

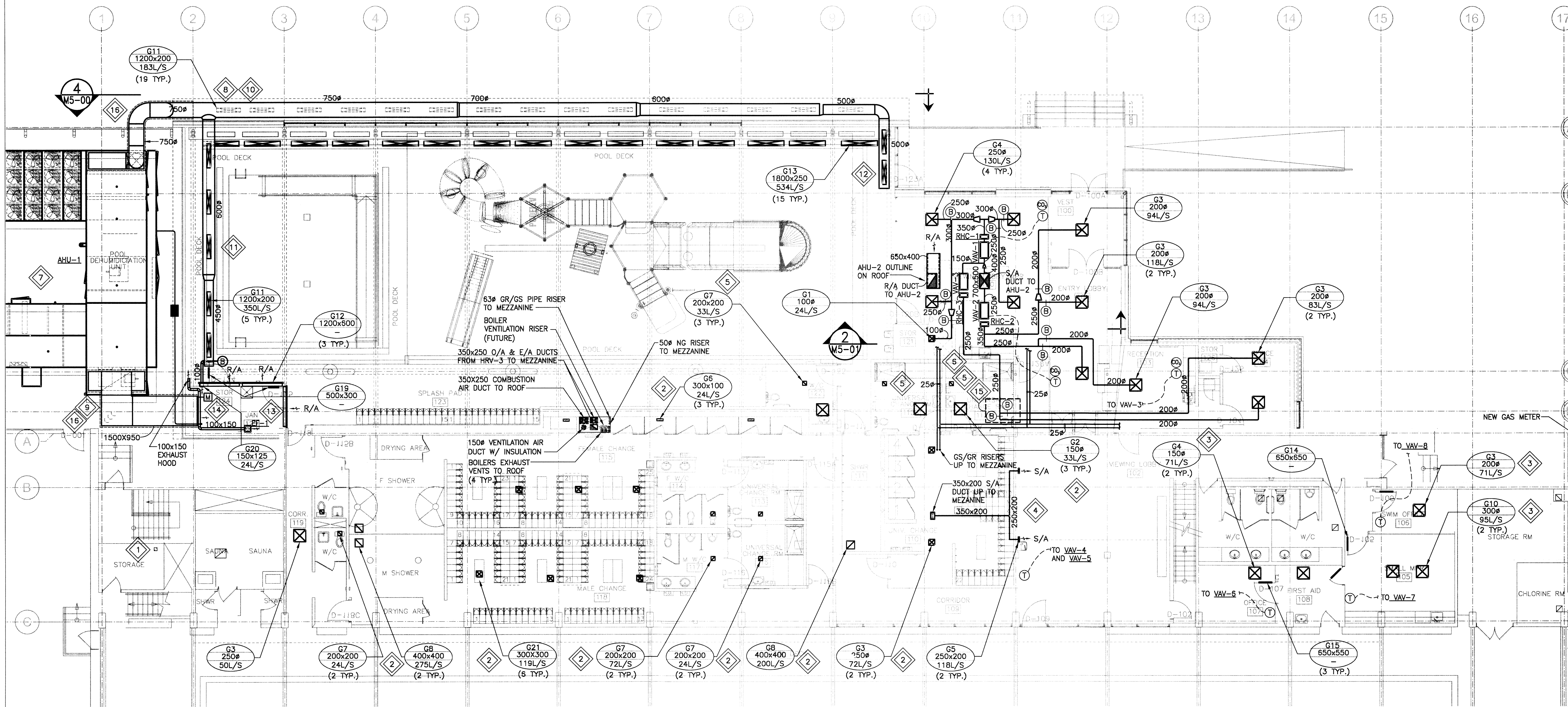
GRILLE No.	E.H. PRICE	DESIGNATION	COMMENTS
G1	100#/300x300/ASCD/31/3C/B12	4-WAY SUPPLY DIFFUSER	
G2	150#/600x600/ASCD/31/3C/B12	4-WAY SUPPLY DIFFUSER	
G3	200#/600x600/ASCD/31/3C/B12	4-WAY SUPPLY DIFFUSER	
G4	250#/600x600/ASCD/31/3C/B12	4-WAY SUPPLY DIFFUSER	
G5	250x200/620/F/L/A/B12	LOUVERED SUPPLY GRILLE	
G6	300x100/610Z/F/L/A/B12	LOUVERED RETURN	
G7	200x200/610Z/F/L/A/B12	LOUVERED RETURN	
G8	400x400/610Z/F/L/A/B12	LOUVERED RETURN	
G9	700x550/610DAL/F/L/A/B12	LOUVERED RETURN	
G10	300#/600x600/ASCD/31/3C/B12	SQUARE CONE DIFFUSER	
G11	1200x200/620DAL/SDF/L/A/B12	LOUVERED SUPPLY GRILLE C/W DAMPER	
G12	NSE-1/1200x600	ALUMINUM LOUVERED RETURN	
G13	1800x250/LBPH15B/1000/VCS3/B12	LINEAR BAR SUPPLY GRILLE C/W DAMPER	
G14	650/550/ATGH/C/B15	DOOR TRANSFER GRILLE	
G15	650/550/ATG1/C/B15	DOOR TRANSFER GRILLE	
G16	350x200/610DAL/F/L/A/B15	LOUVERED SUPPLY	
G17	900x200/610ZDAL/F/L/A/B15	LOUVERED RETURN	
G18	350x300/520D/F/L/A/B12	LOUVERED SUPPLY	
G19	500x300/ATGH/B/B12	DOOR TRANSFER GRILLE PAINT TO MATCH DOOR COLOUR	
G20	150x125/610DAL/F/L/A/B15	LOUVERED SUPPLY	
G21	300x300/620/F/L/A/B12	LOUVERED SUPPLY	
G22	350x300/530D/F/L/A/B12	LOUVERED RETURN	

TAG	EQUIPMENT SERVED	CAPACITY (kW)	EWT (°C)	LWT (°C)	FLOWRATE (L/S)	ΔP (kPa)	EAT (°C)	LAT (°C)	FLOWRATE (L/S)	ΔP (Pa)	WORKING FLUID
PHC-1	HRV-1	49	48.9	37.6	1.167	6.5	-40.0	0.7	991.0	32.4	50% PROPYLENE GLYCOL
PHC-2	HRV-2	5	48.9	37.4	0.120	10.8	-40.0	1.2	103.8	29.9	50% PROPYLENE GLYCOL
PHC-3	HRV-3	18	48.9	36.2	0.385	12.5	-35.5	-0.6	424.7	27.4	50% PROPYLENE GLYCOL
RHC-1	VAV-1	5	48.9	37.7	0.114	23.0	21.1	30.1	434.1	44.8	50% PROPYLENE GLYCOL
RHC-2	VAV-2	4	48.9	37.6	0.082	11.9	21.1	29.5	339.8	34.9	50% PROPYLENE GLYCOL
RHC-3	VAV-3	2	48.9	37.7	0.044	3.0	21.1	30.5	165.2	37.4	50% PROPYLENE GLYCOL
RHC-4	VAV-4	2	48.9	37.7	0.057	4.8	21.1	30.5	207.5	37.4	50% PROPYLENE GLYCOL
RHC-5	VAV-5	2	48.9	37.7	0.057	4.8	21.1	30.5	207.6	37.4	50% PROPYLENE GLYCOL
PHC-6	VAV-6	1	48.9	37.6	0.019	0.6	21.1	29.5	75.5	24.9	50% PROPYLENE GLYCOL
RHC-7	VAV-7	2	48.9	37.7	0.050	3.6	21.1	29.5	207.6	47.3	50% PROPYLENE GLYCOL
RHC-8	VAV-8	1	48.9	37.7	0.013	0.6	21.1	29.4	56.6	24.9	50% PROPYLENE GLYCOL
RHC-9	VAV-9	1	48.9	37.7	0.013	0.6	21.1	29.4	56.6	24.9	50% PROPYLENE GLYCOL
RHC-10	HRV-1	22	48.9	37.8	0.536	3.0	8.3	26.6	991.0	52.3	50% PROPYLENE GLYCOL
RHC-11	HRV-2	2	48.9	37.6	0.044	2.4	12.7	26.8	103.8	19.9	50% PROPYLENE GLYCOL
RHC-12	HRV-3	9	48.9	37.8	0.215	3.6	9.4	26.7	424.7	24.9	50% PROPYLENE GLYCOL

KEYNOTES:

- 1 RETAIN EXISTING GRILLE IN STORAGE ROOM.
- 2 PROVIDE NEW GRILLES IN WASHROOM, CHANGE ROOMS AND SHOWERS. CREATE NEW/MODIFY EXISTING CEILING PENETRATIONS WHERE REQUIRED.
- 3 PROVIDE NEW GRILLES IN OFFICE, FIRST AID, MPR AND SWIM OFFICE. CREATE NEW CEILING PENETRATIONS FOR DUCTWORK TO SUIT.
- 4 RUN DUCTWORK FROM MEZZANINE THROUGH NEW FLOOR PENETRATION INTO CEILING SPACE ABOVE CHANGE ROOM TO NEW SIDEWALL GRILLES SERVING VIEWING LOBBY.
- 5 PROVIDE NEW EXHAUST AND SUPPLY GRILLES IN NEW SPECIALTY CHANGE ROOMS AND WASHROOM.
- 6 PROVIDE DUCTWORK, VAV BOXES, REHEAT COILS AND GRILLES FROM NEW ROOF TOP AIR HANDLING UNIT AHU-2.
- 7 PROVIDE NEW DEHUMIDIFICATION UNIT AHU-1 OUTDOORS MOUNTED ON NEW CONCRETE PAD. RUN NEW SUPPLY DUCTS INTO POOL AREA AND CRAWLSPACE. REFER TO DRAWINGS M3-00 AND M5-00 FOR FURTHER DETAILS. ALL DRAINS WITHIN AHU-1 TO BE FACTORY PIPED TO OVERTOP THE CRAWLSPACE. CONTRACTOR TO ROUTE ALL DRAINS TO NEAREST DRAIN PIPING IN CRAWLSPACE.
- 8 PROVIDE NEW DUCTWORK AND GRILLES IN POOL AREA AS SHOWN. ALL EXPOSED DUCTWORK SHALL BE INSTALLED WITH A PVC JACKET. REFER TO DRAWINGS M3-00 AND M5-00 FOR FURTHER DETAILS.
- 9 PROVIDE INSULATED RETURN DUCT CONNECTED TO CEILING PLENUM ABOVE STORAGE AND JANITOR ROOM. PROVIDE WALL LOUVRES IN WALL ABOVE ROOM 124 AND 125.
- 10 LOCATE HIGH LEVEL POOL SUPPLY DUCT WITHIN WEB OF STRUCTURAL MEMBERS.
- 11 LOCATE SUPPLY DUCT AT HIGH LEVEL BELOW WINDOW WITH GRILLES DIRECTED TOWARDS WINDOW.
- 12 PROVIDE ONE GRILLE DIRECTED UP AND ONE GRILLE DIRECTED DOWN TO PROVIDE AIR ACROSS ENTIRE WINDOW AREA.
- 13 HANG EXHAUST FAN FROM UNDERSIDE OF DRYWALL CEILING ON SPRING ISOLATORS. PROVIDE FLEX CONNECTION TO DUCTWORK.
- 14 RUN DUCTWORK TIGHT TO WALL. INSULATE EXHAUST DUCTWORK FROM OUTSIDE WALL UP TO MOTORIZED DAMPER.
- 15 ONE ACCESS DOOR SHALL BE PROVIDED TO SERVICE BOTH BALANCE DAMPERS.
- 16 EXTERIOR DUCTWORK TO BE CLADDED PER DETAIL 3 ON DRAWING M5-02.

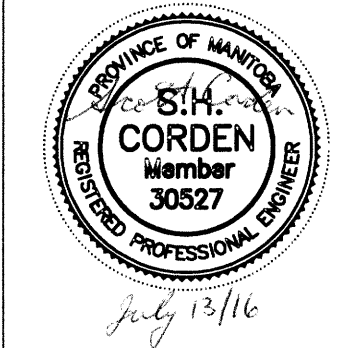
NOTE: ALL INDOOR SUPPLY AIR DUCT IS THERMALLY INSULATED. REFER TO SPECIFICATIONS.



Issue / rev.

0 20160713 ISSUED FOR CONSTRUCTION  
# date issue notes

professional seals



project information

SEVEN OAKS POOL

444 Adsum Drive  
Winnipeg, MB  
Canada

client

drawing information

MECHANICAL MAIN FLOOR PLAN  
NEW HVAC

drawn by: RLR

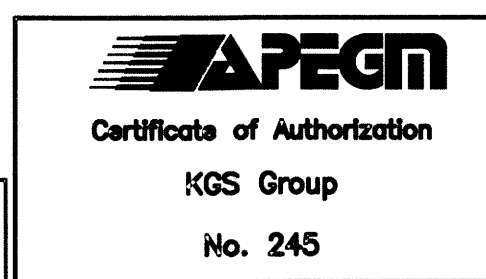
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SEVEN OAKS POOL RENOVATION & ADDITION  
BID OPPORTUNITY NO. 645-2016

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