Site Instruction

MCW Consultants Ltd.

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Date: November 1, 2016

Project Name:	AQUAVISTA - Bayside	*Project No.:*	8489D
Client:	TRIDEL Corporation	*SI No.:*	E 004
To:	TRIDEL Corporation	*Page No.:*	1 of 1+ 4 Attached
Attention:	Chadi Loza	*Office:*	Toronto
Fax number:	-	*From:*	Sunanda Perera Tao Li

Distribution: Vince Mirarchi –TRIDEL
Chadi Loza - TRIDEL
Christina Lee -KIRKOR
Al Medeiros –MCW
Michael Hunter-MCW
Mark Furtado-MCW
Sarfraz H. Jaffrey-MCW

Provide itemized labour, equipment and material costs for Work listed below. Do not proceed with any of the listed Work prior to issuance of signed Change Order.

Title: Filtration Pumps.

Specification:

Spec	Issued	Items
P-6P4RCM	Yes	• Add 15A/3P breaker for filtration pumps.

Electrical:

Drawing No.	Drawing Issued	Items
E1-01	Yes	• Provide power connection to filtration pumps P-48/P-49 as shown.

ME Schedule:

Drawing No.	Drawing Issued	Items
ME-12	Yes	• Add electrical information to pump P-48/P-49 as shown.

Reason for Issue- Owner Request and Design Coordination with SI-M001.

End of SI-E004

PANEL SCHEDULE

347/600 VOLTS

3 PHASE 3 WIRE

200 AMP MAINS

200 NA MAIN BREAKER

JOB NUMBER: 8489D

JOB NAME: Aquavista

6P4RCM

DESCRIPTION	# OF REC.	# OF FIXT.	WATT / FIX.	BRKR SIZE	CCT. NO.	LOAD PER PHASE a	b	c	CCT. NO.	BRKR SIZE	WATT / FIXT.	# OF FIXT.	# OF REC.	DESCRIPTION
Condenser Water Pump PC-01, PC-02 (Duty standby) Each 30kW				100	1a				2a	15				For Metering
						1000			4b					
					3b									
							10000		6c					
					5c									
								10000	8a					
Chilled Water Pump PC-03, PC-04 (Duty standby) Each 30kW				100	7a	367				15				Boiler#7 Pump PC-21
						10000			10b					
					9b		367							
							10000		12c					
					11c			367						
								10000	14a					
Boiler #2 Pump PC-06				15	13a	367				15				Boiler#8 Pump PC-22
						500			16b					
					15b		367							
							500		18c					
					17c			367						
								500	20a	20				DHW Heating Secondary Pumps PC-23, PC-24 (Duty standby) Each 5.6kW
Boiler #3 Pump PC-07				15	19a	1867								
						500			22b					
					21b		1867							
							500		24c					
					23c			1867						
								500	26a	15				Boiler Room Supply SFC-04
Boiler #4 Pump PC-08				15	25a	187								
						367			28b					
					27b		187							
							367		30c					
					29c			187						
								367	32a	15				Boiler#6 Pump PC-20
Boiler #5 Pump PC-09				15	31a	367								
						367			34b					
					33b		367							
							367		36c					
					35c			367						
								367	38a					

High Temp Secondary Pumps PC-10, PC-11 (Duty standby) Each 5.6kW				20	37a	5870			40b	35				Panel "P2P4RCM" Through 30kVA Tansformer
						1867								
					39b		5930		42c					
							1867							
					41c			5150	44a					
								1867						
FILTRATION PUMP P-48/P-49 ONE DUTY/ONE STANDBY 3.7KW/3.7KW				15	43a				46b	15				Irrigation Pump (Capacity TBD)
						1233								
					45b				48c					
							1233							
					47c				50a					
								1233						
					49a				52b	15				Spare
					51b				54c					
					53c				56a					
					55a				58b	15				Spare
					57b				60c					
					59c									
						24859.3	33919.3	33139						

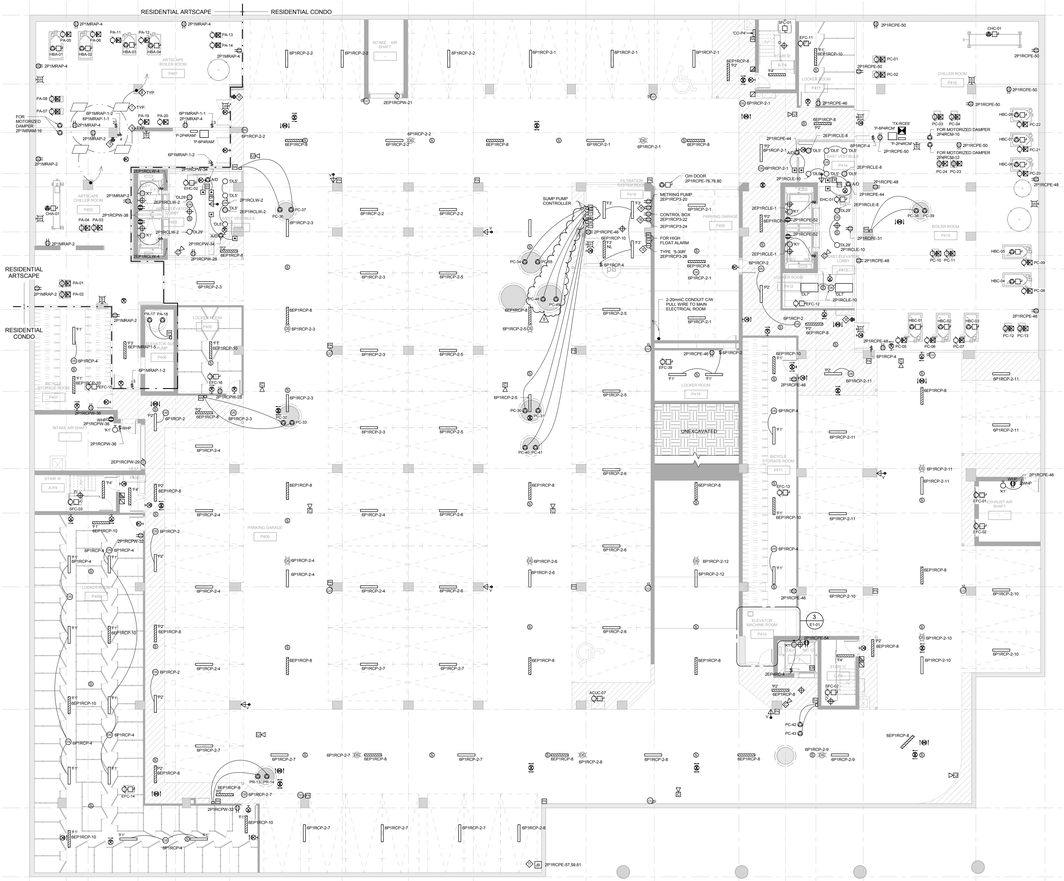
TOTAL WATT 91918

TOTAL AMP 88

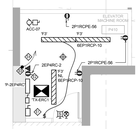
PANEL TYPE: NEMA TYPE 3

LOCATION: Level P4 Chiller room

MOUNTING: Surface



1 LEVEL P4 - ELECTRICAL
1 : 100



ELEVATOR MACHINE ROOM NOTES:

1. PROVIDE DISCONNECT SWITCH FOR ELEVATOR MOTOR. C/W AUXILIARY CONTACT WITH WIRING TO THE CONTROLLER. REFER TO SINGLE DIAGRAM FOR FEEDER SIZE. FUSE TO BE PROVIDE AS PER ELEVATOR SHOP.
2. DEDICATE GFI RECEPTACLE NEXT TO CONTROL CABINET. COORDINATE EXACT LOCATION WITH ELEVATOR CONTRACTOR ON SITE.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL EMPTY CONDUIT C/W PULL WIRE FROM MAIN TELECOMMUNICATION ROOM FOR A DEDICATED TELEPHONE LINE TERMINATED IN ELEVATOR EMERGENCY ELEVATOR SIGNAL CONTROL CABINET FOR EMERGENCY CALL SYSTEM.
4. CONDUIT TO PLYWOOD BACKBOARD FOR SECURITY SERVICE.

3 ELEVATOR MACH. ROOM P410
1 : 50

NOTES:

1. ALL GARAGE LIGHT FIXTURES SHALL BE TYPE 'PY' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (GWG, EA-01)
3. PROVIDE MINIMUM #10 AWG WIRING FOR ALL LIGHT FIXTURES IN STAIRS AND IN CORRIDORS.
4. ALL LIGHTING FIXTURES FED FROM NORMAL POWER WITHIN THE PARKING GARAGE SHALL BE CONNECTED TO THE EMERGENCY BRANCH. ALL LIGHTING FIXTURES FED FROM EMERGENCY POWER WITHIN THE PARKING GARAGE SHALL BE SWITCHED.
5. ALL EXIT SIGNS ON THIS DRAWING SHALL BE TYPE 'EY', REFER TO DWG. EA-01 FOR CIRCUIT NUMBERS.
6. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING FOR QUANTITY AND DESCRIPTION.

P1 PROVIDE 610mm x 915mm x 3mm (THICK) COPPER GROUND FLUSH PLATES. REFER TO SPECIFICATION FOR DETAILS.

P2 #2 AWG COPPER GROUND WIRE UP TO GROUND BUS IN MAIN ELECTRICAL ROOM (P1 LEVEL). REFER TO DWG. EA-01 FOR DETAILS.

P3 #2 AWG COPPER GROUNDING CONDUCT.

P4 EMERGENCY HILL SWITCHES FOR HEATING BOILERS. PROVIDE LAMACOID IDENTIFICATION PLATE MOUNT SWITCHES AT 1100MM AFF. PROVIDE SEE THROUGH TAMPER PROOF TYPE ENCLOSURE WITH LAMACOID IDENTIFICATION NAMEPLATE.

P5 FOR FUTURE CAR WASH CONTROLLER PROVIDE POWER 15A, 120/208V 3Ø 4W POWER CONNECTION. EXACT LOCATION TO BE COORDINATED WITH ARCHITECTURAL DRAWING.

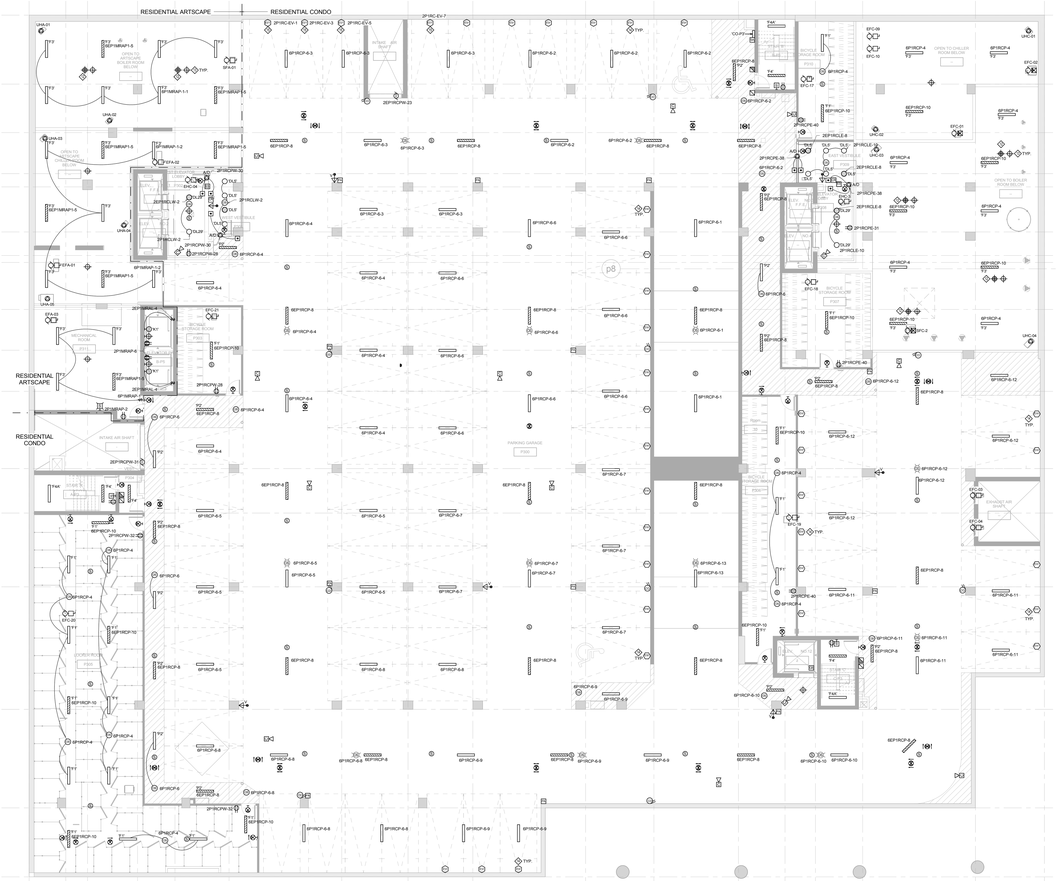
P6 DEVICE CONNECT TO FIRE ALARM SYSTEM. REFER TO SPECIFICATION FOR DETAILS..

P7 HEAT DETECTORS SHOWN IN THE MECHANICAL ROOM ARE FOR REFERENCE ONLY. CONTRACTOR SHALL REVIEW THE MECHANICAL, ELECTRICAL AND SPRINKLER DRAWINGS AND ALL SERVICES AVAILABLE IN ORDER TO ALLOW THE ELECTRICAL/MIRANDA PROPOSAL. CLARIFICATION SHALL INCLUDE THE SUPPLY AND INSTALLATION OF AN ADDITIONAL 8 HEAT DETECTORS. EXACT LOCATION TO BE COORDINATED WITH MECHANICAL DRAWINGS. REFER TO SPECIFICATION FOR COMPLETE INSTALLATION. PROVIDE HIGH TEMPERATURE HEAT DETECTORS IN BOILER ROOM.

P8 MOUNTING HEIGHT 1000mm A.F.F. ALL CONDUITS C/W PULL WIRE BACK TO ELETRICAL CAR CHARGING PANEL AT EAST ELECTRICAL ROOM (P1/2).

P9 PROVIDE LOCKABLE COVER. MOUNTING HEIGHT 1000mm A.F.F.

P10 POWER RECEPTACLE FOR FILTRATION SYSTEM. EXACT LOCATION TO BE COORDINATED WITH FILTRATION SYSTEM SHOP DRAWING.



2 LEVEL P3 - ELECTRICAL
1 : 100

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
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This Drawing Is Not To Be Used For Construction Until Signed ByThe Architect.

Date: 08/29/12

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No.	Revision	Date
1	ISSUED FOR ADD E-001	2015-12-08
2	ISSUED FOR ADD E-003	2016/01/26
3	ISSUED FOR CONSTRUCTION	2016/04/21
4	ISSUED FOR SI-E003	2016/09/29
5	ISSUED FOR SI-E004	2016/11/01

No.	Revision For	Date
4	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-10-16
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL P4 & LEVEL P3 PARKING PLAN - ELECTRICAL

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

Scale: As indicated
Drawn by: Author
Checked by: Checker
Project No.: 8489D
Date: 08/29/12
Drawing No.: E1-01

Plot Date: 12/11/2015 - 1:34:37 PM File Path: C:\Users\Tim_L\Documents\DARO - Aquavista - 8489_Rev_tim.rvt

PUMP SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	OWNERSHIP	WATER FLOW (L/S)	HEAD (KPA)	RPM	MANUFACTURER	TYPE / SIZE	ENERGY REQUIRED (HP)	MOTOR SIZE (KW)	POWER SUPPLY					STARTER				TYPE	CONTROLS				OTHER REQUIREMENTS			REMARKS:	NOTES:
											VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:		INSTALLED BY:			MANUAL	AUTO.	INTERLOCK BY:		W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT.		
																DIV. 15	DIV. 16	DIV. 15	DIV.16				DIV. 15	DIV. 16					
PC-01	CONDENSER WATER PUMP	MROOM P4	CONDO	64.4	274	1800	ARMSTRONG	4300 0811-040	-	30.0	575	3	6PARCM	-	YES	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT, ONE DUTY / ONE STANDBY.	
PC-02	CONDENSER WATER PUMP	MROOM P4	CONDO	64.4	274	1800	ARMSTRONG	4300 0811-040	-	30.0	575	3																	
PC-03	CHILLED WATER PUMP	MROOM P4	CONDO	51.5	324	1800	ARMSTRONG	4300 0811-040	-	30.0	575	3	6PARCM	-	YES	YES	-	YES	-	VFD	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT. INTEGRATED VFD WITH SENSORLESS CONTROL SOFTWARE. - ONE DUTY / ONE STANDBY. PACKAGE UNIT VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS.	
PC-04	CHILLED WATER PUMP	MROOM P4	CONDO	51.5	324	1800	ARMSTRONG	4300 0811-040	-	30.0	575	3								VFD									
PC-05	BOILER # 1 PUMP	MROOM P4	CONDO	8.8	74	1800	ARMSTRONG	4360 0306-002		1.5	575	3	6EPARCM	YES	-	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT	
PC-06	BOILER # 2 PUMP	MROOM P4	CONDO	8.8	74	1800	ARMSTRONG	4360 0306-002		1.5	575	3	6PARCM	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT	
PC-07	BOILER # 3 PUMP	MROOM P4	CONDO	8.8	74	1800	ARMSTRONG	4360 0306-002		1.5	575	3	6PARCM	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT	
PC-08	BOILER # 4 PUMP	MROOM P4	CONDO	8.8	60	1800	ARMSTRONG	4360 0306-011.5		1.1	575	3	6PARCM	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT	
PC-09	BOILER # 5 PUMP	MROOM P4	CONDO	8.8	60	1800	ARMSTRONG	4360 0306-011.5		1.1	575	3	6PARCM	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT	
PC-10	HIGH TEMP. SEC. PUMP	MROOM P4	CONDO	18.0	195	1800	ARMSTRONG	4300 0308-007.5		5.6	575	3	6PARCM	-	YES	YES	-	YES	-	VFD	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT. INTEGRATED VFD WITH SENSORLESS CONTROL SOFTWARE. - ONE DUTY / ONE STANDBY. PACKAGE UNIT VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS.	
PC-11	HIGH TEMP. SEC. PUMP	MROOM P4	CONDO	18.0	195	1800	ARMSTRONG	4300 0308-007.5		5.6	575	3								VFD									
PC-12	LOW TEMP. SEC. PUMP	MROOM P4	CONDO	28.4	255	1800	ARMSTRONG	4300 0610-020		10.0	575	3	6EPARCM	YES	-	YES	-	YES	-	VFD	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT. INTEGRATED VFD WITH SENSORLESS CONTROL SOFTWARE. - ONE DUTY / ONE STANDBY. PACKAGE UNIT VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS.	
PC-13	LOW TEMP. SEC. PUMP	MROOM P4	CONDO	28.4	255	1800	ARMSTRONG	4300 0610-020		10.0	575	3								VFD									
PC-14	MUA-1 HEATING PUMP	MROOM P1	CONDO	2.0	125	1800	ARMSTRONG	4360 1508-001.5		1.1	575	3	6PARCM	-	YES	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT, ONE DUTY / ONE STANDBY PACKAGE UNIT	
PC-15	MUA-1 HEATING PUMP	MROOM P1	CONDO	2.0	125	1800	ARMSTRONG	4360 1508-001.5		1.1	575	3																	
PC-16	MUA-2 HEATING PUMP	MROOM L1 MZ	CONDO	5.1	130	1800	ARMSTRONG	4380 0208-003		2.2	575	3	6PARCM	-	YES	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT, ONE DUTY / ONE STANDBY. PACKAGE UNIT	
PC-17	MUA-2 HEATING PUMP	MROOM L1 MZ	CONDO	5.1	130	1800	ARMSTRONG	4380 0208-003		2.2	575	3																	
PC-18	MUA-3 HEATING PUMP	MROOM P4	CONDO	5.3	130	1800	ARMSTRONG	4380 0208-003		2.2	575	3	DP-9RRCE	-	YES	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT, ONE DUTY / ONE STANDBY. PACKAGE UNIT	
PC-19	MUA-3 HEATING PUMP	MROOM P4	CONDO	5.3	130	1800	ARMSTRONG	4380 0208-003		2.2	575	3																	
PC-20	BOILER # 6 PUMP	MROOM P4	CONDO	5.7	80	1800	ARMSTRONG	4380 0206-001.5		1.1	575	3	6PARCM	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT	
PC-21	BOILER # 7 PUMP	MROOM P4	CONDO	5.7	80	1800	ARMSTRONG	4380 0206-001.5		1.1	575	3	6PARCM	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT	
PC-22	BOILER # 8 PUMP	MROOM P4	CONDO	5.7	80	1800	ARMSTRONG	4380 0206-001.5		1.1	575	3	6PARCM	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT	
PC-23	DHW HEATING SEC. PUMP	MROOM P4	CONDO	19.2	170	1800	ARMSTRONG	4300 0308-007.5		5.6	575	3	6PARCM	-	YES	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT. - ONE DUTY / ONE STANDBY	
PC-24	DHW HEATING SEC. PUMP	MROOM P4	CONDO	19.2	170	1800	ARMSTRONG	4300 0308-007.5		5.6	575	3																	
PC-25	DOMESTIC BOOSTER PUMP	MROOM P1	CONDO	10.1	560	3525	GRUNDFOS	MPC-E(CIE) 3CR32-3	-	11.2	575	3	5WBD-9RC	-	YES	YES	-	YES	-	VFD	-	YES	YES	-	-	DIV. 15	-	PACKAGE C/W CONTROL PANEL, VFD, PRV'S AND EXPANSION TANK PRESSURES REQUIRED AFTER PRV - MANUFACTURER TO CONFIRM ACTIRCT PRESSURE AT SITE PRIOR TO MANUFACTURE OF PUMPS. VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS. PROVIDE 2 SEPARATE CONTROLLERS (ONE NORMAL ONE EMERGENCY POWER) WITH INTERLOCKED CONTROLS TO ALLOW EMERGENCY PUMP TO OPERATE UNDER EMERGENCY POWER.	
PC-26	DOMESTIC BOOSTER PUMP	MROOM P1	CONDO	10.1	560	3525	GRUNDFOS	MPC-E(CIE) 3CR32-3	-	11.2	575	3								VFD									
PC-27	DOMESTIC BOOSTER PUMP	MROOM P4	CONDO	10.1	560	3525	GRUNDFOS	MPC-E(CIE) 3CR32-3	-	11.2	575	3	6EPRCP2	YES	-	YES	-	YES	-	VFD	-	YES	YES	-	-	DIV. 15	-		
PC-28	FIRE PUMP	MROOM	CONDO	47.3	760	3600	ARMSTRONG	VIL-4x4LB-F-75	-	37.3	575	3	5WRC DP-6ERRC	YES	-	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	PACKAGE UNIT C/W ULC LABELLED, CONTROLLER REDUCED VOLTAGE STARTER TRANSFER SWITCH AND JOCKEY PUMP.	
PC-29	JOCKEY PUMP	MROOM	CONDO	0.5	820	3600	ARMSTRONG	4700-VMS-03 09-2	-	2.2	575	3	6EP1ROM	YES	-	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-		
PC-30	SANITARY SUMP PUMP	FD LEVEL	CONDO	6.3	240	1800	BARNES	4SE-7054L	-	5.6	575	3	6EPARCM	YES	-	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	CW SLIDE AWAY COUPLINGS, GALVANIZED LIFTING CHAINS, DUPLEX CONTROL PANEL, DISCONNECT SWITCH IN CEMA 1 ENCLOSURE, C/W HIGH WATER ALARM PANEL, EXTRA RELAY IN CEMA 1 ENCLOSURE AND MECHANICAL FLOAT SWITCHES.	
PC-31	SANITARY SUMP PUMP	FD LEVEL	CONDO	6.3	240	1800	BARNES	4SE-7054L	-	5.6	575	3																	
PC-32	STORM SUMP PUMP	FD LEVEL	CONDO	3.2	300	1800	BARNES	4SE-11054L	-	8.4	575	3	6EPARCM	YES	-	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	CW SLIDE AWAY COUPLINGS, GALVANIZED LIFTING CHAINS, DUPLEX CONTROL PANEL, DISCONNECT SWITCH IN CEMA 1 ENCLOSURE, C/W HIGH WATER ALARM PANEL, EXTRA RELAY IN CEMA 1 ENCLOSURE AND MECHANICAL FLOAT SWITCHES.	
PC-33	STORM SUMP PUMP	FD LEVEL	CONDO	3.2	300	1800	BARNES	4SE-11054L	-	8.4	575	3																	
PC-34	GROUND WATER SUMP PUMP	FD LEVEL	CONDO	3.2	300	1800	BARNES	4SE-11054L	-	8.4	575	3	6EPARCM	YES	-	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	CW SLIDE AWAY COUPLINGS, GALVANIZED LIFTING CHAINS, DUPLEX CONTROL PANEL, DISCONNECT SWITCH IN CEMA 1 ENCLOSURE, C/W HIGH WATER ALARM PANEL, EXTRA RELAY IN CEMA 1 ENCLOSURE AND MECHANICAL FLOAT SWITCHES.	
PC-35	GROUND WATER SUMP PUMP	FD LEVEL	CONDO	3.2	300	1800	BARNES	4SE-11054L	-	8.4	575	3																	
PC-36	ELEVATOR SUMP PUMP	FD LEVEL	CONDO	6.3	240	1800	BARNES	4SE-7054L	-	5.6	575	3	6EPARCM	YES	-	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	CW SLIDE AWAY COUPLINGS, GALVANIZED LIFTING CHAINS, DUPLEX CONTROL PANEL, DISCONNECT SWITCH IN CEMA 1 ENCLOSURE, C/W HIGH WATER ALARM PANEL, EXTRA RELAY IN CEMA 1 ENCLOSURE AND MECHANICAL FLOAT SWITCHES.	
PC-37	ELEVATOR SUMP PUMP	FD LEVEL	CONDO	6.3	240	1800	BARNES	4SE-7054L	-	5.6	575	3																	
PC-38	ELEVATOR SUMP PUMP	FD LEVEL	CONDO	6.3	270	1800	BARNES	4SE-11054L	-	8.4	575	3	6EPARCM	YES	-	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	CW SLIDE AWAY COUPLINGS, GALVANIZED LIFTING CHAINS, DUPLEX CONTROL PANEL, DISCONNECT SWITCH IN CEMA 1 ENCLOSURE, C/W HIGH WATER ALARM PANEL, EXTRA RELAY IN CEMA 1 ENCLOSURE AND MECHANICAL FLOAT SWITCHES.	
PC-39	ELEVATOR SUMP PUMP	FD LEVEL	CONDO	6.3	270	1800	BARNES	4SE-11054L	-	8.4	575	3																	
PC-40	ELEVATOR SUMP PUMP	FD LEVEL	CONDO	9.5	240	1800	BARNES	4SE-11054L	-	8.4	575	3	6EPARCM	YES	-	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	CW SLIDE AWAY COUPLINGS, GALVANIZED LIFTING CHAINS, DUPLEX CONTROL PANEL, DISCONNECT SWITCH IN CEMA 1 ENCLOSURE, C/W HIGH WATER ALARM PANEL, EXTRA RELAY IN CEMA 1 ENCLOSURE AND MECHANICAL FLOAT SWITCHES.	
PC-41	ELEVATOR SUMP PUMP	FD LEVEL	CONDO	9.5	240	1800	BARNES	4SE-11054L	-	8.4	575	3																	
PC-42	ELEVATOR SUMP PUMP	FD LEVEL	CONDO	3.2	240	1800	BARNES	3SE-3053L	-	2.2	575	3	6EPARCM	YES	-	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	CW SLIDE AWAY COUPLINGS, GALVANIZED LIFTING CHAINS, DUPLEX CONTROL PANEL, DISCONNECT SWITCH IN CEMA 1 ENCLOSURE, C/W HIGH WATER ALARM PANEL, EXTRA RELAY IN CEMA 1 ENCLOSURE AND MECHANICAL FLOAT SWITCHES.	
PC-43	ELEVATOR SUMP PUMP	FD LEVEL	CONDO	3.2	240	1800	BARNES	3SE-3053L	-	2.2	575	3																	
PC-44	DHW RECIR. PUMP	MROOM	CONDO	1.0	105	1800	S.A.ARMSTRONG	4360 1.5D-0.75	-	0.56	575	3	6PIRCM	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	YES	-	CW BRONZE & ISOLATION DISCONNECT	
PC-45	DHW RECIR. PUMP	MROOM	CONDO	1.0	105	1800	S.A.ARMSTRONG	4360 1.5D-0.75	-	0.56	575	3	6PIRCM	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	YES	-	CW BRONZE & ISOLATION DISCONNECT	
PC-46	EXCESS PRESSURE PUMP	MROOM	BY OTHERS						-	-	120	1	2EP1RCP2	YES	-	YES	-	YES	-	PKG	-	YES	YES	-	-	-			
PC-47	IRRIGATION PUMP	-	CONDO	-	-	-	SKY HARVESTER	-	-	-	575	3	6PARCM	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	CW CONTROL PANEL, VFD, FILTRATION AND LOW LEVEL PROTECTION	
PC-48	FILTRATION PUMP	FD LEVEL	CONDO	2.8	255	3550	KSB	NF 50-220/047/LG-130		3.7	575	3	6PARCM	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	CW SLIDE AWAY COUPLINGS, GALVANIZED LIFTING CHAIN, CONTROL PANEL, DISCONNECT SWITCH IN [illegible] C/W DUTY / ONE STANDBY HIGH WATER ALARM PANEL C/W EXTRA RELAY IN NEMA 1 ENCLOSURE, MECHANICAL FLOAT SWITCHES	
PC-49	FILTRATION PUMP	FD LEVEL	CONDO	2.8	255	3550	KSB	NF 50-220/047/LG-130		3.7	575	3																	

VERTICAL FAN COIL SCHEDULE - 4 PIPE (SUITES)

REFERENCE	DESCRIPTION	OWNERSHIP	SUPPLY AIR (L/S)	E.S.P. (PA)	COOLING						HEATING				MOTOR TYPE	MANUFACTURER	MODEL	MOTOR SIZE (KW)	POWER SUPPLY				STARTER		TYPE	CONTOLS			OTHER REQUIREMENTS:			OTHERS	REMARKS:	NOTES:
					TOTAL (KW)	SENS (KW)	E.A.T. (°C)		WATER FLOW (L/S)	EWT (°C)	TOTAL (KW)	SENS (KW)	WATER FLOW (L/S)	EWT (°C)					VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:	INSTALLED BY:		MANUAL	AUTO.	INTERLOCK BY:		W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT			
							DB	WB																				DIV. 15	DIV. 16					
FCC-01	SUITE 4 PIPES FANCOIL - VERTICAL	CONDO	142	50	2.9	1.9	24.1	18.4	0.13	5.6	3.4	-	0.07	60.0	ECM	UNILUX	DSC300	0.10	120	1	SUITE PANEL SEE FLOOR PLAN	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
FCC-02	SUITE 4 PIPES FANCOIL - VERTICAL	CONDO	190	50	3.8	2.6	24.1	18.4	0.17	5.6	4.6	-	0.12	60.0	ECM	UNILUX	DSC400	0.16	120	1	SUITE PANEL SEE FLOOR PLAN	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
FCC-03	SUITE 4 PIPES FANCOIL - VERTICAL	CONDO	283	50	6.1	4.0	24.1	18.4	0.27	5.6	7.0	-	0.16	60.0	ECM	UNILUX	DSC600	0.16	120	1	SUITE PANEL SEE FLOOR PLAN	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
FCC-04	SUITE 4 PIPES FANCOIL - VERTICAL	CONDO	378	50	8.6	5.5	24.1	18.4	0.31	5.6	10.3	-	0.24	60.0	ECM	UNILUX	DSC800	0.16	120	1	SUITE PANEL SEE FLOOR PLAN	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
FCC-05	SUITE 4 PIPES FANCOIL - VERTICAL	CONDO	472	50	10.2	6.6	24.1	18.4	0.35	5.6	12.2	-	0.29	60.0	ECM	UNILUX	DSC1000	0.33	120	1	SUITE PANEL SEE FLOOR PLAN	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	

VERTICAL FAN COIL UNIT SCHEDULE - 4 PIPE (CONDO)

REFERENCE	DESCRIPTION	LOCATION	OWNERSHIP	SUPPLY AIR (L/S)	E.S.P. (PA)	COOLING						HEATING				MOTOR TYPE	MANUFACTURER	MODEL	MOTOR SIZE (KW)	POWER SUPPLY				STARTER		TYPE	CONTOLS			OTHER REQUIREMENTS:			OTHERS	REMARKS:	NOTES:
						TOTAL (KW)	SENS (KW)	E.A.T. (°C)		WATER FLOW (L/S)	EWT (°C)	TOTAL (KW)	SENS (KW)	WATER FLOW (L/S)	EWT (°C)					VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:	INSTALLED BY:		MANUAL	AUTO.	INTERLOCK BY:		W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT			
								DB	WB																				DIV. 15	DIV. 16					
VFCC-01	4 PIPES FANCOIL - VERTICAL	P1'R SPINNING	CONDO	283	50	6.1	4.0	24.1	18.4	0.27	5.6	7.0	-	0.16	60.0	ECM	UNILUX	DSC800	0.16	120	1	2PIRCM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
VFCC-02	4 PIPES FANCOIL - VERTICAL	P1'S GYM	CONDO	283	50	6.1	4.0	24.1	18.4	0.27	5.6	7.0	-	0.16	60.0	ECM	UNILUX	DSC800	0.16	120	1	2PIRCM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
VFCC-03	4 PIPES FANCOIL - VERTICAL	P1'S GYM	CONDO	378	50	8.6	5.5	24.1	18.4	0.31	5.6	10.3	-	0.24	60.0	ECM	UNILUX	DSC800	0.16	120	1	2PIRCM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
VFCC-04	4 PIPES FANCOIL - VERTICAL	P1'H M. CHANGE RM	CONDO	142	50	2.9	1.9	24.1	18.4	0.13	5.6	3.4	-	0.07	60.0	ECM	UNILUX	DSC350	0.10	120	1	2PIRCM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
VFCC-05	4 PIPES FANCOIL - VERTICAL	P1'I2 M. CHANGE RM	CONDO	190	50	3.8	2.6	24.1	18.4	0.17	5.6	4.6	-	0.12	60.0	ECM	UNILUX	DSC400	0.16	120	1	2PIRCM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
VFCC-06	4 PIPES FANCOIL - VERTICAL	P1'G7 YOGA RM	CONDO	190	50	3.8	2.6	24.1	18.4	0.17	5.6	4.6	-	0.12	60.0	ECM	UNILUX	DSC400	0.16	120	1	2PIRCM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
VFCC-07	4 PIPES FANCOIL - VERTICAL	114 STAFF RM	CONDO	142	50	2.9	1.9	24.1	18.4	0.13	5.6	3.4	-	0.07	60.0	ECM	UNILUX	DSC350	0.10	120	1	2PIRCM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
VFCC-08	4 PIPES FANCOIL - VERTICAL	116 PARCEL RM	CONDO	142	50	2.9	1.9	24.1	18.4	0.13	5.6	3.4	-	0.07	60.0	ECM	UNILUX	DSC350	0.10	120	1	2PIRCM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
VFCC-09	4 PIPES FANCOIL - VERTICAL	109 MEETING RM	CONDO	142	50	2.9	1.9	24.1	18.4	0.13	5.6	3.4	-	0.07	60.0	ECM	UNILUX	DSC350	0.10	120	1	2PIRCM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
VFCC-10	4 PIPES FANCOIL - VERTICAL	104 MAIL RM	CONDO	142	50	2.9	1.9	24.1	18.4	0.13	5.6	3.4	-	0.07	60.0	ECM	UNILUX	DSC350	0.10	120	1	2PIRCM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
VFCC-11	4 PIPES FANCOIL - VERTICAL	107 ADMIN OFFICE	CONDO	283	50	6.1	4.0	24.1	18.4	0.27	5.6	7.0	-	0.16	60.0	ECM	UNILUX	DSC800	0.16	120	1	2PIRCM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
VFCC-12	4 PIPES FANCOIL - VERTICAL	143 EAST ELEV LOBBY	CONDO	283	50	6.1	4.0	24.1	18.4	0.27	5.6	7.0	-	0.16	60.0	ECM	UNILUX	DSC800	0.16	120	1	2PIRCM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
VFCC-13	4 PIPES FANCOIL - VERTICAL	P1'38 CONDO AMENITY	CONDO	283	50	6.1	4.0	24.1	18.4	0.27	5.6	7.0	-	0.16	60.0	ECM	UNILUX	DSC800	0.16	120	1	2PIRCM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	

NOTES:

1. REFER TO SECTION 15050 FOR WIRING AND ELECTRIC CONNECTIONS.
2. REFER TO SECTION 15400 AND 15700 FOR FURTHER DETAILS.
3. REFER TO SECTION 15100 FOR VIBRATION ISOLATION.
4. ALL PUMPS WITH 100% STANDBY UNIT TO BE WITH SEPARATE POWER SUPPLY AND CONTROLS.
5. MECHANICAL CONTRACTORS SUPPLYING EQUIPMENT MUST COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ANY EQUIPMENT ORDERED OR ELECTRICAL WIRING INSTALLED.
6. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.

Contractor Must Check And Verify All Dimensions On The Job.
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Date: 02/04/14

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No.	Revision	Date
7	ADD 14-001	2015-10-06
6	ISSUED FOR ADD E-002	2016/01/06
5	ISSUED FOR SI-M001	2016/11/01
4	ISSUED FOR SI-E004	2016/11/01
3	ISSUED FOR CONSTRUCTION	2016-07-07
4	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-10-15
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IAT REVIEW	2015-05-01
No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Type
CONDO - EQUIPMENT SCHEDULES #2

Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

Scale: 1 : 1
Drawn by: S.J
Checked by: Checker
Project No: 8489D
Date: 02/04/14
Drawing No: ME-12

Plot Date: 12/11/2015 2:56:51 PM File Path: C:\Users\Tim_L\Documents\SABRO - Aquavista - 8DP_Tim_L.rvt