MECHANICAL EQUIPMENT WIRING SCHEDULE

EQUIPMENT & LABEL	STARTER LOCATION	UNIT POWER	UNIT PHASE	UNIT VOLTAGE	STARTER TYPE	BREAKER SIZE	FEEDER SIZE	PANEL AND CCT. NOS.	REMARKS
HEAT RECOVERY UNIT HRU-1	ON UNIT	MCA 74.2	3	208	INTEGRAL	100A,3P	3#3+GRD.-41mmC	DP-AA	PROVIDE WEATHERPROOF 100A/80AF-3P FUSIBLE DISCONNECT SWITCH AT THE UNIT C/W LABEL SAYING MAX FUSES TO BE 80A
HEAT PUMP HP(W)-1	MECH.RM. -143	MCA 43.0	3	208	INTEGRAL	60A,3P	3#6+GRD.-35mmC	DP-AA	
EXH. FAN HEF-1	MECH.RM. -143	AMP. 2.0	1	120	INTEGRAL	15A,1P	2#12+GRD.-16mmC	1A-103	
EXH. FAN EF-1	SPKL.RM. -132	WATTS 79	1	120	MAGNETIC	15A,1P	2#12+GRD.-16mmC	1B-68	
EXH. FAN EF-2	ELECT.RM. -133	WATTS 47	1	120	MANUAL	15A,1P	2#12+GRD.-16mmC	1A-105	
EXH. FAN EF-3	MECH.RM. -200	WATTS 79	1	120	MAGNETIC	15A,1P	2#12+GRD.-16mmC	2A-16	
EXH. FAN EF-4	JAN.RM. -127	WATTS 50	1	120	MAGNETIC	15A,1P	2#12+GRD.-16mmC	1A-107	
EXH. FAN EF-5	GEAR RM. -131	KW 2.0	1	208	MAGNETIC	50A,2P	2#8+GRD.-27mmC	1A-110/112	PROVIDE WEATHERPROOF 60A/45AF-3P FUSIBLE DISCONNECT SWITCH TO CONTROL POWER TO THE UNIT C/W LABEL SAYING MAX FUSES TO BE 45A
EXH. FAN EF-6	HOSE TOWER -134	WATTS 187	1	120	MAGNETIC	15A,1P	2#12+GRD.-16mmC	1A-109	
EXH. FAN EF-7	BUNKER GEAR -130	WATTS 47	1	120	MAGNETIC	15A,1P	2#12+GRD.-16mmC	1B-74	
EXH. FAN EF-8	BUNKER GEAR -131	WATTS 108	1	120	MAGNETIC	15A,1P	2#12+GRD.-16mmC	1B-76	
EXH. FAN EF-9	GARBAGE.RM. -136	WATTS 52	1	120	MAGNETIC	15A,1P	2#12+GRD.-16mmC	1B-78	
EXH. FAN EF-10	APPARATUS -129	HP 4.0	3	208	VFD	30A,3P	3#10+GRD.-27mmC	DP-AA	PROVIDE WEATHERPROOF 30A-3P FUSIBLE DISCONNECT SWITCH (C/W FUSES TO SUIT) TO CONTROL POWER TO THE UNIT.
EXH. FAN EF-11	LAUNDRY -120	WATTS 47	1	120	MAGNETIC	15A,1P	2#12+GRD.-16mmC	1A-111	
CEILING FAN CF-1	APPARATUS -129	WATTS 157	1	120	MANUAL	15A,1P	2#12+GRD.-16mmC	1A-30	SPEED CONTROLLER SUPPLIED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR
CEILING FAN CF-2	APPARATUS -129	WATTS 157	1	120	MANUAL	15A,1P	2#12+GRD.-16mmC	1A-32	SPEED CONTROLLER SUPPLIED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR
CEILING FAN CF-3	APPARATUS -129	WATTS 157	1	120	MANUAL	15A,1P	2#12+GRD.-16mmC	1A-34	SPEED CONTROLLER SUPPLIED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR
CEILING FAN CF-4	APPARATUS -129	WATTS 157	1	120	MANUAL	15A,1P	2#12+GRD.-16mmC	1A-36	SPEED CONTROLLER SUPPLIED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR
PUMP P-1	MECH.RM. -200	HP 3.0	3	208	MAGNETIC	25A,3P	3#10+GRD.-21mmC	2A-18/20/22	
PUMP P-2	MECH.RM. -200	HP 3.0	3	208	MAGNETIC	25A,3P	3#10+GRD.-21mmC	2A-24/26/28	
PUMP P-3	MECH.RM. -200	HP 1.0	1	208	MAGNETIC	20A,2P	2#12+GRD.-16mmC	2A-30/32	
PUMP P-4	MECH.RM. -200	HP 1.0	1	208	MAGNETIC	20A,2P	2#12+GRD.-16mmC	2A-34/36	
HUMIDIFIER HU-1	MECH.RM. -200	MCA 51.9	3	208	INTEGRAL	70A,3P	3#4+GRD.-35mmC	DP-AA	PROVIDE 100A-3P FUSIBLE DISCONNECT SWITCH (C/W FUSES TO SUIT) TO CONTROL POWER TO THE UNIT.
ELECTRIC DUCT COIL HC-1	--	KW 1.0	1	208	INTEGRAL	15A,2P	2#12+GRD.-16mmC	1M-1/3	
ELECTRIC DUCT COIL HC-2	--	KW 1.3	1	208	INTEGRAL	15A,2P	2#12+GRD.-16mmC	1M-5/7	
ELECTRIC DUCT COIL HC-3	--	KW 2.5	3	208	INTEGRAL	15A,3P	3#12+GRD.-21mmC	1M-9/11/13	
ELECTRIC DUCT COIL HC-4	--	KW 1.0	1	208	INTEGRAL	15A,2P	2#12+GRD.-16mmC	1M-15/17	
ELECTRIC DUCT COIL HC-5	--	KW 4.5	3	208	INTEGRAL	20A,3P	3#12+GRD.-21mmC	1M-19/21/23	
ELECTRIC DUCT COIL HC-6	--	KW 1.0	1	208	INTEGRAL	15A,2P	2#12+GRD.-16mmC	1M-25/27	
ELECTRIC DUCT COIL HC-7	--	KW 4.5	3	208	INTEGRAL	20A,3P	3#12+GRD.-21mmC	1M-29/31/33	
ELECTRIC DUCT COIL HC-8	--	KW 1.0	1	208	INTEGRAL	15A,2P	2#12+GRD.-16mmC	1M-35/37	
ELECTRIC DUCT COIL HC-9	--	KW 2.4	3	208	INTEGRAL	15A,3P	3#12+GRD.-21mmC	1M-39/41/43	
ELECTRIC DUCT COIL HC-10	--	KW 2.4	3	208	INTEGRAL	15A,3P	3#12+GRD.-21mmC	1M-45/47/49	
ELECTRIC DUCT COIL HC-11	--	KW 1.0	1	208	INTEGRAL	15A,2P	2#12+GRD.-16mmC	1M-57/59	

NOTES

1. PROVIDE POWER CONNECTION TO ALL EQUIPEMENTS LISTED IN THE SCHEDULE. REFER TO ELECTRICAL AND MECHANICAL LAYOUTS FOR EXACT LOCATION OF EQUIPMENTS.
2. PROVIDE SEPARATE BREAKER FOR INDIVIDUAL MECHANICAL EQUIPEMENT. SIZE AS INDICATED IN THE SCHEDULE.
3. PROVIDE LOCAL DISCONNECT SWITCH FOR ALL MECHANICAL EQUIPMENTS AS REQUIRED BY OESC.
4. ELECTRICAL CONTRACTOR TO PROVIDE POWER WIRING TO & FROM STARTERS/VFD'S (STARTERS/VFD'S SUPPLIED BY MECH. CONTRACTOR & INSTALLED BY ELECTRICAL CONTRACTOR) TO MECHANICAL EQUIPMENTS.
5. ELECTRICAL CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND SHALL COORDINATE FOR MECHANICAL EQUIPMENT LOCATIONS, STARTERS LOCATIONS AND BREAKERS SIZES & WIRES WITH THE MECHANICAL CONTRACTOR & CONSULTANT PRIOR TO ROUGH-IN.
6. LOCATIONS OF THE EQUIPMENT STARTERS SHALL BE NEXT TO THE LIGHT SWITCH IN FINISHED ROOMS AND NEXT TO EQUIPMENT IN THE SERVICE ROOMS UNLESS OTHERWISE NOTED.
7. LOCATIONS OF BOILERS AND HOT WATER HEATERS DISCONNECT SWITCHES SHALL BE NEXT TO THE ENTRANCE DOOR OF THE MECHNICAL ROOM.
8. REFER TO MECHANICAL EQUIPMENT STARTER AND ELECTRICAL DATA SCHEDULES IN MECHANICAL DRAWING FOR ELECTRICAL CONTRACTOR'S SCOPE OF WORK.
9. RESERVED.
10. LOCATION OF ON/OFF SWITCH'S, THERMOSTATS AND SPEED CONTROLLER SWITCH'S SHALL BE VERIFIED ON SITE WITH THE MECHANICAL CONTRACTOR PRIOR TO ROUGH IN.
11. PROVIDE POWER CONNECTION TO ALL REVERSE ACTING THERMOSTATS AND SPEED CONTROLLER SWITCHES AND FEED FROM RESPECTIVE CIRCUITS FEEDING REPECTIVE MECHANICAL EQUIPMENT WHICH SHALL BE CONTROLLED VIA THE REVERSE ACTING THERMOSTATS AND SPEED CONTROLLERS. LOCATIONS OF DEVICES SHALL BE WITHIN THE SAME ARE SERVED BY THE RSPECTIVE MECHANICAL EQUIPMENT. COORDINATE ON SITE FOR FOR DEVICE LOCATIONS WITH ARCHITECT AND CONSULTANT PRIOR TO ROUGH IN.
12. COORDINATE BREAKER SIZE FOR SPECIAL EQUIPMENT SUCH AS MECHANICAL EQUIPMENT, KITCHEN APPLIANCES, ELEVATOR ETC. BASED ON SELECTED MAKE, MODEL AND ELECTRICAL DATA. BOTH CONTRACTOR AND SUPPLIER/MANUFACTURER SHALL MAKE ALLOWANCE FOR VARIATION IN RATING TO TWO (2) SIZE HIGHER OR LOWER THAN SPECIFIED & RESPECTIVE VARIATION/REVISION OF FEEDER SIZES AT NO EXTRA COST.

MECHANICAL EQUIPMENT WIRING SCHEDULE

EQUIPMENT & LABEL	STARTER LOCATION	UNIT POWER	UNIT PHASE	UNIT VOLTAGE	STARTER TYPE	BREAKER SIZE	FEEDER SIZE	PANEL AND CCT. NOS.	REMARKS
HEAT PUMP HP-1	ON UNIT	MCA 4.0	1	208	INTEGRAL	15A,2P	2#12+GRD.-16mmC	1M-2/4	
HEAT PUMP HP-2	ON UNIT	MCA 5.0	1	208	INTEGRAL	15A,2P	2#12+GRD.-16mmC	1M-6/8	
HEAT PUMP HP-3	ON UNIT	MCA 11.0	1	208	INTEGRAL	15A,2P	2#12+GRD.-16mmC	1M-10/12	
HEAT PUMP HP-4	ON UNIT	MCA 4.0	1	208	INTEGRAL	15A,2P	2#12+GRD.-16mmC	1M-14/16	
HEAT PUMP HP-5	ON UNIT	MCA 11.0	1	208	INTEGRAL	15A,2P	2#12+GRD.-16mmC	1M-18/20	
HEAT PUMP HP-6	ON UNIT	MCA 5.0	1	208	INTEGRAL	15A,2P	2#12+GRD.-16mmC	1M-22/24	
HEAT PUMP HP-7	ON UNIT	MCA 11.0	1	208	INTEGRAL	15A,2P	2#12+GRD.-16mmC	1M-26/28	
HEAT PUMP HP-8	ON UNIT	MCA 5.0	1	208	INTEGRAL	15A,2P	2#12+GRD.-16mmC	1M-30/32	
HEAT PUMP HP-9	ON UNIT	MCA 11.0	1	208	INTEGRAL	15A,2P	2#12+GRD.-16mmC	1M-34/36	
HEAT PUMP HP-10	ON UNIT	MCA 11.0	1	208	INTEGRAL	15A,2P	2#12+GRD.-16mmC	1M-38/40	
HEAT PUMP HP-11	ON UNIT	MCA 5.0	1	208	INTEGRAL	15A,2P	2#12+GRD.-16mmC	1M-42/44	
HEAT PUMP HP-12	ON UNIT	MCA 7.0	1	208	INTEGRAL	15A,2P	2#12+GRD.-16mmC	1M-46/48	
UNIT HEATER UH-1	ON UNIT	KW 25.0	3	208	--	100A,3P	3#3+GRD.-41mmC	DP-AA	
UNIT HEATER UH-2	ON UNIT	KW 25.0	3	208	--	100A,3P	3#3+GRD.-41mmC	DP-AA	
HOT WATER TANK HWT-1	MECH.RM. -200	KW 3.0	3	208	MANUAL	15A,3P	3#12+GRD.-21mmC	2A-9/11/13	PROVIDE LOCKABLE DISCONNECT SWITCH NEAR THE ENTRANCE DOOR OF THE ROOM
HOT WATER TANK HWT-2	MECH.RM. -200	KW 3.0	3	208	MANUAL	15A,3P	3#12+GRD.-21mmC	2A-15/17/19	PROVIDE LOCKABLE DISCONNECT SWITCH NEAR THE ENTRANCE DOOR OF THE ROOM
RE-CIRC. PUMP FOR HWT-1 & HWT-2	MECH.RM. -200	HP 1/4	1	120	MANUAL	15A,1P	2#12+GRD.-16mmC	2A-25	
EXCESS PRESSURE PUMP	SPKL.RM. -132	HP 1/4	1	120	MAGNETIC	15A,1P	2#12+GRD.-16mmC	1B-43	

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ISSUE OR REVISION

NO.	ISSUED FOR	DATE (M.D.Y)
1	DESIGN DEVELOPMENT FOR COSTING	07.07.22
2	ISSUED FOR PERMIT	09.07.23
3	ISSUED FOR REVIEW	02.13.24
4	ISSUED FOR TENDER	04.15.24

PROJECT :

CITY OF VAUGHAN FIRE STATION 7-12

9541 WESTON ROAD, VAUGHAN

CLIENT

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

MEP

Jain

7405 EAST DANBRO CRESCENT
MISSISSAUGA, ONTARIO, L5N 6P8
TEL. 905 285 9900, FAX 905 567 5246
Email : mail@jainconsultants.com

PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER
D. JAIN
APR.15'24
PROVINCE OF ONTARIO

21-237

DWG TITLE

SCHEDULES (CONTD.)

ORIENTATION

N — TRUE NORTH

N — CONSTRUCTION NORTH

DATE

SCALE N.T.S.

DRAWN BY CV

CHECKED BY RH

DWG STATUS :

PROJECT No.

DRAWING No. E8.0

REVISION