL UNITS, EXCEPT FC-11, TO BE INSTALLED BETWEEN ROOF JOISTS AND TO BE RUN THRU THE OPEN WEB STEEL JOISTS. COORDINATE EXACT ROUTING ON SITE. DUCTWORK SERVING FC-11 TO BE INSTALLED IN BULKHEADS.
- 14. A VENTILATION AIR RATES SUPPLIED TO FAN COIL

011110	O1 (11) (1	,	
A)	FC-1	135 L/S	(286 CFM)
B)	FC-2	135 L/S	(286 CFM)
C)	FC-3	91 L/S	(192 CFM)
D)	FC-4	58 L/S	(122 CFM)
E)	FC-5	39 L/S	(82 CFM)
F)	FC-6	34 L/S	(73 CFM)
G)	FC-7	26 L/S	(55 CFM)
H)	FC-8	95 L/S	(201 CFM)
1)	FC-9	221 L/S	(468 CFM)
J)	FC-10	222 L/S	(470 CFM)

K) FC-11 202 L/S (429 CFM) TOWER PROJECT NO.: 6150 TOWER ENGINEERING GROUP 08 - 897 CORYDON AVE. WINNIPEG. MB R3M OW7

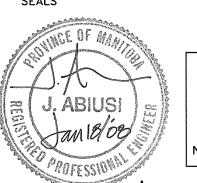
architectural group

architecture = interior design = graphic design

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REVISED/ ISSUED/ PLOTTED DESIGN DEVELOPMENT SUBMISSION ISSUED FOR 40% REVIEW ISSUED FOR 80% REVIEW ISSUED FOR 100% REVIEW

REVISION/DESCRIPTION



No. 1918 Expiry: April 30, 2008 LJR CHECKED BY LJR APPROVED

EAPEGN

Certificate of Authorization

Tower Engineering Group

2007.11.13 USER APPROVAL

CITY OF WINNIPEG PLANNING, PROPERTY AND Winniped DEVELOPMENT DEPARTMENT CIVIC ACCOMMODATIONS DIVISION

300 - 65 GARRY ST. R3C 4K4 BRONX PARK COMMUNITY CENTRE HOME OF

GOOD NEIGHBOURS SENIOR CENTRE WINNIPEG, MB.

MAIN FLOOR PLAN **VENTILATION LAYOUT**

PP&D 2006-065

DRAWING SHEET SIZE: ARCH E1 (42" x 30") PLOT 1:1