Addendum

MCW Consultants Ltd.

Date: Jan. 26, 2016

Queen's Quay Terminal
207 Queen's Quay West, Suite 615
Toronto, Ontario M5J 1A7

Phone (416) 598-2920
Fax (416) 598-5394
www.mcw.com

Project Name: AQUAVISTA - Bayside
Client: TRIDEL Corporation
To: TRIDEL Corporation
Attention: Chadi Loza
Fax number: -

Project No.: 8489D
ADD No.: E 003
Page No.: 1 of 3 + 36 Attached
Office: Toronto
From: Sunanda Perera
Tao Li

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

In accordance with the drawings and specifications, provide in the tender all costs required to complete the work including items as listed below:

Title: Various Electrical Changes.

Specification:

Spec	Issued	Items
Panel (Condo) P-2COMM P-2EP1RCP2 P-2P1RCPE P-2EP1RCP3 P-2RRCPE P-2P4RCM P-2P1RCME Panel (Artscpae) P-2P1MRAM P-2RRAAM P-2EP1MRAP2 Panel (Park) P-2P1PSL	Yes	Revised panel schedules are issued with this addendum.

Electrical:

Drawing No.	Drawing Issued	Items
E0-01	Yes	• Legend has been updated for the security electric strike. • Add 'addressable module' & 'supervisor contact' symbols as shown.
E0-02	Yes	• Communication room layouts have been updated as shown.

E1-01	Yes	• Add electrical devices to Filtration System Room (P418) as shown. • Relocate sump pump controllers on P4 level as shown. • Add power connections for motorized damper in mechanical room on P4 level as shown. • Add fire alarm speaker/strobe in Mechanical Room (P311) on P3 level as shown.
E1-02	Yes	• Revise and add electrical devices to match architectural layout in CCU room area on P2 level as shown. • Revise electrical devices on retail shower area to match architectural layout on P1 level as shown. • Add power connections for AC units on P1 level as shown.
E2-01A	Yes	• Revise security devices on stair exterior doors as shown.
E2-01B	Yes	• Add remote fire alarm annunciator in commercial elevator lobby as shown. • Revise security devices on stair exterior doors as shown.
E2-14A	Yes	• Revise lighting fixture type in Storage Room (1316) as shown. • Add power connections for motorized damper in mechanical rooms as shown. • Communication room layout has been updated as shown.
E3-01-RC	Yes	• Distribution riser has been updated showing the correct location of panel 'P-2EP1RCP3'.
E4-03	Yes	• Add remote fire alarm annunciator on retail fire alarm raiser as shown.
E4-04	Yes	• Add fire alarm zones as shown.
E4-05	Yes	• Revise communication panel circuit number as shown. • Revise communication riser as shown.
E5-01	Yes	• Park electrical room layout has been updated. • Add emergency lighting battery unit in park electrical room as shown. • Add fire alarm smoke detectors and speaks to east electrical room and commercial room as shown. • Relocate panel 'P-2EP1RCP3' from main electrical room to east electrical room as shown. • Relocate panel 'P-2COMM' from main electrical room to lofty CCU room as shown. • Add new detail drawing for CCU rooms and Beanfiled entrance room as shown.

ME SCHEDULE:

Drawing No.	Drawing Issued	Items
ME-15	Yes	• Update ME schedule as shown. Contractor to coordinate with mechanical drawings for the exact location of the units.

Reason for Issue-Design complete.

End of ADD E-003

PANEL SCHEDULE

120/208 VOLTS

3 PHASE 4 WIRE

100 AMP MAINS

MLO MAIN BREAKER

JOB NUMBER: 8489D

JOB NAME: Aquavista

2P1PSL

DESCRIPTION	# OF REC.	# OF FIXT.	WATT / FIX.	BRKR SIZE	CCT. NO.	LOAD PER PHASE a	LOAD PER PHASE b	LOAD PER PHASE c	CCT. NO.	BRKR SIZE	WATT / FIXT.	# OF FIXT.	# OF REC.	DESCRIPTION
LTG PARKS ELEC RM P2				20	1a				2a	15				REC PARKS ELEC RM P2
				20	3b				4b	20				
				20	5c				6c	20				
				20	7a				8a	20				
				20	9b				10b	20				
				20	11c				12c	20				
				20	13a				14a	20				
				20	15b				16b	20				
				20	17c				18c	20				
				20	19a				20a	20				
				20	21b				22b	20				
				20	23c				24c	20				
				20	25a				26a	20				
				20	27b				28b	20				
				20	29c				30c	20				
				20	31a				32a	20				
				20	33b				34b	20				
				20	35c				36c	20				
									38a	20				

				20	37a				38a	20					
									40b	20					
				20	39b										
									42c	20					
				20	41c										
						0	0	0							
					TOTAL WATT	0									
					TOTAL AMP	0									

PANEL TYPE: TYPE 1 SPRINKLER PROOF

LOCATION: P1 LEVEL

MOUNTING: SURFACE

PANEL SCHEDULE

120/208 VOLTS

3 PHASE 4 WIRE

100 AMP MAINS

MLO MAIN BREAKER

JOB NUMBER: 8489D

JOB NAME: Aquavista

2P1MRAM

DESCRIPTION	# OF REC.	# OF FIXT.	WATT / FIX.	BRKR SIZE	CCT. NO.	LOAD PER PHASE a	LOAD PER PHASE b	LOAD PER PHASE c
Exhaust Fan EFA-04,05				15	1a	0		
						500		
Exhaust Fan EFA-06,07				15	3b		0	
							500	
Entance Heater EHA-01,02				15	5c			0
								690
Entance Heater EHA-03,04				15	7a	1160		
						690		
Unit Heater UHA-06				15	9b		1160	
							230	
Unit Heater UHA-07				15	11c			1160
								230
SPARE				20	13a	200		
SPARE				20	15b		400	
					17c			
					19a			
					21b			
					23c			
					25a			
					27b			
					29c			
					31a			
					33b			
					35c			
					37a			
					39b			

CCT. NO.	BRKR SIZE	WATT / FIXT.	# OF FIXT.	# OF REC.	DESCRIPTION
2a	15				For Metering
4b					
6c					
8a	15				VFCA-01 OFFICE L1M
10b	15				VFCA-02 OFFICE L1M
12c	15				VFCA-03 OFFICE L1M
14a	15				AUTO FAUCET B.F. W.C. LEVEL 1M
16b	15	100		4	MOTORIZED DAMPER BOILER/CHILLER RM P4
18c	15				Spare
20a	15				Spare
22b	15				Spare
24c					
26a					
28b					
30c					
32a					
34b					
36c					
38a					
40b					
42c					

					41c				42c					
						2550	2290	2080						
					TOTAL WATT	6920								
					TOTAL AMP	19								

PANEL TYPE: TYPE1-SPRINKLER PROOF

LOCATION: LEVEL P1MEZZNINE

MOUNTING: SURFACE

PANEL SCHEDULE

120/208 VOLTS

3 PHASE 4 WIRE

100 AMP MAINS

MLO MAIN BREAKER

JOB NUMBER: 8489D

JOB NAME: Aquavista

2RRAAM

DESCRIPTION	# OF REC.	# OF FIXT.	WATT / FIX.	BRKR SIZE	CCT. NO.	LOAD PER PHASE a	LOAD PER PHASE b	LOAD PER PHASE c
ENERGY RECOVERY UNIT ERVA-E				15	1a	0		
						660		
ENERGY RECOVERY UNIT ERVA-F				15	3b		0	
							660	
Chimney Vent Exhaust Fan VENTA-01				15	5c			0
								350
Chimney Vent Exhaust Fan VENTA-02				15	7a	500		
						350		
Exhaust Fan EFA-09				15	9b			
							300	
Unit Heater UHA-08,09				15	11c			
								460
Unit Heater UHA-10				15	13a			
						230		
AUTO FAUCET UNIVETSAL W/C L13				15	15b			
							200	
					17c			
					19a			
					21b			
					23c			
					25a			
					27b			
					29c			
					31a			
					33b			
					35c			
					37a			
					39b			

CCT. NO.	BRKR SIZE	WATT / FIXT.	# OF FIXT.	# OF REC.	DESCRIPTION
2a	15				For Metering
4b					
6c					
8a	15	100		5	MOTORIZED DAMPER MECH RM L13
10b	20				Spare
12c	20				Spare
14a	15				Spare
16b	15				Spare
18c					
20a					
22b					
24c					
26a					
28b					
30c					
32a					
34b					
36c					
38a					
40b					
42c					

					41c				42c					
						1740	1160	810						
					TOTAL WATT	3710								
					TOTAL AMP	10								

PANEL TYPE: TYPE1-SPRINKLER PROOF

LOCATION: PENTHOUSE

MOUNTING: SURFACE

PANEL SCHEDULE

120/208 VOLTS

3 PHASE 4 WIRE

100 AMP MAINS

MAIN BREAKER

JOB NUMBER: 8489D

JOB NAME: Aquavista

2EP1MRAP2

DESCRIPTION	# OF REC.	# OF FIXT.	WATT / FIX.	BRKR SIZE	CCT. NO.	LOAD PER PHASE a	LOAD PER PHASE b	LOAD PER PHASE c
O/H DOOR GARAGE P2				20	1a	180		
						500		
					3b		180	
							500	
					5c			180
								500
DOOR OPENER L1	2		500	15	7a	180		
						1000		
REC COMM PANEL	2		180	15	9b		180	
							360	
REC COMM PANEL	1		180	15	11c			180
								180
REC COMM PANEL P1M ELEC RM				20	13a	180		
						0		
REC COMM PANEL P1M ELEC RM				20	15b		180	
							0	
REC COMM PANEL	1		180	15	17c			200
								180
SPARE				20	19a	180		
						0		
SPARE				20	21b		180	
							0	
SPARE				15	23c			0
								0
SPARE				15	25a			
					27b			
					29c			
					31a			
					33b			
					35c			
					37a			
					39b			

CCT. NO.	BRKR SIZE	WATT / FIXT.	# OF FIXT.	# OF REC.	DESCRIPTION
2a	15	180		1	REC SECURITY DESK L1M
4b	15	180		1	REC SECURITY DESK L1M
6c	15	180		1	REC SECURITY DESK L1M
8a	15	180		1	REC SECURITY DESK L1M
10b	15	180		1	REC SECURITY DESK L1M
12c	15	180		1	REC SECURITY DESK L1M
14a	15	180		1	REC SECURITY DESK L1M
16b	15	180		1	REC SECURITY DESK L1M
18c	15	200		1	PWR ENTER PHONE
20a	20	180		1	REC SECURITY PANEL P1M ELEC RM
22b	20	180		1	REC SECURITY PANEL P1M ELEC RM
24c	20				SPARE
26a	20				SPARE
28b	15				SPARE
30c	15				SPARE
32a	15				For Metering
34b					
36c					
38a					
40b					
42c					

					41c				42c					
						2220	1580	1420						
					TOTAL WATT	5220								
					TOTAL AMP	14								

PANEL TYPE: TYPE1-SPRINKLER PROOF

LOCATION: LEVEL P1MEZZNINE

MOUNTING: SURFACE

PANEL SCHEDULE

120/208 VOLTS

3 PHASE 4 WIRE

100 AMP MAINS

MLO MAIN BREAKER

JOB NUMBER: 8489D

JOB NAME: Aquavista

2COMM

DESCRIPTION	# OF REC.	# OF FIXT.	WATT / FIX.	BRKR SIZE	CCT. NO.	LOAD PER PHASE a	LOAD PER PHASE b	LOAD PER PHASE c
REC LOFTY CCU ROOM P2				15	1a	0		
SPARE				20	3b		0	
SPARE				20	5c			0
SPARE				20	7a	0		
SPARE				20	9b		0	
SPARE				20	11c			0
					13a			
					15b			
					17c			
					19a			
					21b			
					23c			
						0	0	0
				TOTAL WATT		0		
				TOTAL AMP		0		

CCT. NO.	BRKR SIZE	WATT / FIXT.	# OF FIXT.	# OF REC.	DESCRIPTION
2a					SPARE
4b					SPARE
6c					SPARE
8a					SPARE
10b					SPARE
12c	15				SPARE
14a	15				SPARE
16b	15				SPARE
18c	15				SPARE
20a	15				For Metering
22b					
24c					

PANEL TYPE: TYPE1-SPRINKLER PROOF

LOCATION: CCU RM

MOUNTING: SURFACE

PANEL SCHEDULE

120/208 VOLTS

3 PHASE 4 WIRE

100 AMP MAINS

MLO MAIN BREAKER

JOB NUMBER: 8489D

JOB NAME: Aquavista

2EP1RCP2

DESCRIPTION	# OF REC.	# OF FIXT.	WATT / FIX.	BRKR SIZE	CCT. NO.	LOAD PER PHASE a	LOAD PER PHASE b	LOAD PER PHASE c
Excess Pressure Pump PC-46				15	1a	180		
						200		
SPARE				15	3b		180	
DOOR OPNER W ENTRANCE VEST L1	2		500	15	5c			180
								1000
SPARE				15	7a	180		
REC SECURITY RM P1	2		180	20	9b		180	
							360	
REC SECURITY RM P1	2		180	20	11c			180
								360
PWR ENTER PHONE CONTROL DETAIL DWG				15	13a	180		
						500		
Low Heating Boiler HBC-01				20	15b			
							1560	
SPARE				15	17c			
SPARE				15	19a			
SPARE				15	21b			
					23c			
					25a			
					27b			
					29c			
					31a			
					33b			
					35c			

CCT. NO.	BRKR SIZE	WATT / FIXT.	# OF FIXT.	# OF REC.	DESCRIPTION
2a	15	180		1	REC CONCIERGE DESK L1
4b	15	180		1	REC CONCIERGE DESK L1
6c	15	180		1	REC CONCIERGE DESK L1
8a	15	180		1	REC CONCIERGE DESK L1
10b	15	180		1	REC CONCIERGE DESK L1
12c	15	180		1	REC CONCIERGE DESK L1
14a	15	180		1	REC CONCIERGE DESK L1
16b	15	180		1	REC CONCIERGE DESK L1
18c	15				For Metering
20a					
22b					
24c	15	180		2	COMM PANEL W CLOSET
26a	15	180		2	COMM PANEL W CLOSET
28b	15	180		2	COMM PANEL W CLOSET
30c	15	180		2	COMM PANEL W CLOSET
32a					
34b					
36c					
38a					

					37a				38a					
									40b					
					39b									
									42c					
					41c									
						1240	2280	1720						
					TOTAL WATT	5240								
					TOTAL AMP	15								

PANEL TYPE: TYPE1-SPRINKLER PROOF

LOCATION: LEVEL P1 MAIN ELEC RM

MOUNTING: SURFACE

PANEL SCHEDULE

120/208 VOLTS

3 PHASE 4 WIRE

200 AMP MAINS

200 MB MAIN BREAKER

JOB NUMBER: 8489D

JOB NAME: Aquavista

Feed Through Panel

2P1RCPE

DESCRIPTION	# OF REC.	# OF FIXT.	WATT / FIX.	BRKR SIZE	CCT. NO.	LOAD PER PHASE a	LOAD PER PHASE b	LOAD PER PHASE c
REC RCE1 CORRIDOR L2~L7	6		180	20	1a	540		
						1080		
REC RCE2 CORRIDOR L2~L7	6		180	20	3b		720	
							1080	
REC RCE3 CORRIDOR L2~L7	6		180	20	5c			720
								1080
REC RCE4 CORRIDOR L2~L7	6		180	20	7a	540		
						1080		
REC RCE5 CORRIDOR L2~L7	6		180	20	9b		1260	
							1080	
REC RCE6 CORRIDOR L2~L7	6		180	20	11c			0
								1080
SPARE				20	13a	720		
						0		
REC RCE2 CORRIDOR L8~L12	2		180	20	15b		360	
							360	
REC RCE3 CORRIDOR L8~L12	5		180	20	17c			900
								900
REC RCE4 CORRIDOR L8~L12	5		180	20	19a	0		
						900		
REC RCE5 CORRIDOR L8~L12	5		180	20	21b		540	
							900	
REC RCE6 CORRIDOR L8~L12	5		180	20	23c			1080
								900
REC RCE7/8 CORRIDOR L10~L12	4		180	20	25a	1080		
						720		
REC RCE9/10 CORRIDOR L2	2		180	20	27b		540	
							360	
SPARE				20	29c			1000
								0
REC E ELEV LOBBY P1 ~ P4	4		180	15	31a	720		
						720		
DOOR OPNER E ELEV LOBBY P1	2		500	15	33b		360	
							1000	
REC ELEC RM P1	2		180	15	35c			540
								360
DOOR OPNER E ELEV LOBBY P2	2		500	15	37a	1000		
						1000		
REC IRRIGATION RM/MECH RM P2	3		180	15	39b		540	
							540	

CCT. NO.	BRKR SIZE	WATT / FIXT.	# OF FIXT.	# OF REC.	DESCRIPTION
2a	15	180		3	REC STAIR B
4b	15	180		4	REC STAIR J
6c	15	180		4	REC STAIR EJ/Jx
8a	15	180		3	REC STAIR C
10b	15	180		7	REC STAIR K/Kx/Ky
12c	15				SPARE
14a	15	180		4	REC ELEV SHAFT / PIT L1 MEZZ
16b	15	180		2	REC ELEV MACH RM L1
18c	20	180		5	REC CORRIDOR L1 MEZZ
20a	15				SPARE
22b	20	180		3	REC SERVICE CORRIDOR L1
24c	15	180		6	REC E GARBAGE RM L1
26a	15	180		6	COMPACTOR CONTROL E GARBAGE RM L1
28b	15	180		3	REC EAST CACF RM L1
30c	15	1000		1	FIRE PLACE EAST MAIN LOBBY L1
32a	20	180		4	REC EAST MAIN LOBBY L1
34b	20	180		2	REC BIKE/DOG WASH RM L1
36c	20	180		3	EF-B JANITOR/LAUNDRY LEVEL 2
38a	15	500		2	DOOR OPNER E ELEV LOBBY P3
40b	15	180		3	REC BICYCLE RM P3
42c	15				SPARE

REC BICYCLE RM P2	4		180	15	41c			0	42c	15				SPARE
								720	44a	15	500		2	DOOR OPNER E ELEV LOBBY P4
SPARE				15	43a	1000								
						0			46b	15	180		5	REC BICYCLE RM P4
REC IRRIGATION CONTROLLER SOUTH OUTSIDE	1		500	15	45b		900							
							500		48c	15	180		6	REC BOILER RM P4
REC IRRIGATION CONTROLLER NORTH OUTSIDE	1		500	15	47c			1080						
								500	50a	15	180		6	REC CHILLER RM P4
REC IRRIGATION CONTROLLER L2 ROOF SOUTH	1		180	15	49a	1080								
						180			52b	15	180		2	REC ELEV #3/#4 PIT P4
O/H DOOR LOADING (CONDO) L1				20	51b		360							
							500		54c	15	180		1	REC ELEV #12 PIT P4
					53c			180						
								500	56a	15	180		3	REC ELEV #12 MACH RM P4
					55a	540								
						500			58b	15	180		1	REC Filtration System Rm P4
CAR WASH P4				15	57b		180							
							1000		60c	15				SPARE
					59c									
								1000	62a	15				SPARE
					61a									
						1000			64b	15				SPARE
DOOR OPNER CORRIDOR (220) L2	1		500	15	63b									
							500		66c	15				For Metering
SPARE				15	65c									
									68a					
REC CONDO CCU RM (P221) LEVEL P2	2		180	15	67a									
						360			70b					
REC CONDO CCU RM (P221) LEVEL P2	2		180	15	69b									
							360		72c	15				METER CONTROL ELEC CLOSET EAST L2
REC CONDO CCU RM (P221) LEVEL P2	2		180	15	71c			200						
								360	74a	15				SPARE
					73a									
									76b					
					75b									
									78c					
					77c									
									80a					
					79a									
									82b					
					81b									
									84c					
					83c									
						14760	13940	13100						

TOTAL WATT 41800

TOTAL AMP 116

PANEL TYPE: TYPE1-SPRINKLER PROOF

LOCATION: LEVEL P1 EAST ELEC RM

MOUNTING: SURFACE

PANEL SCHEDULE

120/208 VOLTS

3 PHASE 4 WIRE

100 AMP MAINS

100N/A MAIN BREAKER

JOB NUMBER: 8489D

JOB NAME: Aquavista

2EP1RCP3

DESCRIPTION	# OF REC.	# OF FIXT.	WATT / FIX.	BRKR SIZE	CCT. NO.	LOAD PER PHASE a	LOAD PER PHASE b	LOAD PER PHASE c
REC SECURITY TV E ENTRANCE VEST L1	500		1	15	1a	500		
						500		
DOOR OPERNER E ENTRANCE VEST L1	500		2	15	3b		500	
							1000	
SPARE				15	5c			500
								0
Low Heating Boiler HBC-01 P4 LEVEL				20	7a	500		
						1560		
SPARE				20	9b		500	
							0	
COMM PANEL E CLOSET	180		2	15	11c			500
								360
COMM PANEL E CLOSET	180		2	15	13a	0		
						360		
COMM PANEL E CLOSET	180		2	15	15b		0	
							360	
BEAMFIELD EQUIP BEANFIELD ENTRANCE ROOM (P222) LEVEL P2				15	17c			0
								0
					19a	360		
						0		
					21b		180	
							0	
REC BEANFIELD ENTRANCE RM (P222) LEVEL P2	180		1	15	23c			2880
								180
REC BEANFIELD ENTRANCE RM (P222) LEVEL P2	180		1	15	25a	180		
						180		
REC BEANFIELD ENTRANCE RM (1323) LEVEL 13	180		2	15	27b		180	
							360	
REC BEANFIELD ENTRANCE RM (1323) LEVEL 13	180		2	15	29c			180
								360
REC LOFTY CCU RM (1323) LEVEL 13	180		2	15	31a			
REC LOFTY CCU RM (1323) LEVEL 13	180		2	15	33b			
					35c			

CCT. NO.	BRKR SIZE	WATT / FIXT.	# OF FIXT.	# OF REC.	DESCRIPTION
2a	20				O/H DOOR GARAGE P2 LEVEL
4b					
6c					
8a	20				O/H DOOR GARAGE L1
10b					
12c					
14a	15				For Metering
16b					
18c					
20a	15	180		2	Metering Pump Filtration System Rm P4
22b	15	180		1	Control Box Filtration System Rm P4
24c	30			1	REC TYPE '5-30R' Filtration System Rm P4
26a	15	180		1	REC Filtration System Rm P4
28b	15	180		1	COMM PANEL N/E CLOSET
30c	15	180		1	COMM PANEL N/E CLOSET
32a	15	180		1	COMM PANEL N/E CLOSET
34b	15	180		1	COMM PANEL N/E CLOSET
36c					
38a					

SPARE				20	37a				38a					
SPARE				20	39b				40b					
SPARE				20	41c				42c					

	4140	3080	4960
TOTAL WATT	12180		
TOTAL AMP	34		

PANEL TYPE: TYPE1-SPRINKLER PROOF

LOCATION: LEVEL P1 EAST ELEC RM

MOUNTING: SURFACE

PANEL SCHEDULE

120/208 VOLTS

3 PHASE 4 WIRE

125 AMP MAINS

MLO MAIN BREAKER

JOB NUMBER: 8489D

JOB NAME: Aquavista

2RRCPE

DESCRIPTION	# OF REC.	# OF FIXT.	WATT / FIX.	BRKR SIZE	CCT. NO.	LOAD PER PHASE a	LOAD PER PHASE b	LOAD PER PHASE c
Chimney Exhaust Fan VENTC-02				15	1a	900		
						350		
Chimney Exhaust Fan VENTC-02				15	3b		1080	
							350	
Hot Water Unit Heater UHC-14, UHC-17				20	5c			720
								480
Hot Water Unit Heater UHC-15, UHC-16				20	7a	360		
						480		
SPARE				20	9b		180	
SPARE				20	11c			0
REC WINDOW WASHING ROOF (E)				30	13a	180		
						480		
					15b		180	
REC WINDOW WASHING ROOF (E)				15	17c			360
REC WINDOW WASHING ROOF (E) /L13				30	19a	0		
					21b		0	
REC WINDOW WASHING ROOF (E) /L13				15	23c			0
REC WINDOW WASHING L7				30	25a	0		
					27b		0	
REC WINDOW WASHING L7				15	29c			180
MOTORIZED DAMPER MECH ROOM L13				15	31a	180		
ACUC-17 ROOF				15	33b		360	
							960	
					35c			360
								960

CCT. NO.	BRKR SIZE	WATT / FIXT.	# OF FIXT.	# OF REC.	DESCRIPTION
2a	15	180		5	REC MECH RM (1316) L13
4b	15	180		6	REC GEN RM L13
6c	15	180		4	REC ELEV MACH RM L13
8a	15	180		2	REC ELEV SHAFT L13
10b	20	180		1	REC COOLING TOWER L13
12c	15				SPARE
14a	20	180		1	REC ROOF L14
16b	15	180		1	REC (IRRIGATION) ROOF L13
18c	15	180		2	REC (IRRIGATION) ROOF L11/L7
20a	15				SPARE
22b	15				SPARE
24c	15				For Metering
26a					
28b					
30c	15	180		1	REC MECH RM (1316) L13
32a	15	180		1	REC MECH RM (1316) L13
34b	20	180		2	REC CONDO CCU RM L13
36c	20	180		2	REC CONDO CCU RM L13
38a	20	180		2	REC CONDO CCU RM

ACUC-18 ROOF				15	37a	360			38a	20	100		2	CONDO CCU RM L13
						960			40b					
					39b		960		42c					
ACUC-19 ROOF				15	41c			960	44a					
					43a	960			46b					
					45b				48c					
					47c				50a					
					49a				52b					
					51b				54c					
					53c				56a					
					55a				58b					
					57b				60c					
					59c									
						5210	4070	4020						

TOTAL WATT 13300

TOTAL AMP 37

PANEL TYPE: TYPE1 SPRINKLER PROOF

LOCATION: MECH PENTHOUSE-EAST

MOUNTING: SURFACE

PANEL SCHEDULE

120/208 VOLTS

3 PHASE 4 WIRE

125 AMP MAINS

MLO MAIN BREAKER

JOB NUMBER: 8489D

JOB NAME: Aquavista

2P4RCM

DESCRIPTION	# OF REC.	# OF FIXT.	WATT / FIX.	BRKR SIZE	CCT. NO.	LOAD PER PHASE a	LOAD PER PHASE b	LOAD PER PHASE c
Low Heating Boiler HBC-02				20	1a	1560		
Low Heating Boiler HBC-03				20	3b		1560	
Low Heating Boiler HBC-04				20	5c			1560
Low Heating Boiler HBC-05				20	7a	1560		
Low Heating Boiler HBC-06				20	9b		400	
Low Heating Boiler HBC-07				20	11c		1560	400
Exhaust Fan 09,11				20	13a	320		1560
Exhaust Fan 12,13,14				20	15b		550	
Exhaust Fan 15, 16				20	17c			220
Exhaust Fan 17,18				20	19a	220		
Exhaust Fan 19,20,21				20	21b			
Force Flow Cabinet Heater EHC-01,02				20	23c			690
Force Flow Cabinet Heater EHC-03,04				20	25a	690		
Hot Water Unit Heater UHC-01, UHC-02				20	27b		480	
Hot Water Unit Heater UHC-03, UHC-04				20	29c			480
Air Cooled Condenser Unit ACUC-07				15	31a	1080		
					33b		1080	
Unitary DX Unit				15	35c			240

CCT. NO.	BRKR SIZE	WATT / FIXT.	# OF FIXT.	# OF REC.	DESCRIPTION
2a	15				For Metering
4b					
6c					
8a	20				Low Heating Boiler HBC-08
10b	15	100		4	MOTORIZED DAMPER CHILLER ROOM P4
12c	15	100		4	MOTORIZED DAMPER BOILER ROOM P4
14a	20				Spare
16b	15				Spare
18c	15				Spare
20a					
22b					
24c					
26a					
28b					
30c					
32a					
34b					
36c					
38a					

ACC-07				13	37a				38a					
						240			40b					
					39b									
					41c				42c					
						5670	5630	5150						

TOTAL WATT 16450

TOTAL AMP 46

PANEL TYPE: NEMA TYPE 3

LOCATION: LEVEL 1 MEZZ

MOUNTING: SURFACE

PANEL SCHEDULE

120/208 VOLTS

3 PHASE 4 WIRE

125 AMP MAINS

MLO MAIN BREAKER

JOB NUMBER: 8489D

JOB NAME: Aquavista

2P1RCME

DESCRIPTION	# OF REC.	# OF FIXT.	WATT / FIX.	BRKR SIZE	CCT. NO.	LOAD PER PHASE a	LOAD PER PHASE b	LOAD PER PHASE c	CCT. NO.	BRKR SIZE	WATT / FIXT.	# OF FIXT.	# OF REC.	DESCRIPTION
Exhaust Fan 22,23,24				20	1a	540			2a	15				For Metering
Exhaust Fan 25,26,27				20	3b		360		4b					
Exhaust Fan 30				20	5c			300	6c					
Exhaust Fan 34,35				20	7a	1716			8a	20				Air Cooled Condenser Unit ACUC-11
Exhaust Fan 36				20	9b	600	1716		10b					
Force Flow Cabinet Heater EHC-09, EHC-10				20	11c		300	1716	12c	20				Air Cooled Condenser Unit ACUC-12
Force Flow Cabinet Heater EHC-11				20	13a	1716		690	14a					
Force Flow Cabinet Heater EHC-13,16				20	15b	345	936		16b	15				Air Cooled Condenser Unit ACUC-13
Force Flow Cabinet Heater EHC-17, EHC-18				20	17c		345	936	18c					
Force Flow Cabinet Heater EHC-20				20	19a	135.2		345	20a	15				Unitary DX Unit ACC-11
Force Flow Cabinet Heater EHC-21				20	21b	345	135.2		22b					
Hot Water Unit Heater UHC-05, UHC-06				20	23c		345	135.2	24c	15				Unitary DX Unit ACC-12
Hot Water Unit Heater UHC-09				20	25a	135.2		480	26a					
Hot Water Unit Heater UHC-10, UHC-11				20	27b	240	104		28b	15				Unitary DX Unit ACC-13
ACUC-14 P2				15	29c		480	104	30c					
					31a			960	32a	15				Spare
ACUC-15				15	33b	960			34b	15				Spare
									36c	15				Spare

P2				15	35c				36c	15				Spare
								960	38a	15				Spare
ACUC-16 P2				15	37a	960			40b					
					39b		960		42c					
					41c				44a					
					43a				46b					
					45b				48c					
					47c				50a					
					49a				52b					
					51b				54c					
					53c				56a					
					55a				58b					
					57b				60c					
					59c									
						7692.4	6641.2	6626.2						

TOTAL WATT 20960

TOTAL AMP 58

PANEL TYPE: TYPE1-SPRINKLER PROOF

LOCATION: P1

MOUNTING: SURFACE

MCW Consultants Ltd.

GENERAL POWER

- 15A, U-GROUND SINGLE RECEPTACLE
- 15A, U-GROUND DUPLEX RECEPTACLE
- (5-20R) T-SLOT U-GROUND DUPLEX RECEPTACLE
- 15A, U-GROUND SINGLE OR DUPLEX RECEPTACLE - MOUNTED ABOVE COUNTER
- 15A, U-GROUND SINGLE INSULATED/ISOLATED GROUND RECEPTACLE - STANDARD MOUNTING HEIGHT OR MOUNTED ABOVE COUNTER
- 15A, U-GROUND DUPLEX INSULATED/ISOLATED GROUND RECEPTACLE - STANDARD MOUNTING HEIGHT OR MOUNTED ABOVE COUNTER
- (5-20R) T-SLOT U-GROUND DUPLEX INSULATED/ISOLATED GROUND RECEPTACLE - STANDARD MOUNTING HEIGHT OR MOUNTED ABOVE COUNTER
- 30A — 120/208V/1□/30 AMP DRYER OUTLET
- 40A — 120/208V/1□/40 AMP RANGE OUTLET
- 20A 'A' — SINGLE SPECIAL RECEPTACLE - AMPACITY AS INDICATED, TYPE 'A' AS SPECIFIED
- 15A, U-GROUND SPLIT WIRED DUPLEX RECEPTACLE - STANDARD MOUNTING HEIGHT OR MOUNTED ABOVE COUNTER
- 15A, U-GROUND HALF SWITCHED DUPLEX RECEPTACLE - STANDARD MOUNTING HEIGHT OR MOUNTED ABOVE COUNTER (CONTROLLED BY SWITCH)
- 15A, U-GROUND DUPLEX RECEPTACLE C/W GROUND FAULT CIRCUIT INTERRUPTER - STANDARD MOUNTING HEIGHT OR MOUNTED ABOVE COUNTER
- (5-20R) T-SLOT U-GROUND DUPLEX RECEPTACLE C/W GROUND FAULT CIRCUIT INTERRUPTER
- 15A, U-GROUND SINGLE RECEPTACLE - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE
- 15A, U-GROUND DUPLEX RECEPTACLE - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE
- (5-20R) T-SLOT U-GROUND DUPLEX RECEPTACLE - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE
- 15A, U-GROUND SINGLE OR DUPLEX INSULATED/ISOLATED GROUND RECEPTACLE - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE
- (5-20R) T-SLOT U-GROUND SINGLE OR DUPLEX INSULATED/ISOLATED GROUND RECEPTACLE - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE
- 15A, U-GROUND SPLIT WIRED DUPLEX RECEPTACLE - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE
- 15A, U-GROUND DUPLEX RECEPTACLE C/W GROUND FAULT CIRCUIT INTERRUPTER - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE
- (5-20R) T-SLOT U-GROUND DUPLEX RECEPTACLE C/W GROUND FAULT CIRCUIT INTERRUPTER - FLUSH FLOOR MOUNTED UNLESS NOTED OTHERWISE
- 15A, U-GROUND SINGLE RECEPTACLE - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- 15A, U-GROUND DUPLEX RECEPTACLE - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- (5-20R) T-SLOT U-GROUND DUPLEX RECEPTACLE - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- 15A, U-GROUND SINGLE OR DUPLEX INSULATED/ISOLATED GROUND RECEPTACLE - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- (5-20R) T-SLOT U-GROUND DUPLEX INSULATED/ISOLATED GROUND RECEPTACLE - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- 15A, U-GROUND SPLIT WIRED DUPLEX RECEPTACLE - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- 15A, U-GROUND DUPLEX RECEPTACLE C/W GROUND FAULT CIRCUIT INTERRUPTER - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- (5-20R) T-SLOT U-GROUND DUPLEX RECEPTACLE C/W GROUND FAULT CIRCUIT INTERRUPTER - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE

KITCHEN APPLIANCES

- D — 15A, 120V-1Ø DUPLEX RECEPTACLE FOR DISHWASHER, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS
- F — 15A, 120V-1Ø DUPLEX RECEPTACLE FOR FRIDGE, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS
- U/F — 15A, 120V-1Ø DUPLEX RECEPTACLE FOR UNDER-COUNTER FRIDGE, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS
- H — 15A, 120V-1Ø DUPLEX RECEPTACL EFOR KITCHEN HOOD, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS
- X — 30A, 120/208V-1Ø(14-30R) RECEPTACLE FOR DRYER, LOCATED ON INTERIOR DESIGN DRAWINGS
- W — 15A, 120V-1Ø DUPLEX RECEPTACLE FOR WASHER, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS
- W/D — 15A, 120V-1Ø DUPLEX RECEPTACLE FOR WASHER, AND 30A, 120/208V-1Ø(14-30R) RECEPTACLE FOR DRYER. LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS
- S — 50A, 120V/208V-1Ø (14-50R) RECEPTACLE FOR STOVE, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS
- M — 20A, 120V-1Ø DUPLEX RECEPTACLE FOR MICROWAVE, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS
- O — 20A, 120V/208V-1Ø DIRECT CONNECTION FOR BUILD-IN OVEN, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS
- E — 15A, 120V/208V-1Ø DUPLEX RECEPTACLE FOR EXHAUST FAN, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS
- CT — 40A, 120V/208V-1Ø DIRECT CONNECTION FOR BUILT IN COOKTOP, LOCATED AS SHOWN ON INTERIOR DESIGN DRAWINGS

LIGHTING

- A — LINEAR FLUORESCENT LUMINAIRE, TYPE `A' AS SPECIFIED. HATCHING DENOTES CONNECTED TO EMERGENCY/NIGHT LIGHTING CIRCUIT
- A — CEILING MOUNTED LUMINAIRE, TYPE `A' AS SPECIFIED
- A — WALL MOUNTED LUMINAIRE, TYPE `A' AS SPECIFIED
- H1 — POLE MOUNTED LUMINAIRE, TYPE `H1' AS SPECIFIED
- DOUBLE SURFACE MOUNTED EMERGENCY LIGHTING REMOTE HEADS, TYPE 'BU-1' INDICATES BATTERY BANK FED FROM
- CEILING MOUNTED EMERGENCY LIGHTING REMOTE HEAD
- BU-1 — EMERGENCY LIGHTING BATTERY UNIT C/W DUPLEX RECEPTACLE AND DOUBLE REMOTE HEADS. TYPE 'BU-1' AS SPECIFIED.
- BU-1 — WALL MOUNTED DOUBLE FACED EXIT LIGHT AND DIRECTIONAL ARROWS AS INDICATED. SHADED AREAS DENOTE DIRECTION OF FACE OF EXIT SIGN. 'BU-1' INDICATES BATTERY UNIT FED FROM.
- WALL MOUNTED SINGLE FACED EXIT LIGHT AND DIRECTIONAL ARROWS AS INDICATED. SHADED AREAS DENOTE DIRECTION OF FACE OF EXIT SIGN.
- CEILING MOUNTED DOUBLE FACED EXIT LIGHT AND DIRECTIONAL ARROWS AS INDICATED. SHADED AREAS DENOTE DIRECTION OF FACE OF EXIT SIGN.
- CEILING MOUNTED SINGLE FACED EXIT LIGHT AND DIRECTIONAL ARROWS AS INDICATED. SHADED AREAS DENOTE DIRECTION OF FACE OF EXIT SIGN.
- CEILING MOUNTED DOUBLE FACED EXIT LIGHT AND DIRECTIONAL ARROWS AS INDICATED. SHADED AREAS DENOTE DIRECTION OF FACE OF EXIT SIGN. TWO EXIT SIGNS TO BE PROVIDED WHERE BI-DIRECTIONAL IS SHOWN ON THE LAYOUT.

OCCUPANCY SENSOR SCHEDULE

SYMBOL	MANUFACTURER MODEL No.	DESCRIPTION
\$ 1	WATT STOPPER DW 100	WALL SWITCH OCCUPANCY SENSOR WITH MANUAL ON/OFF AND DAYLIGHT SENSOR ON/OFF
\$ 2	WATT STOPPER PW 100	WALL SWITCH OCCUPANCY SENSOR WITH MANUAL ON/OFF OVER RIDE
\$ 3	WATT STOPPER PW 103	WALL SWITCH OCCUPANCY SENSOR WITH MANUAL ON/OFF OVER RIDE. 3-WAY.
OS 3	WATT STOPPER W2000 H	ULTRA SONIC CEILING SENSOR WITH 90' LINEAR COVERAGE
OS 4	WATT STOPPER LMDC-100	DIGITAL DUAL TECHNOLOGY CEILING SENSOR WITH 1000 SQ. FT. COVERAGE
OS 5	WATT STOPPER LIT-355-2	CEILING MOUNTED ULTRASONIC SENSOR WITH 1000 SQ. FT. COVERAGE
OS 6	WATT STOPPER DT-355	CEILING MOUNTED DUAL TECHNOLOGY SENSOR WITH 1000 SQ. FT. COVERAGE
OS P1	WATT STOPPER CB-105-1	PIR OCCUPANCY SENSOR FOR COLD TEMPERATURE WITH 90' DIRECTIONAL LINEAR COVERAGE. PROVIDE POWER PACK(S) AS REQUIRED.
OS 7	WATT STOPPER CX-105	CORNER MOUNTED PASSIVE INFRARED SENSOR C/W POWER PACK
DL	LEVITON ODC05-MDW	CEILING MOUNTED INTEGRATED OCCUPANCY SENSOR, POWER BACK, AND PHOTOCELL IN SELF CONTAINED UNIT.
TS	WATT STOPPER TS 400	DIGITAL TIME-SWITCH WITH PRE-SET ON/OFF OPERATION
\$ LV	WATT STOPPER HDLS4SS	LOW VOLTAGE MASTER SWITCH TO CONTROL CORRIDORS, OFFICES AND OPEN OFFICE AREAS

LIGHTING CONTROL

- \$\$\$\$ — ONE, TWO, THREE AND FOUR GANG SINGLE POLE TOGGLE SWITCHES
- 3-WAY SWITCH
- 4-WAY SWITCH
- K — KEY OPERATED LIGHT SWITCH
- P — TOGGLE SWITCH C/W RED PILOT LIGHT
- D — DOOR LIGHT SWITCH
- A — SWITCH MOUNTED OCCUPANCY SENSOR, TYPE 'A' AS SPECIFIED
- F — FAN CONTROL SWITCH
- FV — VARIABLE SPEED FAN CONTROL SWITCH
- T — MANUAL TIMER SWITCH
- M — MASTER SWITCH
- A D — DIMMER SWITCH, TYPE 'A' AS SPECIFIED
- TC — PROGRAMMABLE TIME CLOCK, TYPE 'A' AS SPECIFIED
- OS — CEILING MOUNTED OCCUPANCY SENSOR, TYPE 'A' AS SPECIFIED
- PE — PHOTO ELECTRIC CONTROL
- LV — LOW VOLTAGE RELAY
- LV A — LOW VOLTAGE RELAY PANEL, TYPE 'A' AS SPECIFIED
- LV01 — LOW VOLTAGE CONTROL STATION, TYPE 'LV01' AS SPECIFIED
- LVM — LOW VOLTAGE CONTROL SYSTEM MASTER STATION

EQUIPMENT CONNECTIONS AND CONTROLS

- DIRECT CONNECTION - 120 OR 208V AS SPECIFIED
- DIRECT CONNECTION - 347 OR 600V AS SPECIFIED
- DIRECT CONNECTION - 120 OR 208V C/W UNFUSED DISCONNECT SWITCH AS SPECIFIED
- DIRECT CONNECTION - 347 OR 600V C/W UNFUSED DISCONNECT SWITCH AS SPECIFIED
- DIRECT CONNECTION - 120 OR 208V C/W FUSED DISCONNECT SWITCH AS SPECIFIED
- DIRECT CONNECTION - 347 OR 600V C/W FUSED DISCONNECT SWITCH AS SPECIFIED
- C F W — MODULAR FURNITURE WHIP CONNECTION 'C' - DENOTES CEILING 'F' - DENOTES FLOOR 'W' - DENOTES WALL
- MOTOR CONNECTION AS SPECIFIED
- MOTOR CONNECTION C/W UNFUSED DISCONNECT SWITCH
- MOTOR CONNECTION C/W FUSED DISCONNECT SWITCH
- MOTOR CONNECTION C/W LOOSE STARTER
- MOTOR STARTER AS SPECIFIED
- UNFUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- H — HAIR DRYER
- HD — HAND DRYER
- C — CONTACTOR - SIZE AND NUMBER OF POLES AS SPECIFIED
- R — RELAY
- T — THERMOSTAT PROVIDED AND WIRED BY ELECTRICAL
- T — THERMOSTAT PROVIDED BY MECHANICAL AND WIRED BY ELECTRICAL
- CARBON MONOXIDE DETECTOR SUPPLIED AND INSTALLED BY MECHANICAL. ROUGH-IN BY ELECTRICAL
- MASTER CLOCK CONTROL PANEL
- CLOCK HANGER OUTLET C/W CLOCK
- CLOCK HANGER OUTLET ONLY
- POWER ACTIVATED DOOR EXIT BUTTON SUPPLIED BY DOOR HARDWARE SUPPLIER, WIRED BY ELECTRICAL
- RECESSED MOUNTED - CARBON MONOXIDE CONTROL PANEL
- SURFACE MOUNTED - CARBON MONOXIDE CONTROL PANEL
- SP — RECESSED MOUNTED ELECTRICAL PANEL - 'SP' DENOTES SUITE PANEL
- SP — SURFACE MOUNTED ELECTRICAL PANEL - 'SP' DENOTES SUITE PANEL
- CO — CARBON MONOXIDE DETECTOR TO BE SUPPLIED, INSTALLED AND WIRED BY DIV. 15. THIS CONTRACTOR SHALL RUN A 20mmØ EC FROM DETECTOR TO CORRESPONDING CARBON MONOXIDE DETECTION CONTROL PANEL. VERIFY EXACT LOCATIONS WITH DIV. 15 PRIOR TO ROUGH-IN. MOUT DEVICES AT APPROXIMATELY 2700mm A.F.F ON WALL OR COLUMN.

POWER DISTRIBUTION

- POWER TRANSFORMER
- POWER TRANSFORMER C/W ELECTROSTATIC SHIELD
- CURRENT CONTROL TRANSFORMER
- INCOMING POWER INTERRUPTER SWITCH
- DISCONNECT SWITCH
- MOLDED CASE CIRCUIT BREAKER
- DRAW OUT AIR CIRCUIT BREAKER
- FIXED AIR CIRCUIT BREAKER
- FUSE
- INCOMING POWER INTERRUPTER SWITCH
- M — KW/HR METER
- DM — DIGITAL METERING SYSTEM
- BUS DUCT
- IBP — AUTOMATIC TRANSFER SWITCH - 'IBP'-DENOTES ISOLATION BYPASS SWITCH
- S — EMERGENCY GENERATOR
- INV — EMERGENCY LIGHTING INVERTER
- UPS — UNINTERRUPTABLE POWER SUPPLY

FIRE ALARM SYSTEM

- PULL STATION
- FLUSH MOUNTED BELL
- HS — FLUSH MOUNTED HORN - 'HS' DENOTES HORN STROBE COMBINATION
- DOUBLE HORN - CEILING OR WALL MOUNTED
- SUITE ISOLATOR MODULE
- STROBE - WALL OR CEILING MOUNTED
- FLUSH MOUNTED SPEAKER - WALL OR CEILING MOUNTED
- SURFACE MOUNTED SPEAKER - WALL OR CEILING MOUNTED
- FLUSH MOUNTED SPEAKER WITH STROBE - WALL OR CEILING MOUNTED
- SURFACE MOUNTED SPEAKER WITH STROBE - WALL OR CEILING MOUNTED
- FIREMEN HANDSET
- FIRE ALARM SYSTEM SPEAKER SILENCE SWITCH
- AUTOMATIC COMBINATION FIXED TEMPERATURE/RATE OF RISE HEAT DETECTOR - WALL OR CEILING MOUNTED
- AUTOMATIC FIXED TEMPERATURE HEAT DETECTOR - WALL OR CEILING MOUNTED
- SMOKE DETECTOR - WALL OR CEILING MOUNTED
- DM — DUCT TYPE SMOKE DETECTOR WITH REMOTE ANNUNCIATION
- SINGLE STATION TYPE SMOKE ALARM C/W RED INDICATION LIGHT - WALL OR CEILING MOUNTED
- SINGLE STATION TYPE SMOKE ALARM & STROBE C/W RED INDICATION LIGHT - WALL OR CEILING MOUNTED
- SINGLE STATION TYPE SMOKE ALARM/CARBON MONOXIDE DETECTOR C/W RED INDICATION LIGHT - WALL OR CEILING MOUNTED
- CARBON MONOXIDE DETECTOR - WALL OR CEILING MOUNTED
- SPRINKLER SYSTEM FLOW OR PRESSURE SWITCH BY MECHANICAL AND WIRED BY ELECTRICAL. COORDINATE/CONFIRM EXACT LOCATIONS AND QUANTITIES WITH MECHANICAL DRAWINGS
- SPRINKLER SYSTEM OR STANDPIPE SUPERVISED VALVE BY MECHANICAL AND WIRED BY ELECTRICAL. COORDINATE/CONFIRM EXACT LOCATIONS AND QUANTITIES WITH MECHANICAL DRAWINGS
- SOLENOID VALVE BY MECHANICAL AND WIRED BY ELECTRICAL. COORDINATE/CONFIRM EXACT LOCATIONS AND QUANTITIES WITH MECHANICAL DRAWINGS
- DH — DOOR HOLDER
- D — MOTORIZED DAMPER BY MECHANICAL AND WIRED BY ELECTRICAL COORDINATE/CONFIRM EXACT LOCATIONS AND QUANTITIES WITH MECHANICAL DRAWINGS
- FP — RECESSED MOUNTED - FIRE ALARM CONTROL PANEL
- FP — SURFACE MOUNTED - FIRE ALARM CONTROL PANEL
- FAA — RECESSED MOUNTED - FIRE ALARM ANNUNCIATOR PANEL
- FAA — SURFACE MOUNTED - FIRE ALARM ANNUNCIATOR PANEL
- FME — RECESSED MOUNTED - CENTRAL MONITORING AND EVACUATION FACILITIES
- FME — SURFACE MOUNTED - CENTRAL MONITORING AND EVACUATION FACILITIES
- END OF LINE RESISTOR
- REMOTE TROUBLE SIGNAL
- AM — ADDRESSABLE MODULE (2)
- SC — SUPERVISOR CONTACT

ELECTRICAL CAR CHARGING STATION

- EV1 — PROVIDE SINGLE GANG BOX, 20mmØC CONDUIT AND 20A, 120V-1Ø (5-20R) RECEPTACLE FOR 'TYPE 1' ELECTRICAL CAR CHARGE STATION. LOCATED AS SHOWN ON FLOOR PLANS.
- EV2 — PROVIDE TWO GANG BOX, 25mmØC CONDUIT AND 50A, 208V-1Ø (5-60R) RECEPTACLE FOR 'TYPE 2' ELECTRICAL CAR CHARGE STATION. LOCATED AS SHOWN ON FLOOR PLANS.
- EVI — PROVIDE SINGLE GANG BOX, 20mmØC CONDUIT AND BLANK COVER FOR 'TYPE 1' ELECTRICAL CAR CHARGE STATION ROUGH-IN. LOCATED AS SHOWN ON FLOOR PLANS.
- EVR — PROVIDE TWO GANG BOX, 25mmØC CONDUIT AND 20A, 120V-1Ø (5-20R) RECEPTACLE FOR 'TYPE 1' MODIFIED TO ACCOMMODATE 'TYPE 2' ELECTRICAL CAR CHARGE STATION IN FUTURE. LOCATED AS SHOWN ON FLOOR PLANS.

SECURITY AND ACCESS SYSTEMS

- CP — SECURITY SYSTEM CONTROL PANEL
- KP — KEY PAD
- CR — CARD READER
- IR — INFRA RED READER
- EB — REQUEST TO EXIT BUTTON
- EM — EGRESS MOTION DETECTOR
- DC — DOOR CONTACT
- PC — PATIO DOOR CONTACT
- WC — WINDOW CONTACT
- OD — OVERHEAD DOOR CONTACT
- PL — POWER LOCK
- ES — ELECTRIC STRIKE C/W DOOR CONTACT, AUDIBLE ALARM AND EGRESS MOTION DETECTOR (2)
- AA — AUDIBLE ALARM
- MD — MOTION DETECTOR
- GD — GLASS BREAK DETECTOR
- AD — AUTOMATIC DOOR OPENER
- PTZ C — CLOSED CIRCUIT CAMERA 'B' - DENOTES BOX ENCLOSURE 'E' - DENOTES ELEVATOR CORNER MOUNT 'P' - DENOTES PEDESTAL MOUNT 'PTZ' - DENOTES PAN TILT ZOOM 'W' - WEDGE ENCLOSURE
- M — SECURITY SYSTEM MONITOR
- ML — MAGLOCK DEVICE
- MAGLOCK RESET SWITCH
- KS — KEY SWITCH
- CB — CODE BLUE SPEAKER PHONE
- CB — CODE BLUE INTEGRATED UNIT C/W ACCESSORIES, POLE OR PEDESTAL MOUNTED
- S — ALARM SOUNDER
- PA — PANIC ALARM
- SA — SECURITY ALARM CONTACT FOR MECHANICAL EQUIPMENT
- SR — SECURITY DOOR RELEASE
- XP — SURFACE CONTROL PANEL - 'XP' DENOTES SECURITY PANEL

ELECTRIC HEATING

- BBH1 — ELECTRIC BASEBOARD HEATER, TYPE 'BBH1' AS SPECIFIED
- DBH1 — ARCHITECTURAL DRAFT BARRIER HEATER, TYPE 'DBH1' AS SPECIFIED
- KSH1 — ELECTRIC KICKSPACE HEATER, TYPE 'KSH1' AS SPECIFIED
- DIH1 — ELECTRIC DROP-IN HEATER, TYPE 'DIH1' AS SPECIFIED
- CUH1 — CABINET UNIT HEATER, TYPE 'CUH1' AS SPECIFIED
- FFH1 — RECESSED MOUNTED - ELECTRIC FORCE FLOW HEATER, TYPE 'FFH1' AS SPECIFIED
- FFH1 — SURFACE MOUNTED - ELECTRIC FORCE FLOW HEATER, TYPE 'FFH1' AS SPECIFIED
- UH1 — ELECTRIC UNIT HEATER, TYPE 'UH1' AS SPECIFIED
- 01 — AREA OF SNOW MELTING CABLE - TYPE '01' AS SPECIFIED
- 001 — HEAT TRACING CABLE AROUND HORIZONTAL PIPE - TYPE '002' AS SPECIFIED
- 001 — HEAT TRACING CABLE AROUND VERTICAL PIPE - TYPE '001' AS SPECIFIED

MISCELLANEOUS

- E — INDICATES EXISTING DEVICE TO REMAIN
- MV — INDICATES EXISTING DEVICE TO BE MOVED
- R — INDICATES EXISTING DEVICE IN RELOCATED POSITION
- D — INDICATES EXISTING DEVICE TO BE DEMOLISHED
- INDICATES CONDUIT
- 1 (TYP.) — ELECTRICAL DRAWING NOTES

COMMUNICATIONS

- WALL MOUNTED COMBINATION MULTI-FUNCTION COMMUNICATION OUTLET
- WALL MOUNTED COMBINATION MULTI-FUNCTION COMMUNICATION OUTLET - MOUNTED ABOVE COUNTER
- TV — TELEVISION OUTLET - WALL MOUNTED OR MOUNTED ABOVE COUNTER
- TV — TELEVISION OUTLET - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- TELEPHONE OUTLET - WALL MOUNTED OR MOUNTED ABOVE COUNTER
- TELEPHONE OUTLET - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- P — PAY TELEPHONE OUTLET
- TELEPHONE OUTLET - FLUSH FLOOR MOUNTED
- TERMINAL POINT OF TELEPHONE ZONE CIRCUIT ON CEILING SLAB C/W 2" (53mm) CONDUIT BACK TO TELEPHONE BACKBOARD
- COMMUNICATION LINE TERMINAL BOX
- DATA OUTLET - WALL MOUNTED OR MOUNTED ABOVE COUNTER
- DATA OUTLET - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- DATA OUTLET - FLUSH FLOOR MOUNTED
- COMBINATION VOICE/DATA OUTLET - WALL MOUNTED OR MOUNTED ABOVE COUNTER
- COMBINATION VOICE/DATA OUTLET - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- COMBINATION VOICE/DATA OUTLET - FLUSH FLOOR MOUNTED
- A CC — COMMUNICATIONS CABINET, TYPE 'A' AS SPECIFIED
- A01 — COMMUNICATIONS DROP IDENTIFICATION NUMBER - A01 INDICATES DROP IDENTIFICATION
- SIGNAL PUSHBUTTON
- SIGNAL BELL C/W TRANSFORMER
- INTERCOM MASTER STATION
- INTERCOM STATION
- SP — FLUSH MOUNTED AUXILIARY SOUND SYSTEM SPEAKER - WALL MOUNTED OR CEILING MOUNTED
- SP — SURFACE MOUNTED AUXILIARY SOUND SYSTEM SPEAKER - WALL MOUNTED OR CEILING MOUNTED
- M — MICROPHONE JACK
- 1 — PUBLIC ADDRESS SPEAKER, TYPE '1' AS SPECIFIED
- V — VOLUME CONTROL SWITCH
- P — PROJECTION SOUND JACK
- B — SOUND BRIDGING JACK
- AMP — AMPLIFIER
- PA — CONSOLE OR RACK C/W TERMINAL BOX
- CP — SURFACE CONTROL PANEL - 'CP' DENOTES COMMUNICATION PANEL

GENERAL NOTES:

1. MINIMUM CONDUIT SIZE SHALL BE 21mm UNLESS NOTED OTHERWISE.
2. MOUNTING HEIGHT OF ALL EQUIPMENT/DEVICES SHOWN IN SYMBOL LEGEND ABOVE SHALL BE MEASURED WITH RESPECT TO THE CENTER OF THE RELATED EQUIPMENT/DEVICE.
3. ALL EXIT SIGNS IN EXPOSED AREAS NOT INDICATED AS WALL MOUNTED SHALL BE SUSPENDED ON CONDUIT WITH BALL ALIGNERS SUCH THAT EXITS ARE VISIBLE BELOW BEAMS/STRUCTURES/ MECHANICAL PIPING etc. COORDINATE EXACT LOCATION ON SITE PRIOR TO INSTALLATION.
4. ALL FLUORESCENT FIXTURES IN PARKING LEVELS SHALL BE CHAIN SUSPENDED TO CLEAR ALL OTHER EQUIPMENT AND STRUCTURES. COORDINATE EXACT LOCATIONS PRIOR TO INSTALLATION.
5. PROVIDE LOCKABLE ENCLOSURES WITH COMMON KEY ON ALL STARTERS AND DISCONNECT SWITCHES LOCATED IN PUBLIC AREAS. KEYS SHALL BE HANDED OVER TO OWNER AT END OF PROJECT.
6. REFER TO LIGHTING AND POWER RISER DETAILS FOR COMMON AREAS AND STAIRWELL CIRCUITING.
7. ALL EXIT LIGHTS WITHIN PARKADE AREA SHALL BE TYPE 'E1' UNLESS NOTED OTHERWISE
8. ALL EXIT LIGHTS WITHIN COMMON PUBLIC AREAS EXCLUDING PARKADE AREAS SHALL BE TYPE 'E2' UNLESS NOTED OTHERWISE

SUITE NOTES:

- S1 — KITCHEN EQUIPMENT IS SHOWN FOR SCOPE PURPOSES ONLY. EXACT LAYOUTS TO BE BASED ON INDIVIDUAL SHOP DRAWINGS. (TYPICAL)
- S2 — ALL LIGHT SWITCHES IN SUITES TO BE MOUNTED 1100mm A.F.F. TO THE TOP AND ALL FIXTURES IN SUITES TO BE PLACED AS PER INTERIOR DESIGN DRAWINGS. (TYPICAL)
- S3 — WHEN MORE THAN ONE SMOKE ALARM (OR COMBINATION SMOKE ALARM/C.O. DETECTOR) IS REQUIRED IN A DWELLING UNIT, THE DETECTORS SHALL BE WIRED SO THAT THE ACTIVATION OF ONE DETECTOR WILL CAUSE ALL DETECTORS WITHIN THE DWELLING UNIT TO SOUND. (TYPICAL)
- S4 — OUTLET MOUNTED ON SIDE OF KITCHEN COUNTER. INSTALL VERTICALLY 100mm BELOW COUNTER TOP AND 100mm FROM END OF SIDE GABLE. (TYPICAL)
- S5 — ALL RECEPTACLES IN SUITES TO BE MOUNTED 400mm A.F.F. TO THE TOP. (TYPICAL)
- S6 — ALL TV OUTLETS AND ASSOCIATED RECEPTACLES IN SUITES TO BE MOUNTED 400mm A.F.F. TO THE TOP UNLESS OTHERWISE NOTED.
- S7 — SEE MECHANICAL DRAWING FOR ERV WIRING DETAIL.
- S8 — ALL RECEPTACLES IN KITCHEN WITHIN 1m OF SINK SHALL BE PROVIDED WITH A 20AMP T-SLOT (5-20RA) GFI RECEPTACLE.
- S9 — BALCONY RECEPTACLES SHALL BE GFCI PROTECTED OR INCLUDED WITH GROUND FAULT CIRCUIT.

STRUCTURAL REQUIREMENTS:

1. REFER TO STRUCTURAL DRAWING TYPICAL DETAILS.
2. AREA OF CONDUITS NOT TO EXCEED 1% OF COLUMN CROSS SECTIONAL AREA (NOTE THAT SOME COLUMNS MAY NOT HAVE ANY CONDUIT PERMITTED DUE TO THEIR CRITICAL NATURE).
3. CONDUITS TO BE PLACED WITHIN MIDDLE 1/3 OF SLAB OR WALL THICKNESS.
5. OUTSIDE DIAMETER OF CONDUITS NOT TO EXCEED 1/3 OF SLAB OR WALL THICKNESS.
6. MINIMUM CENTRE TO CENTRE SPACING OF ADJACENT CONDUITS = 6 X LARGER CONDUIT DIAMETER.
7. CONDUITS TO BE LOCATED A MINIMUM OF 600mm FROM FACES OF COLUMNS.
8. CONDUITS TO BE LOCATED A MINIMUM OF 600mm FROM THE ENDS OF STUDRAILS THAT MAY BE PLACED AROUND COLUMNS.
9. CROSS CONDUITS AT 90 DEGREE ANGLES.
10. REFER TO DETAIL DRAWING AND SPECIFICATION FOR CONDUIT CROSSING EXPANSION JOINT.

ABBREVIATIONS

A	AMPERES	CSTE	CUSTOMER SERVICE TERMINATION ENCLOSURE	FU	FUSE	MIC	MICROWAVE	SS	SELECTOR SWITCH
AC	MOUNTED ABOVE CEILING	CT	COMPUTER TERMINAL	FX	FAX MACHINE	MP	MOISTURE PROOF	SWBRD	SWITCHBOARD
AFCI	ARC FAULT CIRCUIT INTERRUPTER	CTP	COMPUTER TERMINAL PRINTER	FZ	FREEZER	MTD	MOUNTED	TEL	TELEPHONE
AFF	ABOVE FINISHED FLOOR	D	DELETE	GFI	GROUND FAULT CIRCUIT INTERRUPTER	MTG	MOUNTING	TYP	TYPICAL
AFG	ABOVE FINISHED GRADE	DB	DIRECT BURIED	GRB	GARBURATOR	MV	EXISTING TO BE MOVED	UC	UNDER COUNTER
BFC	BELOW FINISHED CEILING	DHWH	DOMESTIC HOT WATER HEATER	GW	GROUND WIRE	MW	MOUNTED IN MILLWORK	V	VOLT
BFG	BELOW FINISHED GRADE	DHWT	DOMESTIC HOT WATER TANK DIV. 15 PROVIDED BY DIVISION 15	H	HORIZONTAL	NC	NORMALLY CLOSED	VM	VENDING MACHINE
BB	BASEBOARD HEATER	DN	DOWN	HP	HORSEPOWER	NIC	NOT IN CONTRACT	W	WALL MOUNTED
BRK	BREAKER	DP	DISTRIBUTION PANEL	IG	ISOLATED GROUND	NL	NIGHT LIGHT	WC	WATER COOLER
BU	BATTERY UNIT	DT	DUST TIGHT	INT	INTERLOCK	NO	NORMALLY OPEN	WG	WIRE GUARD
C	CONDUCTOR	E	EXISTING	kVA	KILO VOLT-AMPERES	NTS	NOT TO SCALE	WHP	WEATHER PROOF
CDP	CENTRAL DISTRIBUTION PANEL	EC	EMPTY CONDUIT	kW	KILOWATTS	P	PUMP (WHEN USED WITH MOTOR SYMBOL)	WL	WET LOCATION
CF	CEILING FAN	EF	EXHAUST FAN	LOB	LOCK-ON TYPE BREAKER	PA	PUBLIC ADDRESS	WP	WATER PROOF
CFM	COFFEE MACHINE	EH	ELECTRIC HEATER	LP	LIGHTING PANEL	PDU	POWER DISTRIBUTION UNIT	WT	WATER TIGHT
CH	CHILDPROOF	F	FLUSH FLOOR MOUNTED	LTG	LIGHTING	PH	PHASE PANEL	XP	EXPLOSION PROOF
CLG	CEILING MOUNTED	FA	FIRE ALARM	LV	LOW VOLTAGE	PNL	PP POWER PANEL		
CM	COMBINATION MAGNETIC	FC	FAN COIL (WHEN USED WITH MOTOR SYMBOL)	LVR	LOW VOLTAGE RELAY	PR	PRINTER		
CM FVNR	COMBINATION MAGNETIC, FULL VOLTAGE NON-REVERSABLE	FC	FOOT CANDLE	MC	METERING CENTRE	QP	QUAD PLEX		
CM RVNR	COMBINATION MAGNETIC, REDUCED VOLTAGE NON-REVERSABLE	FF	FORCE FLOW	MCC	MOTOR CONTROL CENTRE	R	RELOCATE(D)		
CNDT	CONDUIT	FM	FLOOR MOUNTED	MCD	MULTI CONDUCTOR	RP	RECEPTACLE PANEL		
CP	COPY MACHINE	FR	FRIDGE	MD	MAIN DISTRIBUTION	RI	ROUGH-IN		
CS	MOUNTED IN CRAWLSPACE	FS	DEVICE MOUNTED IN RAISED FLOOR SPACE			SC	SEPARATE CIRCUIT		

DRAWING LIST

DWG NO.	DRAWING NAME	SCALE	ISSUED FOR TENDER 2015-10-15
E0-01	ELECTRICAL SYMBOL LEGEND, DRAWING LIST & GENERAL NOTES	N.T.S.	•
E0-02	SITE PLAN - ELECTRICAL	1:150	•
E1-01	LEVEL P4 & LEVEL P3 PARKING PLAN - ELECTRICAL	1:100	•
E1-02	LEVEL P2 & LEVEL P1 PARKING PLAN - ELECTRICAL	1:100	•
E1-03	LEVEL P1 MEZZANINE PARKING PLAN / AMENITY - LEVEL P1-ELECTRICAL	AS NOTED	•
E2-01A	LEVEL 1 FLOOR PLAN NORTH - ELECTRICAL	1:50	•
E2-01B	LEVEL 1 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•
E2-02A	LEVEL 1 MEZZANINE FLOOR PLAN NORTH - ELECTRICAL	1:50	•
E2-02B	LEVEL 1 MEZZANINE FLOOR PLAN SOUTH- ELECTRICAL	1:50	•
E2-03A	LEVEL 2 FLOOR PLAN NORTH - ELECTRICAL	1:50	•
E2-03B	LEVEL 2 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•
E2-04A	LEVEL 3 FLOOR PLAN NORTH - ELECTRICAL	1:50	•
E2-04B	LEVEL 3 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•
E2-05A	LEVEL 4 FLOOR PLAN NORTH - ELECTRICAL	1:50	•
E2-05B	LEVEL 4 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•
E2-06A	LEVEL 5 FLOOR PLAN NORTH - ELECTRICAL	1:50	•
E2-06B	LEVEL 5 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•
E2-07A	LEVEL 6 FLOOR PLAN NORTH - ELECTRICAL	1:50	•
E2-07B	LEVEL 6 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•
E2-08A	LEVEL 7 FLOOR PLAN NORTH - ELECTRICAL	1:50	•
E2-08B	LEVEL 7 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•
E2-09A	LEVEL 8 FLOOR PLAN NORTH - ELECTRICAL	1:50	•
E2-09B	LEVEL 8 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•
E2-10A	LEVEL 9 FLOOR PLAN NORTH - ELECTRICAL	1:50	•
E2-10B	LEVEL 9 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•
E2-11A	LEVEL 10 FLOOR PLAN NORTH - ELECTRICAL	1:50	•
E2-11B	LEVEL 10 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•
E2-12A	LEVEL 11 FLOOR PLAN NORTH - ELECTRICAL	1:50	•
E2-12B	LEVEL 11 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•
E2-13A	LEVEL 12 FLOOR PLAN NORTH - ELECTRICAL	1:50	•
E2-13B	LEVEL 12 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•
E2-14A	LEVEL 13 FLOOR PLAN NORTH - ELECTRICAL	1:50	•
E2-14B	LEVEL 13 FLOOR PLAN SOUTH - ELECTRICAL	1:50	•
E2-15	LEVEL 14 FLOOR PLAN - ELECTRICAL	1:75	•
E3-01-RC	CONDO - SINGLE LINE DIAGRAM	N.T.S.	•
E3-02-RA	ARTSCAPE - SINGLE LINE DIAGRAM	N.T.S.	•
E3-03-CP/CR	COMMERCIAL PARKING / COMMERCIAL RETAIL - SINGLE LINE DIAGRAM	N.T.S.	•
E4-01	COMMON AREA LIGHTING & POWER RISER DIAGRAM	N.T.S.	•
E4-02	TYPICAL SUITE DISTRIBUTION PANEL & TYPICAL SUITE PANEL SCHEDULES	N.T.S.	•
E4-03	FIRE ALARM RISER DIAGRAM	N.T.S.	•
E4-04	FIRE ALARM SCHEDULES	N.T.S	•
E4-05	COMMUNICATION SYSTEM RISER DIAGRAM	N.T.S.	•
E4-06	SECURITY RISER DIAGRAM & DETAILS	N.T.S.	•
E5-01	ELECTRICAL ROOM DETAIL - ELECTRICAL	AS NOTED	•
E5-02	MISCELLANEOUS DETAILS - ELECTRICAL	N.T.S.	•
E5-03	MISCELLANEOUS DETAILS - ELECTRICAL	N.T.S.	•
ME-11	CONDO - EQUIPMENT SCHEDULES #1	N.T.S.	•
ME-12	CONDO - EQUIPMENT SCHEDULES #2	N.T.S.	•
ME-13	CONDO - EQUIPMENT SCHEDULES #3	N.T.S.	•
ME-14	CONDO - EQUIPMENT SCHEDULES #4	N.T.S.	•
ME-15	CONDO - EQUIPMENT SCHEDULES #5	N.T.S.	•
ME-21	ARTSCAPE - EQUIPMENT SCHEDULES #1	N.T.S.	•
ME-22	ARTSCAPE - EQUIPMENT SCHEDULES #2	N.T.S.	•
ME-23	ARTSCAPE - EQUIPMENT SCHEDULES #3	N.T.S.	•
ME-31	RETAIL - EQUIPMENT SCHEDULES #1	N.T.S.	•
ME-32	RETAIL - EQUIPMENT SCHEDULES #2	N.T.S.	•
ME-33	RETAIL - EQUIPMENT SCHEDULES #3		

NOTE:
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Date: 08/28/12

LICENSED PROFESSIONAL ENGINEER 8489D D. C. M. BELLAMY PROVINCE OF ONTARIO

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax Dauphin Kelowna Trail Saint John

No.:	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/10
2	ISSUED FOR ADD E-003	2016/01/26

No	Issued For	Date
3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-01

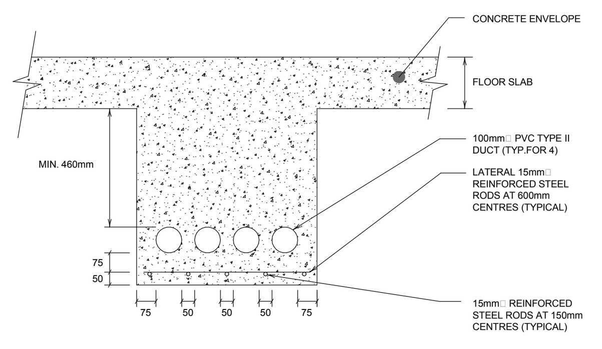
AQUAVISTA AT BAYSIDE TORONTO

Drawing Title
ELECTRICAL SYMBOL LEGEND, DRAWING LIST & GENERAL NOTES

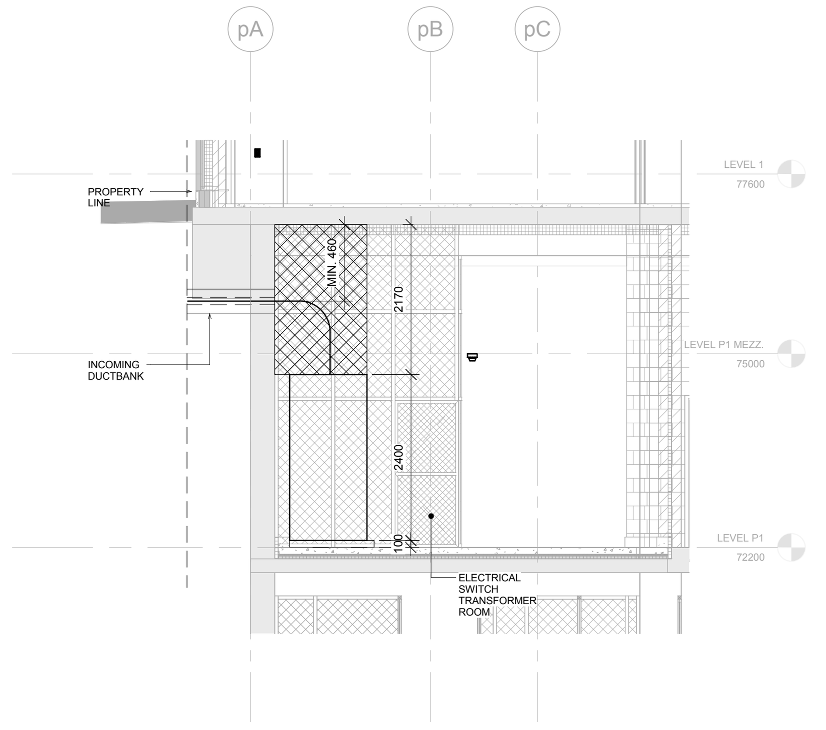
Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

Scale: N.T.S.
Drawn by: Author
Checked by: Checker
Project No.: 8489D
Date: 08/28/12
Drawing No.: E0-01

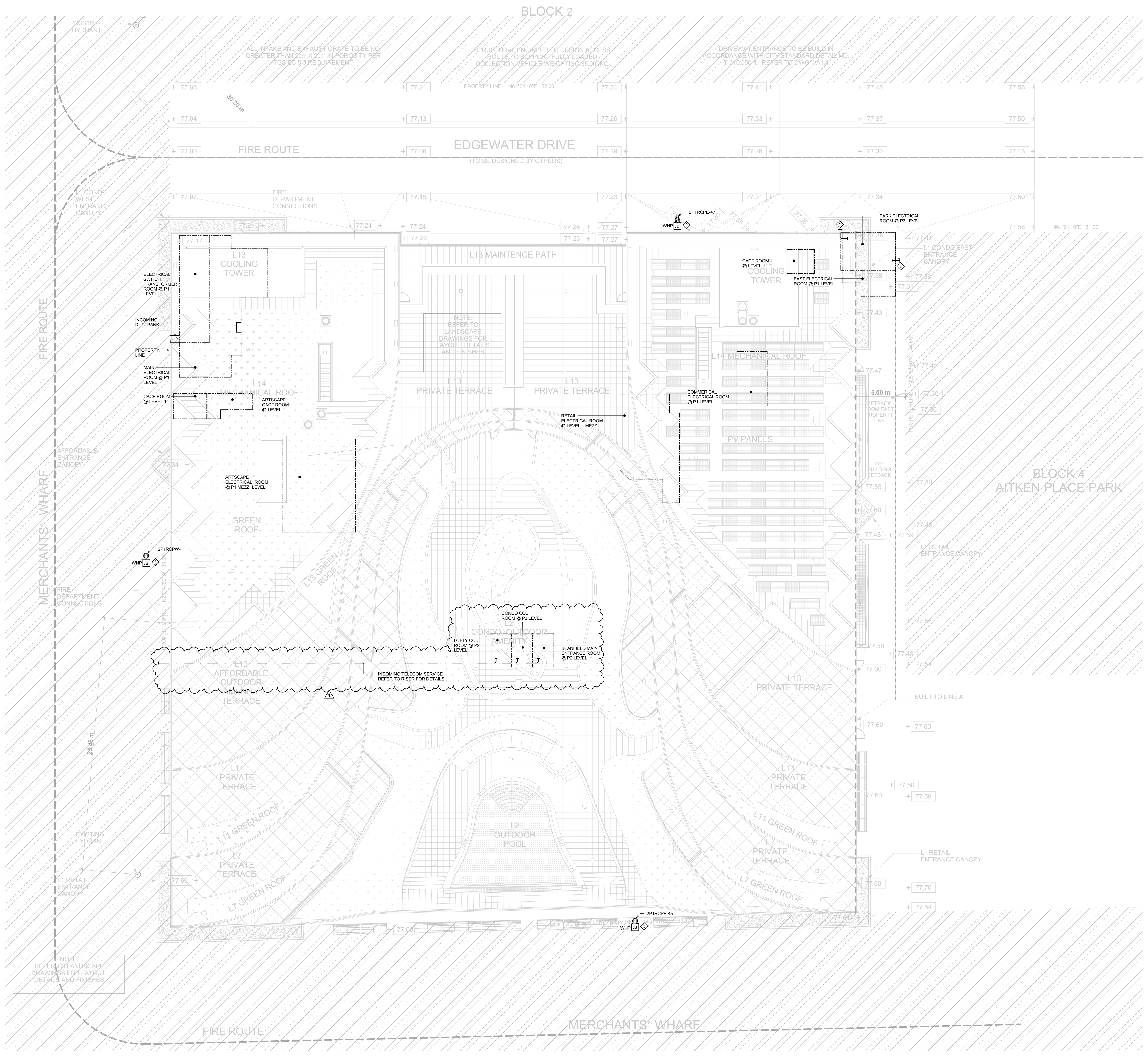
Plot Date: 26/01/2016 3:35:38 PM File Path: C:\Users\administrator.MCW\Documents\8489D - Aquavista - MEP_Tao_L.rvt



3 DUCTBANK SECTION
N.T.S



2 ELECTRICAL SWITCH TRANSFORMER ROOM SECTION
1 : 50



NOTES:

1. 6-27mmC CONDUITS STUB-OUT FOR PRIVATE STREET LIGHTING FROM EAST ELECTRICAL ROOM.
2. 6-27mmC CONDUITS STUB-OUT FOR FUTURE PARK EQUIPMENT FROM PARK ELECTRICAL ROOM.
3. WEATHER PROOF JUNCTION BOX FOR IRRIGATION CONTROL SYSTEM. PROVIDE 1-27mmC CONDUITS TO IRRIGATION ROOM ON P2 LEVEL. EXACT LOCATION AND JUNCTION BOX SIZE TO BE COORDINATED WITH IRRIGATION SHOP DRAWING.

1 ELECTRICAL SITE PLAN
1 : 150

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8489D
D. C. M. BELLAMY
PROVINCE OF ONTARIO

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax Dauphin Kelowna Trail Saint John

No.:	Revision	Date
1	ISSUED FOR ADD E-003	2016/01/26

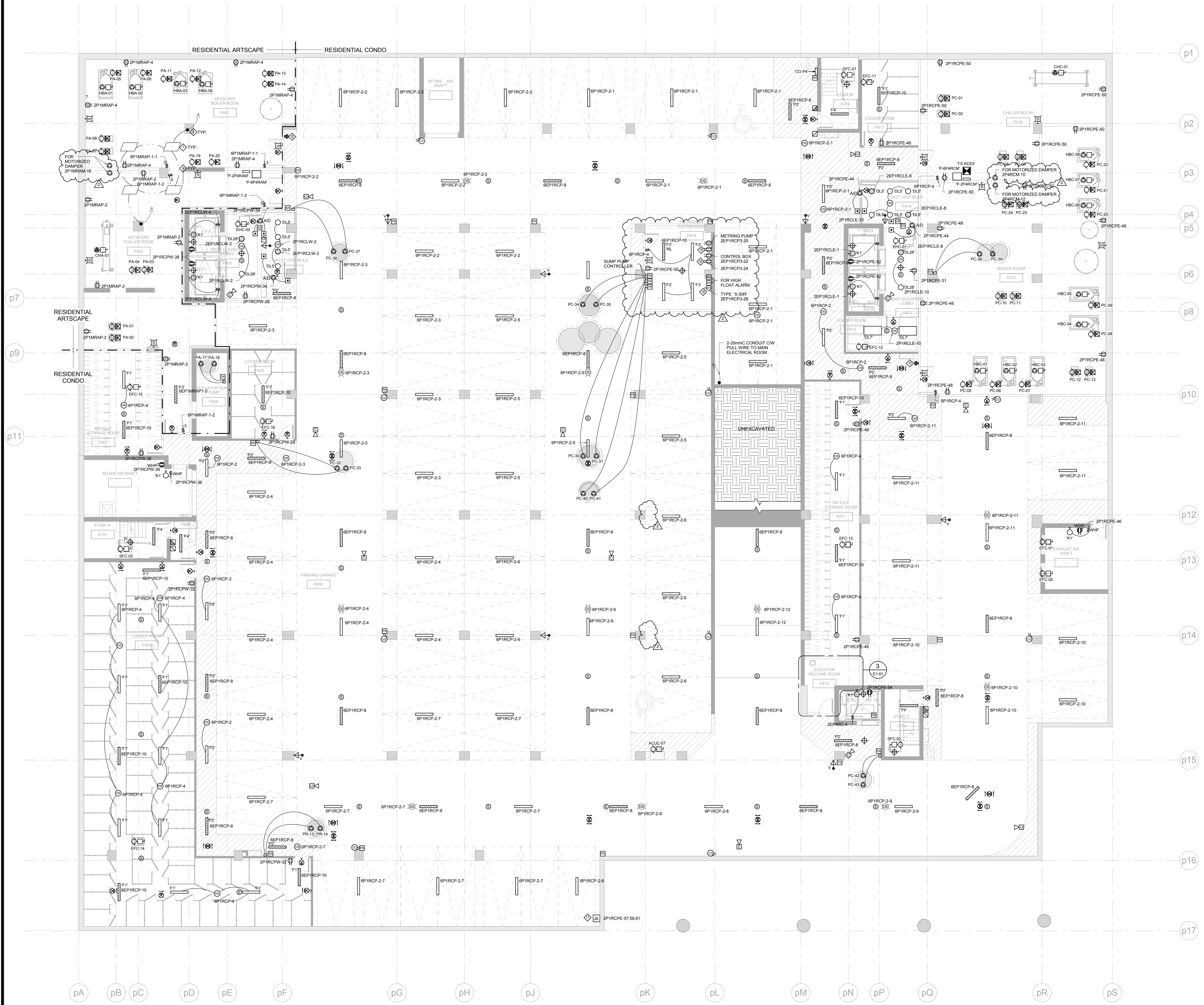
No	Issued For	Date
3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	ISSUED FOR BUILDING PERMIT	2015-05-29

AQUAVISTA
AT BAYSIDE TORONTO

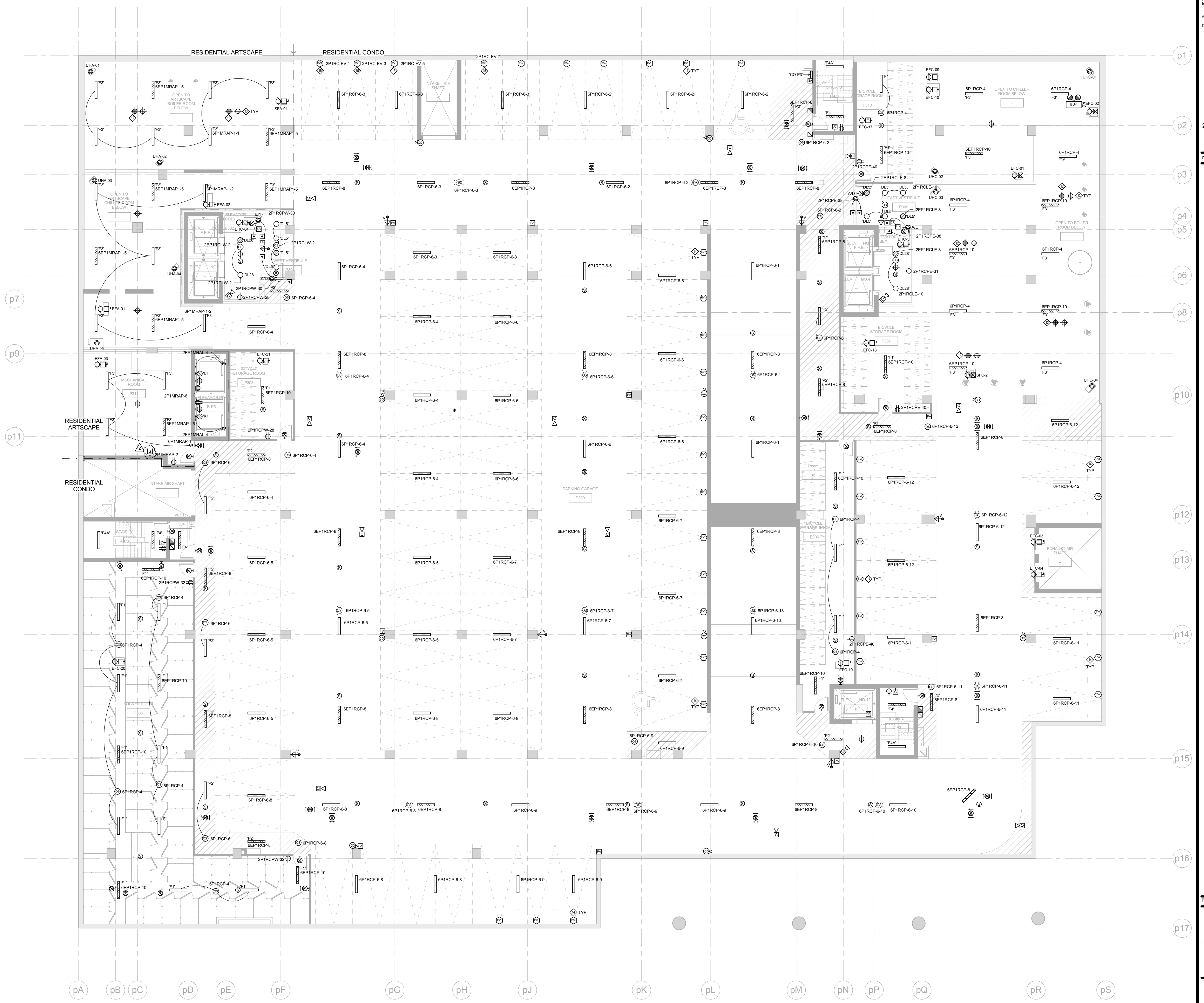
Drawing Title
SITE PLAN - ELECTRICAL

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

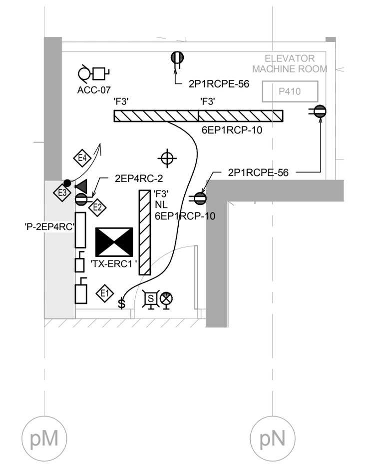
Scale: As indicated
Drawn by: Author
Checked by: Checker
Project No.: 8489D
Date: 02/25/14
Drawing No.: E0-02



1 LEVEL P4 - ELECTRICAL
1 : 100



2 LEVEL P3 - ELECTRICAL
1 : 100



3 ELEVATOR MACH. ROOM P410
1 : 50

ELEVATOR MACHINE ROOM NOTES:

- E1 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.
- E2 DEDICATE GFI RECEPTACLE NEXT TO CONTROL CABINET. COORDINATE EXACT LOCATION WITH ELEVATOR CONTRACTOR ON SITE.
- E3 ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL EMPTY CONDUIT C/W PULL WIRE FROM MAIN TELECOMMUNICATION ROOM FOR A DEDICATE TELEPHONE LINE TERMINATING AT THE PRIMARY ELEVATOR SIGNAL CONTROL CABINET FOR EMERGENCY CALL SYSTEM.
- E4 CONDUIT TO PLYWOOD BACKBOARD FOR SECURITY SERVICE.

NOTES:

1. ALL GARAGE LIGHT FIXTURES SHALL BE TYPE 'P1' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. PROVIDE MINIUM #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 CONTROLLED BY OCCUPANCY SENSORS. ALL LIGHTING FIXTURES FED FROM EMERGENCY POWER WITHIN THIS PARKING GARAGE SHALL BE
5. ALL EXIT SIGNS ON THIS DRAWING SHALL BE TYPE 'E1', REFER TO DWG. E4-01 FOR CIRCUIT NUMBER
6. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING FOR QUANTITY AND DESCRIPTION.
7. PROVIDE 610mm x 915mm x 3mm (THICK) COPPER GROUND FLUSH PLATES. REFER TO SPECIFICATION FOR DETAILS
8. 3/0 AWG COPPER GROUND WIRE UP TO GROUND BUS IN MAIN ELECTRICAL ROOM (P1 LEVEL), REFER TO DWG. E5-01 FOR DETAILS.
9. 3/0 AWG COPPER GROUNDING CONDUCT.
10. EMERGENCY KILL SWITCHES FOR HEATING BOILERS. PROVIDE LAMACOID IDENTIFICATION PLATE. MOUNT SWITCHES AT 1100MM AFF. PROVIDE SEE THROUGH TAMPER PROOF TYPE ENCLOSURE WITH LAMACOID IDENTIFICATION NAMEPLATE.
11. FOR FUTURE CAR WASH CONTROLLER PROVIDE POWER 15A, 120/208V 3Ø 4W POWER CONNECTION. EXACT LOCATION TO BE COORDINATED WITH ARCHITECTURAL DRAWING.
12. DEVICE CONNECT TO FIRE ALARM SYSTEM, REFER TO SPECIFICATION FOR DETAILS..
13. HEAT DETECTORS SHOWN IN THE MECHANICAL ROOM ARE FOR REFERENCE ONLY. CONTRACTOR SHALL BE RESPONSIBLE TO CLEAR THE DETECTOR AWAY FROM MECHANICAL EQUIPMENT, PIPES AND DUCTS IN ORDER TO ALLOW THE DETECTORTO OPERATE PROPERLY. CONTRACTOR SHALL INCLUDE THE SUPPLY AND INSTALLATION OF AN ADDITIONAL 5 HEAT DETECTORS. EXACT LOCATIONS OF ADDITIONAL DETECTORS SHALL BE AS DIRECTED ON SITE AFTER COMPLETE INSTALLATION. PROVIDE HIGH TEMPERATURE HEAT DETECTOR IN BOILER ROOM.
14. MOUNTING HEIGHT 1000mm A.F.F. ALL CONDUITS C/W PULL WIRE BACK TO ELETRICAL CAR CHARGING PANEL AT EAST ELECTRICLA ROOM (P132)
15. PROVIDE LOCKABLE COVER, MOUNTING HEIGHT 1000mm A.F.F.
16. POWER RECEPTACLE FOR FILTRATION SYSTEM. EXACT LOCATION TO BE COORDINATED WITH FILTRATION SYSTEM SHOP DRAWING. 2

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Date: 08/28/12

LICENSED PROFESSIONAL ENGINEER
8489D
D. C. M. BELLAMY
PROVINCE OF ONTARIO

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax Dauphin Kelowna Trail Saint John

No.:	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/10
2	ISSUED FOR ADD E-003	2016/01/26

No	Issued For	Date
3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

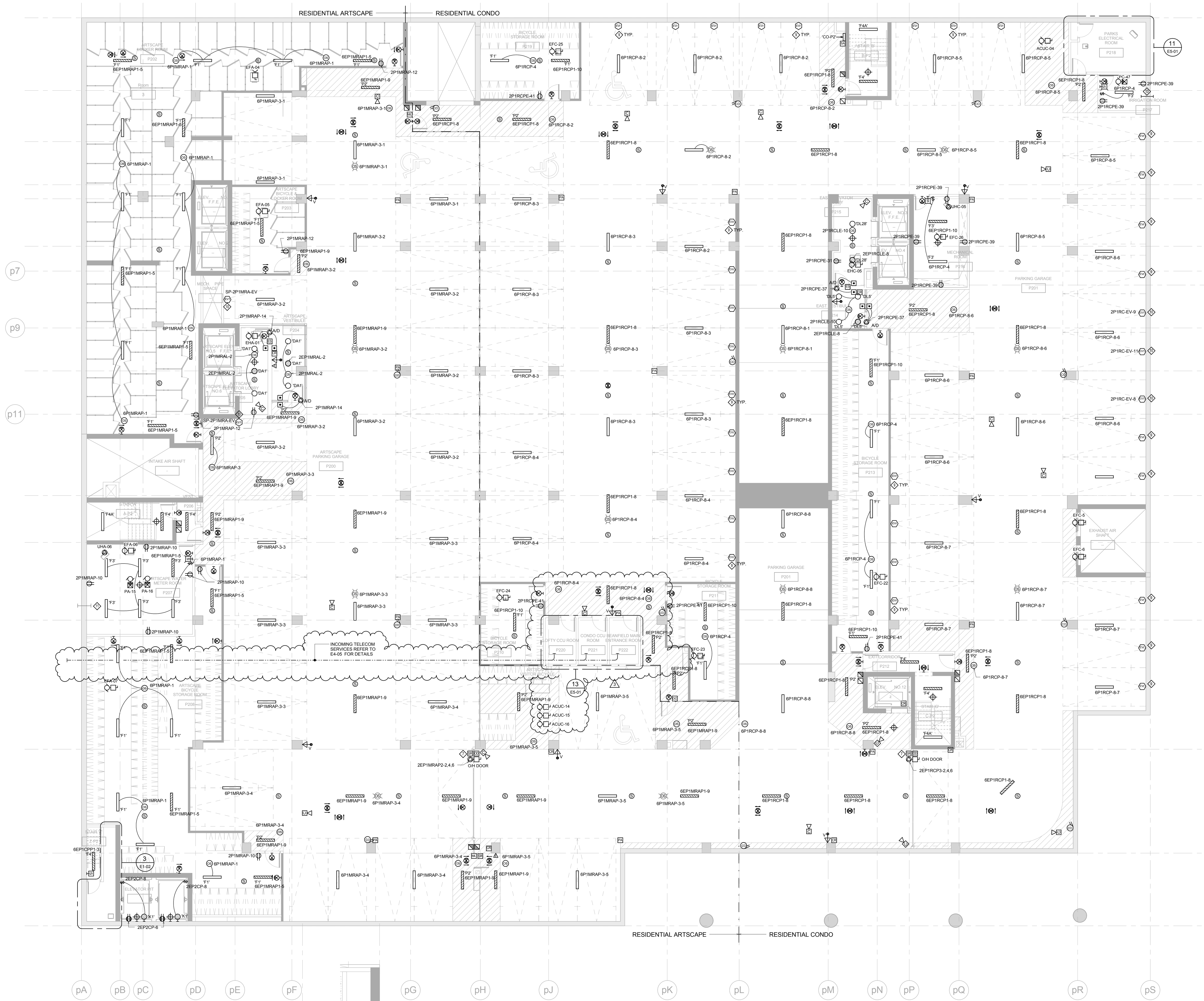
LEVEL P4 & LEVEL P3 PARKING PLAN - ELECTRICAL

Project

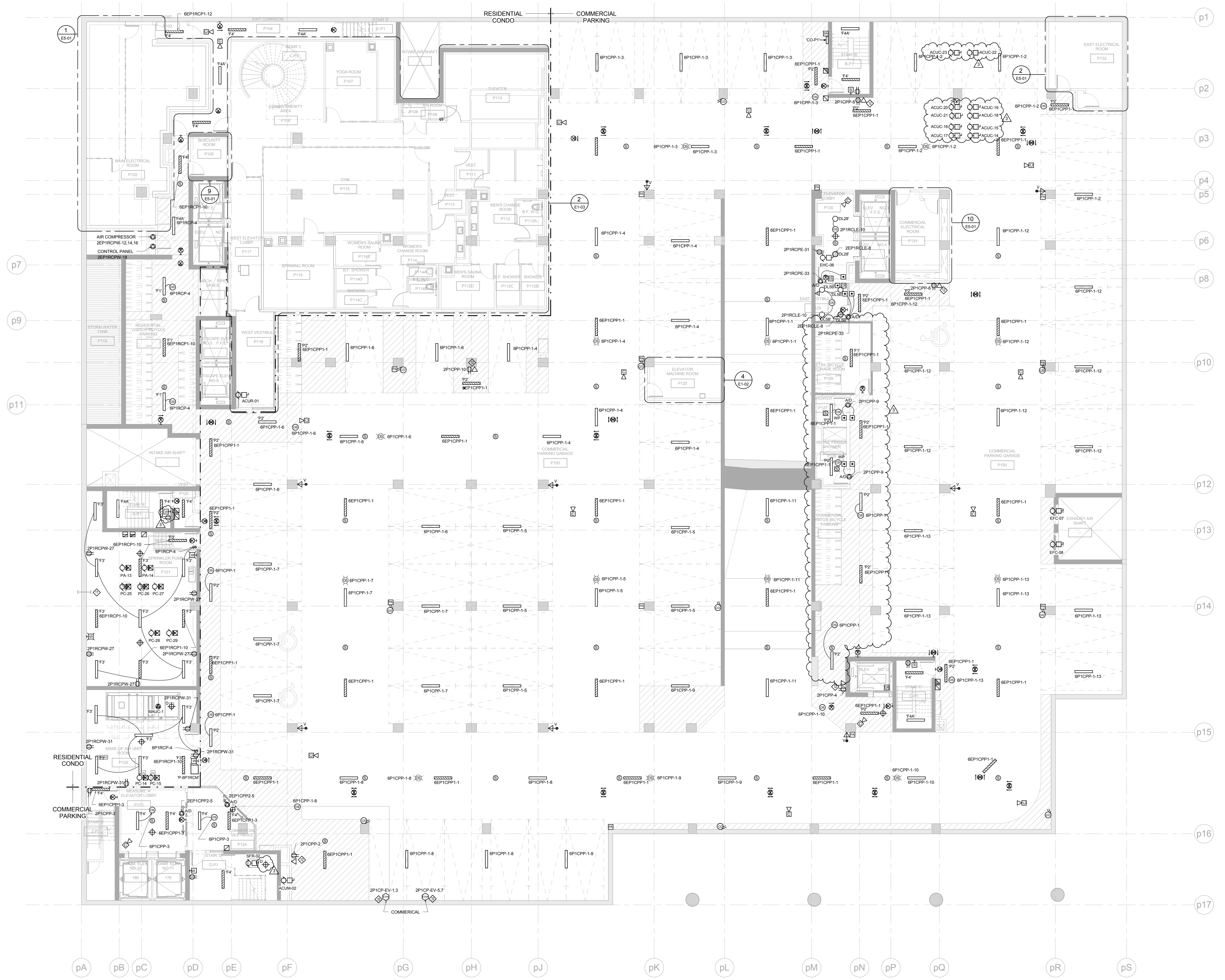
Hines TRIDEL®

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

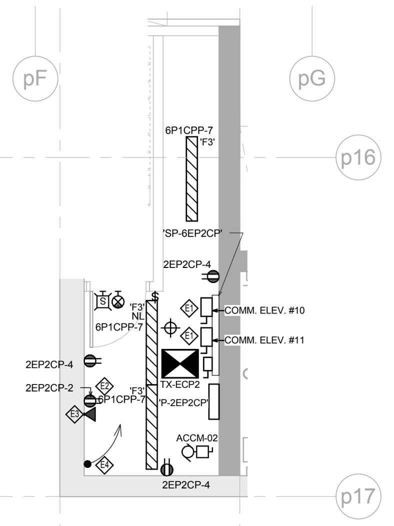
Scale: As indicated
Drawn by: Author
Checked by: Checker
Project No.: 8489D
Date: 08/28/12
Drawing No.: E1-01



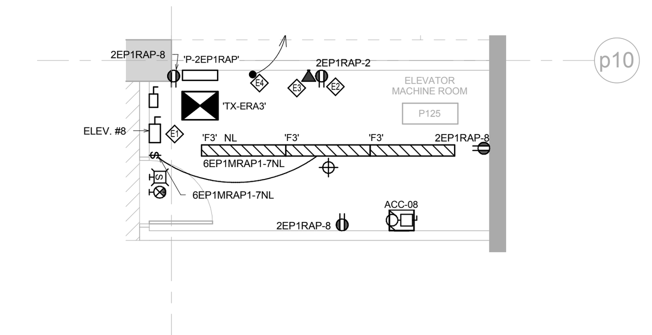
1 LEVEL P2 - ELECTRICAL
1 : 100



2 LEVEL P1 - ELECTRICAL
1 : 100



3 ELEVATOR MACH. ROOM P209
1 : 50



4 ELEVATOR MACH. ROOM P125 (ARTSCAPE)
1 : 50

ELEVATOR MACHINE ROOM NOTES:

- E1 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.
- E2 DEDICATE GFI RECEPTACLE NEXT TO CONTROL CABINET. COORDINATE EXACT LOCATION WITH ELEVATOR CONTRACTOR ON SITE.
- E3 ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL EMPTY CONDUIT C/W PULL WIRE FROM MAIN TELECOMMUNICATION ROOM FOR A DEDICATE TELEPHONE LINE TERMINATING AT THE PRIMARY ELEVATOR SIGNAL CONTROL CABINET FOR EMERGENCY CALL SYSTEM.
- E4 CONDUIT TO PLYWOOD BACKBOARD FOR SECURITY SERVICE.

NOTES:

1. ALL GARAGE LIGHT FIXTURES SHALL BE TYPE 'P1' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
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 CONTROLLED BY OCCUPANCY SENSORS. ALL LIGHTING FIXTURES FED FROM EMERGENCY POWER WITHIN THIS PARKING GARAGE SHALL BE
5. ALL EXIT SIGNS ON THIS DRAWING SHALL BE TYPE 'E1', REFER TO DWG. E4-01 FOR CIRCUIT NUMBER. COMMERCIAL PARKING AREA EXIT SGINS ARE FED FROM '6EP1CPP1-5' ON P1 LEVEL.
6. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING FOR QUANTITY AND DESCRIPTION.
7. PROVIDE JUNCTION BOX FOR O/H DOOR CONTROL. RUN CONDUIT WITH WIRING TO CONCIERGE DESK.
8. N/A.
9. MOUNTING HEIGHT 1000mm A.F.F. ALL CONDUITS C/W PULL WIRE BACK TO ELETRICAL CAR CHARGING PANEL AT EAST ELECTRICLA ROOM (P132)
10. PROVIDE LOCKABLE COVER, MOUNTING HEIGHT 1000mm A.F.F.
11. PROVIDE 1-20mmC CONDUIT C/W PULL WIRE FOR REMOTE WATER METER. EXACT LOCATION OF REMOTE WATER METER TO BE COORDINATED WITH THE CITY OF TORONTO REQUIREMENTS.
12. FOR COMMERCIAL PARKING PAY STATION.
13. PROVIDE 4-27mmC CONDUITS TO IRRIGATION CONTROLLERS. EXACT IRRIGATION CONTROLLER LOCATIONS TO BE COORDINATED ON SITE.

Contractor Must Check And Verify All Dimensions On The Job.

Do Not Scale The Drawings.

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Date: 03/06/15

LICENSED PROFESSIONAL ENGINEER
8489D
D. C. M. BELLAMY
PROVINCE OF ONTARIO

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
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No	Issued For	Date
3	ISSUED FOR TENDER	2015-10-30
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL P2 & LEVEL P1 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: 03/06/15
Drawing No.: E1-02

FOR CONTINUATION SEE SHEET E2-01B

NOTES:

1. ALL RETAIL TEMPORARY LIGHTING FIXTURES ARE TYPE 'F2' UNLESS OTHERWISE NOTED. PROVIDE SWITCHES FOR LIGHTING CONTROL.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING 'SP2' FOR QUANTITY AND DESCRIPTION.
4. FIRE ALARM AND VOICE COMMUNICATION CONTROL EQUIPMENT.
5. ELEVATOR MONITORING BY DIV. 14. PROVIDE CIRCUITS AND POWER AS REQUIRED.
6. PROVIDE POWER, CONDUIT AND JUNCTION BOX FOR A COMPLETE POWER DOOR OPERATION SYSTEM IN RETAIL AREA. POWER TO COME FROM RETAIL TENANT PANEL.
7. CONCIERGE/SECURITY DESK, PROVIDE (8) 15A, 120V CIRCUITS FROM PANEL 'P-2EP1RCP2'. REFER TO SECURITY RISERS FOR ALL REQUIREMENTS ASSOCIATED WITH THE DESK. EXACT EQUIPMENT LAYOUT TO BE CO-ORDINATED WITH SECURITY CONTRACTOR AND MILLWORK SHOP DRAWINGS. (2EP1RCP2-2,4,6,8,10,12,14,16)
8. PROVIDE JUNCTION BOX FOR O/H DOOR CONTROL. RUN CONDUIT WITH WIRING TO CONCIERGE DESK.
9. RUN 1-63mm E.C. & 1-41mm E.C. FROM ELEVATOR HOISTWAY TO C.A.C.F. AND FROM C.A.C.F. TO CONCIERGE DESK. REFER TO SPECIFICATION SECTION 16110.
10. RUN 1-63mm E.C. & 1-41mm E.C. FROM ELEVATOR HOISTWAY TO C.A.C.F. AND FROM ARTSCAPE C.A.C.F. TO CONCIERGE DESK. REFER TO SPECIFICATION SECTION 16110.
11. AREA TO BE HEAT TRACED INCLUDING TRENCH DRAINS. LOADING AREA. PROVIDE 3 ZONES OF PYROTENAX CAT #SUB13 CABLES RATED AT 8000 WATTS EACH, 600V (377W/SQM). PROVIDE SNOW-MELTING CONTROLS AS PER SPECIFICATION C/W OVERHEAD SENSOR, CONTACTOR AND ALL NECESSARY INSTALLATION HARDWARE, MOUNT SENSOR ON WALL BRACKETS, AT EDGE OF GROUND FLOOR SLAB ABOVE AND SLAB SENSOR, CLEAR OF HEATED SPACE. PROVIDE 3-20A-DP GFI CIRCUITS FROM PANEL 'P-61MCRP'. PROVIDE DETAILED ENGINEERED SYSTEM DRAWINGS PRIOR TO INSTALLATION.
12. AREA TO BE HEAT TRACED INCLUDING TRENCH DRAINS. PARKING ENTRANCE. PROVIDE (4+2) ZONES OF PYROTENAX CAT #SUB13 CABLES RATED AT 8000 WATTS EACH, 600V (377W/SQM). PROVIDE SNOW-MELTING CONTROLS AS PER SPECIFICATION C/W OVERHEAD SENSOR, CONTACTOR AND ALL NECESSARY INSTALLATION HARDWARE, MOUNT SENSOR ON WALL BRACKETS, AT EDGE OF GROUND FLOOR SLAB ABOVE AND SLAB SENSOR, CLEAR OF HEATED SPACE. PROVIDE 6-20A-DP GFI CIRCUITS FROM PANEL 'P-6P1RCSM'. PROVIDE DETAILED ENGINEERED SYSTEM DRAWINGS PRIOR TO INSTALLATION.
13. MOTORIZED DOOR/LOUVERS CONTROLLED FROM CACF FOR SMOKE MANAGEMENT. REFER DETAIL-3/E4-02 FOR CONTROL DETAILS.
14. ALL ELECTRICAL WORK IN THIS AREA SHALL BE EXPLOSION PROOF CLASS 1, DIVISION 1. MAINTAIN ALL THE OTHER ELECTRICAL SERVICES OUT OF THIS AREA.
15. EXIT SIGNS IN RETAIL AREA, RETAIL LOADING AREA AND RETAIL SERVICE CORRIDOR ARE FED FROM '6E1MCRP-5'.
16. LIGHTING SHALL BE WIRED THROUGH A CONTACTOR & CONTROLLER USING A TIMER.
17. PROVIDE 21mmC CONDUIT C/W PULL WIRE TO SECURITY ROOM @ P1 LEVEL FOR VIRTUAL CONCIERGE DESK.
18. TYPE (DL 'S') LIGHITNG FIXTURE AT U/S OF STAIR STRINGER. REFER TO INTERIOR DESING DRAWING FOR DETAIL.
19. PROVIDE 21mmC CONDUIT C/W PULL WIRE FOR EMERGENCY CALL SYSTEM IN UNIVERSAL WASHROOM.
20. RUN 27mmC CONDUIT C/W PULL WIRE BACK TO SECURITY ROOM AND CONCIERGE DESK FOR EMERGENCY CALL SYSTEM IN UNIVERSAL WASHROOM.

ELEVATOR MACHINE ROOM NOTES:

- E1. 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.
- E2. DEDICATE GFI RECEPTACLE NEXT TO CONTROL CABINET. COORDINATE EXACT LOCATION WITH ELEVATOR CONTRACTOR ON SITE.
- E3. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL EMPTY CONDUIT C/W PULL WIRE FROM MAIN TELECOMMUNICATION ROOM FOR A DEDICATE TELEPHONE LINE TERMINATING AT THE PRIMARY ELEVATOR SIGNAL CONTROL CABINET FOR EMERGENCY CALL SYSTEM.
- E4. CONDUIT TO PLYWOOD BACKBOARD FOR SECURITY SERVICE.

Contractor Must Check And Verify All Dimensions On The Job.

Do Not Scale The Drawings.

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Date: 03/09/15

LICENSED PROFESSIONAL ENGINEER
8489D
D. C. M. BELLAMY
PROVINCE OF ONTARIO

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax Dauphin Kelowna Trail Saint John

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No	Issued For	Date
3		
2	ISSUED FOR TENDER	2015-10-30
1	BUILDING PERMIT SUBMISSION	2015-06-12

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 1 FLOOR PLAN NORTH - ELECTRICAL

Project

Hines TRIDEL®

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

Scale: 1 : 50
Drawn by: Author
Checked by: Checker
Project No.: 8489D
Date: 03/09/15
Drawing No.: E2-01A

NOTES:

1. ALL RETAIL TEMPORARY LIGHTING FIXTURES ARE TYPE 'F2' UNLESS OTHERWISE NOTED. PROVIDE SWITCHES FOR LIGHTING CONTROL
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING 'SP2' FOR QUANTITY AND DESCRIPTION.
4. PROVIDE POWER, CONDUIT AND JUNCTION BOX FOR A COMPLETE POWER DOOR OPERATION SYSTEM.
5. RUN 1-63mm E.C. & 1-41mm E.C. FROM ELEVATOR HOISTWAY TO C.A.C.F. AND FROM C.A.C.F. TO CONCIERGE DESK. REFER TO SPECIFICATION SECTION 16110.
6. MOTORIZED DOOR/LOUVERS CONTROLLED FROM CACF FOR SMOKE MANAGEMENT. REFER DETAIL-3/E4-02 FOR CONTROL DETAILS.
7. EXIT SIGNS IN RETAIL AREA, RETAIL LOADING AREA AND RETAIL SERVICE CORRIDOR ARE FED FROM '6E1MCRP-5'.
8. LIGHTING SHALL BE WIRED THROUGH A CONTACTOR & CONTROLLER USING A TIMER.

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LICENSED PROFESSIONAL ENGINEER 8489D D. C. M. BELLAMY PROVINCE OF ONTARIO

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax Dauphin Kelowna Trail Saint John

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3		
2	ISSUED FOR TENDER	2015-10-30
1	BUILDING PERMIT SUBMISSION	2015-06-12

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 1 FLOOR PLAN
SOUTH - ELECTRICAL

Project

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

Scale: 1 : 50
Drawn by: Author
Checked by: Checker
Project No.: 8489D
Date: 03/09/15
Drawing No.: E2-01B

GENERATOR NOTES:

- G1 120V, 15A POWER CONNECTIONS FOR THE GENERATOR BATTERY & CHARGER AND 208V, 1PH FOR BLOCK HEATER. CO-ORDINATE ON SITE FOR EXACT LOCATION PRIOR TO ROUGHING-IN.
- G2 SUPERVISORY CONTACTS FOR GENERATOR MONITORING POINTS.
- G3 GROUND BUS INTERCONNECTED WITH #3/0 AWG GROUND WIRE. MOUNT GROUND LOOP AT HIGH LEVEL. GROUND ALL METAL WITHIN THE ROOM, INCLUDING DOOR FRAMES, DOORS, MECHANICAL EQUIPMENT, ETC. REFER TO DRAWING E1-01/E3-XX AND SPECIFICATIONS FOR FURTHER DETAILS.
- G4 PROVIDE 100mm HIGH CONCRETE PAD FOR ALL FLOOR STANDING EQUIPMENT.
- G5 144W, 12V D.C. STAND-BY BATTERY AND CHARGER UNIT #BU-1 C/W 2-12W HEADLAMPS OF QUARTZ HALOGEN TYPE.

ELEVATOR MACHINE ROOM NOTES:

- E1 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.
- E2 DEDICATE GFI RECEPTACLE NEXT TO CONTROL CABINET. COORDINATE EXACT LOCATION WITH ELEVATOR CONTRACTOR ON SITE.
- E3 ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL EMPTY CONDUIT C/W PULL WIRE FROM MAIN TELECOMMUNICATION ROOM FOR A DEDICATE TELEPHONE LINE TERMINATING AT THE PRIMARY ELEVATOR SIGNAL CONTROL CABINET FOR EMERGENCY CALL SYSTEM.
- E4 CONDUIT TO PLYWOOD BACKBOARD FOR SECURITY SERVICE.

NOTES:

1. ALL EXIT SIGNS ARE TYPE 'E2' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS. (DWG. E4-01)
3. SPRINKLER SYSTEM FLOW SWITCH AND SUPERVISORY VALVE. REFER TO MIRENDA INCORPORATED DRAWING 'SP2' FOR QUANTITY AND DESCRIPTION.
4. RECEPTACLE SHALL BE LOCATED NOT LESS THAN 750mm ABOVE THE FINISHED ROOF, AND PROTECTED FROM MECHANICAL DAMAGE.
5. AREA TO BE HEAT TRACED. PROVIDE 3 ZONE OF PYROTENAX CAT #SUB13 CABLES RATED AT 8000 WATTS EACH, 600V (377W/SQM). PROVIDE SNOW-MELTING CONTROLS AS PER SPECIFICATION C/W OVERHEAD SENSOR, CONTACTOR AND ALL NECESSARY INSTALLATION HARDWARE, MOUNT SENSOR ON WALL BRACKETS, AT EDGE OF FLOOR SLAB ABOVE AND SLAB SENSOR, CLEAR OF HEATED SPACE. PROVIDE 3-20A-DP GFI CIRCUITS FROM PANEL '?????'. PROVIDE DETAILED ENGINEERED SYSTEM DRAWINGS PRIOR TO INSTALLATION.
6. WEATHER PROOF JUNCTION BOX FOR IRRIGATION CONTROL SYSTEM. PROVIDE 1-27mmC CONDUITS TO IRRIGATION ROOM ON P2 LEVEL. EXACT LOCATION AND JUNCTION BOX SIZE TO BE COORDINATED WITH IRRIGATION SHOP DRAWING.
7. GROUND BUSS INTERCONNECTED WITH #3/0 AWG GROUND WIRE. MOUNT GROUND LOOP AT HIGH LEVEL. RUN A #3/0 AWG GROUND WIRE TO THE MAIN ELECTRICAL ROOM GROUNDING SYSTEM. GROUND ALL METAL WITHIN THE ROOM, INCLUDING DOOR FRAMES, DOORS, MECHANICAL EQUIPMENT, ETC.
8. PROVIDE 100mm HIGH CONCRETE PAD FOR ALL FLOOR STANDING EQUIPMENT.
9. PROVIDE 1200mm(W) X 2440mm(H) X 19mm(D) PLYWOOD BACKBOARD. REFER TO SECURITY RISER E4-06 FOR CONDUITS DETAIL.
10. PROVIDE A 30A, 208V-1ø SURFACE MOUNTED WEATHERPROOF TWIST- LOCK TYPE RECEPTACLE FOR WINDOW WASHING, C/W STRAIN RELIEF EYEBOLT HUBBELL CAT# HBL2620SW (EEMAC L6-30R). PROVIDE ALSO A 120 VOLT DUPLEX RECEPTACLE.

COMMUNICATION NOTES:

- C1 20mm PLYWOOD BACKBOARD 2400mm HIGH ALL ROUND ROOM.
- C2 1-#3/0 IN 60mm PVC TIED TO MAIN GROUNDING BAR IN MAIN ELECTRICAL ROOM.

3

Contractor Must Check And Verify All Dimensions On The Job.

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LICENSED PROFESSIONAL ENGINEER
8489D
D. C. M. BELLAMY
PROVINCE OF ONTARIO

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
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1	WT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

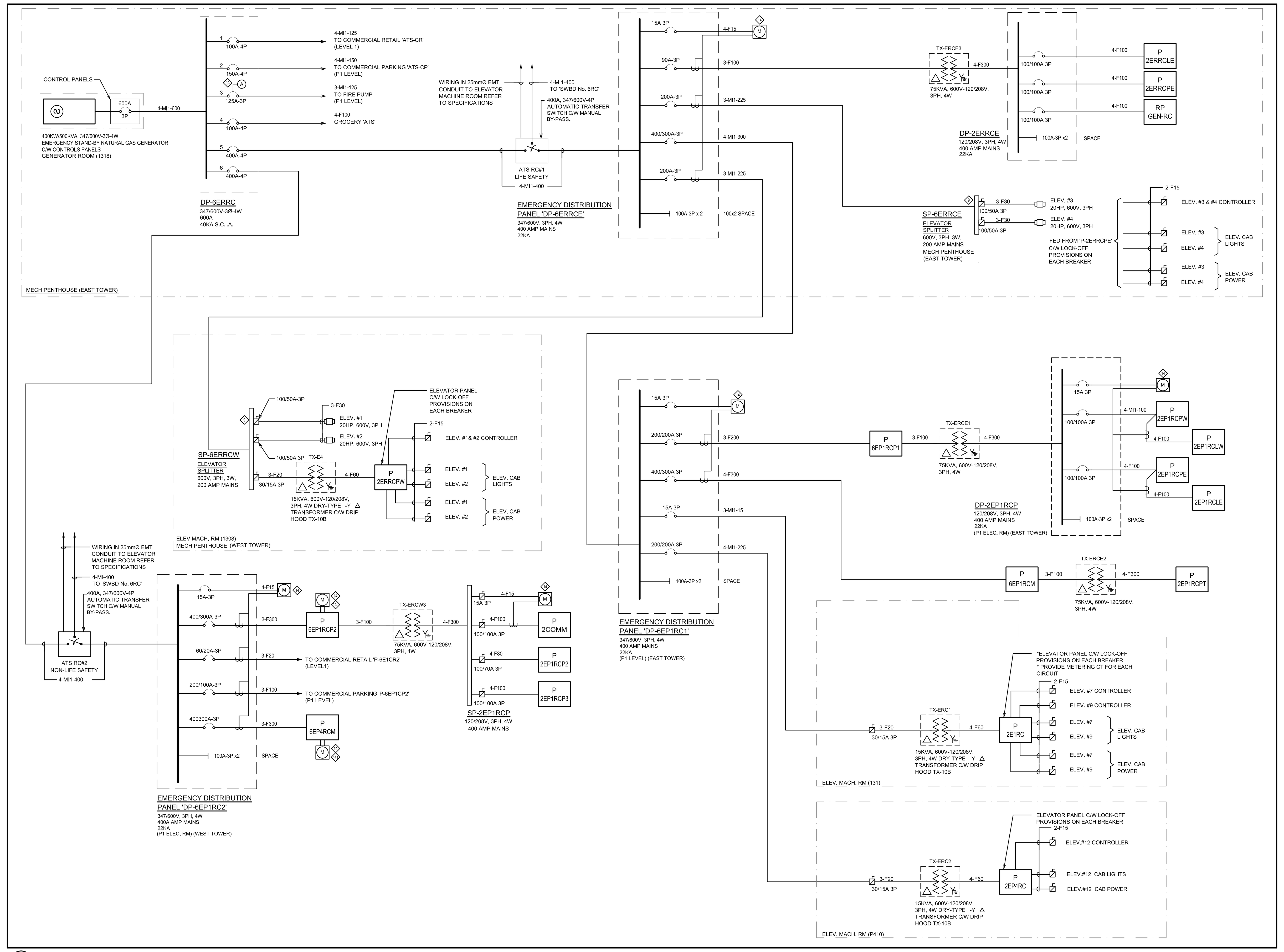
Drawing Title

LEVEL 13 FLOOR PLAN NORTH - ELECTRICAL

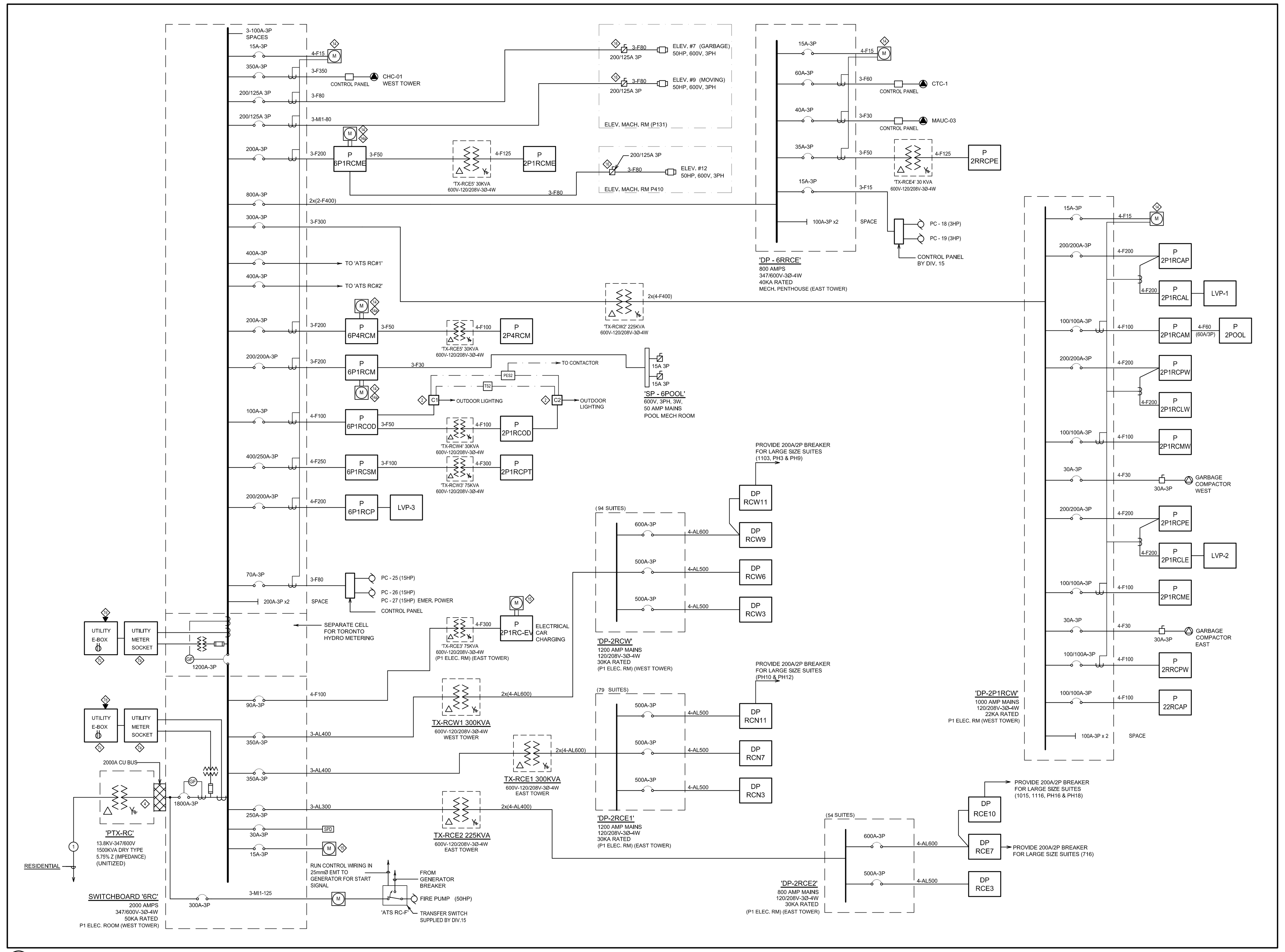
Project

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

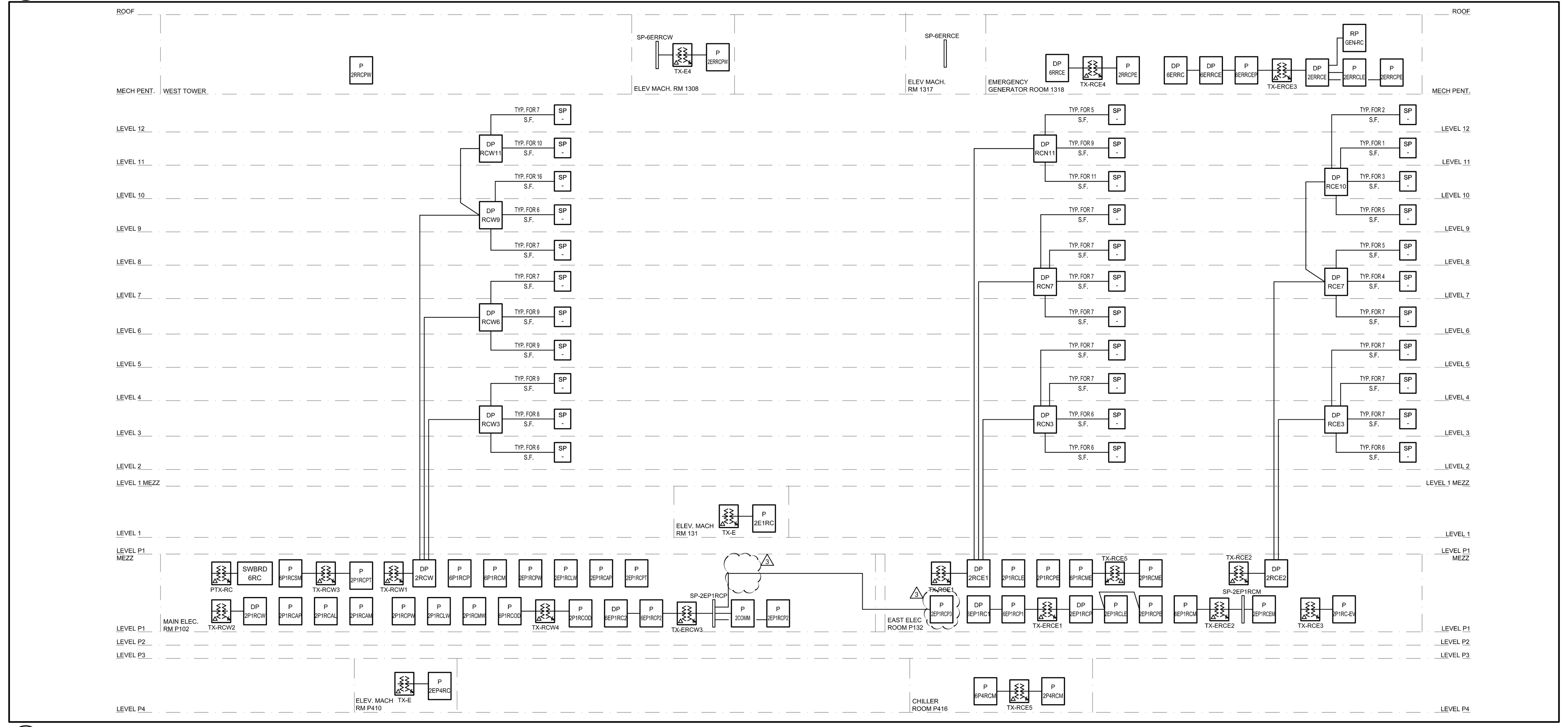
Scale: 1 : 50
Drawn by: Author
Checked by: Checker
Project No.: 8489D
Date: 04/16/15
Drawing No.: E2-14A



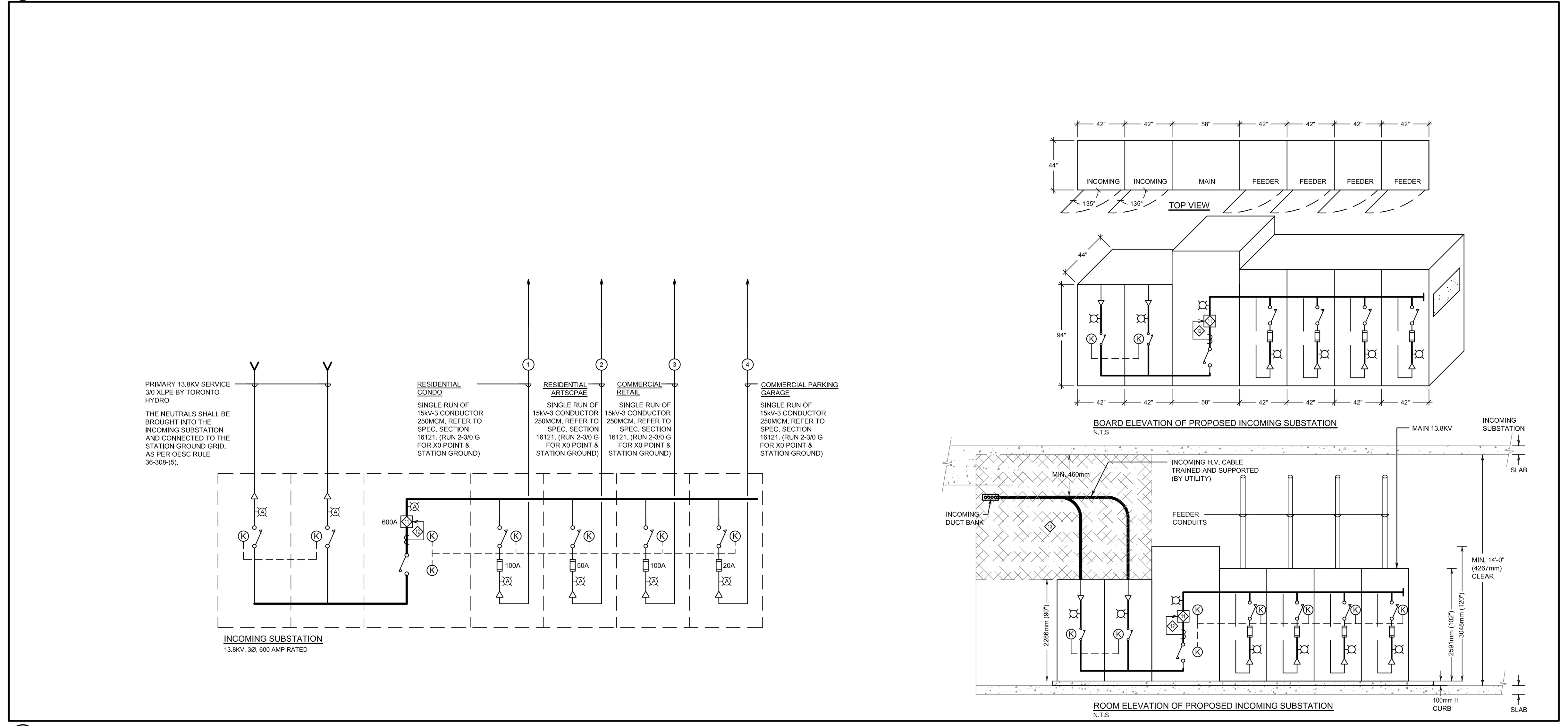
4 E3-01 RESIDENTIAL CONDO EMERGENCY POWER DISTRIBUTION SINGLE LINE DIAGRAM
N.T.S.



3 E3-01 RESIDENTIAL CONDO NORMAL POWER DISTRIBUTION SINGLE LINE DIAGRAM
N.T.S.



5 E3-01 RESIDENTIAL CONDO POWER DISTRIBUTION RISER DIAGRAM
N.T.S.



2 E3-01 INCOMING SUBSTATION RISER DIAGRAM
N.T.S.

600V, 2 HOUR FIRE RATED MI CABLE SCHEDULE

AS MANUFACTURED BY PYROTENAX

PRE-FIX = NO. OF CONDUCTORS

	MAX BREAKER SIZE	REF	AMP	SIZE		MAX BREAKER SIZE	REF	AMP	SIZE
SINGLE CONDUCTOR	15	MI1-15	15	14	THREE CONDUCTORS	15	MI3-15	15	14/3
	20	MI1-20	20	12		20	MI3-20	20	12/3
	30	MI1-30	30	10		30	MI3-30	30	10/3
	70	MI1-70	70	8		50	MI3-50	50	8/3
	90	MI1-90	95	6		60	MI3-60	65	6/3
	125	MI1-125	125	4		80	MI3-80	85	4/3
	150	MI1-150	170	2		100	MI3-100	100	3/3
	175	MI1-175	195	1					
	225	MI1-225	230	1/0					
	250	MI1-250	265	2/0					
	300	MI1-300	310	3/0					
	350	MI1-350	360	4/0					
	400	MI1-400	405	250					
	500	MI1-500	505	350					
	600	MI1-600	620	500					
TWO CONDUCTORS	15	MI2-15	15	14/2	FOUR CONDUCTORS *	15	MI4-15	15	14/4
	20	MI2-20	20	12/2		20	MI4-20	20	12/4
	30	MI2-30	30	10/2		30	MI4-30	30	10/4
	50	MI2-50	50	8/2		50	MI4-50	50	8/4
	60	MI2-60	65	6/2		60	MI4-60	65	6/4
	80	MI2-80	85	4/2					
	100	MI2-100	100	3/2					
	110	MI2-110	115	2/2					
	125	MI2-125	130	1/2					

NOTE:
*- RATING IS BASED ON 3 CONDUCTORS SUPPLYING CURRENT TO THE LOAD;OTHER CONDUCTOR USED AS NEUTRAL OR FOR CONTROL SIGNAL. DERATING FACTORS SHALL APPLY IF 4TH CONDUCTOR IS USED AS CURRENT CARRYING CONDUCTORS.

UPDATED JAN. 2015.

CABLE & CONDUIT SCHEDULE - NUAL

PRE-FIX = NO. OF CONDUCTORS

MAX BREAKER SIZE	REF	WIRE SIZE	AMP @75°C	CORRECTED AMP (8) @90°C	CONDUIT SIZE 4C	3C	2C	BONDING CONDUCTOR
90	AL90	#2	90	76	41 (1 1/2")	35 (1 1/4")	35 (1 1/4")	#6
100	AL100R	#2	90			35 (1 1/4")		#4
100	AL100	#1	100	92	53 (2")	41 (1 1/2")	35 (1 1/4")	#4
125	AL125	#2/0	135	120	53 (2")	53 (2")	-	#4
150	AL150	#3/0	155	140	63 (2 1/2")	53 (2")	-	#4
200	AL200R	#4/0	180			53 (2")		#2
200	AL200	250MCM	205	184	78 (3")	63 (2 1/2")	-	#2
225	AL225	300MCM	230	208	78 (3")	78 (3")	-	#2
250	AL250	350MCM	250	224	78 (3")	78 (3")	-	#2
300	AL300	500MCM MC NUAL	310	280	-	-	-	#1
400	AL400	2 RUNS OF 250MCM MC NUAL	410	368	-	-	-	#2
500	AL500	2 RUNS OF 350MCM MC NUAL	500	448	-	-	-	#2
600	AL600	2 RUNS OF 500MCM MC NUAL	620	560	-	-	-	#1
800	AL800	3 RUNS OF 400MCM MC NUAL	810	732	-	-	-	#2

NOTE:
1. ALL CABLE SHALL BE NUAL 90°C TYPE WITH 75°C AMPACITY TO SUIT BREAKER TERMINATION CHARACTERISTIC.
2. ALL FEEDER SHALL BE PROVIDED WITH BONDING CONDUCTOR AS SHOWN & PER CODE.
3. FOR PARALLEL RUNS, BONDING CONDUCTOR IS REQUIRED IN EACH PARALLEL RUN.
4. RUN PARALLEL FEEDERS FOR RATING OVER 300A.
5. MIN. CABLE SIZE FOR PARALLEL RUN TO BE #1/0.
6. DO NOT USE THIS SCHEDULE FOR UNDERGROUND CABLE. SIZE UNDERGROUND CABLE PER OESC OR IEEE 835.
7. FEEDER TYPE AL100R AND AL200R SHALL ONLY BE USED IN RESIDENTIAL SUITE.
8. USE THIS COLUMN FOR CIRCUIT WITH CURRENT CARRYING NEUTRAL/S. APPLY 0.8 CORRECTION FACTOR FROM TABLE 5C FOR THE 90°C AMPACITY.
9. BOTH 75°C AND THE CORRECTED 90°C (IF APPLY) CABLE AMPACITY MUST BE GREATER THAN THE BREAKER SIZE. UP-SIZE CABLE AS REQUIRED.
10. MC DENOTES MULTI CONDUCTOR.

UPDATED JAN. 2015.

CABLE & CONDUIT SCHEDULE - COPPER

PRE-FIX = NO. OF CONDUCTORS

MAX BREAKER SIZE	REF	WIRE SIZE	AMP @75°C	CORRECTED AMP (8) @90°C	CONDUIT SIZE 4C	3C	2C	BONDING CONDUCTOR
15	F15	#12	25	24	21 (3/4")	21 (3/4")	21 (3/4")	#12
20	F20	#12	25	24	21 (3/4")	21 (3/4")	21 (3/4")	#12
30	F30	#10	35	32	27 (1")	21 (3/4")	21 (3/4")	#10
50	F50	#8	50	44	27 (1")	27 (1")	21 (3/4")	#10
60	F60	#6	65	60	35 (1 1/4")	35 (1 1/4")	27 (1")	#8
80	F80	#4	85	76	41 (1 1/2")	35 (1 1/4")	35 (1 1/4")	#8
100	F100	#3	100	92	41 (1 1/2")	35 (1 1/4")	35 (1 1/4")	#6
125	F125R	#2	115	-	-	41 (2")	-	#6
125	F125	#1	130	116	53 (2")	53 (2")	-	#6
150	F150	#1/0	150	136	53 (2")	53 (2")	-	#6
200	F200R	#2/0	175	-	-	63 (2 1/2")	-	#6
200	F200	#3/0	200	180	78 (3")	63 (2 1/2")	-	#4
225	F225	#4/0	230	208	78 (3")	63 (2 1/2")	-	#4
250	F250	250MCM	255	232	78 (3")	78 (3")	-	#4
300	F300	350MCM	310	280	103 (4")	91 (3 1/2")	-	#3
350	F350	500MCM	380	344	103 (4")	103 (4")	-	#2
400	F400	600MCM	420	380	103 (4")	103 (4")	-	#2

NOTE:
1. ALL CABLE SHALL BE 90°C TYPE WITH 75°C AMPACITY TO SUIT BREAKER TERMINATION CHARACTERISTIC.
2. ALL FEEDER SHALL BE PROVIDED WITH BONDING CONDUCTOR AS SHOWN & PER CODE.
3. FOR PARALLEL RUNS, BONDING CONDUCTOR IS REQUIRED IN EACH PARALLEL RUN.
4. RUN PARALLEL FEEDERS FOR RATING OVER 400A.
5. MIN. CABLE SIZE FOR PARALLEL RUN TO BE #1/0.
6. DO NOT USE THIS SCHEDULE FOR UNDERGROUND CABLE. SIZE UNDERGROUND CABLE PER OESC OR IEEE 835.
7. FEEDER TYPE F125R AND F200R SHALL ONLY BE USED IN RESIDENTIAL SUITE.
8. USE THIS COLUMN FOR CIRCUIT WITH CURRENT CARRYING NEUTRAL/S. APPLY 0.8 CORRECTION FACTOR FROM TABLE 5C FOR THE 90°C AMPACITY.
9. BOTH 75°C AND THE CORRECTED 90°C (IF APPLY) CABLE AMPACITY MUST BE GREATER THAN THE BREAKER SIZE. UP-SIZE CABLE AS REQUIRED.

NOTES:

1. N/A
2. 20A MULTI-POLE LIGHTING CONTACTOR FOR EXTERIOR LIGHTING, COIL C/W TYPE 1 METAL ENCLOSURE. REFER TO DRAWING FOR INDIVIDUAL VOLTAGE RATING. REFER TO PLAN FOR EXACT CIRCUITS TO BE CONTROLLED.
3. PROVIDE FRAME BLOCK OUTLINE AND SINGLE LINE DIAGRAM AS PER OESC 36-006 AND MOUNT IN EACH ELECTRICAL ROOM.
4. SECONDARY NEUTRAL 'XO' SHALL BE GROUNDED TO THE SUBSTATION ELECTRODE WITH A 3/0 AWG COPPER CONDUCTOR.
5. SECONDARY NEUTRAL 'XO' OF TRANSFORMERS SHALL BE GROUNDED TO THE SUBSTATION ELECTRODE WITH A COPPER CONDUCTOR SIZED AS PER TABLE 17 OF OESC.
6. THE LOW VOLTAGE NEUTRAL 'XO' OF THE TRANSFORMERS SHALL BE BONDED TO THE TRANSFORMER ENCLOSURE/GROUND BUS WITH A COPPER CONDUCTOR SIZED AS PER TABLE 16 OF THE OESC.
7. PROVIDE AND INSTALL THE FOLLOWING FOR METERING SOCKET AND E-BOX:
   - 7a) METER SOCKET: MUST BE TRANSFORMER RATED, NO AUTOMATIC BYPASS, PROVISION FOR A 10 POLE TEST PANEL, LOCKABLE COVER, TO BE GROUND EXTERNALLY BY A #6Cu GROUND, 1.5m (5'-0") TO CENTER OF OPENING.
   - 7b) METER CONDUIT: 41mm(1 1/2") CONDUIT, NO LB's PERMITTED UNLESS APPROVED BY DISTRICT METERING CREW LEADER, CONTINUOUS FROM METER INSTRUMENT COMPARTMENT TO METER SOCKET, MAXIMUM OF THREE 90 DEGREE BENDS, MAXIMUM CONDUIT LENGTH IS 30m (100ft).
   - 7c) E-BOX: A 300X300X100mm (12"X12"X4") E-BOX IS TO BE MOUNTED DIRECTLY ADJACENT (50mm 2") TO THE METER SOCKET, THE E-BOX WILL BE CONNECT TO THE SOCKET WITH A 16mm(1/2") CONDUIT. A 120V DUPLEX RECEPTACLE WILL BE LOCATED IN THIS BOX, IF POSSIBLE THE 120V SUPPLY SHOULD COME FROM A UPS. THE E-BOX MUST BE LOCKABLE.
   - 7d) PHONE CONDUIT: 16mm (1/2") CONDUIT, BUSHINGS AT BOTH ENDS, WITH PULL STRING, MUST EXTEND FROM JUST ADJACENT TO METER SOCKET TO WHERE THE PHONE TRUNK LINES WILL BE TERMINATED IN THE MAIN PHONE ROOM.
8. COPPER CABLE WITH EQUIVALENT CURRENT RATING WITH FIRE RATED ENCLOSURE OR BURIED IN CONCRETE AS PER OBC ARE ALLOWED TO USE IN LIEU OF MICC CABLE.
9. IN THE EMERGENCY CONDITION, ONE ELEVATOR SHALL WORK AT A TIME ALONG WITH FIRE FIGHTER'S ELEVATOR.
9A. INTERLOCK ATS RC #2, COMMERCIAL PARKING ATS-CP & RETAIL ATS-CR WITH FIRE PUMP ATS. IF THE FIRE PUMP OPERATION IS REQUIRED, SWITCH OFF THE ATS RC#2, ATS-CP & ATS-CR.
10. N/A
11. VACUUM CIRCUIT BREAKER SHALL MEET ALL REQUIREMENT OF TORONTO HYDRO CUSTOMER OWNED SUBSTATION STANDARD.
12. OVER CURRENT, PHASE & GROUND FAULT RELAY.
13. PROVIDE GALVANIZED CHAIN LINK FENCE IN FRONT & SIDE OF INCOMING CELL TO PROTECT HYDRO WIRES, GROUND FENCE AS REQUIRED AND TO TORONTO HYDRO STANDARD.
14. METERING EQUIPMENT FOR LEED PROGRESS SUPPLIED BY PROVIDENT, INSTALLED BY ELECTRICAL CONTRACTOR
14A. REFER TO DRAWING E5-03 METER SCHEDULES FOR QUANTITY OF CT.
15. HYDRO METERS SUPPLIED BY TORONTO HYDRO, INSTALLED BY ELECTRICAL CONTRACTOR.
16. AUXILIARY CONTACT SHALL BE PROVIDED IN THE DISCONNECT SWITCH FOR BATTERY LOWERING SIGNAL WHEN POWER FAILS.

ELECTRICAL PANEL AND CIRCUIT DESIGNATION

1. 2EP1RCPW-3
   - '3' - DENOTES CIRCUIT NUMBER
   - 'W' - DENOTES WEST TOWER OR EAST TOWER
   - 'P' - DENOTES POWER AND/OR LIGHTING PANEL
   - 'RC' - DENOTES RESIDENTIAL CONDO
   - 'P1' - DENOTES LOCATION OF PANEL (P1 LEVEL)
   - 'E' - DENOTES EMERGENCY PANEL
   - '2' - DENOTES 120/208V OR
   - '6' - DENOTES 347/600V
2. ADDITIONAL DESIGNATIONS

   LAST LETTER 'P' OF THE PANEL DESIGNATION CAN BE REPLACED WITH FOLLOWING LETTERS FOR DIFFERENT TYPE OF PANELS.
   - OD - OUTDOOR LIGHTING
   - AL - AMENITY LIGHTING
   - AP - AMENITY POWER
   - AM - AMENITY MECHANICAL POWER
   - PT - PIPE TRACING
   - SM - SNOW MELTING
   - M - MECHANICAL POWER

   'RC' OF THE PANEL DESIGNATION CAN BE REPLACED WITH THE FOLLOWING DESIGNATIONS
   - CP - COMMERCIAL PARKING GARAGE
   - CR - COMMERCIAL RETAIL
   - RA - RESIDENTIAL ARTSCAPE
3. IF THERE ARE MORE THAN ONE PANEL ON SAME FLOOR WITH SAME DESIGNATION, THEY ARE DIFFERENTIATED BY ADDING 1, 2, 3, E(EAST), W(WEST),ETC. AFTER THE LAST LETTER OF THE PANEL DESIGNATION.

1 E3-01 FEEDER SCHEDULES AND NOTES
N.T.S.

Contractor Must Check And Verify All Dimensions On The Job.

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Date: 03/09/15

LICENSED PROFESSIONAL ENGINEER 8489D D. C. M. BELLAMY PROVINCE OF ONTARIO

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax Dauphin Kelowna Trail Saint John

No.:	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/10
2	ISSUED FOR ADD E-002	2016/01/06
3	ISSUED FOR ADD E-003	2016/01/26

No	Issued For	Date
3	ISSUED FOR TENDER	2015-10-30
2	ISSUED FOR BUILDING PERMIT	2015-06-12
1	WT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
CONDO - SINGLE LINE DIAGRAM

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

Scale: N.T.S
Drawn by: Author
Checked by: Checker
Project No.: 8489D
Date: 03/09/15
Drawing No.: E3-01-RC

Contractor Must Check And Verify All Dimensions On The Job.

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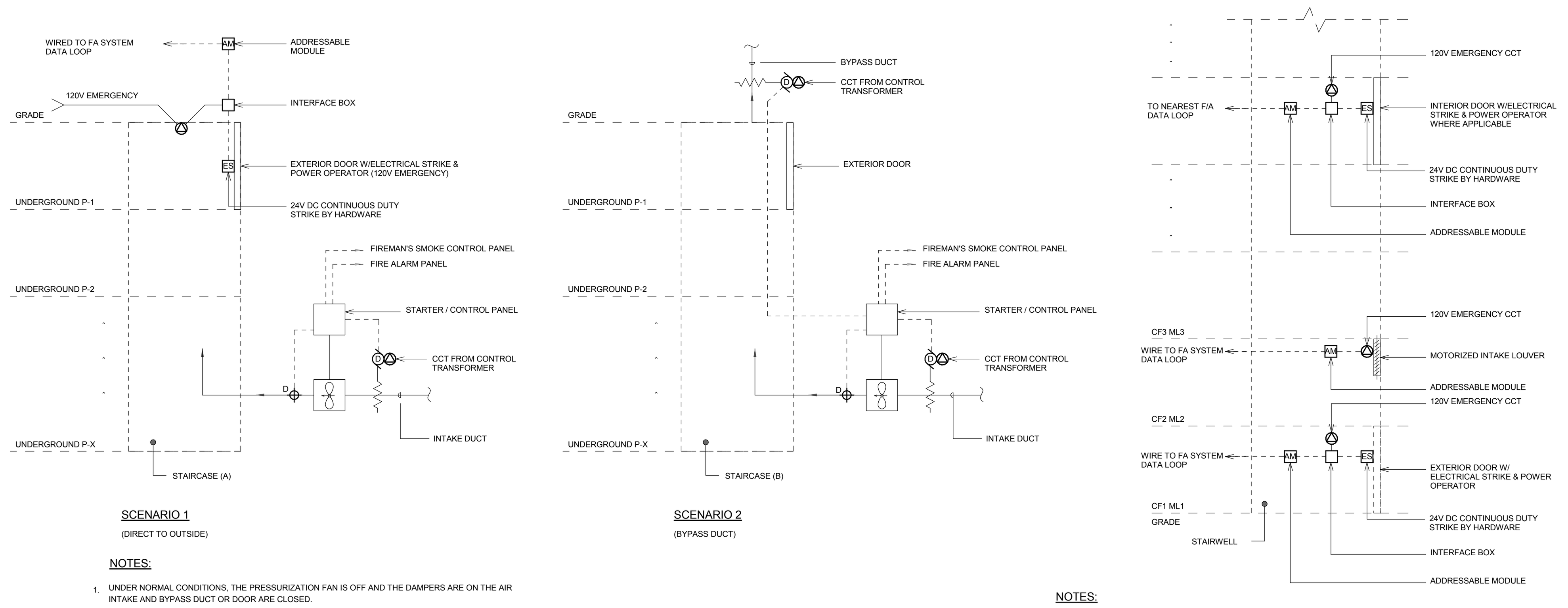
Date: 06/12/15

LICENSED PROFESSIONAL ENGINEER
8489D
D. C. M. BELLAMY
PROVINCE OF ONTARIO

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax Dauphin Kelowna Trail Saint John

No.:	Revision	Date
1	ISSUED FOR ADD E-003	2016/01/26



NOTES:

1. UNDER NORMAL CONDITIONS, THE PRESSURIZATION FAN IS OFF AND THE DAMPERS ARE ON THE AIR INTAKE AND BYPASS DUCT OR DOOR ARE CLOSED.
2. IN A FIRE SITUATION, THROUGH A SIGNAL FROM FIRE ALARM PANEL, THE DAMPER ON THE AIR INTAKE SHALL OPEN. AN END SWITCH ON THE DAMPER ACTUATOR SHALL SIGNAL THE FAN TO RUN WHEN THE DAMPER IS OPEN.
3. FIRE ALARM SIGNAL IS SEND OPEN EXTERIOR DOOR OR BYPASS DAMPER.
4. THE FAN SHOULD BE WIRED FOR MANUAL STOPPING AT CACF.
5. IT SHOULD BE POSSIBLE TO OVERRIDE ALL CONTROLS AND RUN THE SYSTEM THROUGH THE FIREMAN'S SMOKE CONTROL PANEL.

BELOW GRADE STAIRS PRESSURIZATION SYSTEM CONTROL

N.T.S.

NOTES:

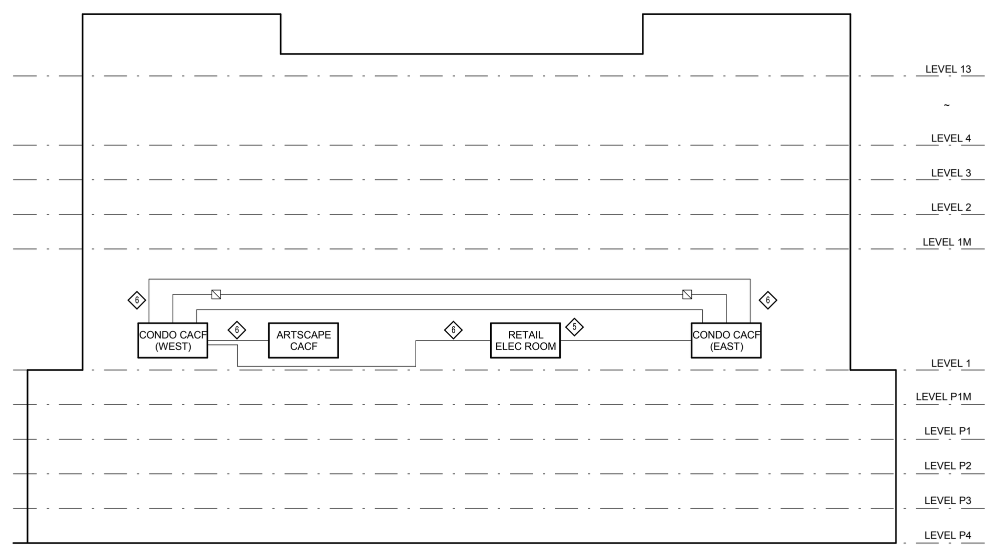
1. UNDER NORMAL CONDITIONS, THE DAMPERS ON THE AIR INTAKE AND DOOR SHALL BE CLOSED.
2. IN A FIRE SITUATION, THROUGH A SIGNAL FROM FIRE ALARM PANEL, THE DAMPER ON THE AIR INTAKE AND/OR DOOR SHALL OPEN.
3. IT SHOULD BE POSSIBLE TO OVERRIDE ALL CONTROLS AND RUN THE SYSTEM THROUGH THE FIREMAN'S SMOKE CONTROL PANEL.

ABOVE GRADE STAIRS VENTILATION SYSTEM CONTROL

N.T.S.

3 BELOW GRADE STAIRS PRESSURIZATION SYSTEM CONTROL & ABOVE GRADE VENTILATION SYSTEM CONTROL

N.T.S

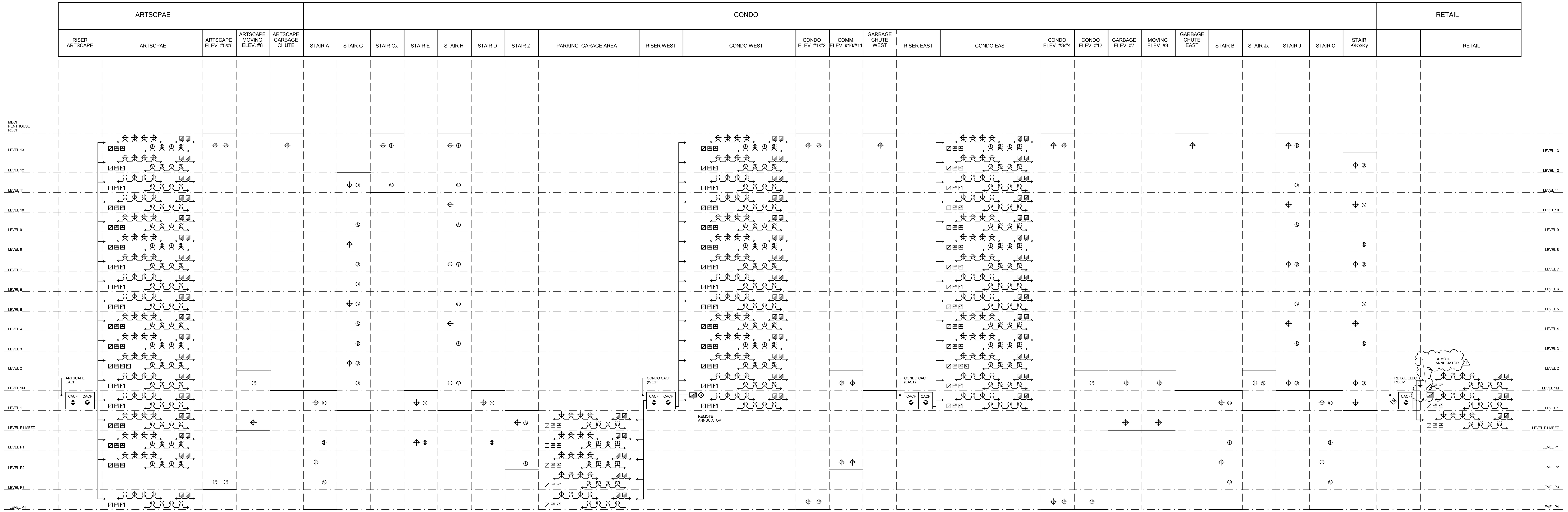


NOTES:

1. FIRE ALARM SYSTEM MUST BE COMMON WITH SEPARATE ALARM CONTROL FACILITY(CACF) AS SHOWN.
2. EACH CACF SHALL CONTROL VOICE COMMUNICATION FOR ALL PARKING LEVELS, IN ADDITION TO INDIVIDUAL FLOOR AREAS IN THE COMPONENT OF BUILDING THAT THE CACF SERVES. EACH CACF SHALL SEND MESSAGES ON ALL LOUDSPEAKERS IN ALL PORTIONS OF THE PROJECT VIA AN ALL CALL SWITCH FOR EACH OF THE BUILDINGS. EACH CACF SHALL ACTUATE SMOKE CONTROL EQUIPMENT PERTAINING TO THE ABOVE0-GRADE PORTION OF THE BUILDING SERVICED BY THE CACF AS WELL AS SMOKE CONTROL EQUIPMENT FOR THE ENTIRE PARKING LEVELS AND AMENITY SPACES ON LOWER GRADE LEVELS.
3. EACH CACF SHALL BE PROVIDED WITH LIGHTS THAT INDICATE IF SMOKE CONTROL EQUIPMENT PERTAINING TO BELOW-GRADE LEVELS AND LOWER GRADE AMENITY SPACE HAVE BEEN ACTIVATED AT THE OTHER CACF. EACH CACF SHALL HAVE INDICATOR LIGHTS DENOTING ACTIVE STATUS FOR ABOVE-GRADE SMOKE CONTROL EQUIPMENT CONTROLLED AT THE OTHER CACF.
4. EACH ANNUNCIATOR TO DISPLAY ALL BELOW-GRADE ZONES AND LOWER GRADE AMENITY SPACES, AS WELL AS ALL FLOORS ABOVE THE GROUND.
5. A SEPARATE 'ADDRESSABLE' FIRE ALARM SUB-CONTROL PANEL WILL BE PROVIDED IN THE RETAIL ELECTRICAL ROOM TO ALLOW CONNECTION FOR ALL RETAIL SPACES, TIED BACK TO THE MAIN FIRE ALARM ROOM.
6. PROVIDE 4-50mmØC BETWEEN CACF ROOMS FOR SYSTEM INTERCONNECTION AS REQUIRED INCLUDING ELEVATOR MONITORING.

2 FIRE ALARM SYSTEM INTERCONNECTION SCHEMATIC

N.T.S



THE FIRE ALARM SYSTEM SHALL BE A MODIFIED TWO STAGE SYSTEM PROGRAMMED TO ALARM FIRE FLOOR/ FLOOR ABOVE AND FLOOR BELOW WHILE ALERT TONES ARE PROVIDED THROUGHOUT THE REST OF THE BUILDING. THE PARKING GARAGE WILL BE TREATED AS A GROUP AND WILL BE ALARMED ON ACTIVATION OF ANY DEVICE ON ANY GARAGE LEVEL.

NOTES:

1. REFER TO SPEC SECTION 16110 FOR ELEVATOR SHAFT/MACHINE ROOM FUNCTIONS.
2. A STAIR SHALL INCLUDE THE STAIR AND ITS LINKED EXIT CORRIDOR SHWON ON FLOOR PLAN.
3. REFER TO FLOOR PLAN FOR DEVICE QUANTITY, TYPE AND LOCATION.
4. ALL CIRCUIT BREAKERS SERVING FIRE ALARM SYSTEM SHALL BE LOCKABLE TYPE.
5. USE HIGH TEMPERATURE HEAT DETECTORS IN MECHANICAL PENTHOUSES.
6. PULL STATION SHALL BE WIRED ON THEIR OWN CIRCUIT.
7. SEPARATE SIGNALS SHALL BE PROVIDED TO ELEVATOR CONTROLLER AS FOLLOWING:
   - GENERAL FIRE ALARM SIGNAL(NOT FROM PULL STATION ACTIVATION).
   - SIGNAL FROM A MACHINE ROOM SMOKE DETECTOR.
   - SIGNAL FROM HOISTWAY TOP OF SHAFT DETECTOR.
   - SIGNAL FROM PIT DETECTOR.
8. PROVIDE REMOTE 'LCD' ANNUNCIATOR AT CONCIERGE DESK.
9. REMOTE FIRE ALARM SYSTEM ANNUNCIATOR AND 'ALL CALL CONTROL PANEL'.
10. A SEPARATE 'ADDRESSABLE' FIRE ALARM SUB-CONTROL PANEL WILL BE PROVIDED IN THE RETAIL ELECTRICAL ROOM TO ALLOW CONNECTION FOR ALL RETAIL SPACES, TIED BACK TO THE MAIN FIRE ALARM ROOM.

1 FIRE ALARM RISER DIAGRAM

N.T.S

No	Issued For	Date
3		
2		
1	ISSUED FOR TENDER	2015-10-30

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
FIRE ALARM RISER DIAGRAM

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	06/12/15
Drawing No.	E4-03

FIRE ALARM SYSTEM

ZONE SCHEDULE

ABBREVIATIONS:
MPS - PULL STATION
HD - HEAT DETECTOR
SD - SMOKE DETECTOR
DMSD - DUCT SMOKE DETECTOR
TD - THERMAL DETECTOR
AV - ALARM CHECK
SC - SUPERVISORY CONTACT
SV - SUPERVISED VALVE
FS - FLOE SWITCH
PS - PRESSURE SWITCH
LPS - LOW PRESSURE SWITCH

CONDO

ZONE	DESCRIPTION	INITIATING DEVICES	REGISTERED AS ALARM	REGISTERED AS TROUBLE	INITIATE AS	DISPLAY
ZP4-1	U/G PARKING LEVEL P4 - W	PS/SD/MPS	✓		CONDO W	ALL CACF
ZP4-2	U/G PARKING LEVEL P4 - E	PS/SD/MPS	✓		CONDO E	ALL CACF
ZP4-3	U/G PARKING LEVEL P4 - ELEVATOR LOBBY (P403)	SD	✓		CONDO W	ALL CACF
ZP4-4	U/G PARKING LEVEL P4 - ELEVATOR LOBBY (P413)	SD	✓		CONDO E	ALL CACF
ZP4-5	U/G PARKING LEVEL P4 - ELEVATOR LOBBY (ELEV. #12)	SD	✓		CONDO E	ALL CACF
ZP4-6	U/G PARKING LEVEL P4 - BOILER ROOM (HIGH TEMPERATURE)	FS/HD	✓		CONDO E	ALL CACF
ZP4-7	U/G PARKING LEVEL P4 - CHILLER ROOM	FS/HD	✓		CONDO E	ALL CACF
ZP4-8	U/G PARKING LEVEL P4 - ELEVATOR MACHINE ROOM (P410)	SD	✓		CONDO E	ALL CACF
ZP4-9	U/G PARKING LEVEL P4 - FITRATION SYSTEM ROOM (P418)	FS/HD	✓		CONDO E	ALL CACF
ZP3-1	U/G PARKING LEVEL P3 - WEST	PS/SD/MPS	✓		CONDO W	ALL CACF
ZP3-2	U/G PARKING LEVEL P3 - EAST	PS/SD/MPS	✓		CONDO E	ALL CACF
ZP3-3	U/G PARKING LEVEL P3 - ELEVATOR LOBBY (P302)	SD	✓		CONDO W	ALL CACF
ZP3-4	U/G PARKING LEVEL P3 - ELEVATOR LOBBY (P308)	SD	✓		CONDO E	ALL CACF
ZP3-5	U/G PARKING LEVEL P3 - ELEVATOR LOBBY (ELEV. #12)	SD	✓		CONDO E	ALL CACF
ZP3-6	SPARE					
ZP3-7	SPARE					
ZP2-1	SPARE					
ZP2-2	U/G PARKING LEVEL P2 - EAST	PS/SD/MPS	✓		CONDO E	ALL CACF
ZP2-3	SPARE				CONDO W	ALL CACF
ZP2-4	U/G PARKING LEVEL P2 - ELEVATOR LOBBY (P215)	SD	✓		CONDO E	ALL CACF
ZP2-5	U/G PARKING LEVEL P2 - ELEVATOR LOBBY (ELEV. #12)	SD	✓		CONDO E	ALL CACF
ZP2-6	U/G PARKING LEVEL P2 - MECHANICAL ROOM (P216)	HD/FS	✓		CONDO E	ALL CACF
ZP2-7	U/G PARKING LEVEL P2 - MECHANICAL ROOM (P217)	HD/FS	✓		CONDO E	ALL CACF
ZP2-8	U/G PARKING LEVEL P2 - ELEVATOR MACHINE ROOM (P209)	SD	✓		CONDO W	ALL CACF
ZP2-9	U/G PARKING LEVEL P2 - PARK ELECTRICAL ROOM (P218)	SD	✓		CONDO E	ALL CACF
ZP2-10	U/G PARKING LEVEL P2 - LOFTY CCU ROOM	SD	✓		CONDO W	ALL CACF
ZP2-11	U/G PARKING LEVEL P2 - CONDO CCU ROOM	SD	✓		CONDO W	ALL CACF
ZP2-12	U/G PARKING LEVEL P2 - BEANFIELD MAIN ENTRANCE ROOM	SD	✓		CONDO W	ALL CACF
ZP1-1	U/G PARKING LEVEL P1 - WEST	PS/SD/MPS	✓		CONDO W	ALL CACF
ZP1-2	U/G PARKING LEVEL P1 - EAST	PS/SD/MPS	✓		CONDO E	ALL CACF
ZP1-3	U/G PARKING LEVEL P1 - AMENTITY	FS/SD/MPS	✓		CONDO W	ALL CACF
ZP1-4	U/G PARKING LEVEL P1 - ELEVATOR LOBBY (P117)	SD	✓		CONDO W	ALL CACF
ZP1-5	U/G PARKING LEVEL P1 - ELEVATOR LOBBY (P130)	SD	✓		CONDO E	ALL CACF
ZP1-6	U/G PARKING LEVEL P1 - ELEVATOR LOBBY (ELEV. #12)	SD	✓		CONDO E	ALL CACF
ZP1-7	U/G PARKING LEVEL P1 - ELEVATOR LOBBY (P123)	SD	✓		CONDO W	ALL CACF
ZP1-8	U/G PARKING LEVEL P1 - MAIN ELETRICAL ROOM (P102)	SD	✓		CONDO W	ALL CACF
ZP1-9	U/G PARKING LEVEL P1 - EAST CONDO ELETRICAL ROOM (P132)	SD	✓		CONDO E	ALL CACF
ZP1-10	U/G PARKING LEVEL P1 - COMM. ELETRICAL ROOM (P131)	SD	✓		CONDO E	ALL CACF
ZP1-11	U/G PARKING LEVEL P1 - ELEVATOR MACHINE ROOM (P125)	SD	✓		CONDO E	ALL CACF
ZP1-12	U/G PARKING LEVEL P1 - SPRINKLER ROOM (P121)	HD/FS	✓		CONDO W	ALL CACF
ZP1-13	U/G PARKING LEVEL P1 - MAKE-UP AIR UNIT ROOM (P122)	HD/FS	✓		CONDO W	ALL CACF
ZP1-14	U/G PARKING LEVEL P1 - SECURITY ROOM (P105)	SD	✓		CONDO W	ALL CACF
ZP1-15	U/G PARKING LEVEL P1 - WINDOW SPRINKER COMM. VEST (P124)	FS	✓		CONDO W	ALL CACF
ZP1M-1	U/G PARKING LEVEL P1M - SANITARY PIPE ROOM	HD/FS	✓		CONDO W	ALL CACF
ZP1M-2	SPARE					
Z1-1	LEVEL 1 - CONDO - WEST	FS/MPS/SD	✓		CONDO W	C/W & C/E
Z1-2	LEVEL 1 - ELEVATOR LOBBY - COMMERCIAL	FS/MPS/SD	✓		CONDO W	C/W & C/E
Z1-3	LEVEL 1 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
Z1-4	LEVEL 1 - CONDO - EAST GARBAGE ROOM	HD/FS	✓		CONDO E	C/W & C/E
Z1-5	LEVEL 1 - CONDO - LOADING	PS/MPS	✓		CONDO E	C/W & C/E
Z1-6	LEVEL 1 - CONDO - SERVICE CORRIDOR	MPS/SD	✓		CONDO E	C/W & C/E
Z1-7	LEVEL 1 - CONDO - ELEVATOR ROOM (131)	SD	✓		CONDO E	C/W & C/E
Z1M-1	LEVEL 1 MEZZANINE - CONDO - SERVICE CORRIDOR	SD	✓		CONDO W	C/W & C/E
Z1M-2	LEVEL 1 MEZZANINE - CONDO - WEST GABAGE ROOM	HD/FS	✓		CONDO W	C/W & C/E
Z1M-3	LEVEL 1 MEZZANINE - CONDO - MAKE-UP AIR UNIT ROOM	HD/FS	✓		CONDO W	C/W & C/E
Z1M-4	LEVEL 1 MEZZANINE - CONDO - RECYCLING DROP OOF ROOM	HD/FS	✓		CONDO W	C/W & C/E
Z1M-5	LEVEL 1 MEZZANINE - CONDO - POOL MECH ROOM	HD/FS	✓		CONDO E	C/W & C/E
Z2-1	LEVEL 2 - CONDO - WEST	FS/MPS/SD	✓		CONDO W	C/W & C/E
Z2-2	LEVEL 2 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
Z2-3	LEVEL 2 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
Z2-4	LEVEL 2 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
Z2-5	LEVEL 2 - CONDO - AMENITY	FS/MPS/SD	✓		CONDO W	C/W & C/E
Z3-1	LEVEL 3 - CONDO - WEST	FS/MPS/SD	✓		CONDO W	C/W & C/E
Z3-2	LEVEL 3 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
Z3-3	LEVEL 3 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
Z3-4	LEVEL 3 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
Z4-1	LEVEL 4 - CONDO - WEST	FS/MPS/SD	✓		CONDO W	C/W & C/E
Z4-2	LEVEL 4 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
Z4-3	LEVEL 4 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
Z4-4	LEVEL 4 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
Z5-1	LEVEL 5 - CONDO - WEST	FS/MPS/SD	✓		CONDO W	C/W & C/E
Z5-2	LEVEL 5 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
Z5-3	LEVEL 5 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
Z5-4	LEVEL 5 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
Z6-1	LEVEL 6 - CONDO - WEST	FS/MPS/SD	✓		CONDO W	C/W & C/E
Z6-2	LEVEL 6 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
Z6-3	LEVEL 6 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
Z6-4	LEVEL 6 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
Z7-1	LEVEL 7 - CONDO - WEST	FS/MPS/SD	✓		CONDO W	C/W & C/E
Z7-2	LEVEL 7 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
Z7-3	LEVEL 7 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
Z7-4	LEVEL 7 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
Z8-1	LEVEL 8 - CONDO - WEST	FS/MPS/SD	✓		CONDO W	C/W & C/E
Z8-2	LEVEL 8 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
Z8-3	LEVEL 8 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
Z8-4	LEVEL 8 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
Z9-1	LEVEL 9 - CONDO - WEST	FS/MPS/SD	✓		CONDO W	C/W & C/E
Z9-2	LEVEL 9 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
Z9-3	LEVEL 9 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
Z9-4	LEVEL 9 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
Z10-1	LEVEL 10 - CONDO	FS/MPS/SD	✓		CONDO W	C/W & C/E
Z10-2	LEVEL 10 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
Z10-3	LEVEL 10 - CONDO - CENTER - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
Z10-4	LEVEL 10 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
Z11-1	LEVEL 11 - CONDO	FS/MPS/SD	✓		CONDO W	C/W & C/E
Z11-2	LEVEL 11 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
Z11-3	LEVEL 11 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
Z11-4	SAPRE					
Z12-1	LEVEL 12 - CONDO - WEST	FS/MPS/SD	✓		CONDO W	C/W & C/E
Z12-2	LEVEL 12 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
Z12-3	LEVEL 12 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
Z12-4	LEVEL 12 - CONDO - EAST - ELECTRICAL CLOSET	SD	✓		CONDO E	C/W & C/E
Z13-1	LEVEL 13 - CONDO - WEST - ELECTRICAL CLOSET	SD	✓		CONDO W	C/W & C/E
Z13-2	LEVEL 13 - CONDO - EAST	FS/MPS/SD	✓		CONDO E	C/W & C/E
Z13-3	LEVEL 13 - CONDO - EAST - GENERATOR ROOM (HIGH TEMP.)	FS/HD/SD	✓		CONDO E	C/W & C/E
Z13-4	LEVEL 13 - CONDO - EAST - ELEVATOR MACHINE ROOM	FS/HD	✓		CONDO E	C/W & C/E
Z13-5	LEVEL 13 - CONDO - EAST - MECHANICAL ROOM	FS/HD	✓		CONDO E	C/W & C/E
Z13-6	LEVEL 13 - CONDO - EAST - NET ZERO MECHANICAL ROOM	SD	✓		CONDO E	C/W & C/E
Z13-7	LEVEL 13 - CONDO - EAST - LOFTY CCU ROOM	SD	✓		CONDO E	C/W & C/E
Z13-8	LEVEL 13 - CONDO - EAST - CONDO CCU ROOM	SD	✓		CONDO E	C/W & C/E
Z13-9	LEVEL 13 - CONDO - EAST - BEANFIELD MAIN ENTRANCE ROOM	SD	✓		CONDO E	C/W & C/E
Z14	SPARE					
Z15	SPARE					
Z16	GARBAGE CHUTE - WEST 1	FS/HD	✓		CONDO W	C/W & C/E
Z17	GARBAGE CHUTE - WEST 2	FS/HD	✓		CONDO W	C/W & C/E
Z18	GARBAGE CHUTE - EAST 1	FS/HD	✓		CONDO E	C/W & C/E
Z19	GARBAGE CHUTE - EAST 2	FS/HD	✓		CONDO E	C/W & C/E
Z20	SPARE					
Z21	SPARE					
Z22	STAIR A	SD	✓		CONDO W	C/W & C/E
Z23	STAIR G/Gx	SD	✓		CONDO W	C/W & C/E
Z24	STAIR E	SD	✓		CONDO W	C/W & C/E
Z25	STAIR H	SD	✓		CONDO W	C/W & C/E
Z26	STAIR D	SD	✓		CONDO W	C/W & C/E
Z27	STAIR Z	SD	✓		CONDO W	C/W & C/E

CONDO

ZONE	DESCRIPTION	INITIATING DEVICES	REGISTERED AS ALARM	REGISTERED AS TROUBLE	INITIATE AS	DISPLAY
Z28	STAIR B	SD	✓		CONDO E	C/W & C/E
Z29	STAIR Jx	SD	✓		CONDO E	C/W & C/E
Z30	STAIR J	SD	✓		CONDO E	C/W & C/E
Z31	STAIR C	SD	✓		CONDO E	C/W & C/E
Z32	STAIR K/Kx/Ky	SD	✓		CONDO E	C/W & C/E
Z33	SPARE					
Z34	SPARE					
Z35	SPARE					
Z36	ELEVATOR #1 PIT - CONDO	HD	✓		CONDO W	C/W & C/E
Z37	ELEVATOR #1 SHAFT - CONDO	HD	✓		CONDO W	C/W & C/E
Z38	SPARE					
Z39	ELEVATOR #2 PIT - CONDO	HD	✓		CONDO W	C/W & C/E
Z40	ELEVATOR #2 SHAFT - CONDO	HD	✓		CONDO W	C/W & C/E
Z41	SPARE					
Z42	ELEVATOR #3 PIT - CONDO	HD	✓		CONDO E	C/W & C/E
Z43	ELEVATOR #3 SHAFT - CONDO	HD	✓		CONDO E	C/W & C/E
Z44	SPARE					
Z45	ELEVATOR #4 PIT - CONDO	HD	✓		CONDO E	C/W & C/E
Z46	ELEVATOR #4 SHAFT - CONDO	HD	✓		CONDO E	C/W & C/E
Z47	SPARE					
Z48	ELEVATOR #7 PIT - CONDO - GARBAGE	HD	✓		CONDO E	C/W & C/E
Z49	ELEVATOR #7 SHAFT - CONDO - GARBAGE	HD	✓		CONDO E	C/W & C/E
Z50	SPARE					
Z51	ELEVATOR #9 PIT - CONDO - MOVING	HD	✓		CONDO E	C/W & C/E
Z52	ELEVATOR #9 SHAFT - CONDO - MOVING	HD	✓		CONDO E	C/W & C/E
Z53	SPARE					
Z54	ELEVATOR #10 PIT - COMM.	HD	✓		CONDO W	C/W & C/E
Z55	ELEVATOR #10 SHAFT - COMM.	HD	✓		CONDO W	C/W & C/E
Z56	SPARE					
Z57	ELEVATOR #11 PIT - COMM.	HD	✓		CONDO W	C/W & C/E
Z58	ELEVATOR #11 SHAFT - COMM.	HD	✓		CONDO W	C/W & C/E
Z59	SPARE					
Z60	ELEVATOR #12 PIT - CONDO	HD	✓		CONDO E	C/W & C/E
Z61	ELEVATOR #12 SHAFT - CONDO	HD	✓		CONDO E	C/W & C/E
Z62	SPARE					
Z63	PRE AMPLIFIER TROUBLE			✓	CONDO W	C/W & C/E
Z64	TEL. VOICE TROUBLE			✓	CONDO W	C/W & C/E
Z65	COMMON TROUBLE			✓	CONDO W	C/W & C/E
Z66	SILENCE SWITCH			✓	CONDO W	C/W & C/E
Z67	SPRINKLER LOSS OF AIR PRESSURE			✓	CONDO W	C/W & C/E
Z68	SPRINKLER LOSS OF WATER PRESSURE			✓	CONDO W	C/W & C/E
Z69	SPRINKLER COMPRESSOR LOSS OF POWER			✓	CONDO W	C/W & C/E
Z70	SPRINKLER ROOM LOW TEMPERATURE			✓	CONDO W	C/W & C/E
Z71	JOCKEY PUMP			✓	CONDO W	C/W & C/E
Z72	PIPE TRACING PANEL FOR SPRINKLER/STAND PIPE LOSS OF POWER			✓	CONDO W	C/W & C/E
Z73	FIRE PUMP LOSS OF POWER			✓	CONDO W	C/W & C/E
Z74	FIRE PUMP RUNNING			✓	CONDO W	C/W & C/E
Z75	FIRE PUMP PHASE REVERSED			✓	CONDO W	C/W & C/E
Z76	GENERATOR LOW BATTERY			✓	CONDO E	C/W & C/E
Z77	GENERATOR RUNNING			✓	CONDO E	C/W & C/E
Z78	GENERATOR TROUBLE (COMMON)			✓	CONDO E	C/W & C/E
Z79	GENERATOR LOW GAS PRESSURE			✓	CONDO E	C/W & C/E
Z80	GENERATOR COMBUSTION AIR DAMPER FAULT			✓	CONDO E	C/W & C/E
Z81	GAS METER VALAVE MONITORING	SV	✓		CONDO E	C/W & C/E
Z82	SPARE					
Z83	SNOW MELTING PANEL (P1 LEVEL)			✓	CONDO W	C/W & C/E
Z84	SNOW MELTING PANEL (LEVEL 13 AMENITY)			✓	CONDO W	C/W & C/E
Z85	PIPE TRACING PANEL (P1 LEVEL)			✓	CONDO W	C/W & C/E
Z86	PIPE TRACING PANEL (LEVEL13 AMENITY)			✓	CONDO W	C/W & C/E
Z87	MAIN STORAGE TANK - LOW LEVEL			✓	CONDO W	C/W & C/E
Z88	MAIN STORAGE TANK - WATER TEMPERATURE			✓	CONDO W	C/W & C/E
Z89	MECHANICAL ROOM CO DETECTOR			✓	CONDO W	C/W & C/E
Z90	SPARE					
Z91	MAKE-UP AIR UNIT #1 - CONDO	DMSD	✓		CONDO W	C/W & C/E
Z92	MAKE-UP AIR UNIT #2 - CONDO	DMSD	✓		CONDO W	C/W & C/E
Z93	MAKE-UP AIR UNIT #3 - CONDO	DMSD	✓		CONDO E	C/W & C/E
Z94	SPARE					
Z95	SPARE					
Z96	STAIR PRESS SFC-03 - STAIR A	DMSD	✓		CONDO W	C/W & C/E
Z97	STAIR PRESS SF-X - STAIR E	DMSD	✓		CONDO W	C/W & C/E
Z98	STAIR PRESS SFCM-01 - STAIR D	DMSD	✓		CONDO W	C/W & C/E
Z99	STAIR PRESS SFC-01 - STAIR B	DMSD	✓		CONDO E	C/W & C/E
Z100	STAIR PRESS SFC-02 - STAIR C	DMSD	✓		CONDO E	C/W & C/E
Z101	SPARE					
Z102	FILTRATION SUMP PUMP HIGH FLOAT ALARM			✓	CONDO E	C/W & C/E
Z103	SPARE					
Z104	SPARE					
Z105	SPARE					
Z106	SPARE					
Z107	SPARE					
Z108	SPARE					
Z109	SPARE					
Z110	SPARE					
Z111	SPARE					
Z112	SPARE					
Z113	SPARE					
Z114	SPARE					
Z115	SPARE					
Z116	SPARE					
Z117	SPARE					
Z118	SPARE					
Z119	SPARE					
Z120	SPARE					

REFER TO 'MIRENDA' DRAWING 'SP-20' FOR COMPLETE PRESSURE SWITCH, FLOW SWITCH & SUPERVISORY VALVE SCHEDULE

ARTSCAPE

ZONE	DESCRIPTION	INITIATING DEVICES	REGISTERED AS ALARM	REGISTERED AS TROUBLE	INITIATE AS	DISPLAY
ZP4-1-A	U/G PARKING LEVEL P4 - ARTSCAPE BOILER ROOM (HIGH TEMP.)	FS/HD	✓		ARTSCAPE	ALL CACF
ZP4-2-A	U/G PARKING LEVEL P4 - ARTSCAPE CHILLER ROOM	FS/HD	✓		ARTSCAPE	ALL CACF
ZP2-1-A	U/G PARKING LEVEL P2 - ARTSCAPE - WEST	PS/SD/MPS	✓		ARTSCAPE	ALL CACF
ZP2-2-A	U/G PARKING LEVEL P2 - ARTSCAPE ELEVATOR LOBBY (P205)	SD	✓		ARTSCAPE	ALL CACF
ZP1-1-A	U/G PARKING LEVEL P1 - ARTSCAPE ELEVATOR ROOM (P125)	SD	✓		ARTSCAPE	ALL CACF
ZP1M-1-A	LEVEL P1M - ARTSCAPE - ELECTRICAL ROOM	SD	✓		ARTSCAPE	ALL CACF
Z1-1-A	LEVEL 1 - ARTSCAPE - ELEVATOR LOBBY	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
Z1M-1-A	LEVEL 1M - ARTSCAPE	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
Z1M-2-A	LEVEL 1M - ARTSCAPE - GARBAGE ROOM	SD	✓		ARTSCAPE	ALL CACF
Z2-1-A	LEVEL 2 - ARTSCAPE	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
Z2-2-A	LEVEL 2 - ARTSCAPE - ELEC. CLOSET	SD	✓		ARTSCAPE	ALL CACF
Z3-1-A	LEVEL 3 - ARTSCAPE	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
Z3-2-A	LEVEL 3 - ARTSCAPE - ELEC. CLOSET	SD	✓		ARTSCAPE	ALL CACF
Z4-1-A	LEVEL 4 - ARTSCAPE	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
Z4-2-A	LEVEL 4 - ARTSCAPE - ELEC. CLOSET	SD	✓		ARTSCAPE	ALL CACF
Z5-1-A	LEVEL 5 - ARTSCAPE	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
Z5-2-A	LEVEL 5 - ARTSCAPE - ELEC. CLOSET	SD	✓		ARTSCAPE	ALL CACF
Z6-1-A	LEVEL 6 - ARTSCAPE	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
Z6-2-A	LEVEL 6 - ARTSCAPE - ELEC. CLOSET	SD	✓		ARTSCAPE	ALL CACF
Z7-1-A	LEVEL 7 - ARTSCAPE	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
Z7-2-A	LEVEL 7 - ARTSCAPE - ELEC. CLOSET	SD	✓		ARTSCAPE	ALL CACF
Z8-1-A	LEVEL 8 - ARTSCAPE	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
Z8-2-A	LEVEL 8 - ARTSCAPE - ELEC. CLOSET	SD	✓		ARTSCAPE	ALL CACF
Z9-1-A	LEVEL 9 - ARTSCAPE	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
Z9-2-A	LEVEL 9 - ARTSCAPE - ELEC. CLOSET	SD	✓		ARTSCAPE	ALL CACF
Z13-1-A	LEVEL 13 - ARTSCAPE - ELEVATOR LOBBY	SD	✓		ARTSCAPE	ALL CACF
Z13-2-A	LEVEL 13 - ARTSCAPE - ELEVATOR MACHINE ROOM	SD	✓		ARTSCAPE	ALL CACF
Z13-3-A	LEVEL 13 - ARTSCAPE - AMENITY	FS/MPS/SD	✓		ARTSCAPE	ALL CACF
Z13-4-A	LEVEL 13 - ARTSCAPE - ELECTRICAL ROOM	SD	✓		ARTSCAPE	ALL CACF
Z13-5-A	LEVEL 13 - ARTSCAPE - GENERATOR ROOM (HIGH TEMP.)	FS/HD/SD	✓		ARTSCAPE	ALL CACF
Z13-6-A	LEVEL 13 - ARTSCAPE - MECHANICAL ROOM	FS/HD	✓		ARTSCAPE	ALL CACF
Z14-A	GARBAGE CHUTE - ARTSCAPE	FS/HD	✓		ARTSCAPE	ALL CACF
Z15-A	SPARE					
Z16-A	ELEVATOR #5 PIT - ARTSCAPE	HD	✓		ARTSCAPE	ALL CACF
Z17-A	ELEVATOR #5 SHAFT - ARTSCAPE	HD	✓		ARTSCAPE	ALL CACF
Z18-A	ELEVATOR #6 PIT - ARTSCAPE	HD	✓		ARTSCAPE	ALL CACF
Z19-A	ELEVATOR #6 SHAFT - ARTSCAPE	HD	✓		ARTSCAPE	ALL CACF
Z20-A	ELEVATOR #8 PIT - ARTSCAPE - MOVING	HD	✓		ARTSCAPE	ALL CACF
Z21-A	ELEVATOR #8 SHAFT - ARTSCAPE - MOVING	HD	✓		ARTSCAPE	ALL CACF
Z22-A	SPARE					
Z23-A	SPARE					
Z24-A	GENERATOR RUNNING			✓	ARTSCAPE	ALL CACF
Z25-A	GENERATOR TROUBLE (COMMON)			✓	ARTSCAPE	ALL CACF
Z26-A	GENERATOR LOW GAS PRESSURE			✓	ARTSCAPE	ALL CACF
Z27-A	GENERATOR COMBUSTION AIR DAMPER FAULT			✓	ARTSCAPE	ALL CACF
Z28-A	GAS METER VALAVE MONITORING	SV	✓		ARTSCAPE	ALL CACF
Z29-A	SPARE			✓	ARTSCAPE	ALL CACF
Z30-A	SNOW MELTING PANEL (LEVEL 1)			✓	ARTSCAPE	ALL CACF
Z31-A	SNOW MELTING PANEL (LEVEL 13)			✓	ARTSCAPE	ALL CACF
Z32-A	PIPE TRACING PANEL (LEVEL 1)			✓	ARTSCAPE	ALL CACF
Z33-A	PIPE TRACING PANEL (LEVEL13)			✓	ARTSCAPE	ALL CACF
Z34-A	MECHANICAL ROOM CO DETECTOR			✓	ARTSCAPE	ALL CACF
Z35-A	SPARE				ARTSCAPE	ALL CACF
Z36-A	MAKE-UP AIR UNIT - ARTSCAPE	DMSD	✓		ARTSCAPE	ALL CACF
Z37-A	SPARE					
Z38-A	SPARE					
Z39-A	SPARE					
Z40-A	SPARE					
Z41-A	SPARE					
Z42-A	SPARE					
Z43-A	SPARE					
Z44-A	SPARE					
Z45-A	SPARE					
Z46-A	SPARE					
Z47-A	SPARE					
Z48-A	SPARE					
Z49-A	SPARE					
Z50-A	SPARE					

REFER TO 'MIRENDA' DRAWING 'SP-20' FOR COMPLETE PRESSURE SWITCH, FLOW SWITCH & SUPERVISORY VALVE SCHEDULE

RETAIL

ZONE	DESCRIPTION	INITIATING DEVICES	REGISTERED AS ALARM	REGISTERED AS TROUBLE	INITIATE AS	DISPLAY
ZP1M-1-R	LEVEL P1M - RETAIL - CHILLER ROOM	FS/HD	✓		RETAIL	ALL CACF
Z1-1-R	LEVEL 1 - RETAIL - WEST	FS/MPS	✓		RETAIL	ALL CACF
Z1-2-R	LEVEL 1 - RETAIL - EAST	FS/MPS	✓		RETAIL	ALL CACF
Z1-3-R	LEVEL 1 - RETAIL - GARBAGE ROOM	FS/HD	✓		RETAIL	ALL CACF
Z1-4-R	LEVEL 1 - RETAIL - LOADING	PS/MPS	✓		RETAIL	ALL CACF
Z1M-1-R	LEVEL 1M - RETAIL - CONDESER ROOM	FS/HD	✓		RETAIL	ALL CACF
Z1M-2-R	LEVEL 1M - RETAIL - ELECTRICAL ROOM	SD	✓		RETAIL	ALL CACF
Z1M-3-R	LEVEL 1M - RETAIL - MAKE-UP AIR UNIT ROOM	FS/HD	✓		RETAIL	ALL CACF
Z1M-4-R	LEVEL 1M - RETAIL - MECHANICAL ROOM	FS/HD	✓		RETAIL	ALL CACF
Z2	MAKE-UP AIR UNIT - RETAIL	DMSD	✓		RETAIL	ALL CACF
Z	TO BE DETERMINED					
Z						
Z						
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VOICE COMMUNICATION

ZONE	DESCRIPTION	CONTROL LOCATION
VP4	U/G PARKING LEVEL P4	ALL CACF
VP3	U/G PARKING LEVEL P3	ALL CACF
VP2	U/G PARKING LEVEL P2	ALL CACF
VP1	U/G PARKING LEVEL P1	ALL CACF
VP1M	U/G PARKING LEVEL P1M	ALL CACF
	SPARE	
V1-1	LEVEL 1 - WEST	CONDO W
V1-2	LEVEL 1 - EAST	CONDO E
V1M-1	LEVEL 1 MEZZANINE - WEST	CONDO W
V1M-2	LEVEL 1 MEZZANINE - EAST	CONDO E
V2-1	LEVEL 2 - WEST	CONDO W
V2-2	LEVEL 2 - EAST	CONDO E
V3-1	LEVEL 3 - WEST	CONDO W
V3-2	LEVEL 3 - EAST	CONDO E
V4-1	LEVEL 4 - WEST	CONDO W
V4-2	LEVEL 4 - EAST	CONDO E
V5-1	LEVEL 5 - WEST	CONDO W
V5-2	LEVEL 5 - EAST	CONDO E
V6-1	LEVEL 6 - WEST	CONDO W
V6-2	LEVEL 6 - EAST	CONDO E
V7-1	LEVEL 7 - WEST	CONDO W
V7-2	LEVEL 7 - EAST	CONDO E
V8-1	LEVEL 8 - WEST	CONDO W
V8-2	LEVEL 8 - EAST	CONDO E
V9-1	LEVEL 9 - WEST	CONDO W
V9-2	LEVEL 9 - EAST	CONDO E
V10	LEVEL 10	CONDO W
V11	LEVEL 11	CONDO W
V12-1	LEVEL 12 - WEST	CONDO W
V12-2	LEVEL 12 - EAST	CONDO E
V13-1	LEVEL 13 - WEST	CONDO W
V13-2	LEVEL 13 - EAST	CONDO E
V14	SPARE	
V15	ALL CALL -	ALL CACF
V16	STAIR A	ALL CACF
V17	STAIR B	ALL CACF
V18	STAIR C	ALL CACF
V19	STAIR D	ALL CACF
V20	STAIR E	ALL CACF
V21	SPARE	
V22	STAIR G/Gx	CONDO W
V23	STAIR H	CONDO W
V24	STAIR J	CONDO E
V25	STAIR Jx	ALL CACF
V26	STAIR K/Kx/Ky	CONDO E
V27	SPARE	
V28	SPARE	
V29	SPARE	
V30	SPARE	
V31	SPARE	
V32	SPARE	
V33	SPARE	
V34	SPARE	
V35	SPARE	
V1-A	LEVEL 1 - ARTSCAPE	ARTSCAPE
V1M-A	LEVEL 1M - ARTSCAPE	ARTSCAPE
V2-A	LEVEL 2 - ARTSCAPE	ARTSCAPE
V3-A	LEVEL 3 - ARTSCAPE	ARTSCAPE
V4-A	LEVEL 4 - ARTSCAPE	ARTSCAPE
V5-A	LEVEL 5 - ARTSCAPE	ARTSCAPE
V6-A	LEVEL 6 - ARTSCAPE	ARTSCAPE
V7-A	LEVEL 7 - ARTSCAPE	ARTSCAPE
V8-A	LEVEL 8 - ARTSCAPE	ARTSCAPE
V9-A	LEVEL 9 - ARTSCAPE	ARTSCAPE
V13-A	LEVEL 13 - ARTSCAPE	ARTSCAPE
V14-A	SPARE	
V15-A	SPARE	
V16-A	SPARE	
V17-A	SPARE	

HANDSET ZONES

ZONE	DESCRIPTION	CONTROL LOCATION
HP4	U/G PARKING LEVEL P4	ALL CACF
HP3	U/G PARKING LEVEL P3	ALL CACF
HP2	U/G PARKING LEVEL P2	ALL CACF
HP1	U/G PARKING LEVEL P1	ALL CACF
HP1M	U/G PARKING LEVEL P1M	ALL CACF
	SPARE	
H1-1	LEVEL 1 - WEST	CONDO W
H1-2	LEVEL 1 - EAST	CONDO E
H1M-1	LEVEL 1 MEZZANINE - WEST	CONDO W
H1M-2	LEVEL 1 MEZZANINE - EAST	CONDO E
H2-1	LEVEL 2 - WEST	CONDO W
H2-2	LEVEL 2 - EAST	CONDO E
H3-1	LEVEL 3 - WEST	CONDO W
H3-2	LEVEL 3 - EAST	CONDO E
H4-1	LEVEL 4 - WEST	CONDO W
H4-2	LEVEL 4 - EAST	CONDO E
H5-1	LEVEL 5 - WEST	CONDO W
H5-2	LEVEL 5 - EAST	CONDO E
H6-1	LEVEL 6 - WEST	CONDO W
H6-2	LEVEL 6 - EAST	CONDO E
H7-1	LEVEL 7 - WEST	CONDO W
H7-2	LEVEL 7 - EAST	CONDO E
H8-1	LEVEL 8 - WEST	CONDO W
H8-2	LEVEL 8 - EAST	CONDO E
H9-1	LEVEL 9 - WEST	CONDO W
H9-2	LEVEL 9 - EAST	CONDO E
H10	LEVEL 10	CONDO W
H11	LEVEL 11	CONDO W
H12-1	LEVEL 12 - WEST	CONDO W
H12-2	LEVEL 12 - EAST	CONDO E
H13-1	LEVEL 13 - WEST	CONDO W
H13-2	LEVEL 13 - EAST	CONDO E
H14	SPARE	
H15	SPARE	
H16	SPARE	
H17	SPARE	
H18	SPARE	
H19	SPARE	
H20	SPARE	
H1-A	LEVEL 1 - ARTSCAPE	ARTSCAPE
H1M-A	LEVEL 1M - ARTSCAPE	ARTSCAPE
H2-A	LEVEL 2 - ARTSCAPE	ARTSCAPE
H3-A	LEVEL 3 - ARTSCAPE	ARTSCAPE
H4-A	LEVEL 4 - ARTSCAPE	ARTSCAPE
H5-A	LEVEL 5 - ARTSCAPE	ARTSCAPE
H6-A	LEVEL 6 - ARTSCAPE	ARTSCAPE
H7-A	LEVEL 7 - ARTSCAPE	ARTSCAPE
H8-A	LEVEL 8 - ARTSCAPE	ARTSCAPE
H9-A	LEVEL 9 - ARTSCAPE	ARTSCAPE
H13-A	LEVEL 13 - ARTSCAPE	ARTSCAPE
H14-A	SPARE	
H15-A	SPARE	
H16-A	SPARE	
H17-A	SPARE	

SMOKE MANAGEMENT

ALL FANS AND DAMPER CONTROL TO CONSIST OF ON/OFF/AUTO CONTROL SWITCHES.

AUXILIARY CONTROL	DESCRIPTION	CONTROL LOCATION
AC-1	PARKING EXHAUST P4 EFC-01	ALL CACF
AC-2	PARKING EXHAUST P4 EFC-02	ALL CACF
AC-3	PARKING EXHAUST P3 EFC-03	ALL CACF
AC-4	PARKING EXHAUST P3 EFC-04	ALL CACF
AC-5	PARKING EXHAUST P2 EFC-05	ALL CACF
AC-6	PARKING EXHAUST P2 EFC-06	ALL CACF
AC-7	PARKING EXHAUST P1 EFC-07	ALL CACF
AC-8	PARKING EXHAUST P1 EFC-08	ALL CACF
AC-9	CHILLER ROOM EXHAUST FAN (CONDO) EFC-10	ALL CACF
AC-10	AMENITY EXHAUST FAN EFC-37	ALL CACF
AC-11	CHILLER ROOM EXHAUST FAN (ARTSCAPE) EFA-02	ALL CACF
AC-12	CHILLER ROOM EXHAUST FAN (RETAIL) EFR-03	ALL CACF
AC-13	STAIR A - PRESSURIZATION FAN SFC-03	ALL CACF (BELOW GRADE STAIR) (ON/AUTO/OFF)
AC-14	STAIR A - PRESSURIZATION FAN DAMPER	
AC-15	STAIR A - PRESSURE RELIEF DAMPER/DOOR	
AC-16	STAIR E - PRESSURIZATION FAN SF-XX	
AC-17	STAIR E - PRESSURIZATION FAN DAMPER	
AC-18	STAIR E - PRESSURE RELIEF DAMPER/DOOR	
AC-19	STAIR D - PRESSURIZATION FAN SFCM-01	
AC-20	STAIR D - PRESSURIZATION FAN DAMPER	
AC-21	STAIR D - PRESSURE RELIEF DAMPER/DOOR	
AC-22	STAIR B - PRESSURIZATION FAN SFC-01	
AC-23	STAIR B - PRESSURIZATION FAN DAMPER	
AC-24	STAIR B - PRESSURE RELIEF DAMPER/DOOR	
AC-25	STAIR C - PRESSURIZATION FAN SFC-02	
AC-26	STAIR C - PRESSURIZATION FAN DAMPER	
AC-27	STAIR C - PRESSURE RELIEF DAMPER/DOOR	
AC-28	SPARE	
AC-29	BOILER ROOM SUUPPLY FAN SFC-04 - CONDO	C/W & C/E
AC-30	BOILER ROOM SUUPPLY FAN SFC-04 MOTORIZED DAMPER	C/W & C/E
AC-31	SPARE	
AC-32	MAKE-UP AIR #1 - CONDO	C/W & C/E
AC-33	MAKE-UP AIR #2 - CONDO	C/W & C/E
AC-34	MAKE-UP AIR #3 - CONDO	C/W & C/E
AC-35	SPARE	
AC-36	BOILER ROOM SUUPPLY FAN SFA-01 - ARTSCAPE	ARTSCAPE
AC-37	BOILER ROOM SUUPPLY FAN SFA-01 MOTORIZED DAMPER	ARTSCAPE
AC-38	SPARE	
AC-39	MAKE-UP AIR #1 - ARTSCAPE	ARTSCAPE
AC-40	SPARE	
AC-41	BOILER ROOM SUUPPLY FAN SFR-01 - RETAIL	RETAIL
AC-42	BOILER ROOM SUUPPLY FAN SFR-01 MOTORIZED DAMPER	RETAIL
AC-43	SPARE	
AC-44	MAKE-UP AIR #1 - RETAIL	RETAIL
AC-45	SPARE	
AC-46	ELEVATOR RECALL (ELEV. #1, #2, #3 & #4)	C/W & C/E
AC-47	ELEVATOR RECALL ARTSCAPE (ELEV. #5 & #6)	ARTSCAPE
AC-48	ELEVATOR RECALL (ELEV. #7 & #9)	C/W & C/E
AC-49	ELEVATOR RECALL ARTSCAPE (ELEV. #8)	ARTSCAPE
AC-50	ELEVATOR RECALL COMM. PARKING (ELEV. #10 & #11)	C/W & C/E
AC-51	ELEVATOR RECALL (ELEV. #12)	C/W & C/E
AC-52	SPARE	
AC-53	SPARE	
AC-54	MAGNETIC -LOCK RELEASE	ALL CACF
AC-55	FIRE AGENCY	ALL CACF
AC-56	COMMON TROUBLE	ALL CACF
AC-57	COMMON ALARM	ALL CACF
AC-58	SPARE	
AC-59	SPARE	
AC-60	SPARE	
AC-61	SPARE	
AC-62	SPARE	
AC-63	SPARE	
AC-64	SPARE	
AC-65	SPARE	

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Date: 08/11/15

LICENSED PROFESSIONAL ENGINEER
8489D
D. C. M. BELLAMY
PROVINCE OF ONTARIO

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax Dauphin Kelowna Trail Saint John

No.:	Revision	Date
1	ISSUED FOR ADD E-001	2015/12/10
2	ISSUED FOR ADD E-003	2016/01/26

No	Issued For	Date
3		
2		
1	ISSUED FOR TENDER	2015-10-30

AQUAVISTA
AT BAYSIDE TORONTO

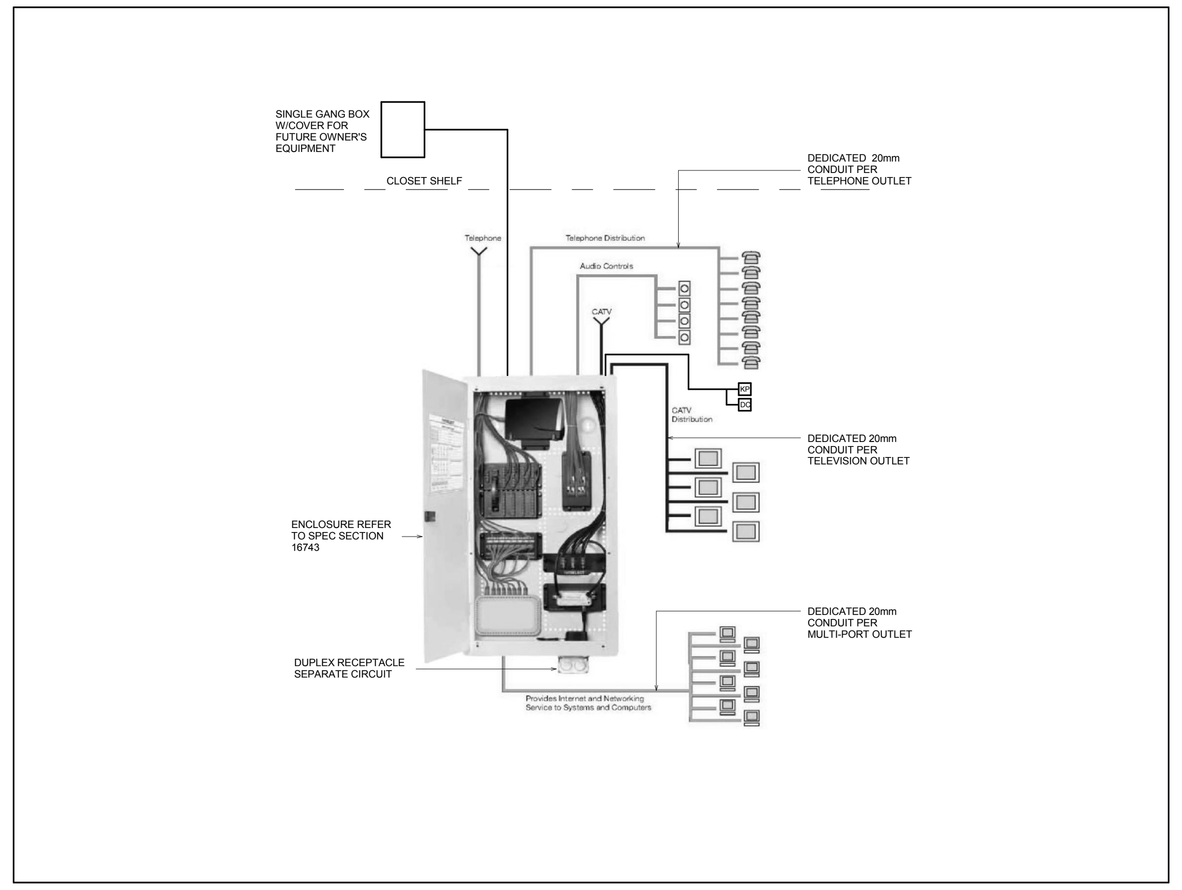
Drawing Title

FIRE ALARM SCHEDULES

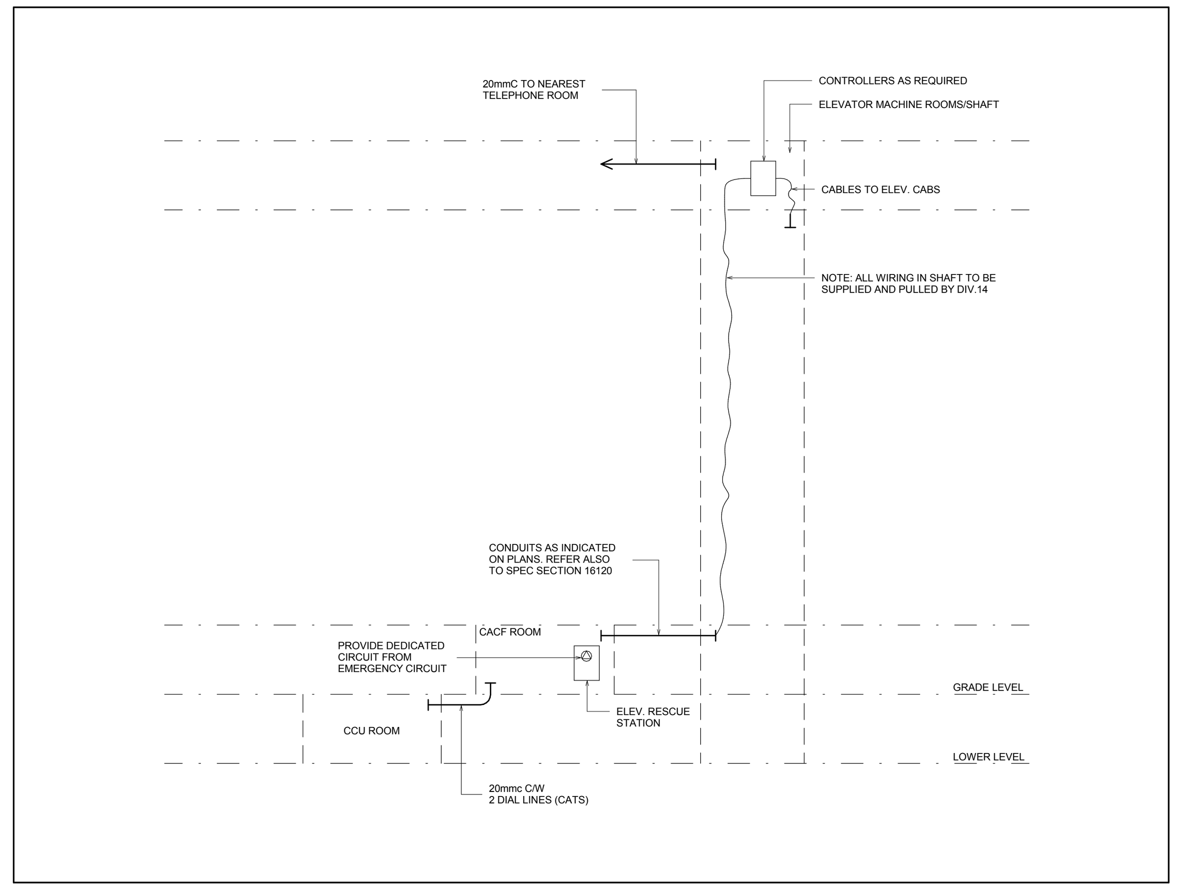
Project

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

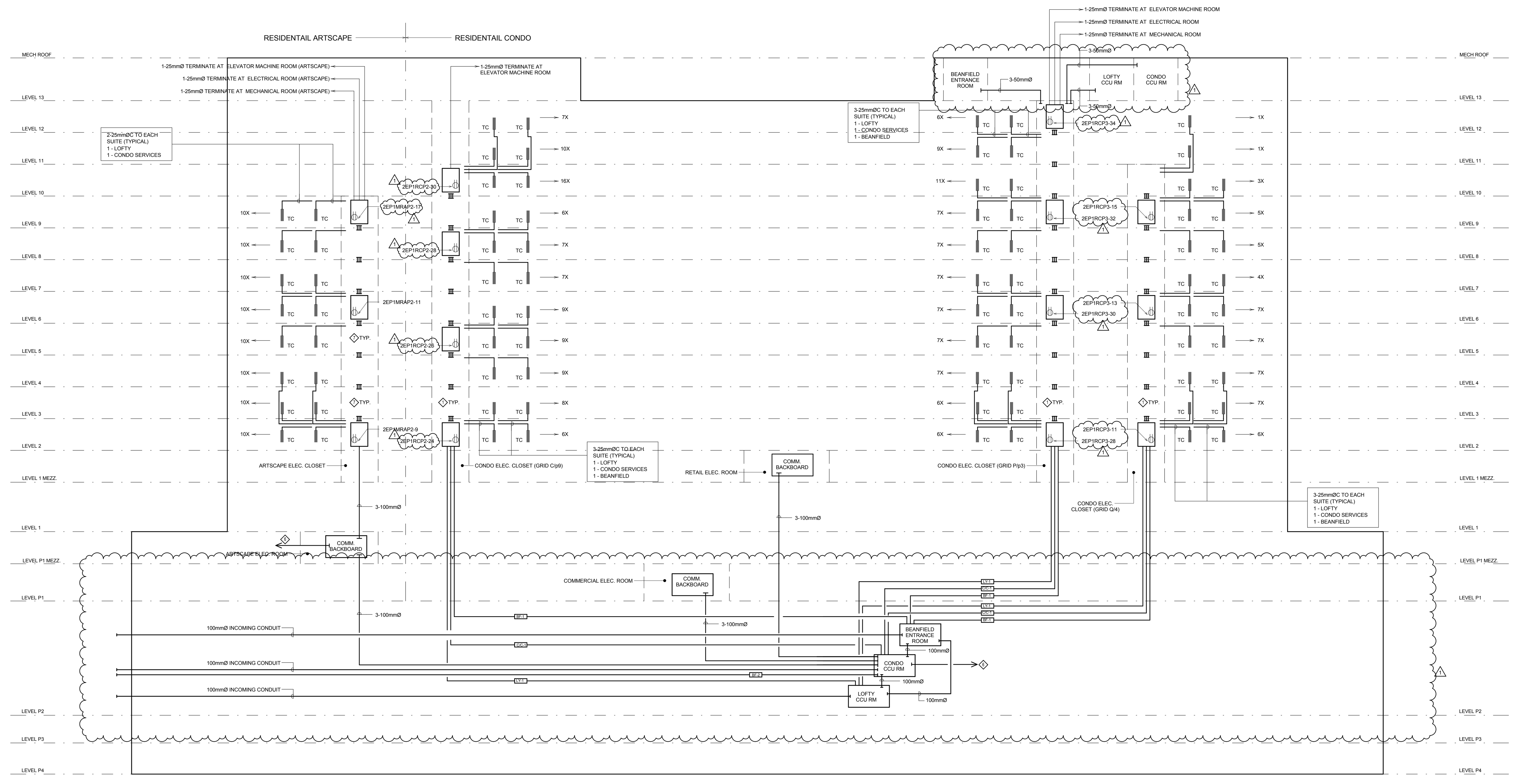
Scale: N.T.S
Drawn by: Author
Checked by: Checker
Project No.: 8489D
Date: 08/11/15
Drawing No.: E4-04



3 SUITE TEL/COMMUNICATION ENCLOSURE
N.T.S



2 ELEVATOR RESCUE STATION
N.T.S



PATHWAY:

- BF-1 100mmØ CONDUIT FROM EACH RISER CLOSET TO BEANFIELD ROOM
- BF-2 100mmØ CONDUIT FROM CCU TO PROPERTY LINE
- C/C-1 100mmØ CONDUIT FROM EACH RISER CLOSET TO CONDO CCU ROOM
- LY-1 100mmØ CONDUIT FROM EACH RISER CLOSET TO LOFTY CCU ROOM

NOTES:

1. IN CONDO ELECTRICAL CLOSET
   100mmØ SLEEVE FOR BEANFIELD.
   100mmØ SLEEVE FOR CONDO CCU.
   100mmØ SLEEVE FOR LOFTY CCU.
2. ALL COMMUNICATIONS OUTLETS IN GENERAL PUBLIC AREAS SHALL RUN BACK TO THE NEAREST ACCESSIBLE CLOSET OR THE CCU ROOM. ALL SUITE CONDUITS SHALL TERMINATE WITHIN A RISER CLOSET, UNLESS NOTED OTHERWISE.
3. PROVIDE 2400mm(W) x 3660mm(H) x 19mm(D) PLYWOOD BACKBOARD.
3. PROVIDE SEPARATE 2/0 GROUND WIRES FROM MAIN GROUND BUS IN HYDRO ELECTRICAL ROOM TO CCU ROOM, ONE FOR LOFTY AND ONE FOR UTILITY. MOUNT GROUND BUS ON PLYWOOD BOARD.
4. THE HORIZONTAL CONDUITS SHALL BE SURFACE MOUNTED IN ORDER FOR THE SURVEYOR TO DOCUMENT THEM AND PROVIDE APPROPRIATE EASEMENTS.
5. TELECOM ENCLOSURE AS PER SPECIFICATIONS AND DETAILS.
6. RUN ONE (1) 20mmØ CONDUIT TO EACH OF THE FOLLOWING LOCATIONS:
   - GAS METER
   - WATER METER
   - HYDRO METER (INCOMING)
   - CACF ROOM FOR DVAC LINES
   - CACF FOR ELEVATOR PHONES
   - SECURITY ROOM
   OWNER TO ARRANGE WITH APPROPRIATE UTILITY FOR DEDICATED PHONE LINES.
7. IN ARTSCAPE ELECTRICAL CLOSET
   3-100mmØ SLEEVE FOR COMMUNICATION SYSTEM.

1 COMMUNICATION RISER DIAGRAM
N.T.S.

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Date: 08/28/12

LICENSED PROFESSIONAL ENGINEER
8489D
D. C. M. BELLAMY
PROVINCE OF ONTARIO

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax Dauphin Kelowna Trail Saint John

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1	ISSUED FOR ADD E-003	2016/01/26

No	Issued For	Date
3		
2		
1	ISSUED FOR TENDER	2015-10-30

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

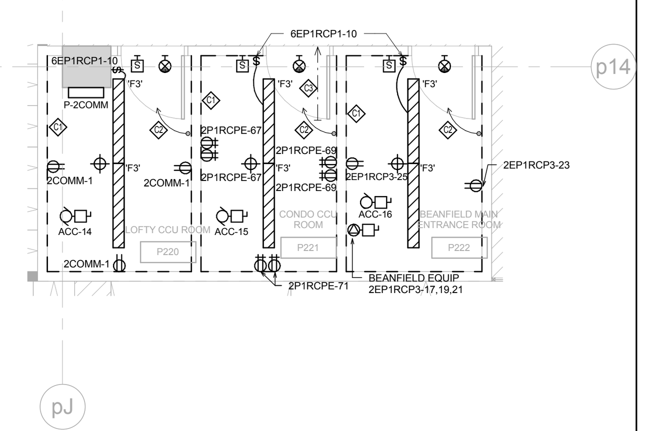
COMMUNICATION SYSTEM RISER DIAGRAM

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	08/28/12
Drawing No.	E4-05

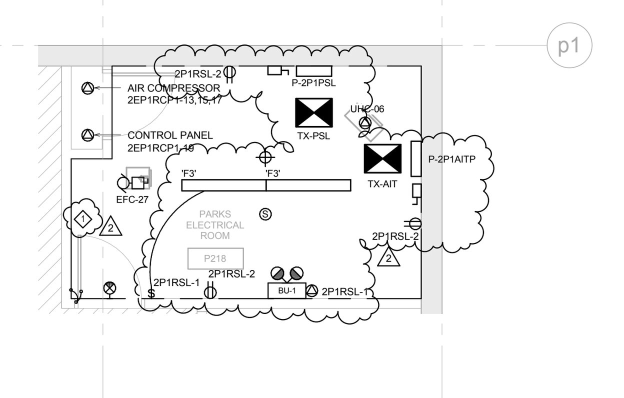


NOTES:

- C1 20mm PLYWOOD BACKBOARD 2400mm HIGH ALL ROUND ROOM.
- C2 1-#3/0 IN 60mm PVC TIED TO MAIN GROUNDING BAR IN MAIN ELECTRICAL ROOM.
- C3 RUN ONE (1) 20mmØ CONDUIT TO EACH OF THE FOLLOWING LOCATIONS:
  - GAS METER
  - WATER METER
  - HYDRO METER (INCOMING)
  - CACF ROOM FOR DVAC LINES
  - CACF FOR ELEVATOR PHONES
  - SECURITY ROOM

  OWNER TO ARRANGE WITH APPROPRIATE UTILITY FOR DEDICATED PHONE LINES.

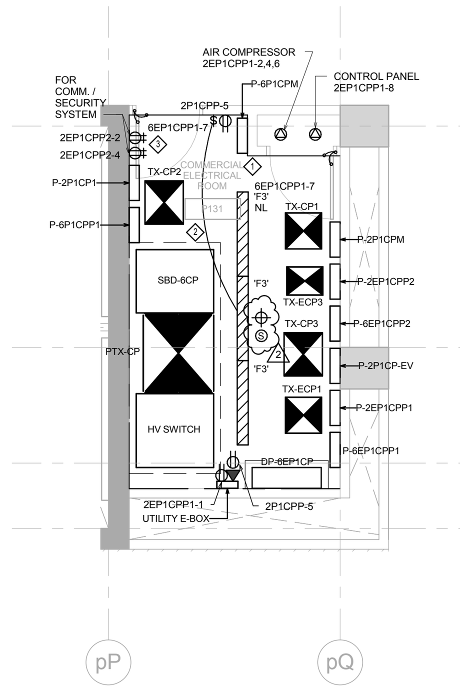
13 CCU ROOMS & BEANFIELD ENTRANCE ROOM - LEVEL P2
1 : 50



NOTES:

- 1 GROUND BUSS INTERCONNECTED WITH #3/0 AWG GROUND WIRE. MOUNT GROUND LOOP AT HIGH LEVEL. RUN A #3/0 AWG GROUND WIRE TO THE MAIN ELECTRICAL ROOM GROUNDING SYSTEM. GROUND ALL METAL WITHIN THE ROOM, INCLUDING DOOR FRAMES, DOORS, MECHANICAL EQUIPMENT, ETC.

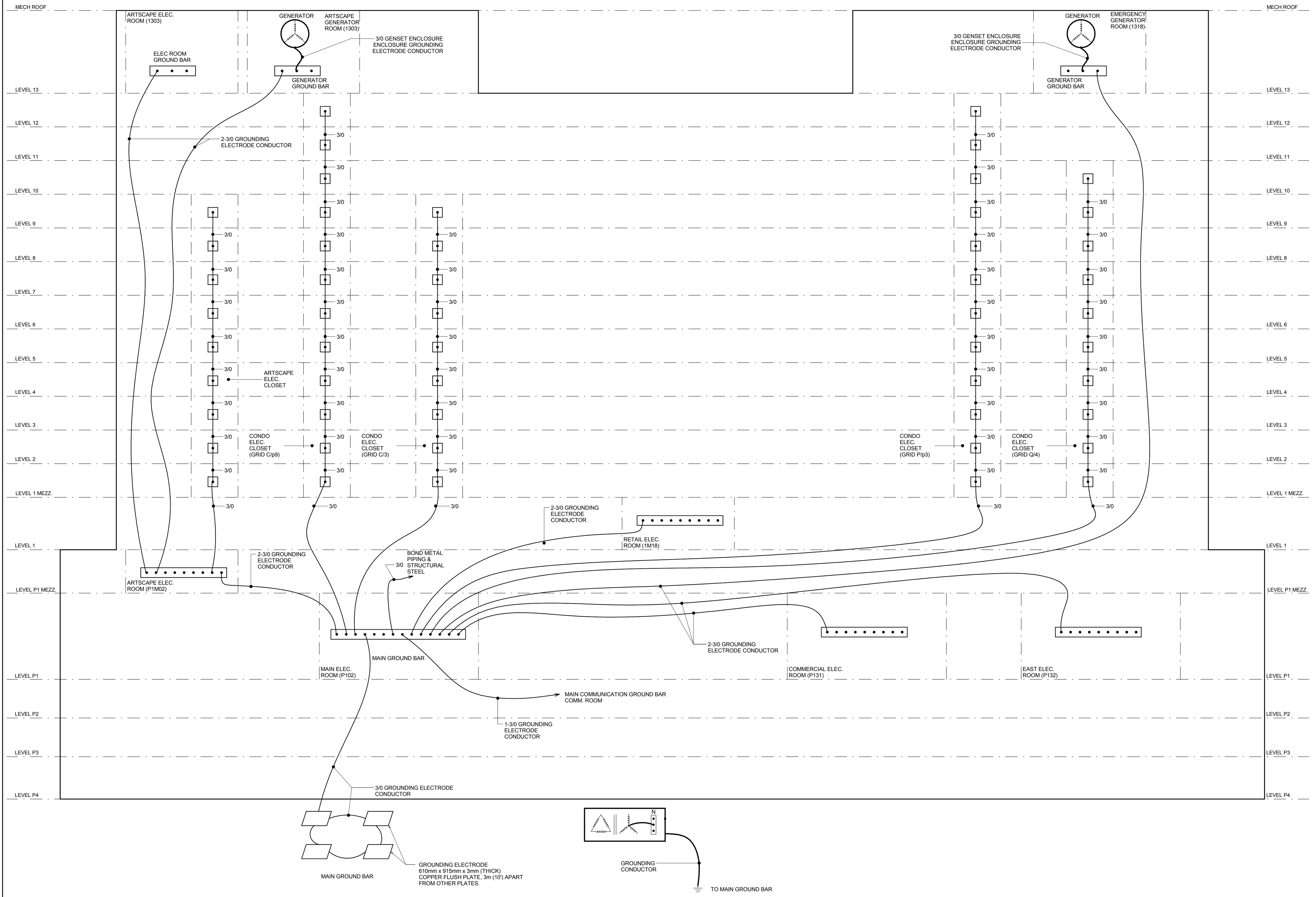
11 PARKS ELECTRICAL ROOM - LEVEL P2
1 : 50



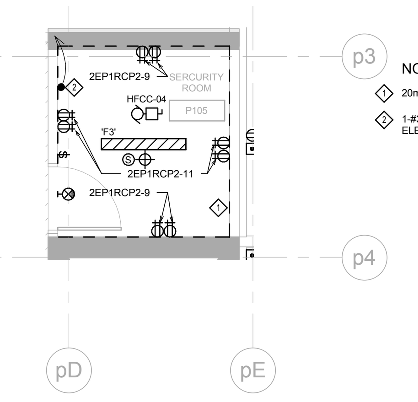
NOTES:

- 1 GROUND BUSS INTERCONNECTED WITH #3/0 AWG GROUND WIRE. MOUNT GROUND LOOP AT HIGH LEVEL. RUN A #3/0 AWG GROUND WIRE TO THE MAIN ELECTRICAL ROOM GROUNDING SYSTEM. GROUND ALL METAL WITHIN THE ROOM, INCLUDING DOOR FRAMES, DOORS, MECHANICAL EQUIPMENT, ETC.
- 2 PROVIDE 100mm HIGH CONCRETE PAD FOR ALL FLOOR STANDING EQUIPMENT.
- 3 PROVIDE 1200mm(W) X 2440mm(H) X 19mm(D) PLYWOOD BACKBOARD. REFER TO COMMUNICATION / SECURITY RISER E4-05 / E4-06 FOR CONDUITS DETAIL.

10 COMMERCIAL ELECTRICAL ROOM - LEVEL P1
1 : 50



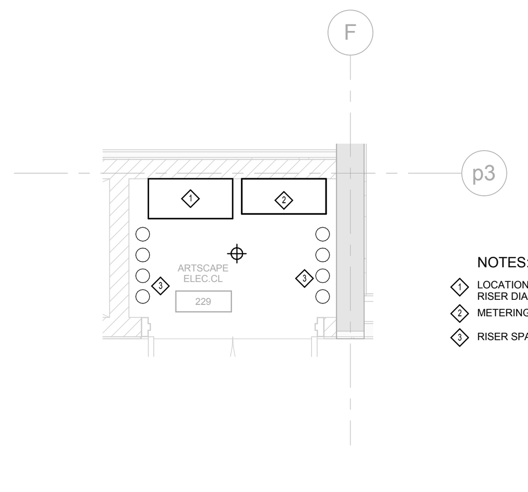
12 GROUNDING RISER DIAGRAM
N.T.S



NOTES:

- 20mm PLYWOOD BACKBOARD 2400mm HIGH ALL ROUND ROOM.
- 1-#3/0 IN 60mm PVC TIED TO MAIN GROUNDING BAR IN MAIN ELECTRICAL ROOM.

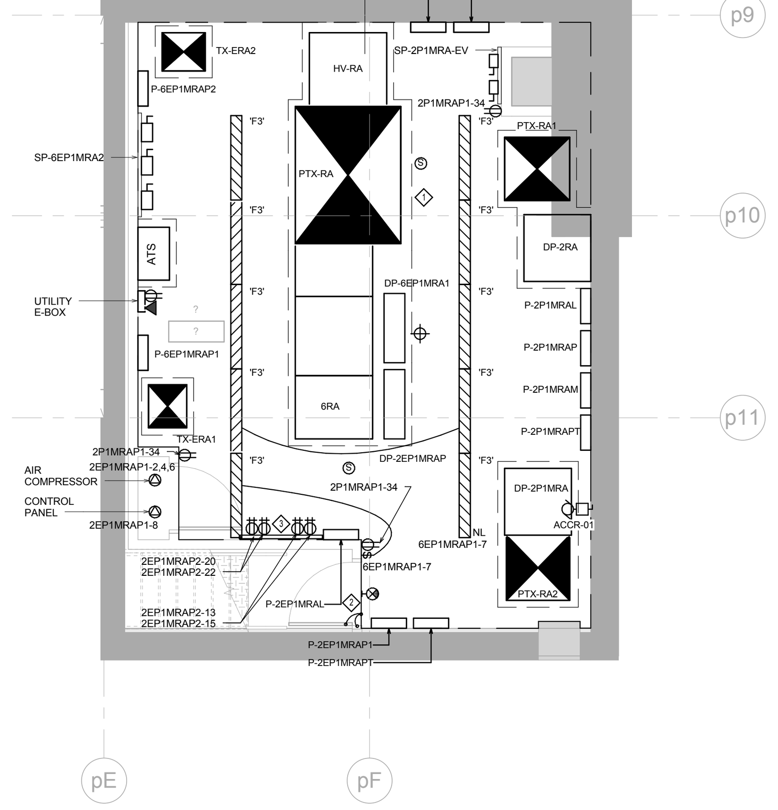
9 SECURITY ROOM P105
1 : 50



NOTES:

- 1 LOCATION OF SUITE DISTRIBUTION PANEL AS SHOWN ON RISER DIAGRAM.
- 2 METERING EQUIPMENT.
- 3 RISER SPACE FOR SYSTEMS AND FEEDERS.

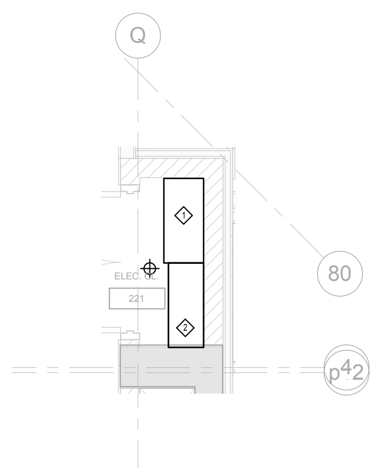
8 TYPICAL ELECTRICAL CLOSET - ARTSCAPE
1 : 25



NOTES:

- 1 GROUND BUSS INTERCONNECTED WITH #3/0 AWG GROUND WIRE. MOUNT GROUND LOOP AT HIGH LEVEL. RUN A #3/0 AWG GROUND WIRE TO THE MAIN ELECTRICAL ROOM GROUNDING SYSTEM. GROUND ALL METAL WITHIN THE ROOM, INCLUDING DOOR FRAMES, DOORS, MECHANICAL EQUIPMENT, ETC.
- 2 PROVIDE 100mm HIGH CONCRETE PAD FOR ALL FLOOR STANDING EQUIPMENT.
- 3 PROVIDE 1200mm(W) X 2440mm(H) X 19mm(D) PLYWOOD BACKBOARD. REFER TO COMMUNICATION RISER E4-05 FOR CONDUITS DETAIL.

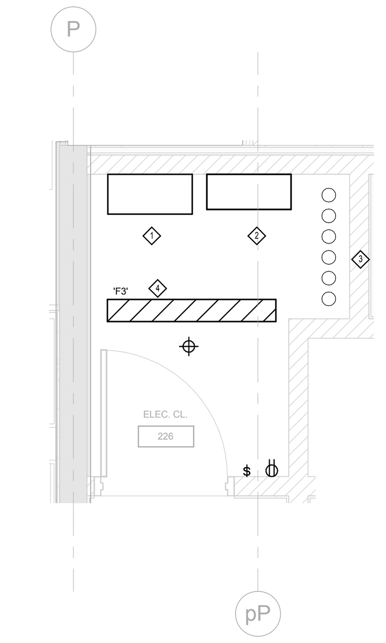
7 ARTSCAPE ELECTRICAL ROOM - LEVEL P1 MEZZANINE
1 : 50



NOTES:

- 1 LOCATION OF SUITE DISTRIBUTION PANEL AS SHOWN ON RISER DIAGRAM.
- 2 METERING EQUIPMENT.
- 3 RISER SPACE FOR SYSTEMS AND FEEDERS.

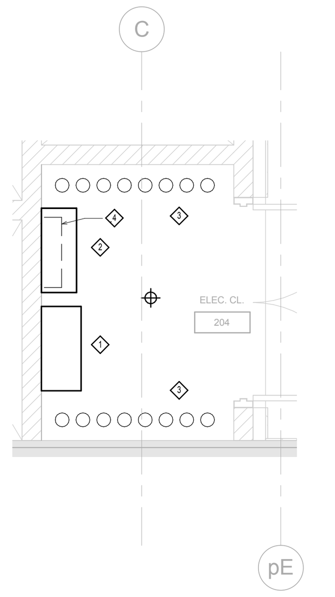
6 TYPICAL ELECTRICAL CLOSET - 4 - CONDO
1 : 25



NOTES:

- 1 LOCATION OF SUITE DISTRIBUTION PANEL AS SHOWN ON RISER DIAGRAM.
- 2 METERING EQUIPMENT.
- 3 RISER SPACE FOR SYSTEMS AND FEEDERS.
- 4 CONNECT TO CORRIDOR EMERGENCY LIGHTING CIRCUIT.

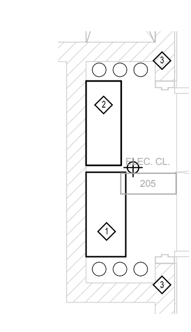
5 TYPICAL ELECTRICAL CLOSET - 3 - CONDO
1 : 25



NOTES:

- 1 LOCATION OF SUITE DISTRIBUTION PANEL AS SHOWN ON RISER DIAGRAM.
- 2 METERING EQUIPMENT.
- 3 RISER SPACE FOR SYSTEMS AND FEEDERS.
- 4 PANEL 'P-22RCAP', LEVEL 2 ONLY.

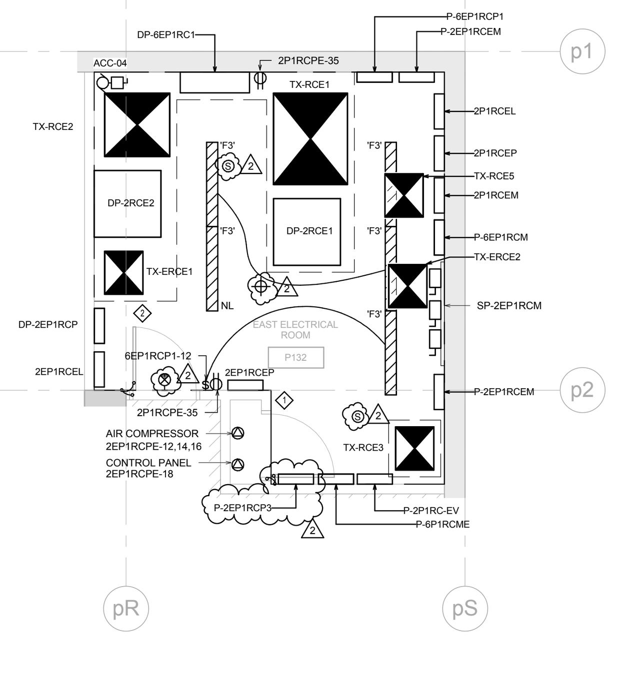
4 TYPICAL ELECTRICAL CLOSET - 2 - CONDO
1 : 25



NOTES:

- 1 LOCATION OF SUITE DISTRIBUTION PANEL AS SHOWN ON RISER DIAGRAM.
- 2 METERING EQUIPMENT.
- 3 RISER SPACE FOR SYSTEMS AND FEEDERS.

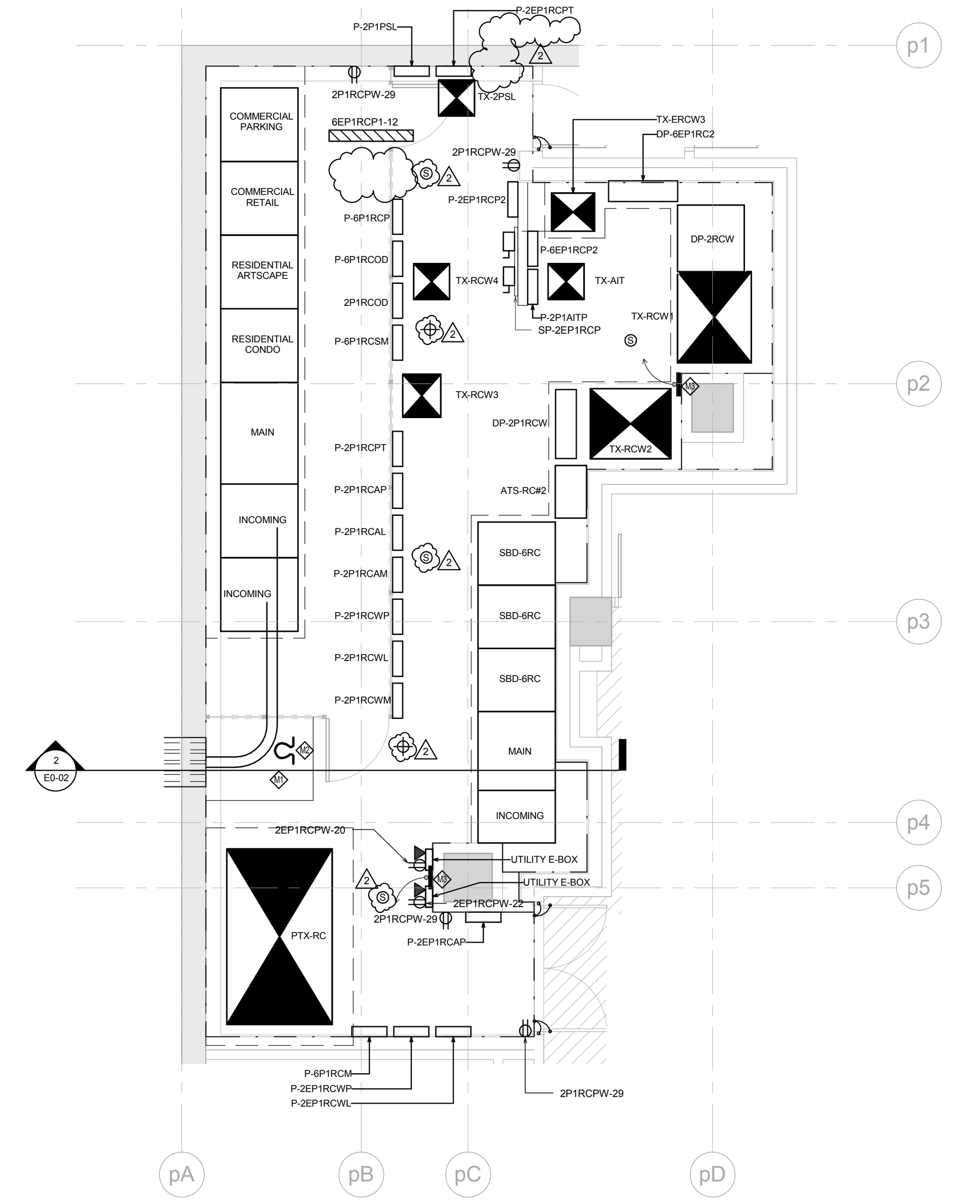
3 TYPICAL ELECTRICAL CLOSET - 1 - CONDO
1 : 25



NOTES:

- 1 GROUND BUSS INTERCONNECTED WITH #3/0 AWG GROUND WIRE. MOUNT GROUND LOOP AT HIGH LEVEL. RUN A #3/0 AWG GROUND WIRE TO THE MAIN ELECTRICAL ROOM GROUNDING SYSTEM. GROUND ALL METAL WITHIN THE ROOM, INCLUDING DOOR FRAMES, DOORS, MECHANICAL EQUIPMENT, ETC.
- 2 PROVIDE 100mm HIGH CONCRETE PAD FOR ALL FLOOR STANDING EQUIPMENT.

2 EAST ELECTRICAL ROOM - LEVEL P1
1 : 50



NOTES:

- M1 CONCRETE ENCASED DUCTBANK, SLOPE AWAY FROM ROOM.
- M2 PULL EYE IN SLAB ABOVE. ALIGN WITH INCOMING DUCTBANK. TO BE CONSTRUCTED PER HYDRO STANDARDS.
- M3 GROUND WIRE FROM BELOW P5 LEVEL SLAB GROUND GRID. REFER TO DWG. E1-01 AND SPECIFICATIONS FOR FURTHER DETAILS.
- M4 GROUND BUSS INTERCONNECTED WITH #3/0 AWG GROUND WIRE. MOUNT GROUND LOOP AT HIGH LEVEL. RUN A #3/0 AWG GROUND WIRE TO THE STREET SIDE OF THE MAIN WATER SERVICE. GROUND ALL METAL WITHIN THE ROOM, INCLUDING DOOR FRAMES, DOORS, MECHANICAL EQUIPMENT, ETC.
- M5 PROVIDE GALVANIZED CHAIN LINK FENCE IN FRONT & SIDE OF INCOMING CELL TO PROTECT HYDRO WIRES. GROUND FENCE AS REQUIRED AND TO TORONOT HYDRO STANDARD.
- M6 PROVIDE 100mm HIGH CONCRETE PAD FOR ALL FLOOR STANDING EQUIPMENT.

1 MAIN ELECTRICAL ROOM - LEVEL P1
1 : 50

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8489D
D. C. M. BELLAMY
PROVINCE OF ONTARIO

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax Dauphin Kelowna Trail Saint John

No.:	Revision	Date
1	ISSUED FOR ADD E-002	2016/01/06
2	ISSUED FOR ADD E-003	2016/01/26

No	Issued For	Date
3		
2		
1	ISSUED FOR TENDER	2015-10-30

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
ELECTRICAL ROOM DETAIL - 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: 08/06/15
Drawing No.: E5-01

AIR COOLED CONDENSER SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	OWNERSHIP	COOLING CAPACITY (KW)	REFRIGERANT	AMBIENT TEMP. (°C)	MANUFACTURER	MODEL	MIN. CIRC. AMPS	MAX FUSE SIZE	POWER SUPPLY: VOLTS	PHASE	FED FROM	EM.	NORM.	STARTER: SUPPLIED BY: DIV. 15	SUPPLIED BY: DIV. 16	INSTALLED BY: DIV. 15	INSTALLED BY: DIV.16	TYPE	CONTROLS: MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV.16	OTHER REQUIREMENTS: W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT.	REMARKS:
ACUC-01	ACC-01 SPLIT AIR-COOLED CONDENSER	P1 PARKING LEVEL	CONDO	22	R-410A	35	REFPLUS	OCZ-060-1H-8	13	20	575	3	6P1RCM	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	AIR-COOLED CONDENSER CONNECTED TO ACC-01
ACUC-02	ACC-02 SPLIT AIR-COOLED CONDENSER	P1 PARKING LEVEL	CONDO	22	R-410A	35	REFPLUS	OCZ-060-1H-8	13	20	575	3	6P1RCM	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	AIR-COOLED CONDENSER CONNECTED TO ACC-02
ACUC-03	ACC-03 SPLIT AIR-COOLED CONDENSER	P1 PARKING LEVEL	CONDO	22	R-410A	35	REFPLUS	OCZ-060-1H-8	13	20	575	3	6P1RCM	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	AIR-COOLED CONDENSER CONNECTED TO ACC-03
ACUC-04	ACC-04 SPLIT AIR-COOLED CONDENSER	P2 PARKING LEVEL	CONDO	22	R-410A	35	REFPLUS	OCZ-060-1H-8	13	20	575	3	6P1RCME	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	AIR-COOLED CONDENSER CONNECTED TO ACC-04
ACUC-05	ACC-05 SPLIT AIR-COOLED CONDENSER	PH LEVEL	CONDO	16.7	R-410A	35	REFPLUS	OCZ-050-IH1-5	30	50	208	3	2RRCPW	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	AIR-COOLED CONDENSER CONNECTED TO ACC-05
ACUC-06	ACC-06 SPLIT AIR-COOLED CONDENSER	PH LEVEL	CONDO	16.7	R-410A	35	REFPLUS	OCZ-050-IH1-5	30	50	208	3	2RRCPE	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	AIR-COOLED CONDENSER CONNECTED TO ACC-06
ACUC-07	ACC-07 SPLIT AIR-COOLED CONDENSER	P4 PARKING LEVEL	CONDO	3.4	R-410A	35	DAIKIN	RXS12LVJU	9	15	208	1	2P4RCM	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	AIR-COOLED CONDENSER CONNECTED TO ACC-07
ACUC-08	ACC-08 SPLIT AIR-COOLED CONDENSER	P1 PARKING LEVEL	CONDO	3.4	R-410A	35	DAIKIN	RXS12LVJU	9	15	208	1	2P1RCMW	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	AIR-COOLED CONDENSER CONNECTED TO ACC-08
ACUC-09	ACC-09 SPLIT AIR-COOLED CONDENSER	P1 PARKING LEVEL	CONDO	6.8	R-410A	35	DAIKIN	RZQ24PVJU9	16.5	20	208	1	2P1RCMW	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	AIR-COOLED CONDENSER CONNECTED TO ACC-09
ACUC-10	ACC-10 SPLIT AIR-COOLED CONDENSER	P1 PARKING LEVEL	CONDO	6.8	R-410A	35	DAIKIN	RZQ24PVJU9	16.5	20	208	1	2P1RCMW	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	AIR-COOLED CONDENSER CONNECTED TO ACC-10
ACUC-11	ACC-11 SPLIT AIR-COOLED CONDENSER	P1 PARKING LEVEL	CONDO	6.8	R-410A	35	DAIKIN	RZQ24PVJU9	16.5	20	208	1	2P1RCME	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	AIR-COOLED CONDENSER CONNECTED TO ACC-11
ACUC-12	ACC-12 SPLIT AIR-COOLED CONDENSER	P1 PARKING LEVEL	CONDO	6.8	R-410A	35	DAIKIN	RZQ24PVJU9	16.5	20	208	1	2P1RCME	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	AIR-COOLED CONDENSER CONNECTED TO ACC-12
ACUC-13	ACC-13 SPLIT AIR-COOLED CONDENSER	P1 PARKING LEVEL	CONDO	3.4	R-410A	35	DAIKIN	RXS12LVJU	9	15	208	1	2P1RCME	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	AIR-COOLED CONDENSER CONNECTED TO ACC-13
ACUC-14	ACC-14 SPLIT AIR-COOLED CONDENSER	P2 PARKING LEVEL	CONDO	2.6	R-410A	35	DAIKIN	RXS09LVJU	8	15	208	1	2P1RCME	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	AIR-COOLED CONDENSER CONNECTED TO ACC-14
ACUC-15	ACC-15 SPLIT AIR-COOLED CONDENSER	P2 PARKING LEVEL	CONDO	2.6	R-410A	35	DAIKIN	RXS09LVJU	8	15	208	1	2P1RCME	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	AIR-COOLED CONDENSER CONNECTED TO ACC-15
ACUC-16	ACC-16 SPLIT AIR-COOLED CONDENSER	P2 PARKING LEVEL	CONDO	2.6	R-410A	35	DAIKIN	RXS09LVJU	8	15	208	1	2P1RCME	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	AIR-COOLED CONDENSER CONNECTED TO ACC-16
ACUC-17	ACC-17 SPLIT AIR-COOLED CONDENSER	ROOF LEVEL	CONDO	2.6	R-410A	35	DAIKIN	RXS09LVJU	8	15	208	1	2RRCPE	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	AIR-COOLED CONDENSER CONNECTED TO ACC-17
ACUC-18	ACC-18 SPLIT AIR-COOLED CONDENSER	ROOF LEVEL	CONDO	2.6	R-410A	35	DAIKIN	RXS09LVJU	8	15	208	1	2RRCPE	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	AIR-COOLED CONDENSER CONNECTED TO ACC-18
ACUC-19	ACC-19 SPLIT AIR-COOLED CONDENSER	ROOF LEVEL	CONDO	2.6	R-410A	35	DAIKIN	RXS09LVJU	8	15	208	1	2RRCPE	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	AIR-COOLED CONDENSER CONNECTED TO ACC-19

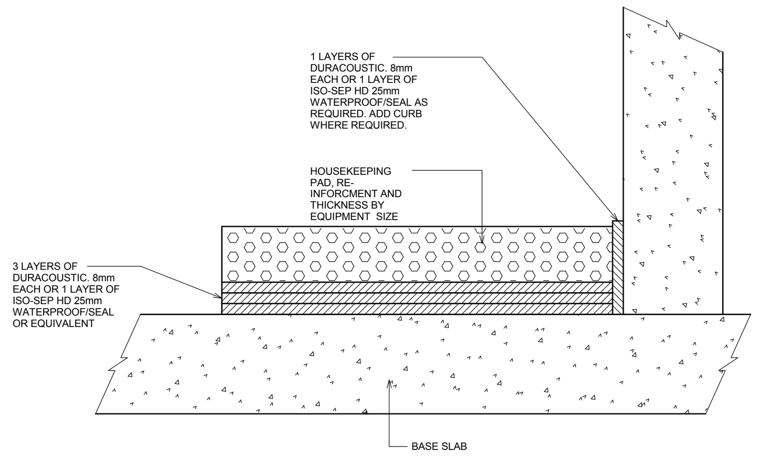
NOTES:
1. REFER TO SECTION 15050 REGARDING WIRING AND ELECTRIC MOTORS
2. REFER TO SECTION 15700 FOR FURTHER DETAILS.
3. REFER TO SECTION 15100 FOR VIBRATION ISOLATION
4. DIV 16 TO RUN 20MM C BETWEEN ACC AND RELATED AC UNIT FOR CONTROL WIRING.

DOMESTIC HOT WATER TANK SCHEDULE

DOMESTIC HOT WATER HEATERS	DHWTC # 1	DHWTC # 2				REMARKS
MANUFACTURER	CLEMMER	CLEMMER				CEMENT LINED TANK / INSULATED DOUBLE WALL COIL RATED TO 175-200 PSI / TANK FLANGE SIZE TO MATCH TUBE BUNDLE SIZE
STORAGE CAPACITY ((LIT)	6975	3177				
OPERATING PRESSURE MAX. (KPA) TANK SHELL	1034	1034				
COIL MODEL (KPA) COPPER TUBE	DW14-	DW10-48				**DOUBLE WALL COIL TUBES RATED AT 175-200 PSI WORKING PRESSURE. HEATING WATER X DOMESTIC WATER, SUPPLIER TO CONFIRM COIL MODELS WITH LPH PRIOR TO ORDERING.
CAPACITY (LPH) / TEMP. RISE	6900 / 56 C	2809 / 56 C				
COIL INPUT (KW) BOILER SIDE (82.2C-71.1C)	445	182				
COIL L/S BOILER SIDE	9.6	3.9				
SIZE (DIA X LENGTH)	1830 x 3050	1370 x 2440				
OWNERSHIP	CONDO	CONDO				

EXPANSION TANK SCHEDULE

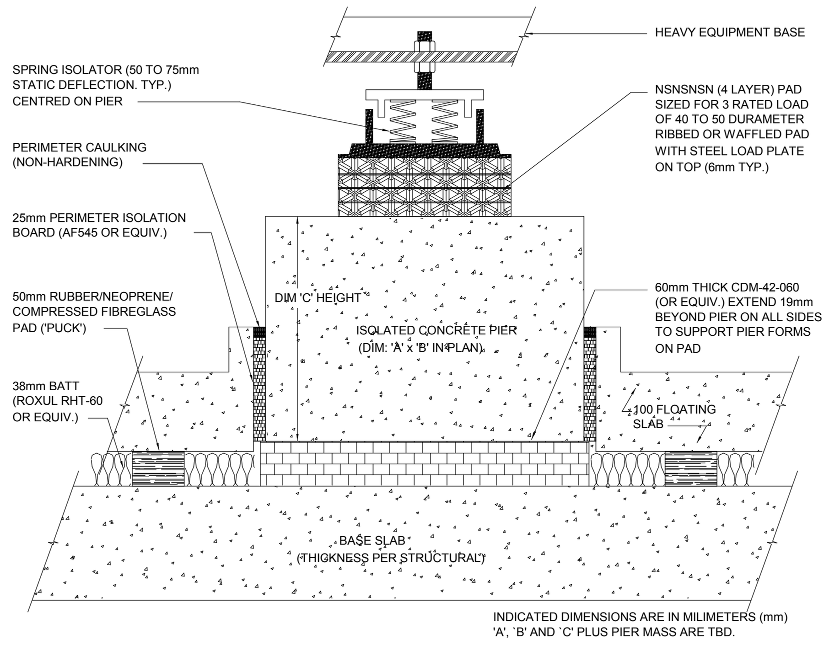
REF.	SYSTEM	OWNERSHIP	TANK CAPACITY (LIT)	MAX ACCEPT (LIT)	MODEL	MANUFACTURER	REMARKS
ETC-1	L.T. BOILER SYSTEM	CONDO	2993	-	3000-L	AMTROL	
ETC-2	H.T. BOILER SYSTEM	CONDO	2000	-	2000-L	AMTROL	
ETC-3	CH. WATER SYSTEM	CONDO	797	317	AX-280	AMTROL	
ETC-4	MAUC-1 HEATING SYSTEM	CONDO	41	9	AX-20	AMTROL	
ETC-5	MAUC-2 HEATING SYSTEM	CONDO	82	42	AX-40	AMTROL	
ETC-6	MAUC-3 HEATING SYSTEM	CONDO	82	42	AX-40	AMTROL	
ETC-7	DHW BOILER SYSTEM	CONDO	257	129	AX-120	AMTROL	
ETC-8	DHWTC-01 SYSTEM	CONDO	340	-	ST-210V	AMTROL	
ETC-8	DHWTC-02 SYSTEM	CONDO	250	-	ST-120V	AMTROL	



HIGH VOLTAGE TRANSFORMER/
FLOOR MOUNTED LOW VOLTAGE TRANSFORMER (ABOVE 100KVA)

NOTES:
THIS DETAIL IS APPLICABLE TO ENTIRE BUILDING IF NECESSARILY.

3 ISOLATED HOUSEKEEPING PAD
N.T.S.



NOTES:
THIS DETAIL IS APPLICABLE TO ENTIRE BUILDING IF NECESSARILY.

2 FLOATING FLOOR WITH ISOLATED MOUNTING OF HEAVY EQUIPMENT ON VIBRATION ISOLATOR
N.T.S.

REGISTERS, GRILLES AND DIFFUSERS SCHEDULE

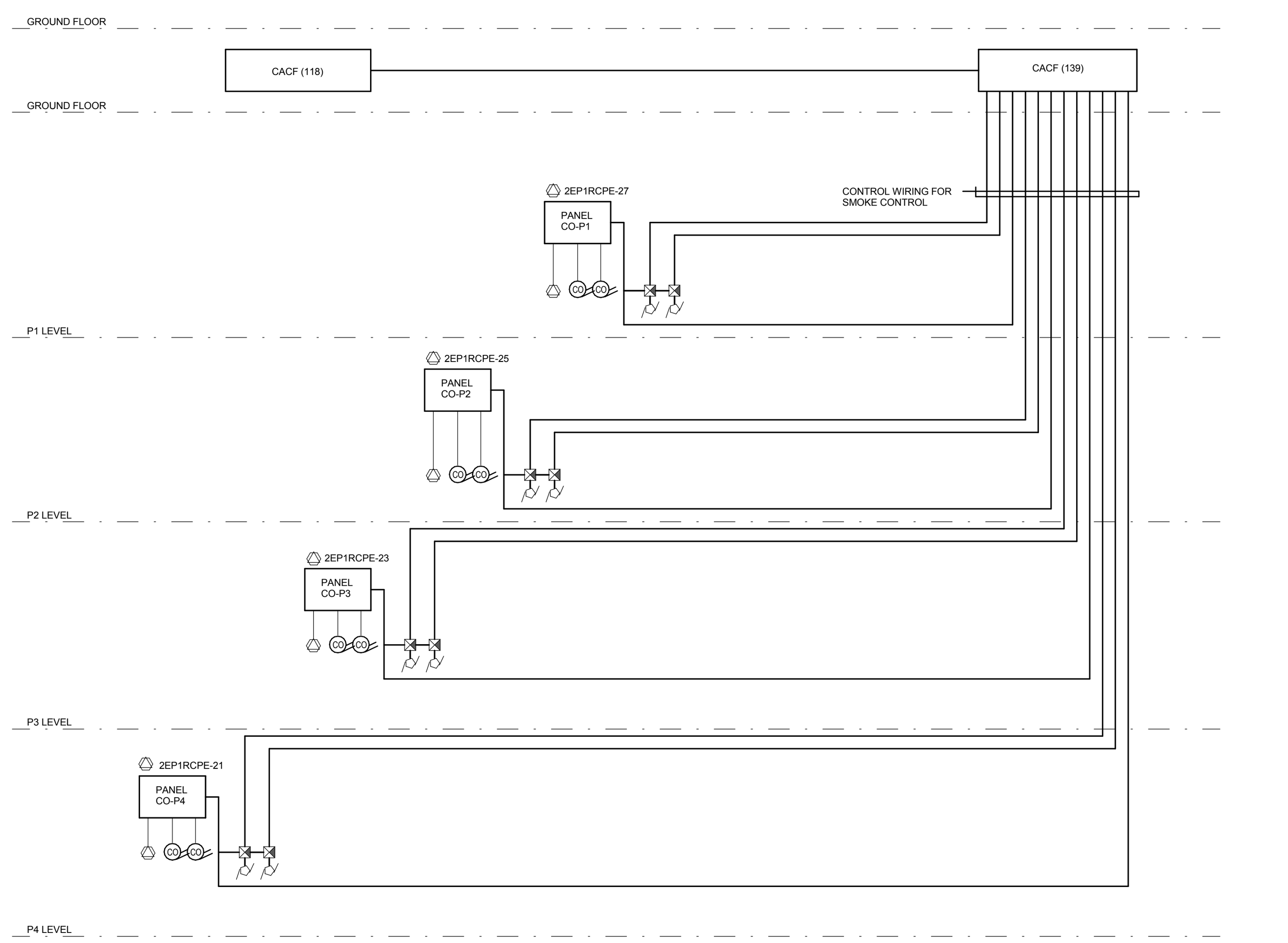
REF.	FUNCTION	CONFIGURATION	MANUFACTURER	MODEL NUMBER	MOUNTING TYPE	REMARKS
A	SUPPLY AIR	LOUVERED FACE DIFFUSER	E.H. PRICE	- /520D /F /L /A /B12	DUCT MOUNTED / SIDEWALL	REFER TO PLANS FOR NECK SIZE
B	RETURN / EXHAUST AIR	LOUVERED FACE DIFFUSER	E.H. PRICE	- /530D /F /L /A /B12	DUCT MOUNTED	REFER TO PLANS FOR NECK SIZE
C	SUPPLY AIR	SQUARE CONE DIFFUSER	E.H. PRICE	600x600 /SCD /31 /3C / B12	DRYWALL / T-BAR	REFER TO PLANS FOR NECK SIZE
D	SUPPLY AIR	1 SLOT LINEAR DIFFUSER	E.H. PRICE	- /AS210 /1 /22 /ZY /-	DRYWALL / SIDEWALL	c/w PLENUM - /ASP210 /1 /-
E	SUPPLY AIR	1 SLOT LINEAR DIFFUSER	E.H. PRICE	- /JS210 /1 /25 /ZY /-	DRYWALL / SIDEWALL	c/w PLENUM - /JSP210 /1 /-
F	RETURN AIR	1 SLOT LINEAR DIFFUSER	E.H. PRICE	- /AS210 /1 /25 /ZY /-	DRYWALL / SIDEWALL	-
G	RETURN AIR	1 SLOT LINEAR DIFFUSER	E.H. PRICE	- /JS210 /1 /25 /ZY /-	DRYWALL / SIDEWALL	-
H	RETURN AIR	EGG CRATE	E.H. PRICE	- /80 /TB /B12 [- /80 /A /B12]	T-BAR [DRYWALL]	NON-DUCTED, COLOUR = APPLIANCE WHITE
J	SUPPLY AIR	1 SLOT LINEAR DIFFUSER	E.H. PRICE	- /JS215 /1 /22 /ZY /-	DRYWALL / SIDEWALL	c/w PLENUM - /JSP215 /1 /-
K	RETURN AIR	1 SLOT LINEAR DIFFUSER	E.H. PRICE	- /JS215 /1 /22 /ZY /-	DRYWALL / SIDEWALL	-
L	SUPPLY AIR	PERFORATED DIFFUSER	E.H. PRICE	- /- /PDS /1 /B12	DRYWALL	SMOKE VENT, REFER TO PLANS FOR DIFFUSER & NECK SIZES
M	RETURN AIR	PERFORATED DIFFUSER	E.H. PRICE	- /- /PDR /1 /B12	DRYWALL	SMOKE EXHAUST, REFER TO PLANS FOR DIFFUSER & NECK SIZES
N	SUPPLY AIR	SQUARE CONE DIFFUSER	E.H. PRICE	300x300 /SCD /31 /3C / B12	DRYWALL / T-BAR	REFER TO PLANS FOR NECK SIZE
O	RETURN AIR	2 SLOT LINEAR DIFFUSER	E.H. PRICE	- /JS225 /2 /63 /B12	T-BAR [DRYWALL]	

SYMBOL CLARIFICATION: C-600x600-500

C - DIFFUSER/GRILLE TYPE
600x600 - GRILLE SIZE
500 - AIR QUANTITY L/S

** ALL SUPPLY GRILLES, DIFFUSERS, AND REGISTERS TO BE PROVIDED WITH OPPOSED BLADE DAMPERS UNLESS OTHERWISE INDICATED.

6 Registers and diffusers
1 : 1



NOTES:
1. INTERCONNECTING CONDUITS FOR CO OUTLETS BY DIV.15.
2. CONTROL WIRING TO CACF FOR FAN CONTROL BY DIV.16.
3. CONTROL WIRING FOR C.O. PANEL, ON FLOOR DAMPER AND ON FLOOR DETECTOR BY DIV.15
4. CO-ORDINATE ALL WORK ON SITE BETWEEN DIV.15 AND DIV.16.
5. DIV. 15 TO PROVIDE ALL GARAGE DAMPERS AS FAIL OPEN.

PARKING GARAGE C.O. SYSTEM RISER

5 PARKING GARAGE C.O. SYSTEM RISER
NTS.

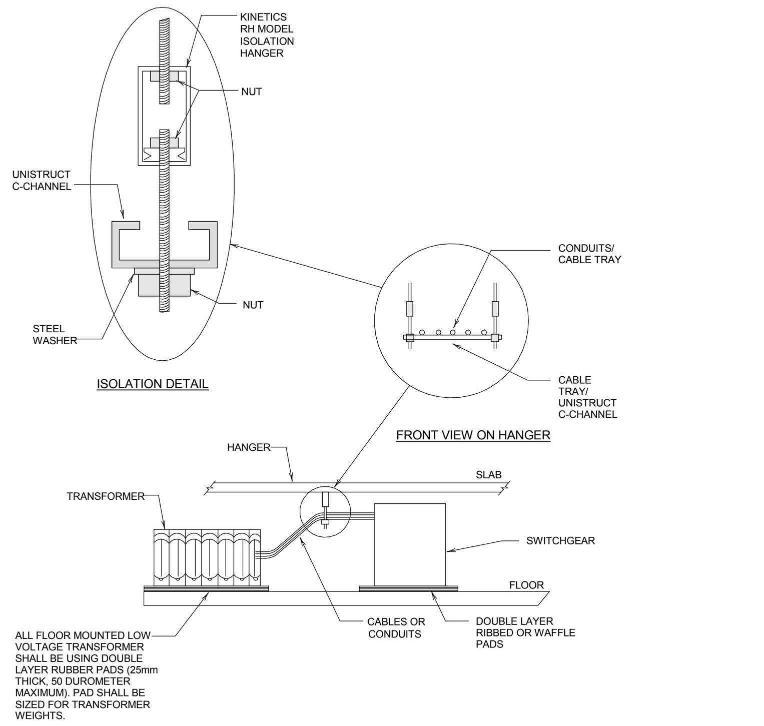
600V, 3 PHASE MOTOR SIZING DATA FOR STARTER

MOTOR: HP	MOTOR: FLA	COMBINATION MAGNETIC STARTER: SIZE	TYPE	CLASS `J' TIME DELAY FUSE AMPS	BREAKER AMPS (HACR RATED)	VFD: FAST ACTING SWITCH / FUSE SIZE AMPS	UNF. DISC. SW. AT MOTOR AMPS	FEEDER & WIRING: POWER FEEDER: MIN. AMPS	POWER FEEDER: MIN. WIRE SIZE	MIN. CONDUIT SIZE: (INCH)	MIN. CONDUIT SIZE: (mm)	REMARKS:
1/2	0.9	1	FVNR	30/15	15	30/15	30	15	3 # 12	1/2"	12	
3/4	1.3	1	FVNR	30/15	15	30/15	30	15	3 # 12	1/2"	12	
1	1.7	1	FVNR	30/15	15	30/15	30	15	3 # 12	1/2"	12	
1 1/2	2.4	1	FVNR	30/15	15	30/15	30	15	3 # 12	1/2"	12	
2	2.7	1	FVNR	30/15	15	30/15	30	15	3 # 12	1/2"	12	
3	3.9	1	FVNR	30/15	15	30/15	30	15	3 # 12	1/2"	12	
5	6.1	1	FVNR	30/15	15	30/15	30	15	3 # 12	1/2"	12	
7 1/2	9	1	FVNR	30/15	20	30/25	30	15	3 # 12	1/2"	12	
10	11	1	FVNR	30/15	25	30/30	30	15	3 # 12	1/2"	12	
15	17	2	FVNR	30/25	40	60/50	30	22	3 # 10	1/2"	12	
20	22	2	FVNR	60/35	50	60/60	60	28	3 # 10	1/2"	12	
25	27	2	FVNR	60/45	70	100/80	60	34	3 # 8	3/4"	20	
30	32	3	FVNR	60/50	80	100/90	60	40	3 # 8	3/4"	20	
40	41	3	FVNR	100/70	100	200/125	100	52	3 # 6	1"	25	
50	52	3	FVNR	100/90	125	200/150	100	65	3 # 6	1"	25	
60	62	4	RVNR	200/110	100	200/175	200	78	3 # 4	1"	25	
75	77	4	RVNR	200/125	150	400/225	200	97	3 # 3	1 1/4"	32	
80	82	4	RVNR	200/125	150	400/225	200	103	3 # 2	1 1/4"	32	
100	99	4	RVNR	200/175	250	400/300	200	124	3 # 1	1 1/4"	32	
200	192	5	RVNR	400/300	350	600/500	400	240	3 #250MCM	2 1/2"	65	

GENERAL NOTES:
1. SIZE OF FUSE BASED ON BUSSMAN `J' DUAL ELEMENT TIME DELAY FUSES
2. PROVIDE MANUAL STARTERS FOR ALL 120V MOTORS TO SUIT.
3. ALL STARTERS AND/OR DISCONNECT SWITCHES LOCATED IN THE PARKING LEVELS SHALL BE MOUNTED BEHIND A LOCKABLE, KEYED ALIKE,
SEE-THROUGH COVER. PROVIDE A MINIMUM 10 KEYS.
4. ALL WIRE SIZES ARE BASED ON COPPER.

STARTER TYPES:
FVNR - FULL VOLTAGE NON REVERSING
RVNR - REDUCED VOLTAGE NON REVERSING
PCK - PACKAGED: SUPPLIED WITH EQUIPMENT
2SSW - TWO (2) SPEED SINGLE WINDING:
NOTE: PROVIDE 6 WIRES ON THE LOAD SIDE OF THE STARTER
SSMC - SOFT START MOTOR CONTROLLERS
RV-SS - DENOTES REDUCED VOLTAGE / SOFT START STARTERS

4 600V, 3 PHASE MOTOR SIZING DATA FOR STARTER1
NTS.



NOTES:
THIS DETAIL IS APPLICABLE TO ENTIRE BUILDING IF NECESSARILY.

1 NOISE REDUCTION HOUSEKEEPING PAD AND SUPPORT HANGERS
N.T.S.

Contractor Must Check And Verify All Dimensions On The Job.

Do Not Scale The Drawings.

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Date: 10/08/15

LICENSED PROFESSIONAL ENGINEER 8489D D. C. M. BELLAMY PROVINCE OF ONTARIO

MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2920 Fax: 416-598-5394
Toronto Vancouver Winnipeg Moncton Ottawa Halifax Dauphin Kelowna Trail Saint John

No.:	Revision	Date
1	ADD M-001	2015/10/30
2	ISSUED FOR ADD E-001	2015/12/10
3	ISSUED FOR ADD E-003	2016/01/26
4	ADD M-002	2016/XX/XX

No	Issued For	Date
3		
2		
1	ISSUED FOR TENDER	2015-10-15

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
CONDO - EQUIPMENT SCHEDULES #5

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

Scale: N.T.S.
Drawn by: S.J.
Checked by: Checker
Project No.: 8489D
Date: 10/08/15
Drawing No.: ME-15