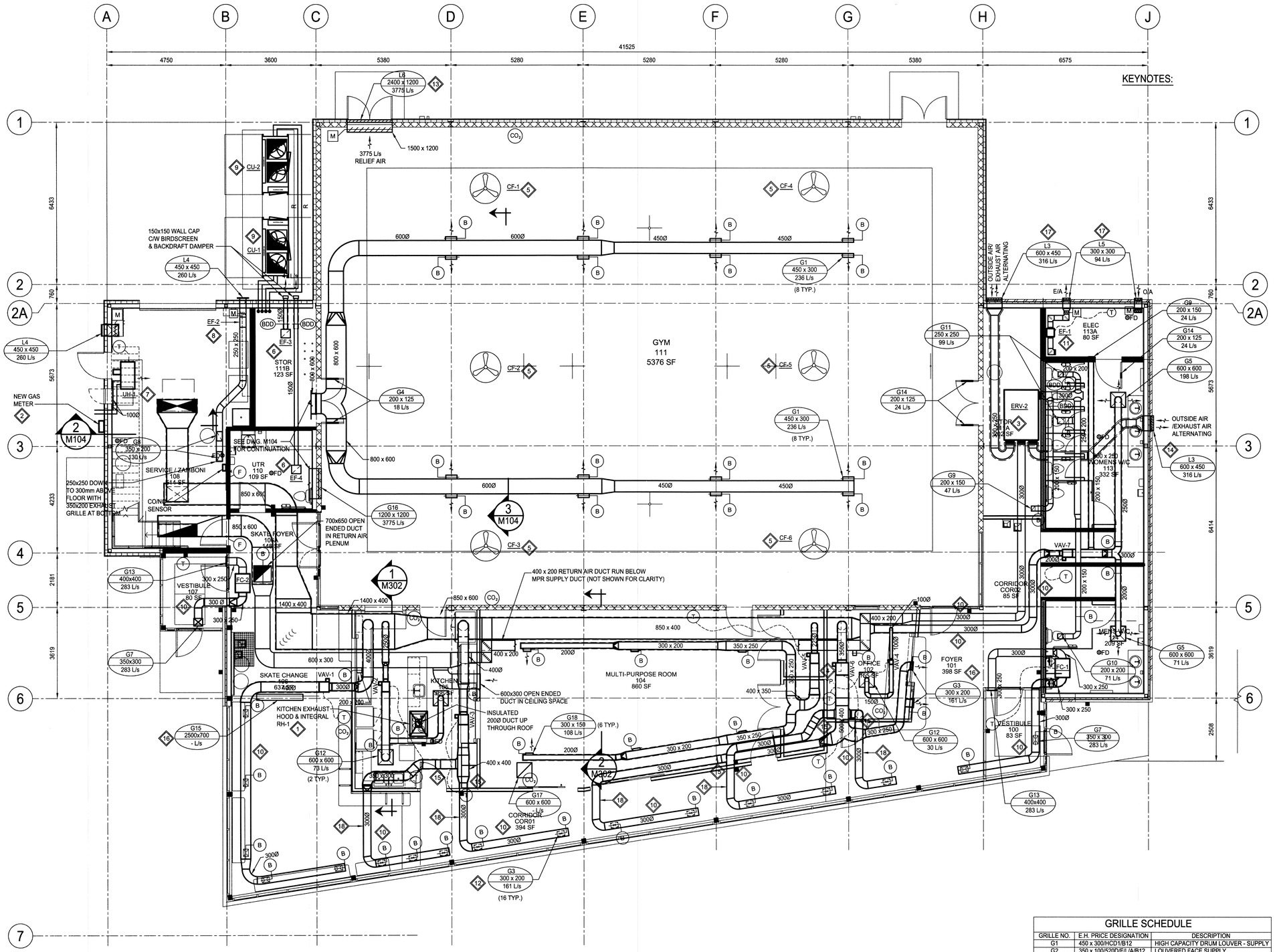

KEYNOTES:

1. PERFORM WORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
2. REVIEW EQUIPMENT LOCATIONS WITH CONTRACT ADMINISTRATOR PRIOR TO INSTALLATION.
3. EQUIPMENT LOCATIONS, DUCT, AND PIPE ROUTING INDICATED ON THE DRAWINGS IS APPROXIMATE ONLY. CONFIRM IN THE FIELD. REROUTE DUCTWORK AND PIPING AS REQUIRED TO ELIMINATE FIELD INTERFERENCES. WITH BUILDING STRUCTURES, ELECTRICAL, ETC. CONFIRM CHANGES WITH CONTRACT ADMINISTRATOR. COORDINATE WORK WITH ALL SUBTRADES. WHERE DIMENSIONS ARE INDICATED FOR PIPING, DUCTWORK, DUCT SIZES, EQUIPMENT SIZES, ETC. THESE ARE FOR BIDDING PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO ORDERING EQUIPMENT AND COMMENCING INSTALLATION WITHOUT EXTRA CHARGES TO THE PROJECT. THE CONTRACTOR IS RESPONSIBLE TO ENSURE ALL EQUIPMENT, DUCTWORK, AND PIPING FITS IN THE SPACE AVAILABLE AND TO MAINTAIN THE GENERAL DESIGN INTENT FOR THE SYSTEMS.
4. CONFORM TO SMACNA STANDARDS FOR SUPPLY AND INSTALLATION OF DUCTWORK. SEAL ALL DUCT JOINTS.
5. SEAL ALL FLOOR, ROOF AND WALL PENETRATIONS WATER AND AIR TIGHT.

KEYNOTES:

1. INSTALL NEW KITCHEN EXHAUST HOOD WITH INTEGRAL EXHAUST FAN. CENTER HOOD OVER KITCHEN APPLIANCE. ROUTE DISCHARGE DUCT UP THROUGH ROOF. SEAL PENETRATION AIR AND WATER TIGHT.
2. CONTRACTOR TO COORDINATE INSTALLATION OF GAS METER WITH HYDRO. COORDINATE EXACT LOCATION WITH CONTRACT ADMINISTRATOR.
3. INSTALL NEW HRV AND HANG FROM STRUCTURE BELOW ROOF JOIST. PROVIDE ALL DUCT CONNECTIONS USING FLEXIBLE CONNECTORS. INSULATE DUCTWORK WHERE SHOWN. HANG UNIT ON VIBRATION ISOLATORS.
4. INSTALL NEW VAV BOX AND ASSOCIATED ATTENUATOR. INSTALL IN ACCORDANCE WITH DETAIL 3 ON DRAWING M303. HANG EQUIPMENT FROM STRUCTURE.
5. INSTALL NEW CEILING FANS AND HANG FROM STRUCTURE. FAN BLADES SHALL BE BETWEEN ROOF JOISTS. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS. INSTALL FAN CAGE IN JOIST SPACE. FIELD MODIFY AS REQUIRED TO FIT BETWEEN JOISTS.
6. INSTALL NEW CEILING EXHAUST FANS AND HANG FROM VIBRATION ISOLATORS. RUN DUCTWORK IN CEILING SPACE AND TERMINATE OUTDOORS WITH A WALL CAP. INSULATE DUCTWORK BACK TO BACKDRAFT DAMPER.
7. SUPPLY AND VIBRATION ISOLATORS. PROVIDE ALL GAS PIPING CONNECTIONS. RUN CONDENSATE DRAIN TO NEAREST FUNNEL FLOOR DRAIN. DIRECT VENT UNIT THROUGH SIDEWALL. REFER TO MANUFACTURER'S INSTRUCTIONS.
8. INSTALL NEW EXHAUST FAN AND HANG FROM STRUCTURE ON VIBRATION ISOLATORS. CONNECT TO DUCTWORK USING FLEXIBLE CONNECTORS. FAN CONTROLLED BY CO AND NO SENSORS.
9. INSTALL NEW CONDENSERS ON GRADE. ENSURE EQUIPMENT CLEARANCES ARE MAINTAINED. CONTRACTOR TO SIZE, DESIGN AND INSTALL REFRIGERANT PIPING TO/FROM THE AIR HANDLERS. INSULATE REFRIGERANT PIPING.
10. ALL EXPOSED ROUND SPIRAL DUCT SHALL BE PRIMED FOR PAINTING. (TYP.)
11. INSTALL NEW SUPPLY FAN AT HIGH LEVEL. HANG FROM STRUCTURE ON VIBRATION ISOLATORS. CONNECT TO DUCTWORK USING FLEXIBLE CONNECTORS. BALANCE FAN USING SPEED CONTROLLER.
12. CONTRACTOR TO ADJUST BLADES ON LOUVERED GRILLE TO BLOW AIR OVER WINDOWS.
13. PROVIDE AN 1800x1100 OPENING ON BACKSIDE OF LOUVER. BLANK OFF AND INSULATE REMAINING AREA OF LOUVER. COORDINATE EXACT LOUVER SIZE & LOCATION WITH STRUCTURAL & ARCHITECTURAL DRAWINGS. INSTALL GALVANIZED STEEL JACKET TO BE PAINTED BY ARCHITECTURAL.
14. COORDINATE EXACT LOUVER LOCATION WITH ARCHITECTURAL.
15. VERTICALLY OFFSET DUCT TO BE AT UNDERSIDE OF PURLINS BEFORE IT PENETRATES INTO THE CORRIDOR.
16. BRUSHED ALUMINUM FOR SIDE WALL GRILLES.
17. REFER TO ARCHITECTURAL FOR ACTUAL ELEVATIONS OF LOUVERS.
18. REFER TO ARCHITECTURAL FOR EXACT LOCATION OF DUCT HEADER.

LEGEND:

- NEW EQUIPMENT/DUCTWORK
- (B) BALANCE DAMPER
- (T) THERMOSTAT
- SUPPLY AIR
- EXHAUST AIR
- G- / -x- / - L/s — GRILLE NUMBER / NECK SIZE / AIR FLOW
- EF- EXHAUST FAN
- CU- CONDENSING UNIT
- FC- FAN COIL
- S/A SUPPLY AIR
- O/A OUTSIDE AIR
- E/A EXHAUST AIR
- AIRFLOW DIRECTION
- (M) MOTORIZED DAMPER
- (BDD) BACKDRAFT DAMPER
- (CO_2) CARBON DIOXIDE SENSOR
- (F) FIRE DAMPER C/W ACCESS DOOR
- CONTROL WIRE
- INSULATED DUCT
- ACOUSTIC LINING

GRILLE SCHEDULE

GRILLE NO.	E.H. PRICE DESIGNATION	DESCRIPTION
G1	450 x 300/HCD1/B12	HIGH CAPACITY DRUM LOUVER - SUPPLY
G2	350 x 100/520D/F/L/A/B12	LOUVERED FACE SUPPLY
G3	350 x 200/520D/F/L/A/B12	LOUVERED FACE SUPPLY
G4	450 x 200/520D/F/L/A/B12	LOUVERED FACE SUPPLY
G5	200/600 x 600/SCD/3C/B12	SQUARE CONE DIFFUSER
G6	1200 x 600/90/L/A/B12	HEAVY DUTY GYM GRILLE
G7	350 x 300/520D/F/L/A/B12	LOUVERED FACE SUPPLY
G8	350 x 200/535D/F/L/A/B15	LOUVERED RETURN
G9	200 x 150/535/F/L/A/B12	LOUVERED RETURN
G10	200 x 200/535/F/L/A/B12	LOUVERED RETURN
G11	250 x 250/535/F/L/A/B12	LOUVERED RETURN
G12	150Ø/600 x 600/SCD/3C/B12	4-WAY SUPPLY DIFFUSER
G13	400 x 400/535/F/L/A/B12	LOUVERED RETURN
G14	200 x 125/STG1/BF/B15	TRANSFER GRILLE
G15	2500 x 700/535D/F/L/A/B12	LOUVERED RETURN
G16	1200 x 1200/95D/L/A/B12	GYM GRILLE
G17	600 x 600/80/F/A/B12	EGGCRATE RETURN
G18	300 x 150/520D/F/L/A/B12	LOUVERED FACE SUPPLY

LOUVRE SCHEDULE

LOUVRE No.	SIZE (WxH)	MAKE/MODEL	COMMENTS
L1	7200 x 1200	E.H.PRICE MODEL RSE5	LOUVRE ON WEST WALL OF MEZZANINE
L2	900 x 600	E.H.PRICE MODEL RSE5	ERV-1a,1b INTAKE/EXHAUST LOUVRE
L3	600 x 450	E.H.PRICE MODEL RSE5	ERV-2 INTAKE/EXHAUST LOUVRE
L4	450 x 450	E.H.PRICE MODEL RSE5	ZAMBONI INTAKE/EXHAUST LOUVRE
L5	300 x 300	E.H.PRICE MODEL RSE5	ELECTRICAL ROOM LOUVRE
L6	2400 x 1200	E.H.PRICE MODEL RSE5	AHU-1 RELIEF LOUVRE

VAV SCHEDULE

TAG	DESIGN AIR FLOW		VAV CAPACITY		MODEL
	MIN. (L/s)	MAX. (L/s)	MIN. (L/s)	MAX. (L/s)	
VAV-1	378	755	0	991	SDV-8000-12
VAV-2	94	189	0	307	SDV-8000-7
VAV-3	378	755	0	991	SDV-8000-12
VAV-4	3	30	0	45	SDV-8000-4
VAV-5	189	378	0	496	SDV-8000-9
VAV-6	519	1038	0	1416	SDV-8000-14
VAV-7	142	283	0	378	SDV-8000-8

1 MAIN FLOOR PLAN - HVAC

SCALE: 1:75mm (24"x36")
N.T.S. (11"x17")

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KGS GROUP CONSULTING ENGINEERS

Winnipeg
THE CITY OF WINNIPEG PLANNING, PROPERTY AND DEVELOPMENT DEPARTMENT
MUNICIPAL ACCOMMODATIONS DIVISION
4TH FLOOR - 185 KING STREET
R3B 1J1

Project:
EAST ELMWOOD COMMUNITY CENTRE
490 KEENLEYSIDE, WINNIPEG, MB

Project Number: 2013-041
Bid Opportunity Number 748-2013

Drawing Title:
MAIN FLOOR PLAN HVAC

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No. 245

PROVINCE OF MANITOBA P.S. SILVA Member 21131 REGISTERED PROFESSIONAL ENGINEER

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