

















































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MECHANICAL LEGENED

	FLOOR DRAIN (SIPHONE-TRAP)		WATER METER
	FLOOR DRAIN (JUNCTION BOX)		WATER METER BOX (WMB)
	CLEAN OUT		GATE VALVE
	ROOF & BALCONY DRAIN		NON RETURN VALVE
	SEWER MANHOLE (MH)		FLOAT
	RAIN WATER MANHOLE (RWM)		8mm GAS SHUTOFF VALVE
	FIRE HOSE CABINET		G.S.P COLD WATER SUPPLY
	EXHAUST FAN		G.S.P HOT WATER SUPPLY
	UPVC DRAINAGE PIPE		CITY MAIN WATER PIPE
	GALVANIZED STEEL WATER PIPE		POLYETHYLENE COLD WATER PIPE
	2" UPVC DRAINAGE PIPE		POLYETHYLENE HOT WATER PIPE
	4" UPVC DRAINAGE PIPE		COPPER GAS PIPE INSIDE 20MM P.V.C PIPE
	6" UPVC DRAINAGE PIPE		COLD WATER PIPE
	4" UPVC VENT PIPE		HOT WATER PIPE
	GAS COLLECTOR		HOT WATER RETURN PIPE
	WATER COLLECTOR		IRRIGATION PIPE
	WATER PUMP		FIRE FIGHTING WATER PIPE
	FREE DISCHARGE PIPE		VENT PIPING
	CONDENSED PIPE		REFRIGERANT PIPES
	GAS CABINET		DRAIN LINE
	FINISH ROOF LEVEL		DRAIN POINT
	FLOOR DRAIN		WATER PUMP
	CW and HW collector		VENT COWL
	WATER COOLER		GULLY TRAP

ABBREVIATION

SYMBOL	DESIGNATION	SYMBOL	DESIGNATION
V.P	VENT PIPE	AC	AIR CONDITIONING
R.W.P	RAIN WATER PIPE	AFC	ABOVE FALSE CEILING
DR.P	DRAINAGE PIPE	EF	EXHAUST FAN
W.P	WATER PIPE	FC	FALSE CEILING
B.S.P	BLACK STEEL PIPE	GV	GLOBE VALVE
Ⓟ	ELECTRICAL WATER HEATER	HB	HOSE BIBB
FA	FROM ABOVE	HWS	HOT WATER SUPPLY
TA	TO ABOVE	HWR	HOT WATER RETURN
HVAC	HEATING VENTILATION& AIR CONDITIONING	IL	INVERT LEVEL
TB	TO BELLOW	IR	IRRIGATION
FB	FROM BELLOW	MH	MANHOLE
NTS	NOT TO SCALE	PEX	POLYVINYL CHLORIDE
FD	FLOOR DRAIN	PVC	CROSS LINKED POLYETHYLENE
QTY	QUANTITY	RC	REINFORCED CONCRETE
UG	UNDER GROUND	UT	UNDER TILES
VP	VENT PIPE	FF	FIRE FIGHTING
FE	FIRE EXTINGUISHER	FHC	FIRE HOSE CABINET

EQUIPMENT SCHEDULE:—

REF.	DESCRIPTION	LOCATION	QTY	CAPACITY (L/S) (EACH)	ESTIM. POWER (KW) (EACH)	NOTES
B1	BOILER	Mechanical Room	1	101.3 KW	1.0	
PH1 & PH2	HEATNG PUMPS— Circulation Pump	Mechanical Room	2	18.2 m3/h, 3.3 bar	1.0	(ONE SET) ONE DUTY ONE STANDBY
PW1 & PW2	DOMESTIC WATER PUMPS	Mechanical Room	2	4.64 l/s 16.7 m3/h, 3.3 bar	1.0	(ONE BOOSTER SET) WITH PRESSURE VESSEL & CONTROL PANEL
PF1 & PFJ	FIRE FIGHTING MAIN PUMP FIRE FIGHTING JOCKEY PUMP	Mechanical Room	1 1	1.0 L/S, 400 Kpa 0.4 L/S, 450 Kpa	1.0 0.5	(ONE SET) WITH CONTROL PANEL
PSUB1 & PSUB2	SUBMERSIBLE PUMPS	Mechanical Room	2	1.0 L/S, 80 Kpa	0.5	(ONE SET) WITH CONTROL PANEL (FOR Water over flow).
PW1	GREY WATER PUMPS	Mechanical Room	2	1.0 L/S, 80 Kpa	0.5	(ONE SUMP PIT) WITH CONTROL PANEL (FOR GREY WATER)
PW1	MAKE UP WATER PUMPS	Mechanical Room	2	1.0 L/S, 80 Kpa	0.5	(ONE SUMP PIT)WITH CONTROL PANEL (FOR FOR FEEDING FIRE WATER TANK)

⑦ EXHAUST FAN SCHEDULE							
MARK NO.	ASSEMBLY TYPE	AIR VOLUME FLOW (L/S)	MOTOR POWER (WATTS)	SOUND dba @3m	POWER SUPPLY (V/PH/HZ)	QUANTITY	REMARKS
EX.A.F—01	WALL MOUNTED EXTRACT FAN	61	16	45	220/1/50	8	KITCHEN
EX.A.F—02	WALL MOUNTED EXTRACT FAN	25	15	38	220/1/50	24	TOILET

Date:
2/04/2018

Drawing Scale:
NTS

Drawing No.

M00

PALESTINE
POLYTECHNIC UNIVERSITY

College of Engineering
Department of Mechanical Engineering
H.V.A.C. Engineering



Designed AND DRAWN By:
Mutaz Dweik

Supervisor:
Dr. KAZEM OSAILY




Project Name:
Mechanical Systems
for Headquarters Charities
building in Hebron


Drawing Title:

Tabels of Contents
, Legends And Abbreviation

Notes:

All dimensions are in Meters
Unless otherwise shown.
All spot levels are in Meters.

 Hollow blockwork.
 Reinforced concrete column/wall.
 Plain concrete walls.

 955.00m SL
+0.00m

