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, X — 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

LIGHTING

- 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
- H/O — POLE MOUNTED LUMINAIRE, TYPE 'H/' AS SPECIFIED
- DOUBLE SURFACE MOUNTED EMERGENCY LIGHTING REMOTE HEADS, TYPE 'BLU' INDICATES BATTERY BANK FED FROM
- CEILING MOUNTED EMERGENCY LIGHTING REMOTE HEAD
- EMERGENCY LIGHTING BATTERY UNIT C/W DUPLEX RECEPTACLE AND DOUBLE REMOTE HEADS, TYPE 'BLU' AS SPECIFIED
- BLU — WALL MOUNTED DOUBLE FACED EXIT LIGHT AND DIRECTIONAL ARROWS AS INDICATED. SHADED AREAS DENOTE DIRECTION OF FACE OF EXIT SIGN. 'BLU' 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.

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
- MODULAR FURNITURE WHIP CONNECTION 'C' - DENOTES CEILING '5' - 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
- HAIR DRYER
- HAND DRYER
- CONTACTOR - SIZE AND NUMBER OF POLES AS SPECIFIED
- RELAY
- THERMOSTAT PROVIDED AND WIRED BY ELECTRICAL
- 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
- RECESSED MOUNTED ELECTRICAL PANEL - 'SP' DENOTES PANEL DESIGNATION
- SURFACE MOUNTED ELECTRICAL PANEL - 'SP' DENOTES PANEL DESIGNATION

LIGHTING CONTROL

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

FIRE ALARM SYSTEM

- PULL STATION
- FLUSH-MOUNTED BELL
- HORN — 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
- 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
- DUCT — 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/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
- 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
- FMF — RECESSED MOUNTED - CENTRAL MONITORING AND EVACUATION FACILITIES
- FMF — SURFACE MOUNTED - CENTRAL MONITORING AND EVACUATION FACILITIES
- EOL — END OF LINE RESISTOR
- REMOTE TROUBLE SIGNAL

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
- KWHR — KWHR METER
- DM — DIGITAL METERING SYSTEM
- BUS DUCT
- ATS — AUTOMATIC TRANSFER SWITCH - 'BP' DENOTES ISOLATION BYPASS SWITCH
- EMERGENCY GENERATOR
- EI — EMERGENCY LIGHTING INVERTER
- UPS — UNINTERRUPTABLE POWER SUPPLY

SECURITY AND ACCESS SYSTEMS

- SP — SECURITY SYSTEM CONTROL PANEL
- KP — KEY PAD
- CR — CARD READER
- IR — INFRA RED READER
- RE — 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
- AS — AUDIBLE ALARM
- MD — MOTION DETECTOR
- GB — GLASS BREAK DETECTOR
- AO — AUTOMATIC DOOR OPENER
- CCTV — CLOSED CIRCUIT CAMERA 'B' - DENOTES BOX ENCLOSURE 'D' - DENOTES ELEVATOR CORNER MOUNT 'P' - DENOTES PENDANT MOUNT 'PTZ' - DENOTES PAN TILT ZOOM 'W' - WEDGE ENCLOSURE
- SM — SECURITY SYSTEM MONITOR
- KL — MAGLOCK DEVICE
- MR — MAGLOCK RESET SWITCH
- KS — KEY SWITCH
- CB — CODE BLUE SPEAKER PHONE
- CB — CODE BLUE INTEGRATED UNIT C/W ACCESSORIES, POLE OR PEDESTAL MOUNTED
- AS — ALARM SOUNDER
- FA — FA/MC ALARM

ELECTRIC HEATING

- 900W — ELECTRIC BASEBOARD HEATER, TYPE 'BBH/' AS SPECIFIED
- 1500W — ARCHITECTURAL DRAFT BARRIER HEATER, TYPE 'DBH/' AS SPECIFIED
- 450W — ELECTRIC KICKSPACE HEATER, TYPE 'KSH/' AS SPECIFIED
- 750W — ELECTRIC DROP-IN HEATER, TYPE 'DIH/' AS SPECIFIED
- 2.0kW — CABINET UNIT HEATER, TYPE 'CUH/' AS SPECIFIED
- 1.5kW — RECESSED MOUNTED - ELECTRIC FORCE FLOW HEATER, TYPE 'RFH/' AS SPECIFIED
- 2.0kW — SURFACE MOUNTED - ELECTRIC FORCE FLOW HEATER, TYPE 'RFH/' AS SPECIFIED
- 1.5kW — ELECTRIC UNIT HEATER, TYPE 'UH/' AS SPECIFIED
- AREA OF SNOW MELTING CABLE - TYPE 'SY' AS SPECIFIED
- HEAT TRACING CABLE AROUND HORIZONTAL PIPE - TYPE 'ISD' AS SPECIFIED
- HEAT TRACING CABLE AROUND VERTICAL PIPE - TYPE 'ISY' AS SPECIFIED

MISCELLANEOUS

- INDICATES EXISTING DEVICE TO REMAIN
- M — INDICATES EXISTING DEVICE TO BE MOVED
- R — INDICATES EXISTING DEVICE IN RELOCATED POSITION
- D — INDICATES EXISTING DEVICE TO BE DEMOLISHED
- INDICATES CONDUIT
- DWG — ELECTRICAL DRAWING NOTES

COMMUNICATIONS

- WALL MOUNTED COMBINATION MULTI-FUNCTION COMMUNICATION OUTLET
- WALL MOUNTED COMBINATION MULTI-FUNCTION COMMUNICATION OUTLET - MOUNTED ABOVE COUNTER
- TELEVISION OUTLET - WALL MOUNTED OR MOUNTED ABOVE COUNTER
- TELEVISION OUTLET - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- TELEPHONE OUTLET - WALL MOUNTED OR MOUNTED ABOVE COUNTER
- TELEPHONE OUTLET - FLUSH CEILING MOUNTED UNLESS NOTED OTHERWISE
- PAY TELEPHONE OUTLET
- TELEPHONE OUTLET - FLUSH FLOOR MOUNTED
- TERMINAL POINT OF TELEPHONE ZONE CIRCUIT ON CEILING SLAB C/W 2" (50mm) 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
- COMMUNICATIONS CABINET, TYPE 'A' AS SPECIFIED
- COMMUNICATIONS DROP IDENTIFICATION NUMBER - A01 INDICATES DROP IDENTIFICATION
- SIGNAL PUSHBUTTON
- SIGNAL BELL C/W TRANSFORMER
- INTERCOM MASTER STATION
- INTERCOM STATION
- FLUSH MOUNTED AUXILIARY SOUND SYSTEM SPEAKER - WALL MOUNTED OR CEILING MOUNTED
- SURFACE MOUNTED AUXILIARY SOUND SYSTEM SPEAKER - WALL MOUNTED OR CEILING MOUNTED
- MICROPHONE JACK
- PUBLIC ADDRESS SPEAKER, TYPE 'I' AS SPECIFIED
- VOLUME CONTROL SWITCH
- PROJECTION SOUND JACK
- SOUND BRIDGING JACK
- AMP — AMPLIFIER
- PN — CONSOLE OR RACK C/W TERMINAL BOX

NURSE CALL SYSTEMS

- SINGLE PATIENT BED STATION
- DOUBLE PATIENT BED STATION
- FULL CORD STATION - (SHOWER ROOM, TUB ROOM, AND WASHROOMS)
- DOME LIGHT CONSISTS OF: 'FLASHING RED' FOR FIRE ALARM 'FLASHING BLUE' FOR STAFF ASSIST STATION 'FLASHING WHITE' FOR STATION IN WASHROOM, SHOWER OR TUB ROOM 'FLASHING AMBER' FOR EXTERIOR STATION LOCATIONS 'STEADY AMBER' FOR DINING OR ACTIVITY AREAS
- WALL MOUNTED DUTY STATION OUTLET FOR NURSE CALL CONSOLE. CONSOLE SHALL BE MOUNTED AT TYPICAL OUTLET MOUNTING HEIGHT
- RCA — RECESSED MOUNTED - NURSE CALL ANNUNCIATOR PANEL
- SURFACE MOUNTED - NURSE CALL ANNUNCIATOR PANEL
- RCP — RECESSED MOUNTED - NURSE CALL CONTROL PANEL
- SCP — SURFACE MOUNTED - NURSE CALL CONTROL PANEL

BRANCH CIRCUITING LEGEND

- 3 — 'P' - DENOTES CIRCUIT NUMBER (DENOTES PANEL DESIGNATION OF PANEL (P1 LEVEL))
- 'E' - DENOTES EMERGENCY PANEL
- 'J' - DENOTES 120/208V 0R
- 'K' - DENOTES 347/600V

NOTES

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 DEVICE FROM FINISHED FLOOR.
3. ALL EXIT SIGNS IN PARKING LEVELS NOT INDICATED AS WALL MOUNTED SHALL BE CEILING MOUNTED. EXIT SIGNS SHALL BE MOUNTED TO STRUCTURE AND NOT TO DUCTS OR CABLE BELOW IN ORDER TO AVOID STRUCTURAL/MECHANICAL/ELECTRICAL CONFLICTS. COORDINATE EXACT LOCATION ON SITE PRIOR TO INSTALLATION.
4. ALL EMERGENCY LIGHTING EQUIPMENT AND CIRCUITRY SHALL BE CHECKED AND SUPERVISED TO CLEAR ALL OTHER EQUIPMENT AND STRUCTURES. COORDINATE EXACT LOCATIONS PRIOR TO INSTALLATION.
5. ALL LIGHTING CONTROL DEVICES SHALL BE LOCATED WITH ALL STARTERS AND DISCONNECT SWITCHES LOCATED IN TELECOMMUNICATIONS ROOMS. KEYS SHALL BE HANDED OVER TO OWNER AT END OF PROJECT.
6. ALL LIGHTING SHALL BE CONTROLLED BY DOOR RISER DETAILS FOR COMMON AREAS AND STAIRWELL LIGHTING.
7. ALL EXIT LIGHTS WITHIN PARKADE AREA SHALL BE TYPE 'E/Y' UNLESS NOTED OTHERWISE.
8. ALL EXIT LIGHTS WITHIN COMMON PUBLIC AREAS EXCLUDING PARKADE AREAS SHALL BE TYPE 'E/Z' UNLESS NOTED OTHERWISE.

RESIDENTIAL SUITE NOTES:

1. OUTLET MOUNTED IN MILLWORK (UNDER SINK) FOR FUTURE DISHWASHER.
2. SEE SUITE PLANS.
3. SUITE FAN COIL UNIT C/W ELECTRIC HEATER (TYPICAL).
4. ALL RECEPTACLES IN KITCHEN WITHIN 1M OF SINK SHALL BE PROVIDED WITH GROUND FAULT PROTECTION (TYPICAL).
5. WHEN MORE THAN ONE SMOKE ALARM C/W COMBINATION SMOKE ALARM/C.O. DETECTOR IS REQUIRED IN A DWELLING UNIT, THE INTERCONNECTION OF ALL SMOKE ALARMS AND C.O. DETECTORS SUCH THAT ONE DETECTOR WILL CAUSE ALL DETECTORS WITHIN DWELLING UNIT TO SOUND. (TYPICAL)
6. SEE SUITE PLANS.
7. PROVIDE FIRE ALARM PULLSTATIONS AT ALL SUITE BALCONY EXITS ON MAIN FLOOR ONLY.
8. PROVIDE GFCI WATERPROOF RECEPTACLE AT ALL SUITES WHERE APPLICABLE. RECEPTACLE SHALL BE MOUNTED AT 900mm (2'-0") AFF.

NOTE:
NOT ALL SYMBOLS SHOWN ON THIS LEGEND ARE NECESSARILY USED ON THIS PROJECT.

ABBREVIATIONS

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

DWG NO.	DRAWING NAME	SCALE
E0-00	COVER PAGE	
E0-01	ELECTRICAL SYMBOL LEGEND, DRAWING LIST & GENERAL NOTES	N.T.S.
E0-02	SITE PLAN - ELECTRICAL	
E1-01	LEVEL P4 & LEVEL P3 PARKING PLAN - ELECTRICAL	
E1-02	LEVEL P2 & LEVEL P1 PARKING PLAN - ELECTRICAL	
E1-03	LEVEL P1 MEZZANINE PARKING PLAN - ELECTRICAL	
E2-01A	LEVEL 1 FLOOR PLAN NORTH - ELECTRICAL	
E2-01B	LEVEL 1 FLOOR PLAN SOUTH - ELECTRICAL	
E2-02A	LEVEL 1 MEZZANINE FLOOR PLAN NORTH - ELECTRICAL	
E2-02B	LEVEL 1 MEZZANINE FLOOR PLAN SOUTH- ELECTRICAL	
E2-03A	LEVEL 2 FLOOR PLAN NORTH - ELECTRICAL	
E2-03B	LEVEL 2 FLOOR PLAN SOUTH - ELECTRICAL	
E2-04A	LEVEL 3 FLOOR PLAN NORTH - ELECTRICAL	
E2-04B	LEVEL 3 FLOOR PLAN SOUTH - ELECTRICAL	
E2-05A	LEVEL 4 FLOOR PLAN NORTH - ELECTRICAL	
E2-05B	LEVEL 4 FLOOR PLAN SOUTH - ELECTRICAL	
E2-06A	LEVEL 5 FLOOR PLAN NORTH - ELECTRICAL	
E2-06B	LEVEL 5 FLOOR PLAN SOUTH - ELECTRICAL	
E2-07A	LEVEL 6 FLOOR PLAN NORTH - ELECTRICAL	
E2-07B	LEVEL 6 FLOOR PLAN SOUTH - ELECTRICAL	
E2-08A	LEVEL 7 FLOOR PLAN NORTH - ELECTRICAL	
E2-08B	LEVEL 7 FLOOR PLAN SOUTH - ELECTRICAL	
E2-09A	LEVEL 8 FLOOR PLAN NORTH - ELECTRICAL	
E2-09B	LEVEL 8 FLOOR PLAN SOUTH - ELECTRICAL	
E2-010A	LEVEL 9 FLOOR PLAN NORTH - ELECTRICAL	
E2-010B	LEVEL 9 FLOOR PLAN SOUTH - ELECTRICAL	
E2-11A	LEVEL 10 FLOOR PLAN NORTH - ELECTRICAL	
E2-11B	LEVEL 10 FLOOR PLAN SOUTH - ELECTRICAL	
E2-12A	LEVEL 11 FLOOR PLAN NORTH - ELECTRICAL	
E2-12B	LEVEL 11 FLOOR PLAN SOUTH - ELECTRICAL	
E2-13A	LEVEL 12 FLOOR PLAN NORTH - ELECTRICAL	
E2-13B	LEVEL 12 FLOOR PLAN SOUTH - ELECTRICAL	
E3-C-01	CONDO - SINGLE LINE DIAGRAM	
E3-C-02	CONDO - DISTRIBUTION RISER DIAGRAM	
E3-C-03	CONDO - SECURITY RISER DIAGRAM & DETAILS	
E3-C-04	CONDO - FIRE ALARM RISER DIAGRAM	
E3-C-05	CONDO - FIRE ALARM SYSTEM ZONE SCHEDULE	
E3-C-06	CONDO - COMMON AREA LIGHTING & POWER RISER DIAGRAM, DISPOSAL SYSTEM ROUGH-IN RISER	
E3-C-07	CONDO - COMMUNICATION SYSTEM RISER DIAGRAM	
E3-A-01	ARTSCAPE - SINGLE LINE DIAGRAM	
E3-A-02	ARTSCAPE - DISTRIBUTION RISER DIAGRAM & DETAILS	
E3-A-03	ARTSCAPE - SECURITY RISER DIAGRAM & DETAILS	
E3-A-04	ARTSCAPE - COMMON AREA LIGHTING & POWER RISER DIAGRAM, DISPOSAL SYSTEM ROUGH-IN RISER	
E3-A-05	ARTSCAPE - COMMUNICATION SYSTEM RISER DIAGRAM	
E4-01	MISCELLANEOUS DETAILS - ELECTRICAL	
E4-02	MISCELLANEOUS DETAILS - ELECTRICAL	
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-21	ARTSCAPE - EQUIPMENT SCHEDULES #1	N.T.S.
ME-22	ARTSCAPE - EQUIPMENT SCHEDULES #2	N.T.S.
ME-31	RETAIL - EQUIPMENT SCHEDULES #1	N.T.S.
ME-32	RETAIL - EQUIPMENT SCHEDULES #2	N.T.S.

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No.	Issued For	Date
1		

AQUAVISTA
AT BAYSIDE TORONTO

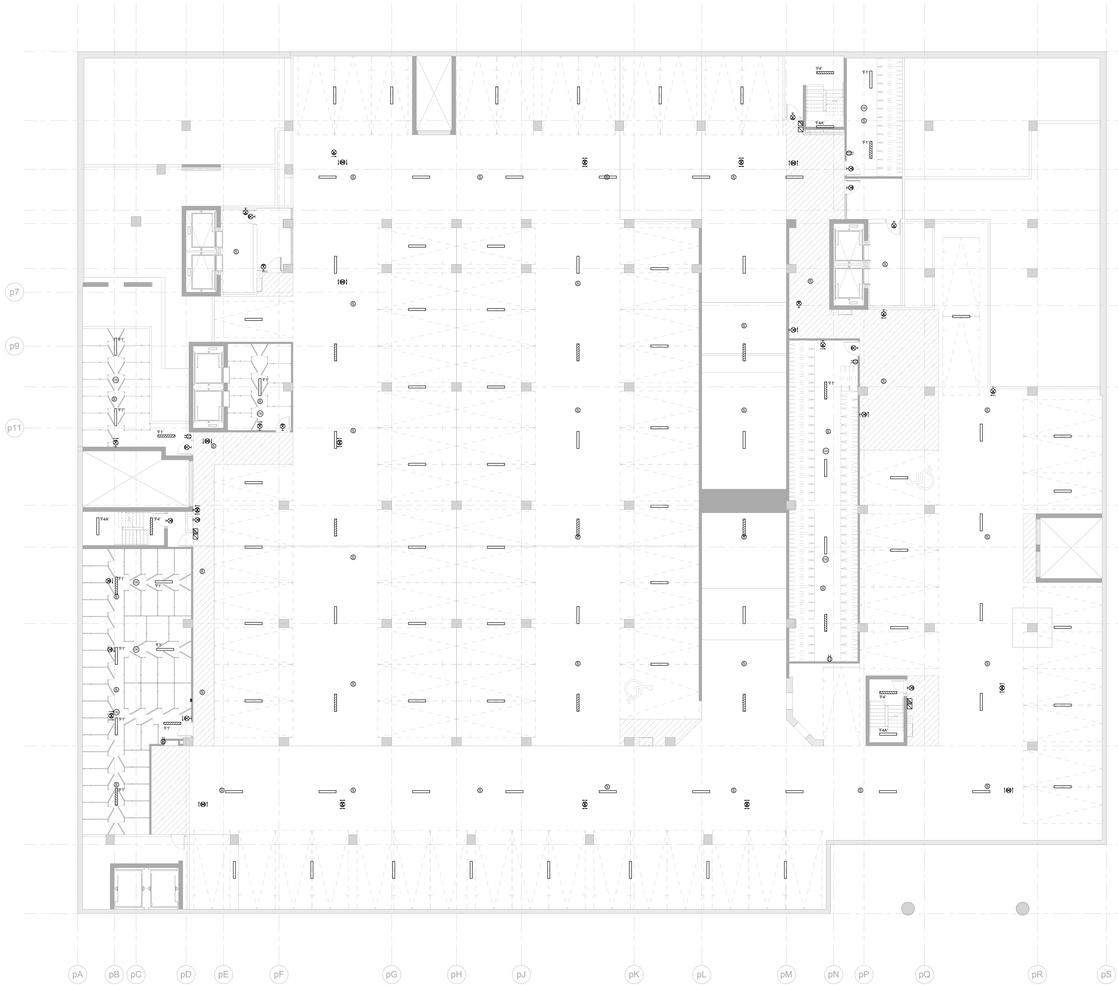
Drawing Title
ELECTRICAL SYMBOL LEGEND, DRAWING LIST & GENERAL NOTES

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

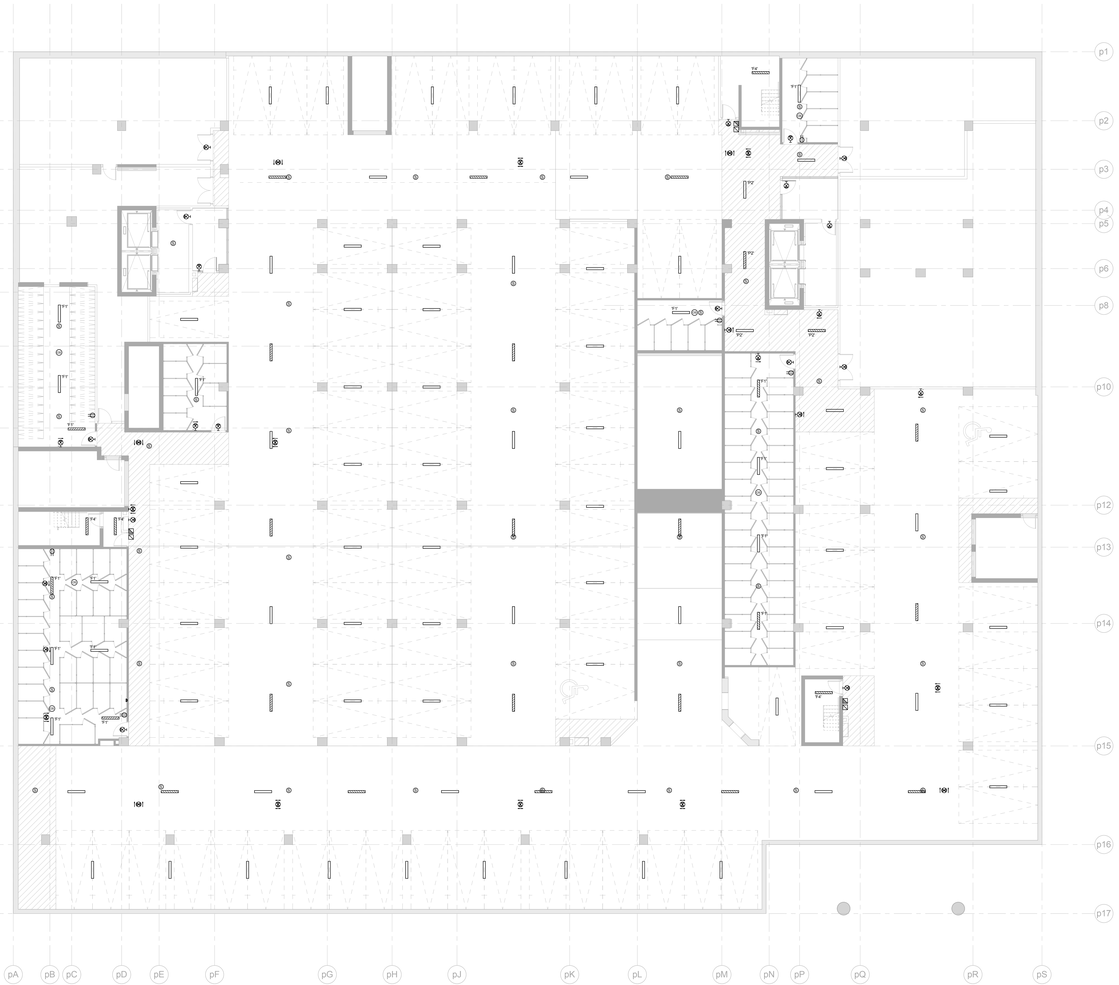
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Checked by: Checker
Project No: 8489D
Date: 08/28/12
Drawing No: E0-01

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Mon Dec 10 08:43:49 2012 File Path: C:\Users\cadmonitor\Documents\Revit Files\8489D_Aquavista_-_MEP_Central_2012.rvt



2 LEVEL P3 - ELECTRICAL
1 : 100



1 LEVEL P4 - ELECTRICAL
1 : 100

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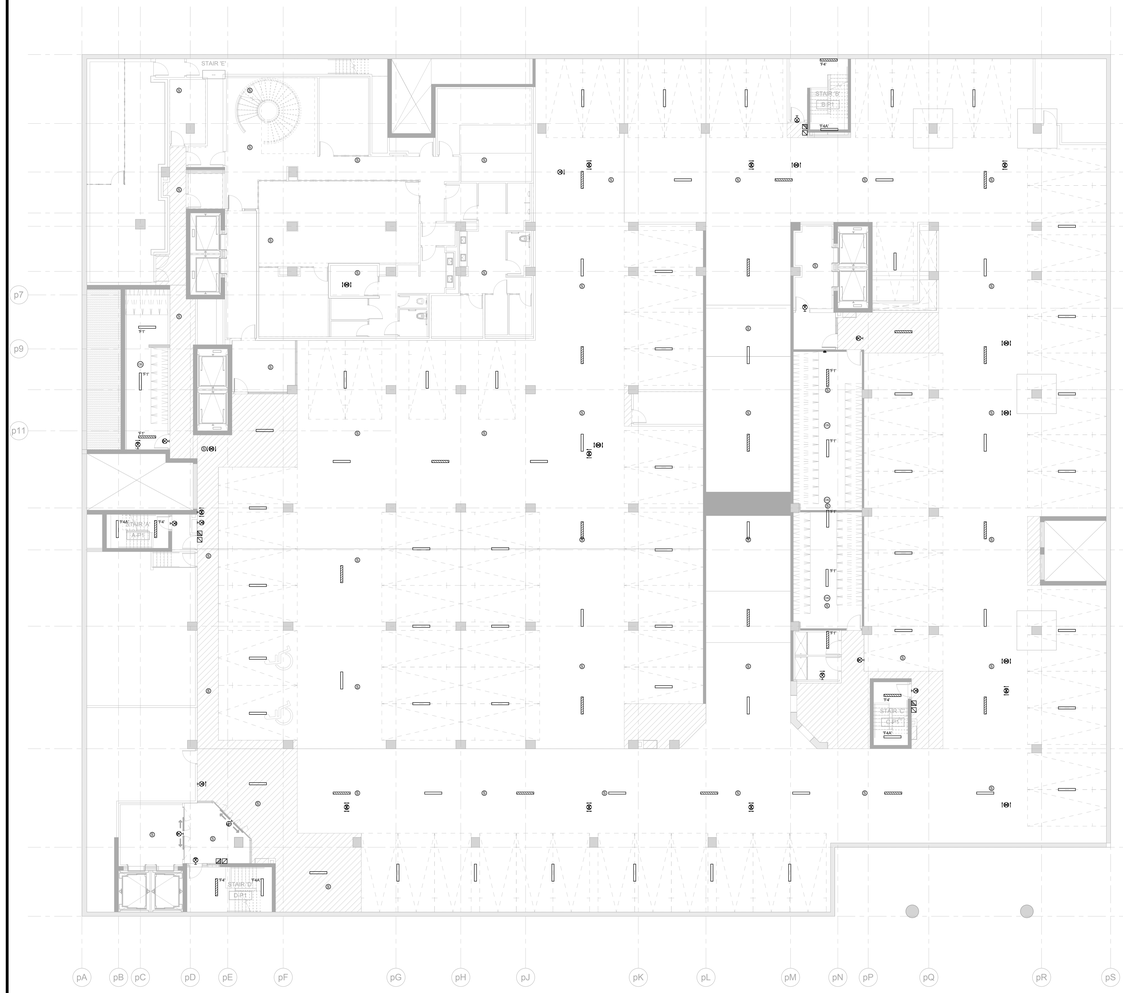
Drawing Title
LEVEL P4 & LEVEL P3 PARKING PLAN - ELECTRICAL

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

Scale: 1 : 100
Drawn by: Author
Checked by: Checker
Project No: 8489D
Date: 08/28/12
Drawing No: E1-01

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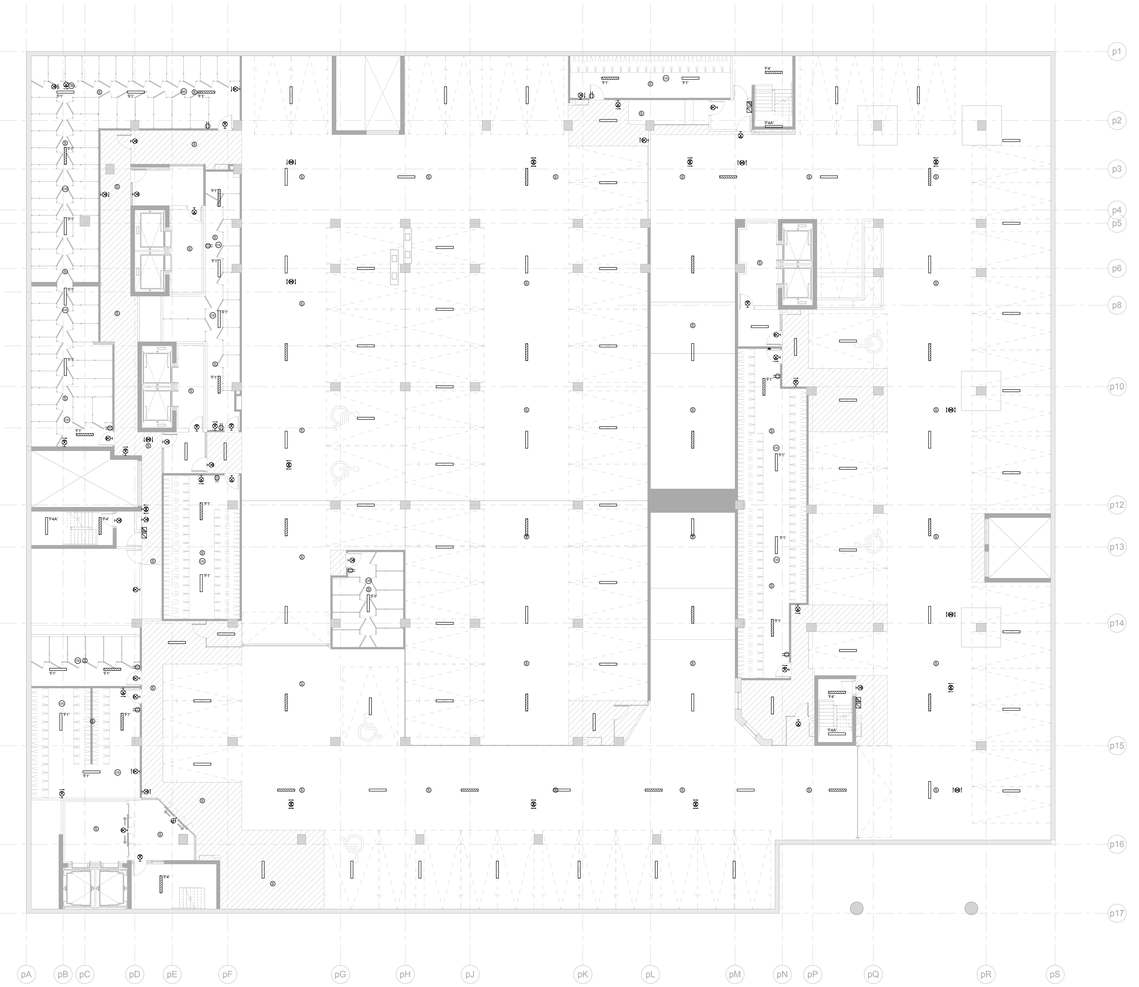


2 LEVEL P1 - ELECTRICAL

1 : 100

NOTES:

1. ALL GARAGE LIGHT FIXTURES SHALL BE TYPE 'FY' UNLESS OTHERWISE NOTED.
2. REFER TO RISER FOR STAIRS AND COMMON AREA CIRCUITS.
3. 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 UNSWITCHED.
4. ALL EXIT SIGNS ON THIS DRAWING SHALL BE TYPE 'E1'.



1 LEVEL P2 - ELECTRICAL

1 : 100

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1	Issued For Permit	03/06/15

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AT BAYSIDE TORONTO

Drawing Title

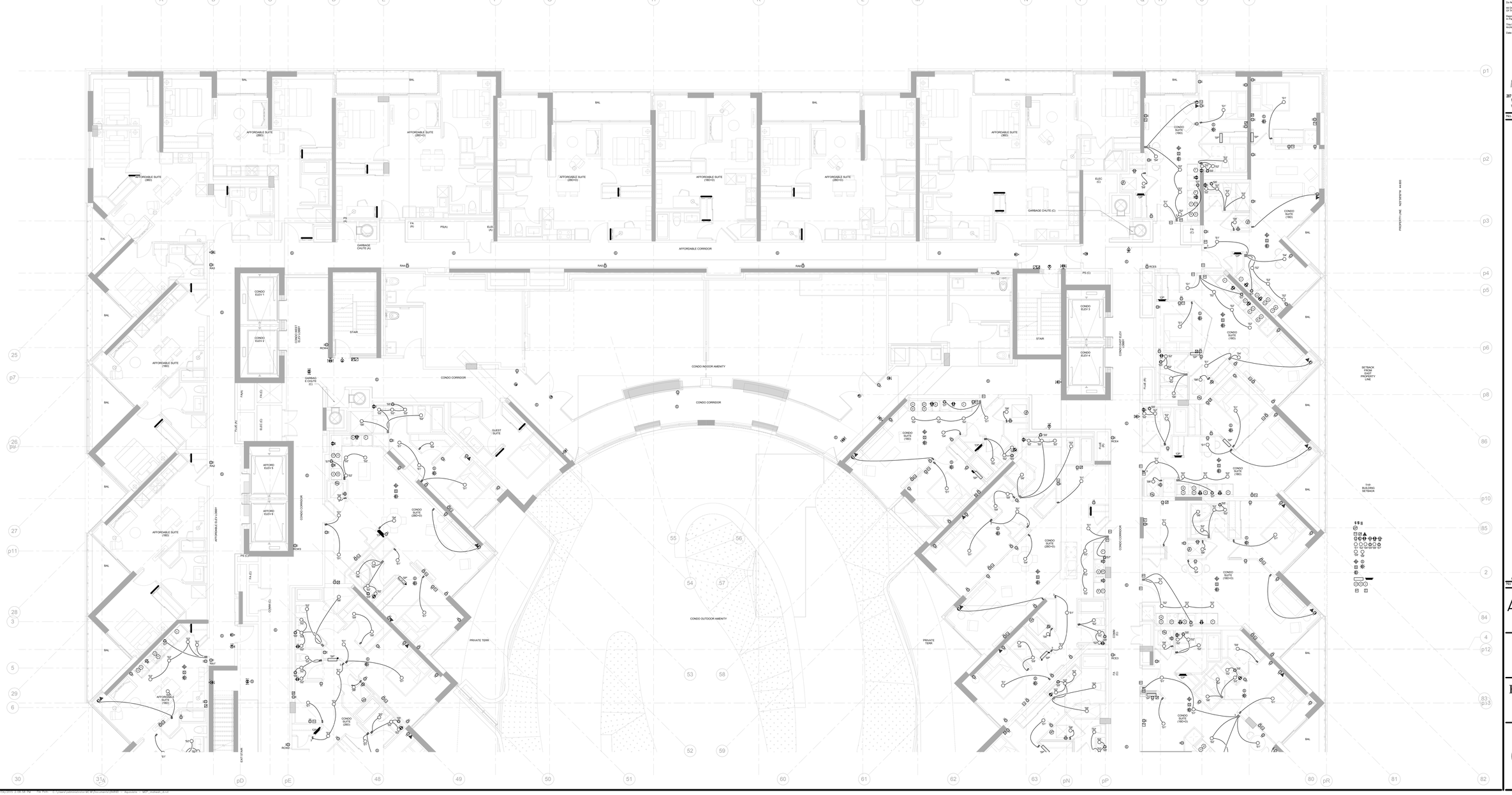
LEVEL P2 & LEVEL P1
PARKING PLAN -
ELECTRICAL

Project

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

Scale: 1 : 100
Drawn by: Author
Checked by: Checker
Project No.: 8489D
Date: 03/06/15
Drawing No.: E1-02

Plot Date: 03/06/2015 2:58:13 PM File Path: C:\Users\administrator.MCW\Documents\ARMS - Aquavista - MEP_mcwadv_2015



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E-Mail: mcw_tor@mcw.com
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1	Issued For Permit	03/09/15

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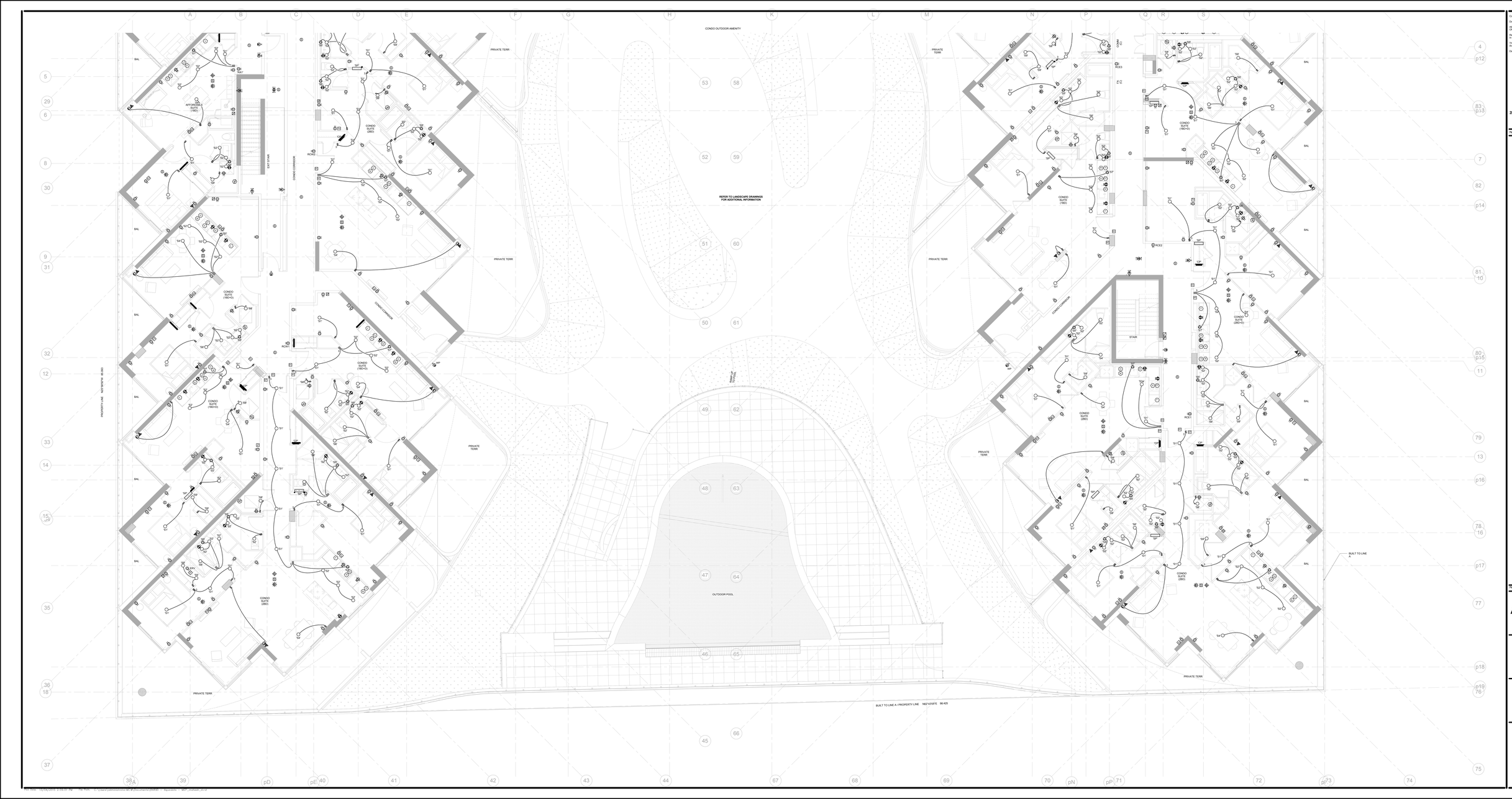
Drawing Title
LEVEL 2 FLOOR PLAN
NORTH - ELECTRICAL

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.	E2-03A

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Plot Date: 03/09/2015 2:58:58 PM File Path: C:\Users\cbellamy\Desktop\8489D_Aquavista - Apartments - MEP_cbellamy_2015



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Mark	Issued For	Date
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AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

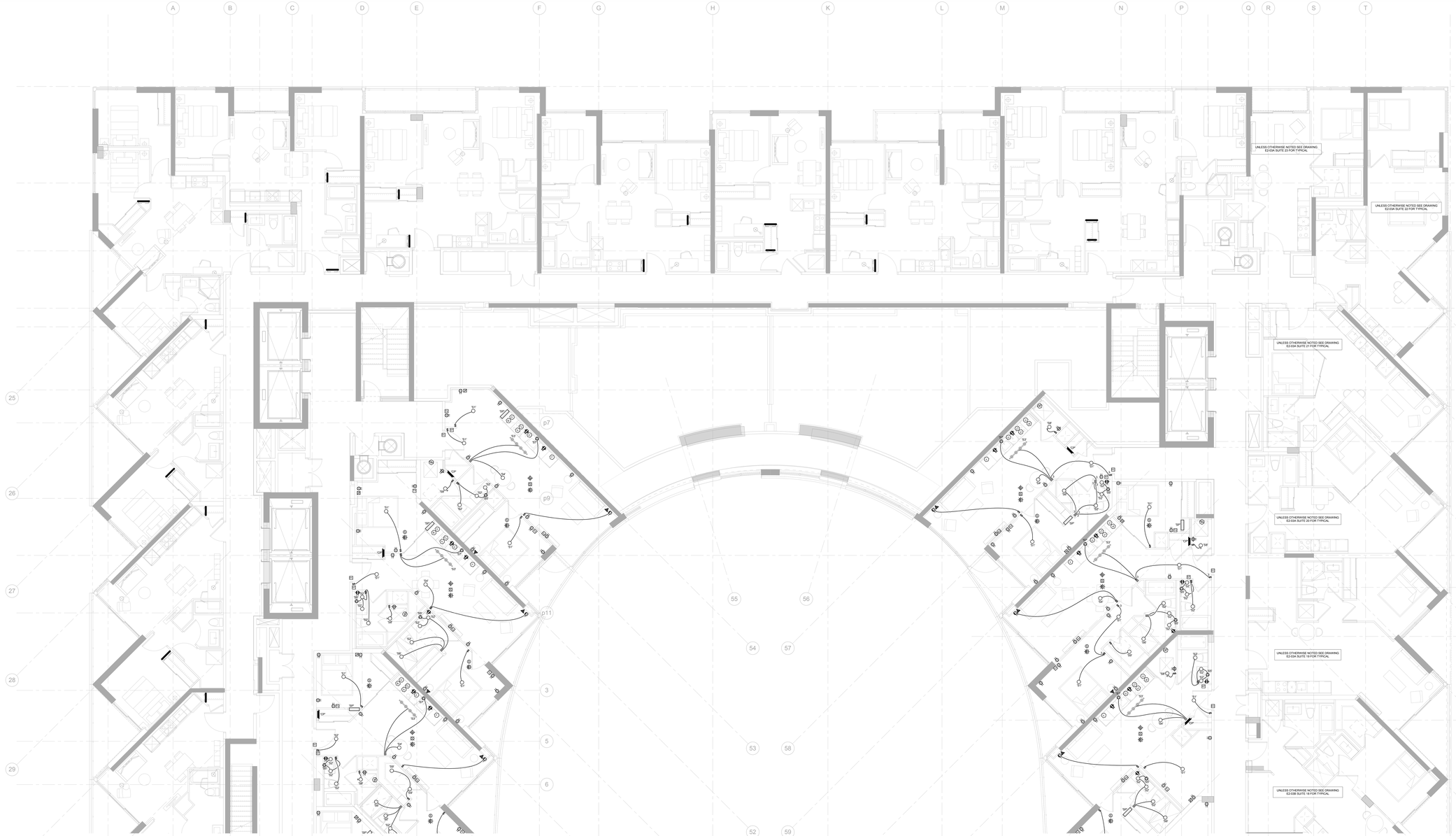
LEVEL 2 FLOOR PLAN
SOUTH - ELECTRICAL

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.	E2-03B

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No.	Revision	Date

No.	Issued For	Date
1	Issued for Permit	08/28/12

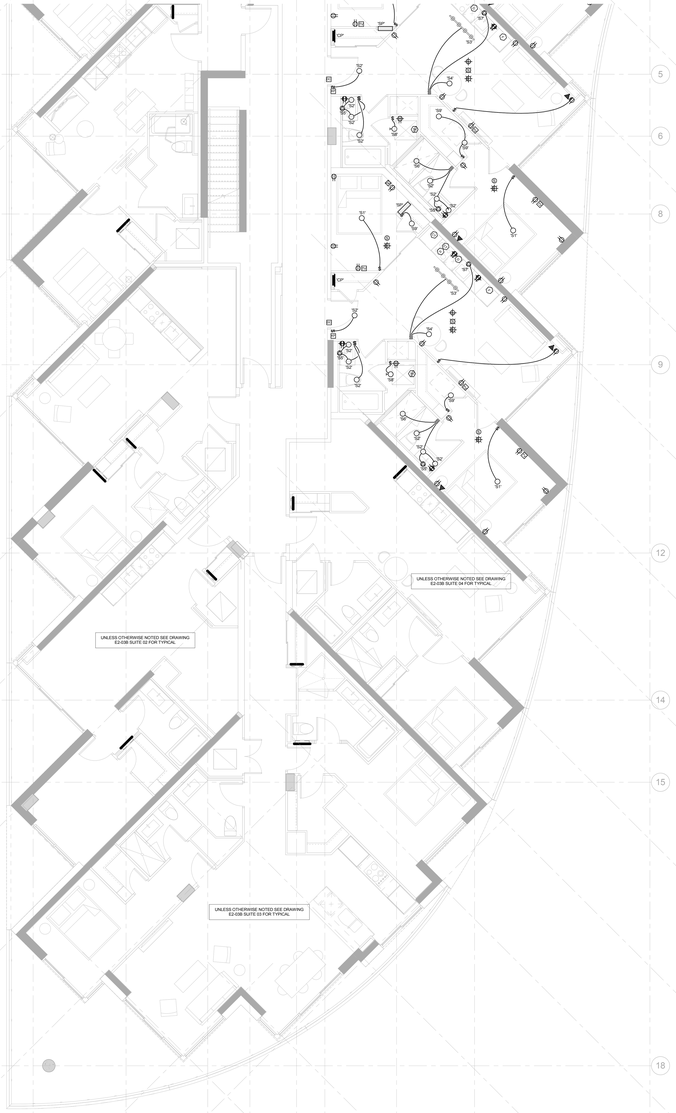
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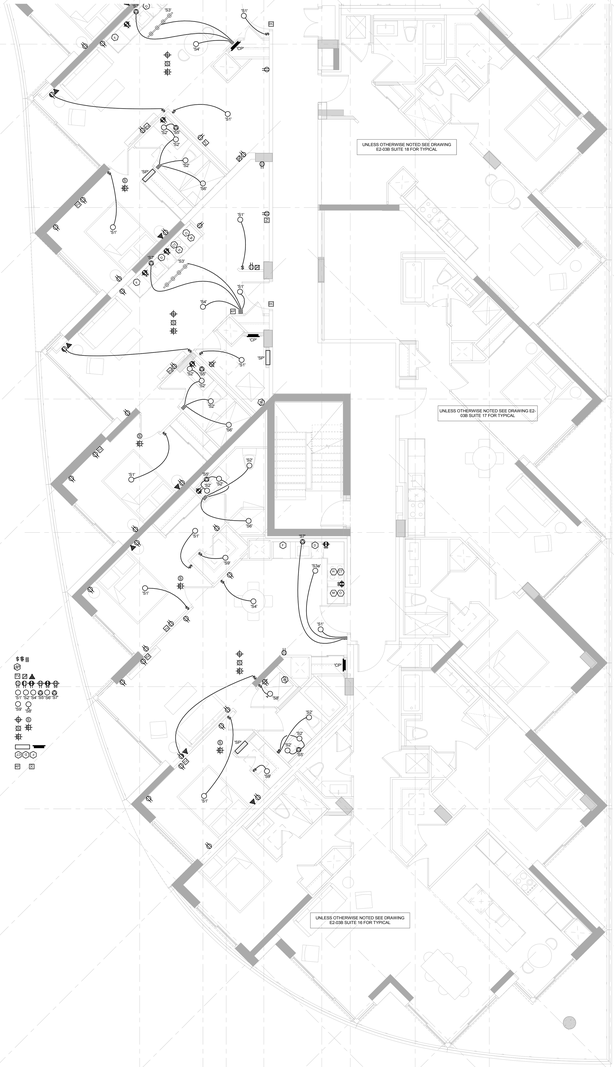
Drawing Title
LEVEL 3 FLOOR PLAN
NORTH - ELECTRICAL

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: 08/28/12
Drawing No: E2-04A

Plot Date: 08/28/2012 2:59:04 PM File Path: C:\Users\cmcwilliam.MCW\Documents\8489D - Aquavista - MEP_mcwilli_2012





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AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 3 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.: E2-04B

Plot Date: 10/9/2015 2:59:17 PM File Path: C:\Users\jsmolkovich\Documents\8489D_-_Aquavista_-_MEP_Revit_R15.rvt



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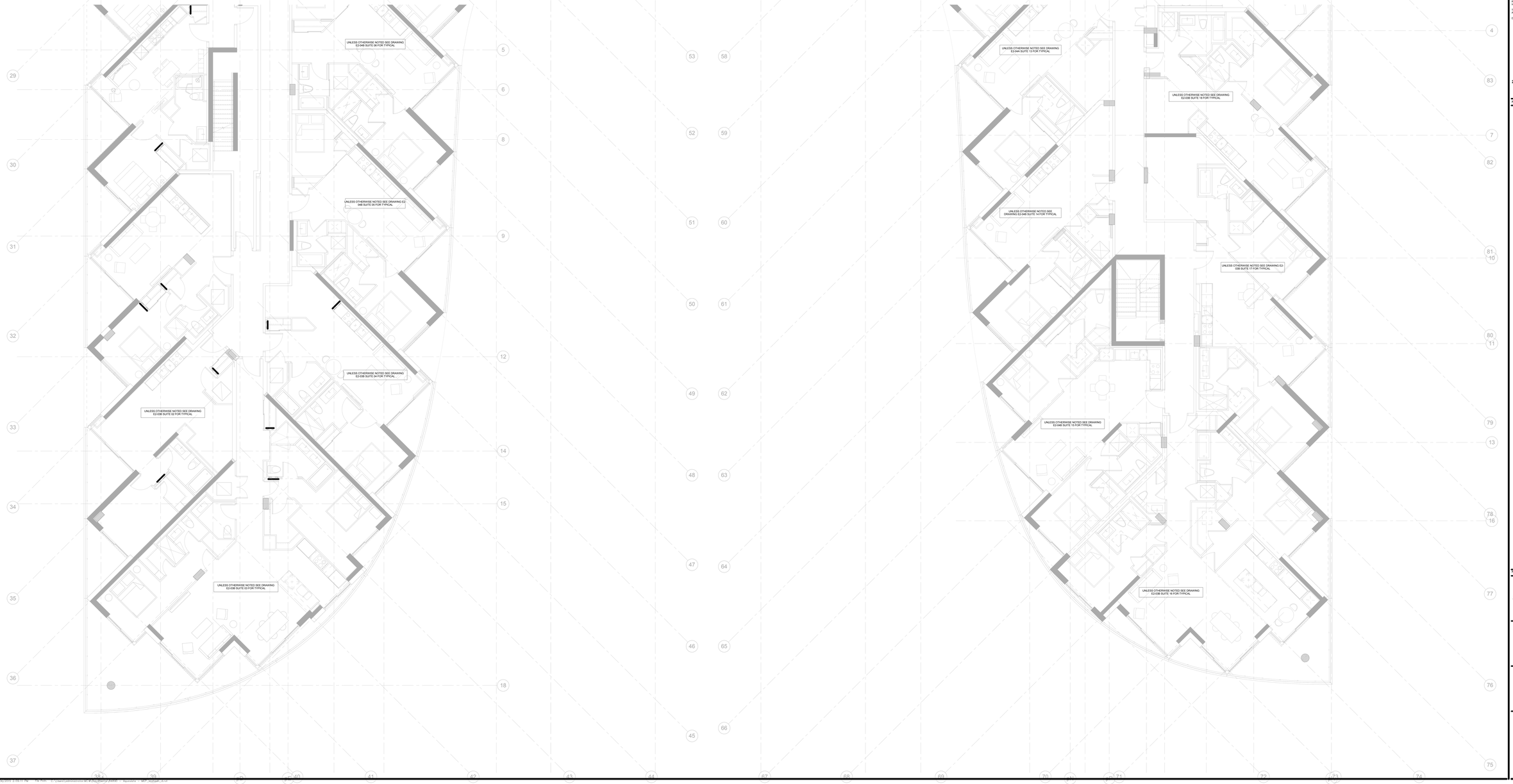
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 4 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:
E2-05A

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Drawing Title

LEVEL 4 FLOOR PLAN
SOUTH - ELECTRICAL

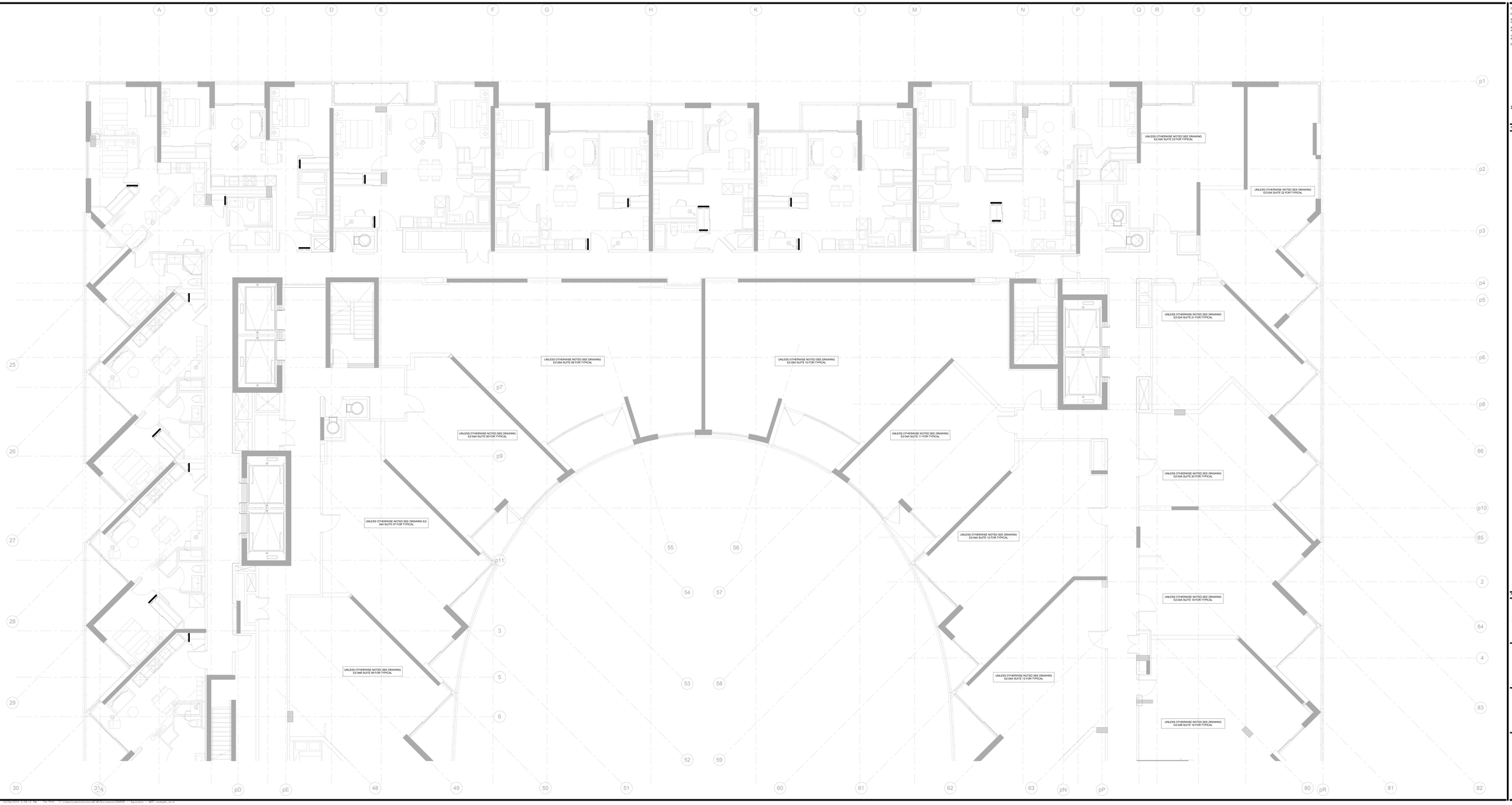
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Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

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Drawn by	Author
Checked by	Checker
Project No.	8489D
Date	03/09/15
Drawing No.	E2-05B

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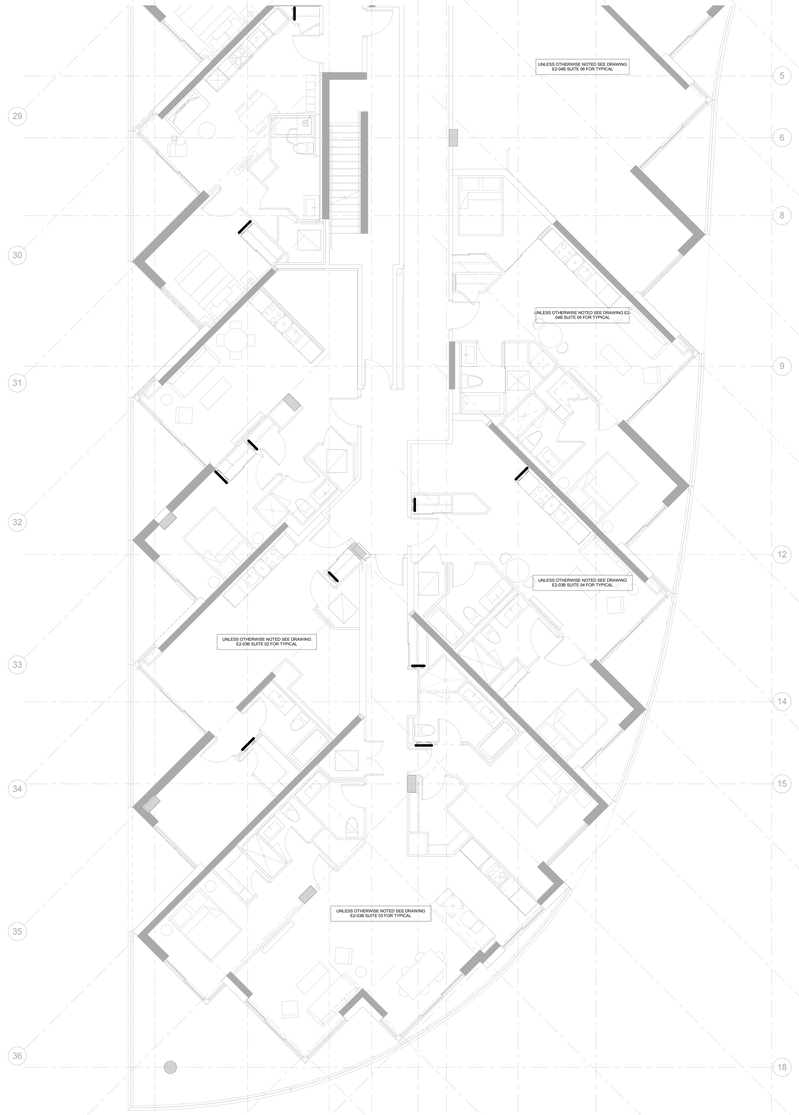
AQUAVISTA
AT BAYSIDE TORONTO

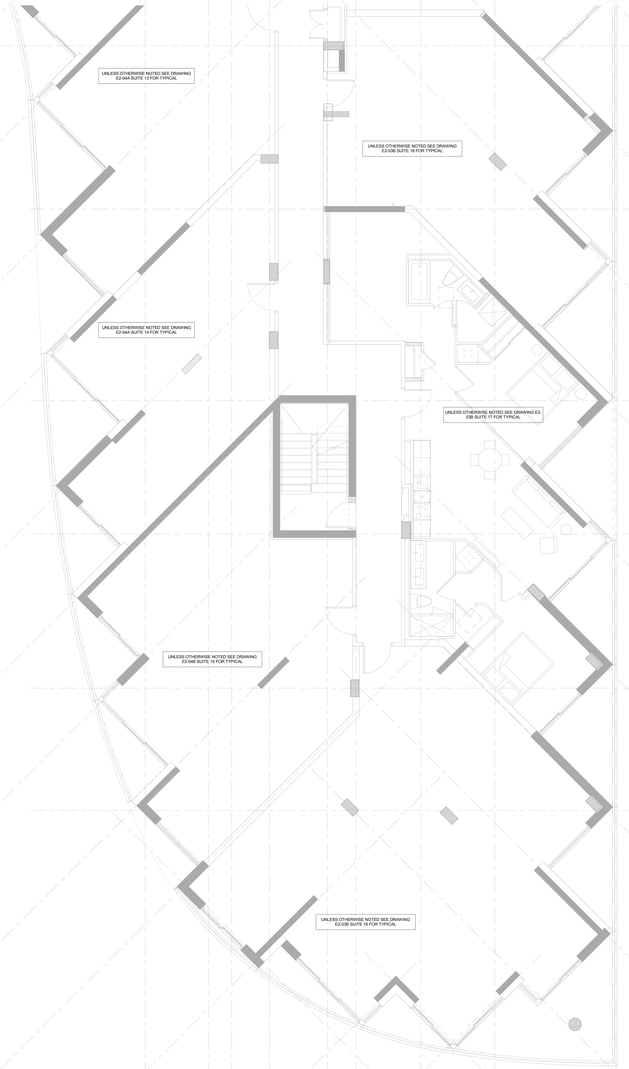
Drawing Title
LEVEL 5 FLOOR PLAN
NORTH - ELECTRICAL

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.	E2-06A

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Drawing Title

LEVEL 5 FLOOR PLAN
SOUTH - ELECTRICAL

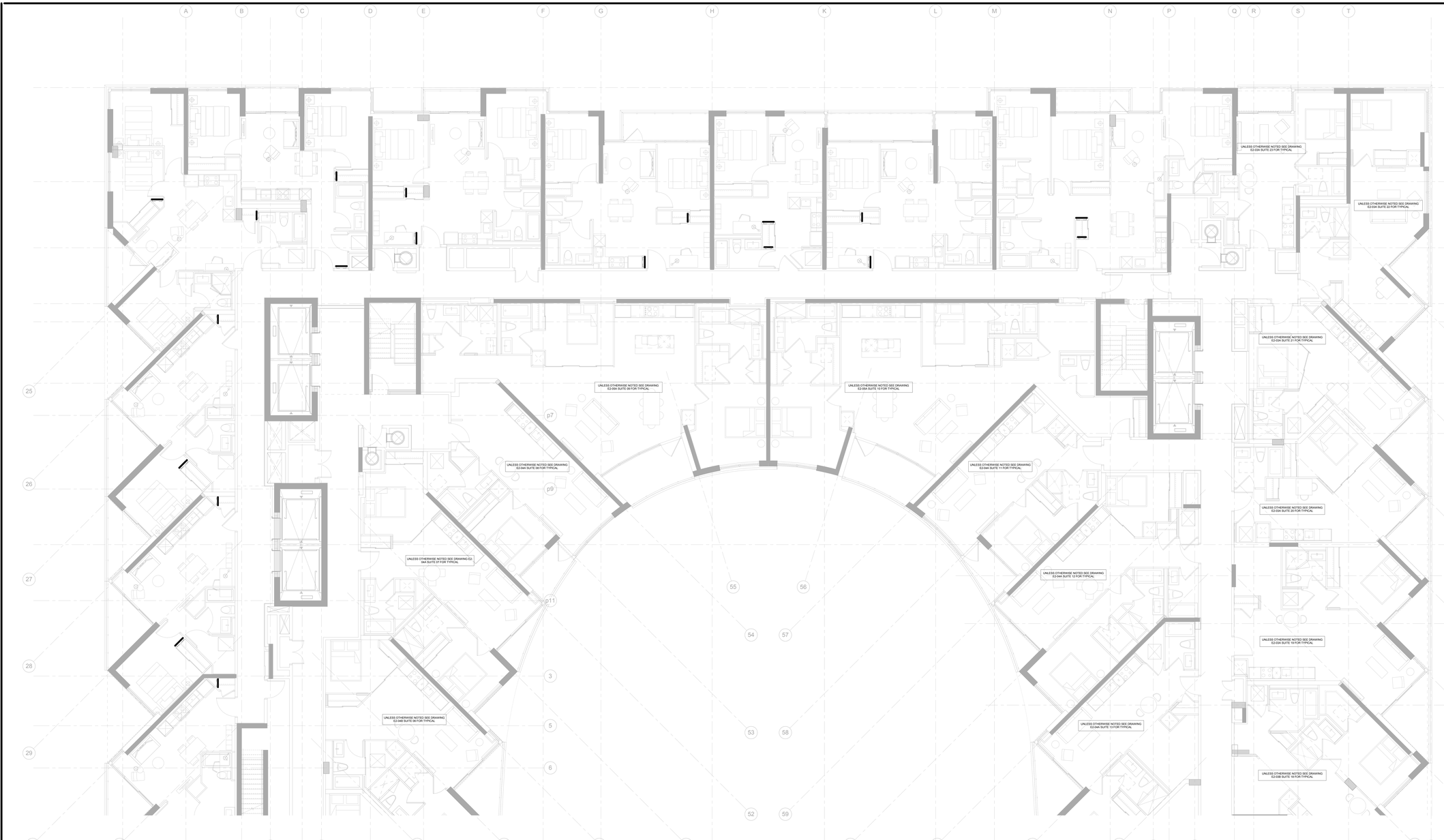
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AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

Scale: 1 : 50
Drawn by: Author
Checked by: Checker
Project No: 8489D
Date: 03/09/15
Drawing No:

E2-06B

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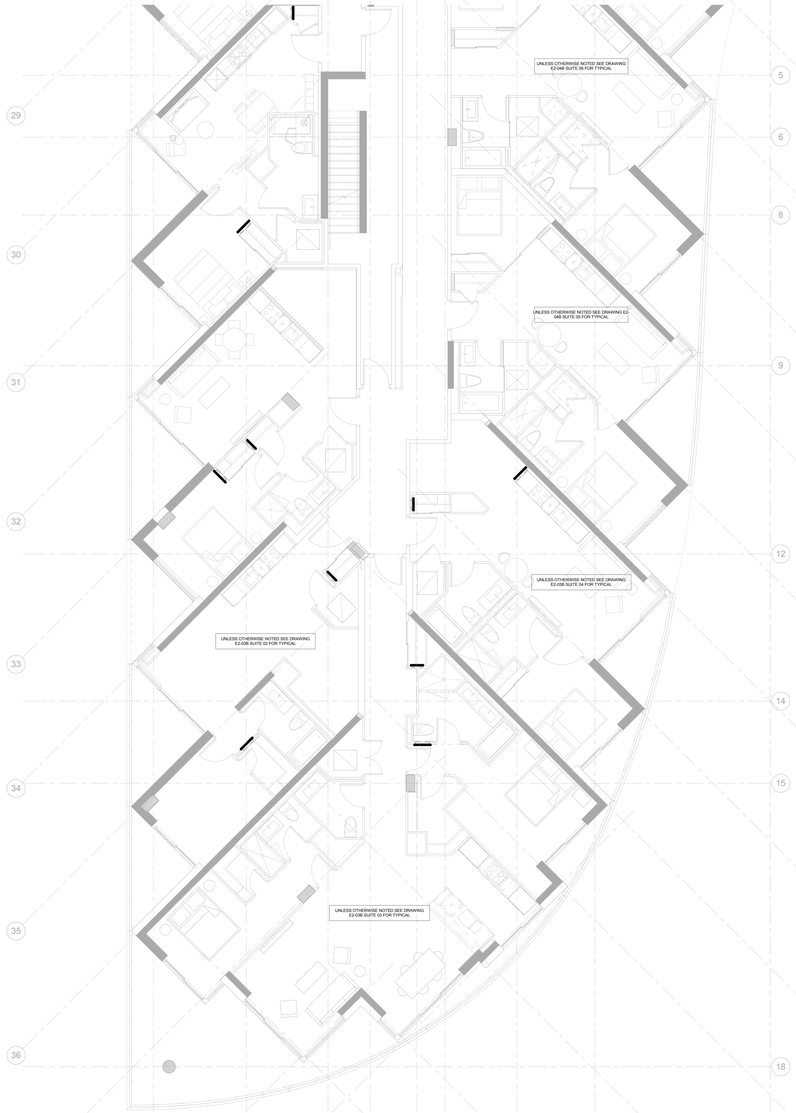
AQUAVISTA
AT BAYSIDE TORONTO

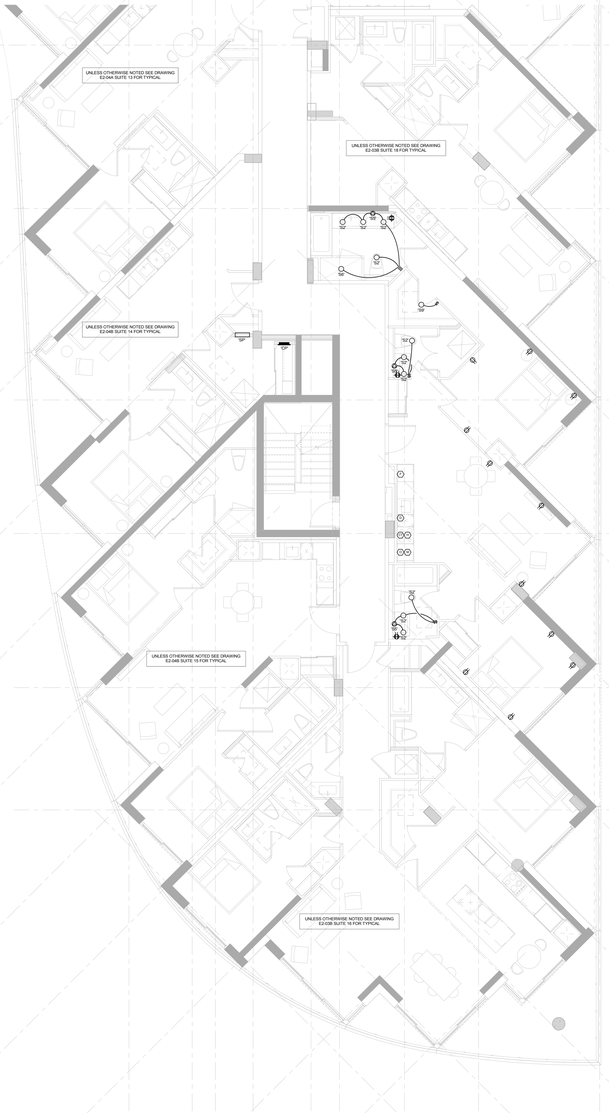
Drawing Title
LEVEL 6 FLOOR PLAN
NORTH - ELECTRICAL

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

Scale	1 : 50
Drawn by	Author
Checked by	Checker
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Date	03/09/15
Drawing No.	E2-07A

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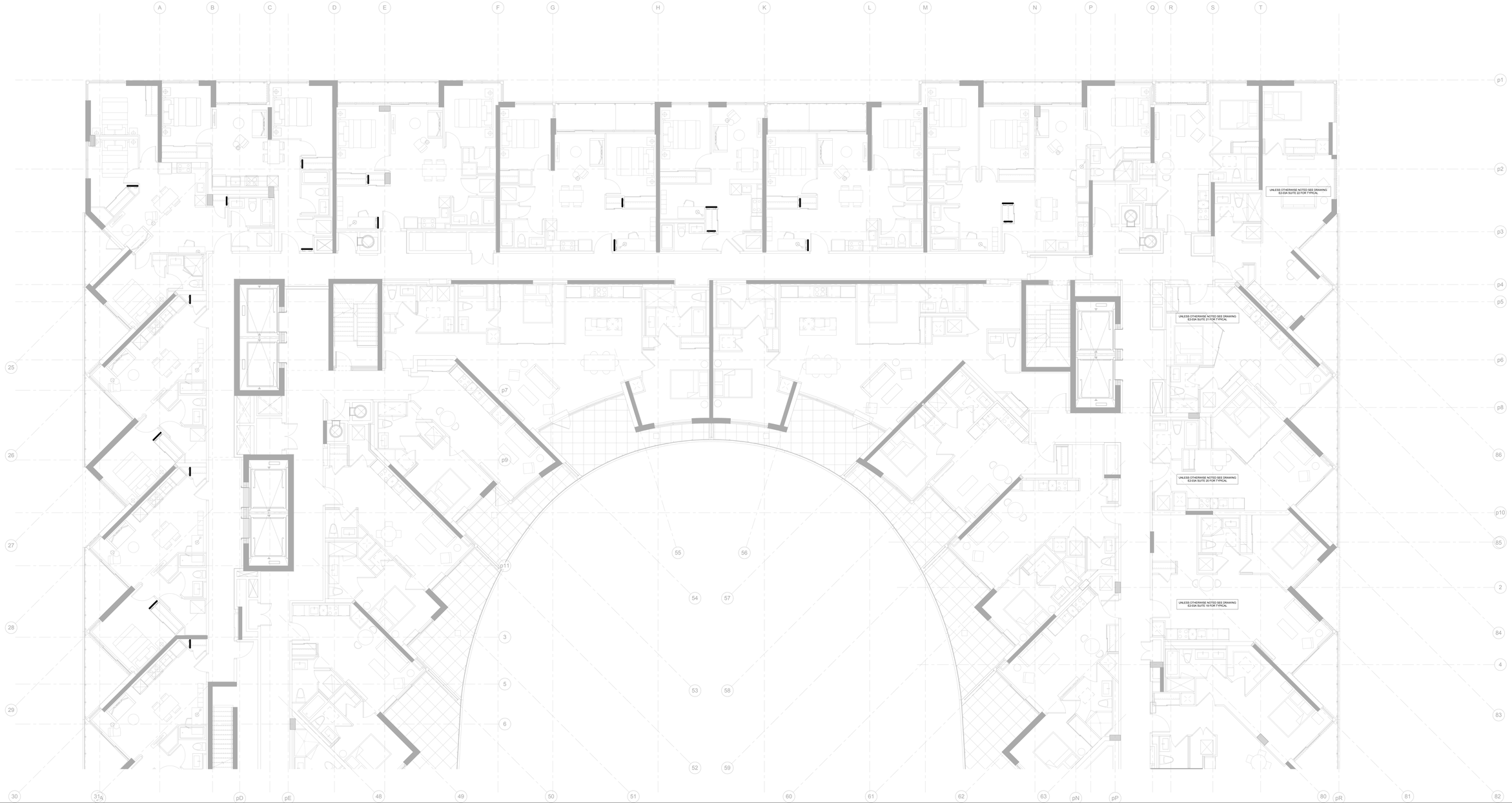
LEVEL 6 FLOOR PLAN
SOUTH - ELECTRICAL

Project

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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.	E2-07B

Plot Date: 10/24/2015 2:59:17 PM File Path: C:\Users\jcheung\Documents\MCW Dynamic Drawings\8489D_Aquavista_R3R4_jcheung.rvt



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E-Mail: mcw_tor@mcw.com
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AT BAYSIDE TORONTO

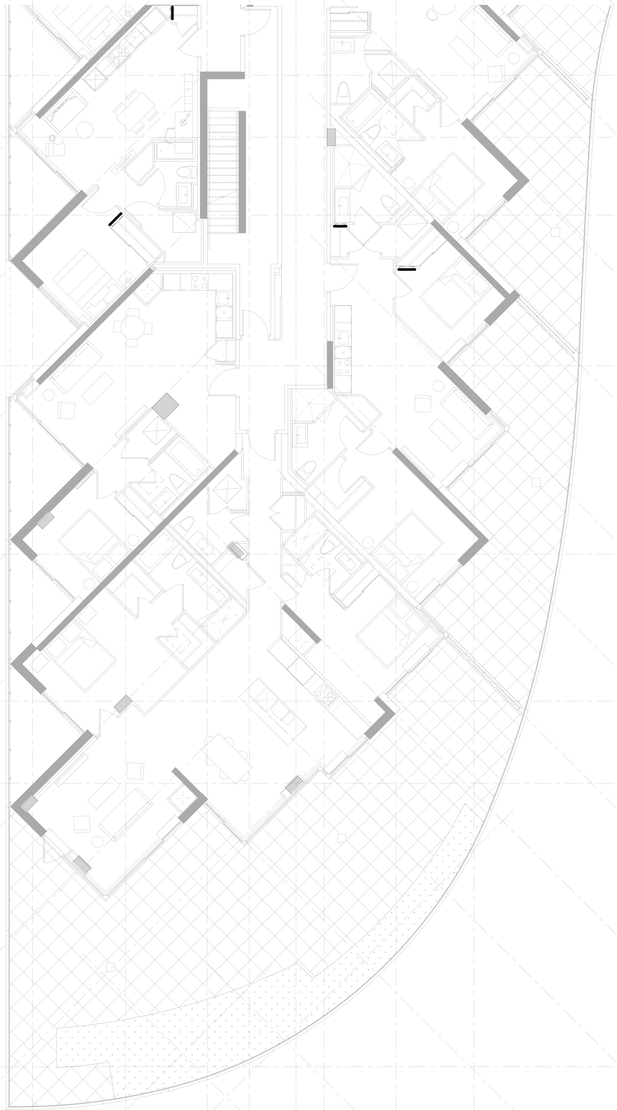
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NORTH - ELECTRICAL

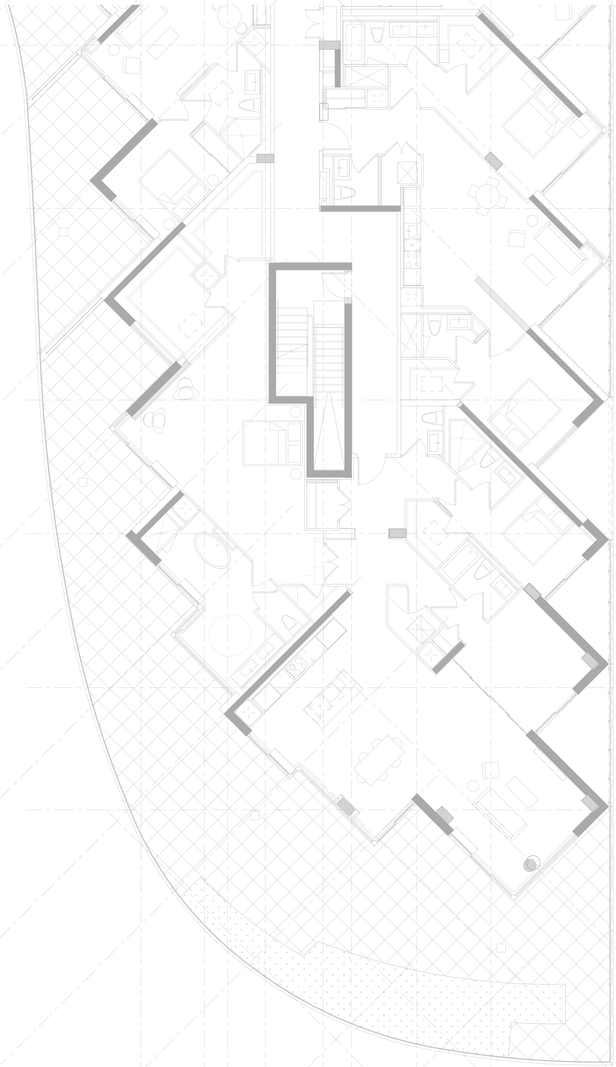
Project
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AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

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Project No: 8489D
Date: 03/09/15
Drawing No: E2-08A

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AQUAVISTA
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Drawing Title

LEVEL 7 FLOOR PLAN
SOUTH - ELECTRICAL

Project

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Toronto, ON

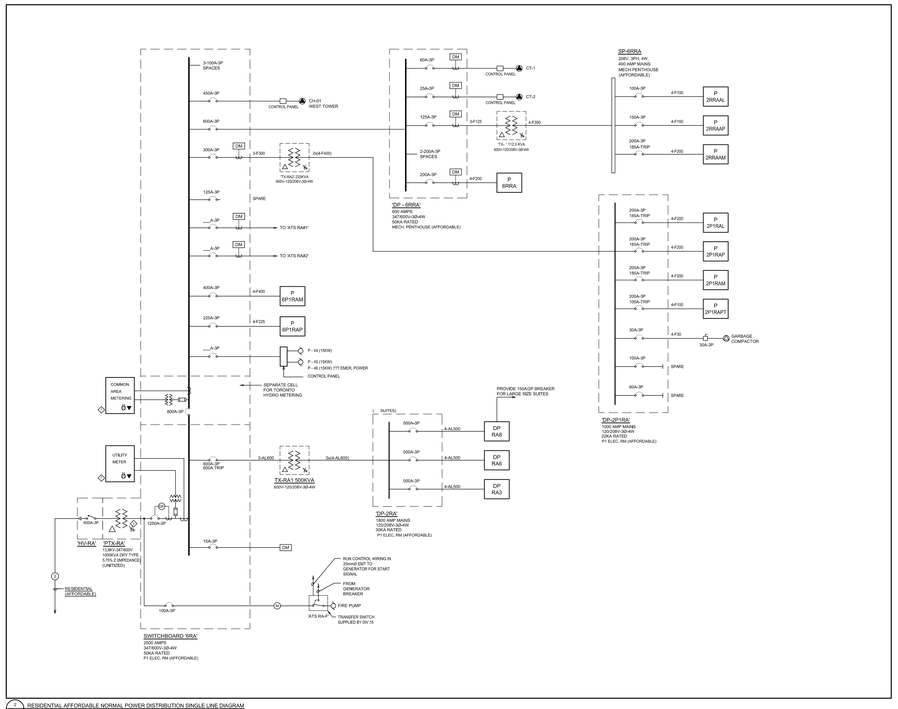
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Project No.	8489D
Date	03/09/15

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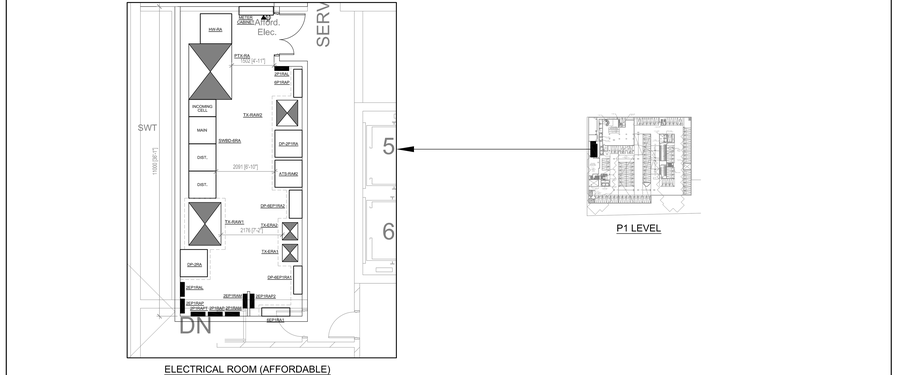
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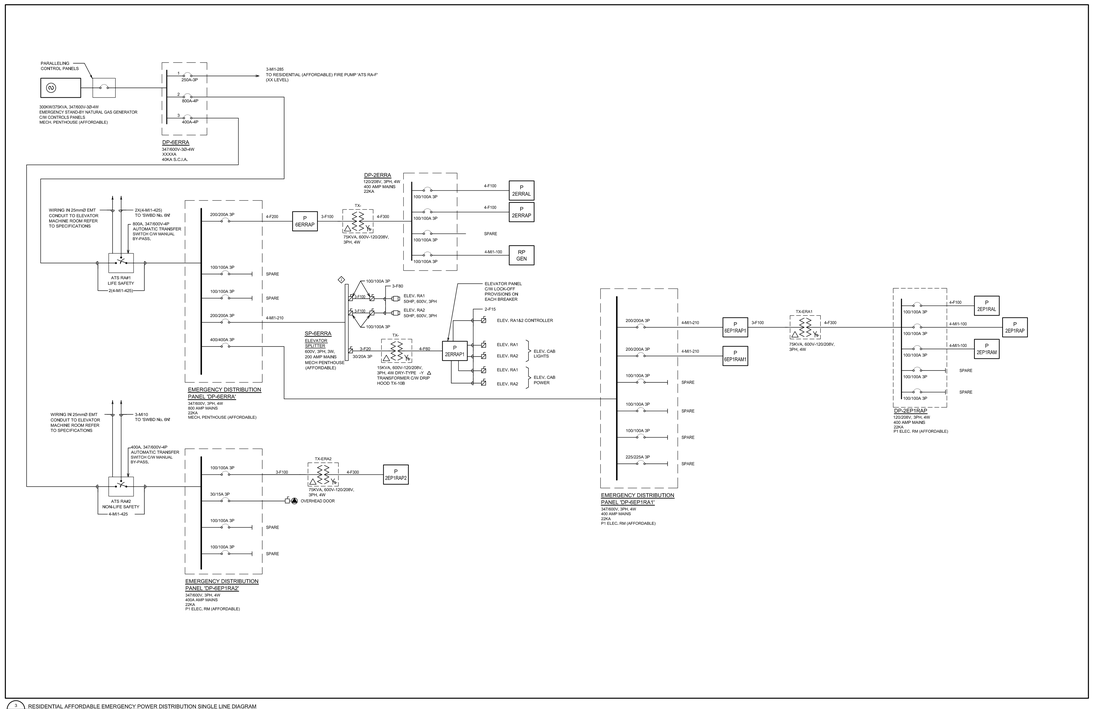
1 RESIDENTIAL AFFORDABLE NORMAL POWER DISTRIBUTION SINGLE LINE DIAGRAM
E4-00 N.T.S.



ELECTRICAL ROOM (AFFORDABLE)

1 RESIDENTIAL AFFORDABLE ELECTRICAL ROOM LAYOUT
E4-00 N.T.S.

P1 LEVEL



2 RESIDENTIAL AFFORDABLE EMERGENCY POWER DISTRIBUTION SINGLE LINE DIAGRAM
E4-00 N.T.S.

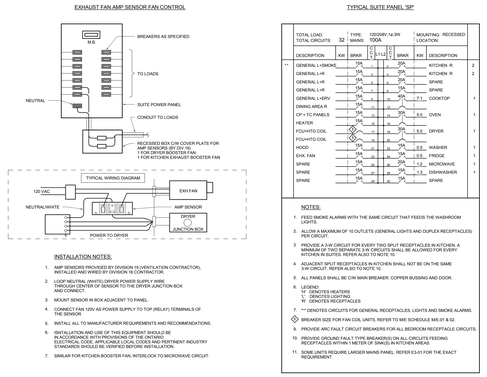


3 RESIDENTIAL AFFORDABLE POWER DISTRIBUTION RISER DIAGRAM
E4-00 N.T.S.

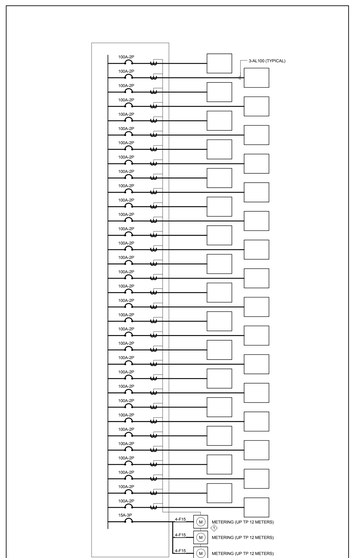
600V, 2-HOUR FIRE RATED MC/CABLE SCHEDULE
(ALUMINUM CONDUCTORS WITH COPPER NEUTRAL)

		REF	AMP	SIZE	REF	AMP	SIZE
SINGLE CONDUCTOR		MH-20	20	14	MH-15	15	14/3
		MH-30	25	12	MH-20	20	12/3
		MH-40	30	10	MH-30	25	10/3
		MH-70	60	6	MH-40	40	8/3
		MH-100	100	4	MH-60	65	6/3
		MH-135	135	4	MH-80	85	4/3
		MH-155	155	3			
		MH-180	180	2			
		MH-210	210	1			
		MH-245	245	1/0			
		MH-285	285	2/0			
		MH-330	330	3/0			
		MH-385	385	4/0			
		MH-425	425	250			
		MH-475	475	300			
		MH-490	490	350			
PREFIX = NO. OF CONDUCTORS TWO CONDUCTORS		MG-15	15	14/2	MH-15	15	12/3
		MG-20	20	12/2	MH-20	20	10/3
		MG-30	30	10/2	MH-30	30	8/3
		MG-45	45	8/2	MH-40	50	6/3
		MG-60	60	6/2			
		MG-85	85	4/2			





1 TYPICAL SUITE PANEL INSTALLATION
N.T.S



TYPICAL SUITE DISTRIBUTION PANEL (MAX. 32 SUITES):
120/208V, 3PH, 4W, 800 AMP MAINS, 35KA RATED
(REFER TO INDIVIDUAL DISTRIBUTION PANELS FOR EXACT QUANTITIES OF SUITE FEEDERS.)
SOME UNITS REQUIRE LARGER MAINS PANEL. REFER E3-01 FOR THE EXACT REQUIREMENT.

NOTES:
1. SUPPLIED BY TORONTO HYDRO, INSTALLED BY ELECTRICAL CONTRACTOR.

2 TYPICAL SUITE DISTRIBUTION PANEL
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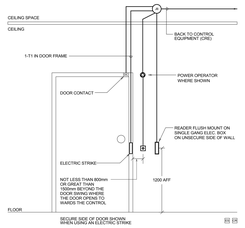
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
CONDO - DISTRIBUTION RISER DIAGRAM

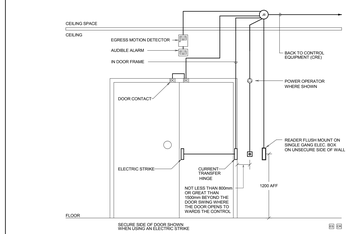
Project
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AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

Scale	N.T.S
Drawn by	Author
Checked by	Checker
Project No.	8489D
Date	03/09/15
Drawing No.	E3-C-02

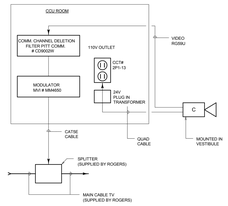
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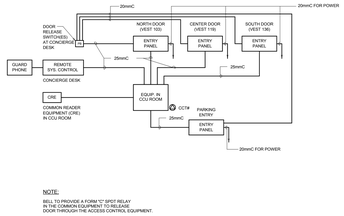
4 SECURED SINGLE DOOR WITH ELECTRIC STRIKE
N.T.S



3 SECURED DOUBLE DOOR WITH ELECTRIC STRIKE
N.T.S

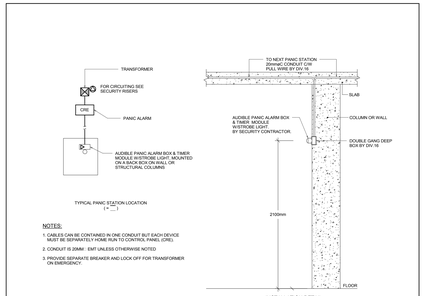


2 LOBBY CAMERA INSTALLATION
N.T.S



NOTE:
BELL TO PROVIDE A FORM "C" SPDT RELAY IN THE COMMON EQUIPMENT TO RELEASE DOOR THROUGH THE ACCESS CONTROL EQUIPMENT.

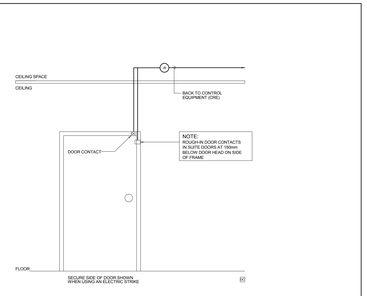
1 ENTERPHONE SYSTEM
N.T.S



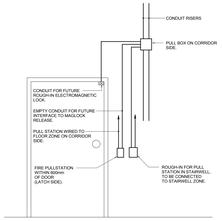
NOTES:
1. CABLES CAN BE CONTAINED IN ONE CONDUIT BUT EACH DEVICE MUST BE SEPARATELY HOME RUN TO CONTROL PANEL (CRE).
2. CONDUIT IS 20MM EMT UNLESS OTHERWISE NOTED
3. PROVIDE SEPARATE BREAKER AND LOCK OFF FOR TRANSFORMER ON EMERGENCY.

INSTALLATION DETAIL

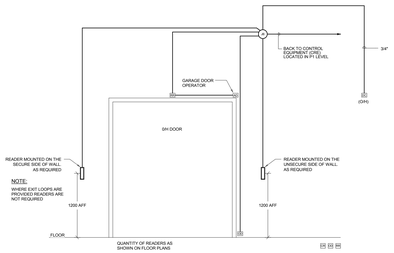
8 PANIC ALARM SYSTEM DETAILS
1 : 1



5 SECURED SINGLE DOOR WITH DOOR CONTACT
N.T.S



7 ROUGH-IN REQUIREMENTS AT CROSS-OVER DOOR LOCATION
N.T.S



6 SECURED OVERHEAD GARAGE DOOR
N.T.S

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MCW Consultants Ltd.
207 Queen's Quay West, Suite 810, Toronto, ON, M5J 1A7
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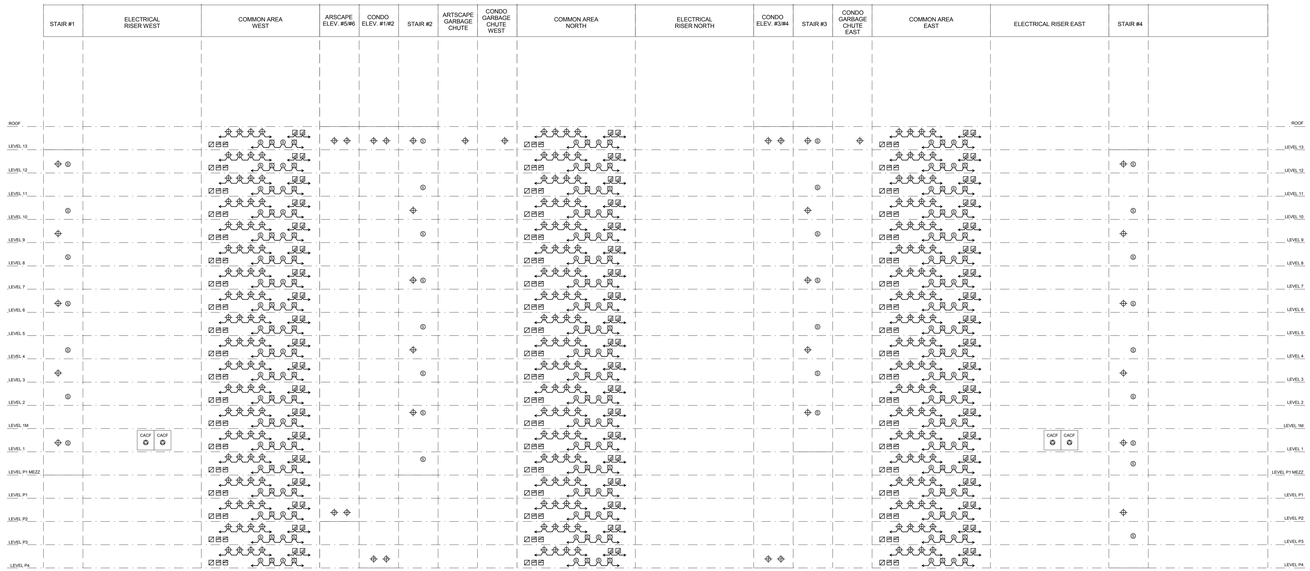
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
CONDO - SECURITY RISER DIAGRAM & DETAILS

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

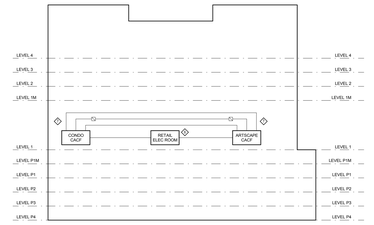
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Drawing No: E3-C-03

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1 FIRE ALARM RISER DIAGRAM

N.T.S



2 FIRE ALARM SYSTEM INTERCONNECTION SCHEMATIC

N.T.S

NOTES:

1. FIRE ALARM SYSTEM MUST BE COMMON WITH SEPARATE ALARM CONTROL FACILITIES AS SHOWN.
2. EACH CACF SHALL CONTROL VOICE COMMUNICATION FOR ALL PARKING LEVELS AND LOWER GRADE AMENITY SPACES IN THE PORTION OF THE BUILDING THAT THE CACF SERVES. EACH CACF SHALL SEND MESSAGES ON ALL LOUDSPEAKERS IN ALL PORTIONS OF THE PROJECT VIA AN ALL CALL CONTROL EQUIPMENT. EACH CACF SHALL ALSO CONTROL SMOKE CONTROL EQUIPMENT PERTAINING TO THE ABOVE-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 ALSO BE PROVIDED WITH LIGHTS THAT INDICATE IF ANY OF THE 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.

◇1 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.

◇2 PROVIDE 4-50mmDC BETWEEN CACF ROOMS FOR SYSTEM INTERCONNECTION AS REQUIRED INCLUDING ELEVATOR MONITORING.

THE FIRE ALARM SYSTEM SHALL BE A MODIFIED TWO STAGE SYSTEM PROGRAMMED TO ALARM FIRE FLOOR ABOVE AND FLOOR BELOW WHILE ALERT TONES ARE PROVIDED THROUGHOUT. THE REST OF THE BUILDING SHALL BE PROGRAMMED SUCH THAT ALL OCCUPANTS 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.

◇1 PROVIDE REMOTE 'LCD' ANNUNCIATOR AT CONCIERGE DESK.

◇2 REMOTE FIRE ALARM SYSTEM ANNUNCIATOR AND 'ALL CALL' CONTROL PANEL.

◇3 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.

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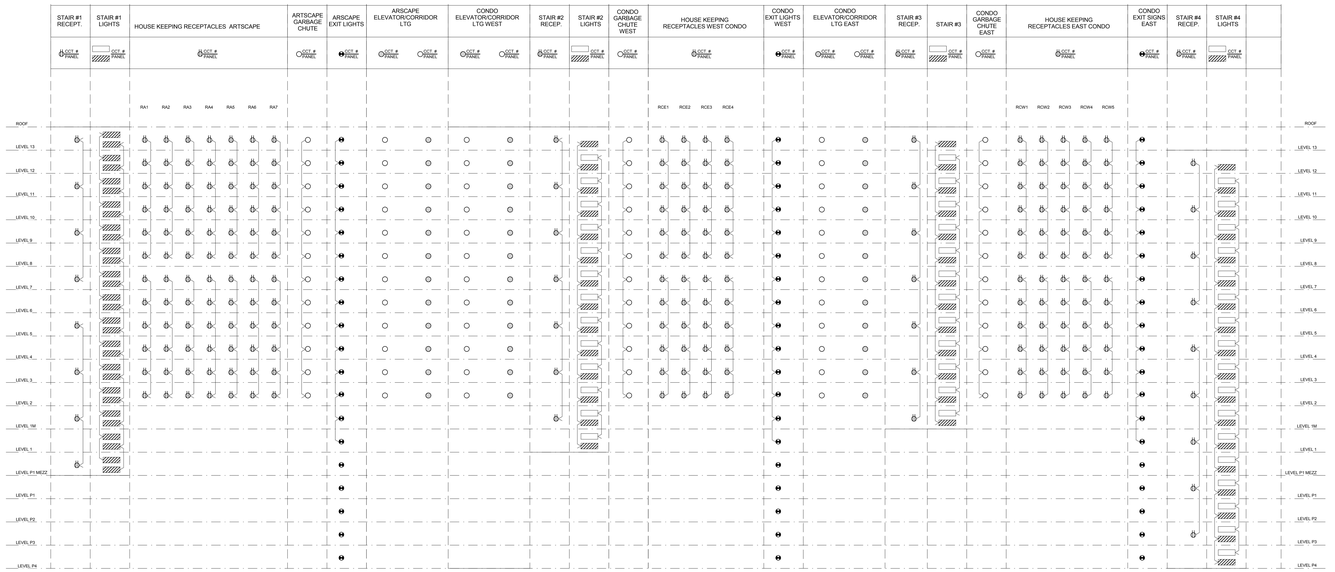
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
CONDO - FIRE ALARM RISER DIAGRAM

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

Scale	N.T.S
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Date	03/06/15
Drawing No.	E3-C-04

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1 CONDO - COMMON AREA LIGHTING & POWER RISER DIAGRAM, DISPOSAL SYSTEM ROUGH-IN RISER
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Mark	Issued For	Date
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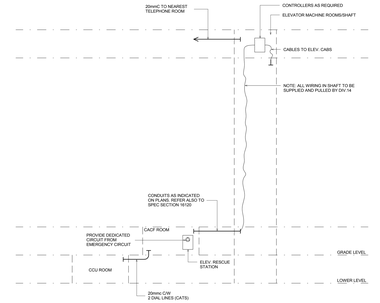
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
CONDO - COMMON AREA LIGHTING & POWER RISER DIAGRAM, DISPOSAL SYSTEM ROUGH-IN RISER

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

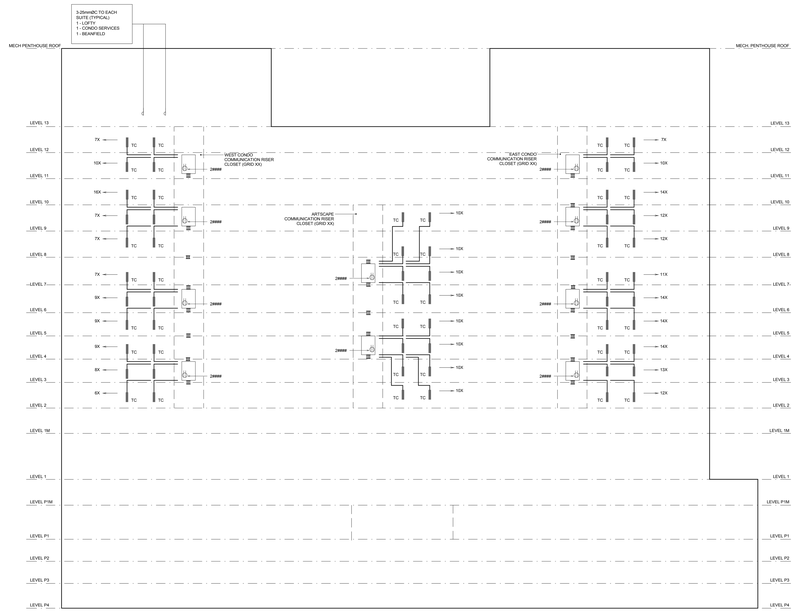
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Drawing No.	E3-C-06

Plot Date: 10/24/2015 2:55:13 PM File Path: C:\Users\administrator.MCW\Documents\8489D - Aquavista - MEP_revitsub_v15



2 ELEVATOR RESCUE STATION

N.T.S



1 COMMUNICATION RISER DIAGRAM

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207 Queen's Quay West, Suite 810, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2928 Fax: 416-598-3284
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AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

CONDO - COMMUNICATION SYSTEM RISER DIAGRAM

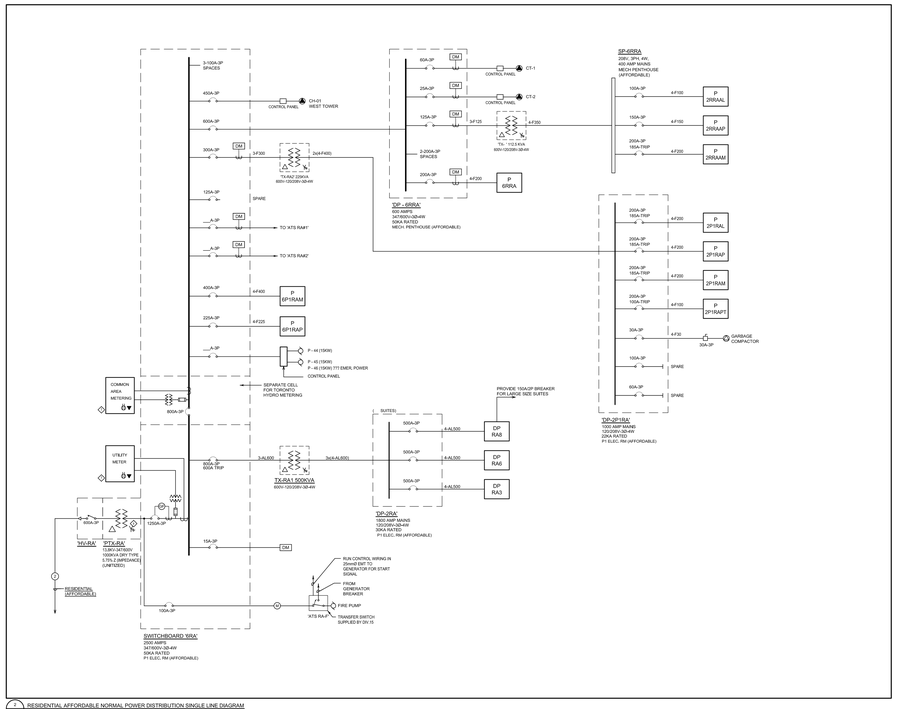
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Queen's Quay East
Toronto, ON

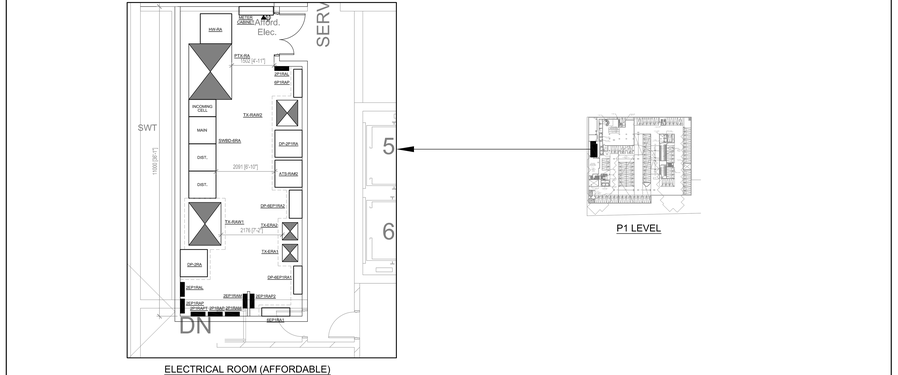
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E3-C-07

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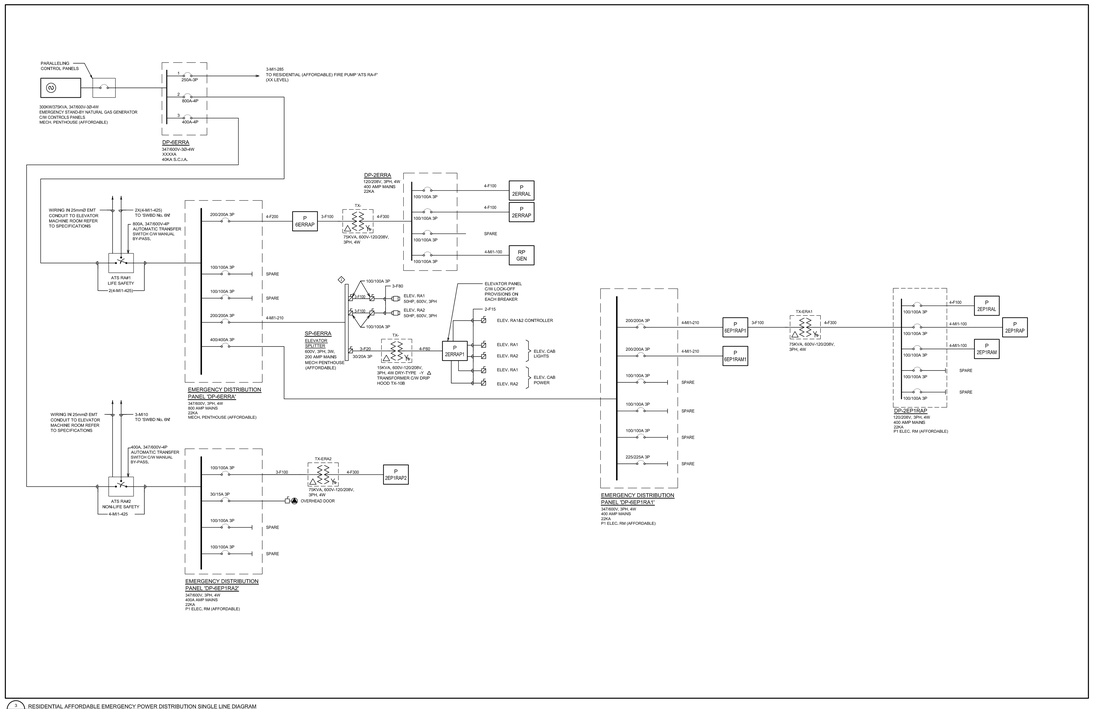
1 RESIDENTIAL AFFORDABLE NORMAL POWER DISTRIBUTION SINGLE LINE DIAGRAM
E4-00 N.T.S.



ELECTRICAL ROOM (AFFORDABLE)

1 RESIDENTIAL AFFORDABLE ELECTRICAL ROOM LAYOUT
E4-00 N.T.S.

P1 LEVEL



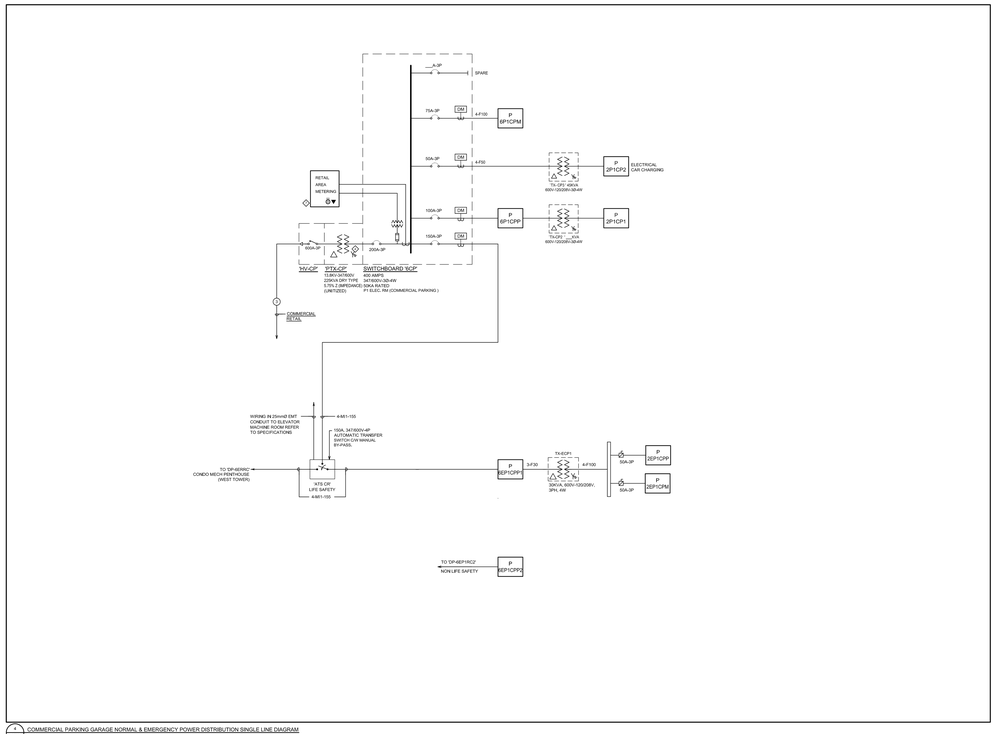
2 RESIDENTIAL AFFORDABLE EMERGENCY POWER DISTRIBUTION SINGLE LINE DIAGRAM
E4-00 N.T.S.



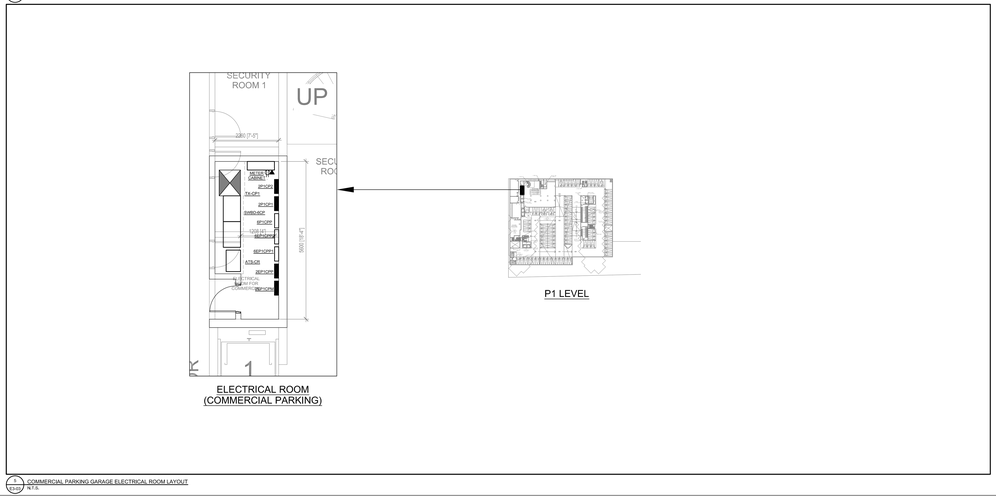
3 RESIDENTIAL AFFORDABLE POWER DISTRIBUTION RISER DIAGRAM
E4-00 N.T.S.

600V, 2-HOUR FIRE RATED MC/CABLE SCHEDULE
(ALUMINUM CONDUCTORS WITH COPPER NEUTRAL)

		REF	AMP	SIZE	REF	AMP	SIZE
SINGLE CONDUCTOR		MH-20	20	14	MH-15	15	14/3
		MH-30	25	12	MH-20	20	12/3
		MH-40	30	10	MH-30	25	10/3
		MH-70	60	6	MH-40	40	8/3
		MH-100	100	4	MH-60	65	6/3
		MH-135	135	4	MH-80	85	4/3
		MH-155	155	3			
		MH-180	180	2			
		MH-210	210	1			
		MH-245	245	1/0			
		MH-285	285	2/0			
		MH-330	330	3/0			
		MH-385	385	4/0			
		MH-425	425	250			
		MH-475	475	300			
		MH-490	490	350			
PREFIX = NO. OF CONDUCTORS TWO CONDUCTORS		MG-15	15	14/2	MH-15	15	12/3
		MG-20	20	12/2	MH-20	20	10/3
		MG-30	30	10/2	MH-30	30	8/3
		MG-45	45	8/2	MH-40	50	6/3
		MG-60	60	6/2			
		MG-85	85	4/2			

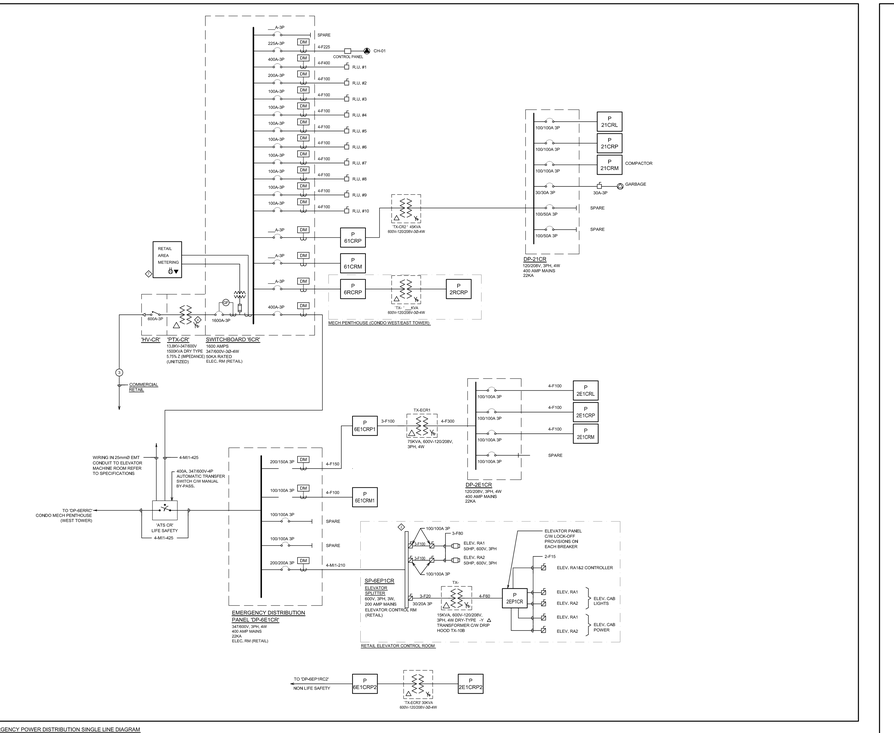


1 COMMERCIAL PARKING GARAGE NORMAL & EMERGENCY POWER DISTRIBUTION SINGLE LINE DIAGRAM
SCALE: N.T.S.

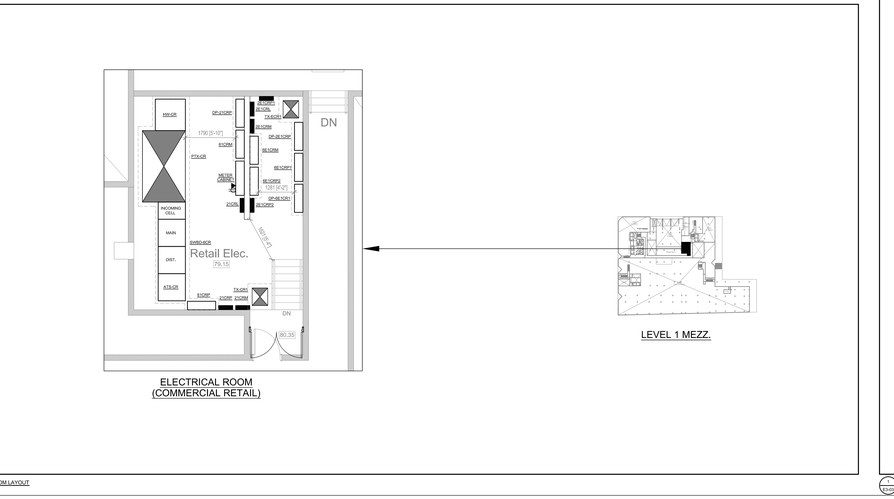


ELECTRICAL ROOM (COMMERCIAL PARKING)

1 COMMERCIAL PARKING GARAGE ELECTRICAL ROOM LAYOUT
SCALE: N.T.S.



1 COMMERCIAL RETAIL NORMAL & EMERGENCY POWER DISTRIBUTION SINGLE LINE DIAGRAM
SCALE: N.T.S.



ELECTRICAL ROOM (COMMERCIAL RETAIL)

LEVEL 1 MEZZ.

1 COMMERCIAL RETAIL ELECTRICAL ROOM LAYOUT
SCALE: 1:50

600V, 3 HOUR FIRE RATED MC-CABLE SCHEDULE
(ALUMINUM CONDUCTORS)

	REF	AMP	SIZE		REF	AMP	SIZE
SINGLE CONDUCTOR	M1<20	20	14		M3<15	15	14/3
	M1≥20	25	12		M3≥20	20	12/3
	M1≥30	40	10		M3≥30	30	10/3
	M1≥70	70	4		M3≥45	45	8/3
	M1≥100	100	6		M3≥65	65	6/3
	M1≥125	125	4		M3≥85	85	4/3
	M1≥155	155	3				
	M1≥180	180	2				
	M1≥210	210	1				
	M1≥245	245	1/0				
	M1≥285	285	2/0				
	M1≥330	330	3/0				
	M1≥385	385	4/0				
	M1≥425	425	250				
	M1≥490	490	350				
	M1≥560	560	500				
TWO CONDUCTORS	M2<15	15	14/2		M4<15	15	12/4
	M2≥20	20	12/2		M4≥20	20	10/4
	M2≥30	30	10/2		M4≥30	30	8/4
	M2≥45	45	8/2		M4≥60	60	6/4
	M2≥65	65	6/2				
	M2≥85	85	4/2				

CABLE & CONDUIT SCHEDULE - TRIAL

WIRE BREAKER SIZE	REF	WIRE SIZE	AMP @75°C	CONNECTED LOAD (@40°C)	CONDUIT SIZE			BONDING CONDUCTOR
					4C	3C	2C	
90	AL90	#2	90	76	41(1.1/2")	35(1.1/4")	35(1.1/4")	#6
110	AL110	#1	110	93	41(1.1/2")	41(1.1/2")	41(1.1/2")	#6
125	AL125	4/0	125	106	53 (2")	53 (2")	-	#4
150	AL150	4/0	155	140	63.5 (2.1/2")	53 (2")	-	#4
200	AL200	250MCM	205	154	78 (3")	63.5 (2.1/2")	-	#2
225	AL225	300MCM	230	208	78 (3")	78 (3")	-	#2
250	AL250	350MCM	280	224	78 (3")	78 (3")	-	#2
300	AL300	2 RUNS OF 250MCM MC TRAIL	310	280	-	-	-	#1
400	AL400	2 RUNS OF 350MCM MC TRAIL	410	368	-	-	-	#2
500	AL500	2 RUNS OF 500MCM MC TRAIL	500	448	-	-	-	#2
600	AL600	2 RUNS OF 600MCM MC TRAIL	625	560	-	-	-	#1
800	AL800	3 RUNS OF 600MCM MC TRAIL	810	732	-	-	-	#2

NOTE:
1. ALL CABLE SHALL BE RW90 XLPE 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 30A.
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. MC DENOTES MULTI CONDUCTOR.
8. USE THIS COLUMN FOR CIRCUIT WITH CURRENT CARRYING NEUTRALS. 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.

CABLE & CONDUIT SCHEDULE - COPPER

WIRE BREAKER SIZE	REF	WIRE SIZE	AMP @75°C	CONNECTED LOAD (@40°C)	CONDUIT SIZE			BONDING CONDUCTOR
					4C	3C	2C	
70	F15	#12	20	24	41 (1/4")	41 (1/4")	41 (1/4")	#12
80	F20	#12	20	24	41 (1/4")	41 (1/4")	41 (1/4")	#12
90	F30	#10	35	32	27 (1")	21 (3/4")	21 (3/4")	#10
100	F40	#8	50	40	27 (1")	21 (3/4")	21 (3/4")	#8
70	F60	#6	65	60	35(1.1/4")	35(1.1/4")	27 (1")	#8
90	F80	#4	85	76	41(1.1/2")	35(1.1/4")	35(1.1/4")	#6
100	F100	#3	100	92	41(1.1/2")	35(1.1/4")	35(1.1/4")	#6
125	F125	#1	130	116	53 (2")	53 (2")	-	#6
150	F150	1/0	150	136	53 (2")	53 (2")	-	#6
200	F200	4/0	200	180	78 (3")	63.5 (2.1/2")	-	#4
300	F300	4/0	170	-	-	63.5 (2.1/2")	-	#6
225	F225	4/0	230	208	78 (3")	63.5 (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")	-	#2
350	F350	350MCM	350	304	103 (4")	103 (4")	-	#2
400	F400	500MCM	405	368	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 30A.
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 FOOR SHALL ONLY BE USED IN RESIDENTIAL SUITE.
8. USE THIS COLUMN FOR CIRCUIT WITH CURRENT CARRYING NEUTRALS. 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. TO BE CONFIRMED WITH TORONTO HYDRO.
2. 20A MULTI-POLE LIGHTING CONTACTOR FOR EXTERIOR LIGHTING, 120VAC 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 REMOTE METERING (RMS).
   1) 1" EMT CONDUIT C/W BUSHINGS AT BOTH ENDS IS TO BE INSTALLED BETWEEN THE REVENUE METERING CABINET AND THE BELL TELEPHONE ROOM (PUNCH BOARD). THE 1" EMT IS TO TERMINATE AT THE TOP RIGHT CORNER OF THE METER CABINET. A 2 PAIR (4 CONDUCTOR) TELEPHONE CABLE IS TO BE INSTALLED IN THE 1" CONDUIT. A RJ11 (4 PIN) TELEPHONE JACK IS ALSO TO BE PROVIDED AND INSTALLED ON THE TELEPHONE CABLE IN THE METER CABINET. THE TELEPHONE JACK IS TO BE LEFT AT THE END OF THE TELEPHONE CABLE IN THE METER CABINET. THE TELEPHONE CABLE IS TO BE CLEARLY LABELLED IN THE METER CABINET. THE TELEPHONE CABLE TERMINATING IN THE TELEPHONE ROOM IS TO BE CLEARLY LABELLED "TORONTO HYDRO METERING".
   2) TORONTO HYDRO WILL ARRANGE TO HAVE THE TELEPHONE LINE ACTIVATED. CUSTOMER OWNED TELEPHONE LINES OR CUSTOMER SHARED TELEPHONE LINES ARE NOT ACCEPTABLE.
   3) 1 - 120 VOLT DUPLEX RECEPTACLE, TO BE LOCATED INSIDE, AT THE BOTTOM RIGHT CORNER OF THE METER CABINET. THE RECEPTACLE IS TO BE CONNECTED TO AN UNINTERRUPTIBLE POWER SUPPLY (UPS) IF POSSIBLE.
   4) THE NAME AND PHONE NUMBER OF AN ON SITE CONTACT PERSON.
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.
10. RUN SIGNAL WIRING TO DOMESTIC WATER PUMP CONTROLLER ON EMERGENCY FOR SIGNAL TO CONTROL PUMPS AS PER ME DRAWINGS.
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.

ELECTRICAL PANEL AND CIRCUIT DESIGNATION

1. SECTION 0 - 'D' - DENOTES CIRCUIT NUMBER
   - 'W' - DENOTES WEST TOWER OR EAST TOWER
   - 'P' - DENOTES POWER AND/OR LIGHTING PANEL
   - 'C' - DENOTES CONTACTOR PANEL (P1 LEVEL)
   - 'T' - DENOTES ENERGY METER PANEL
   - '2' - DENOTES 120/208V OR
   - '6' - DENOTES 347/600V

2. ADDITIONAL POWER DESIGNATION
   LAST LETTER 'P' OF THE PANEL DESIGNATION IS REPLACED WITH FOLLOWING LETTERS FOR DIFFERENT OTHER TYPE OF PANELS.
   - OD - OUTDOOR LIGHTING
   - AL - AMENITY LIGHTING
   - AP - AMENITY POWER
   - AM - AMENITY MECHANICAL POWER
   - CP - COMMERCIAL PARKING GARAGE
   - CR - COMMERCIAL RETAIL
   - RA - RESIDENTIAL AFFORDABLE
   - RC - RESIDENTIAL CONDO
   - RCW - RESIDENTIAL CONDO (WEST TOWER)
   - HW - HOARDING
   - SM - SNOW MELTING
   - M - MECHANICAL POWER

3. IF THERE ARE MORE THAN ONE PANEL ON SAME FLOOR WITH SAME DESIGNATION, THEY ARE DIFFERENTIATED BY ADDING A, B, C, ETC., AFTER THE LAST LETTER OF THE PANEL DESIGNATION.

1 FEEDER SCHEDULES AND NOTES
SCALE: N.T.S.

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Date: 03/09/15

LICENSED PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO
C. K. IELLIMO
84590
MCW Consultants Ltd.
207 Queen's Quay West, Suite 615, Toronto, ON, M5J 1A7
Tel: 416-596-1930 ext 222
Fax: 416-596-0644
Toronto Vancouver Winnipeg Moncton Ottawa Halifax
Dayton Kelowna Hall Saint John

No.	Revision	Date
1		

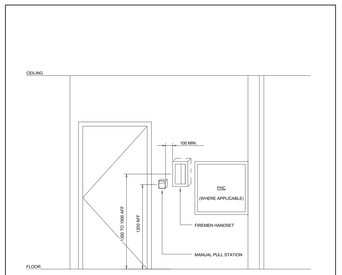
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AQUAVISTA
AT BAYSIDE TORONTO

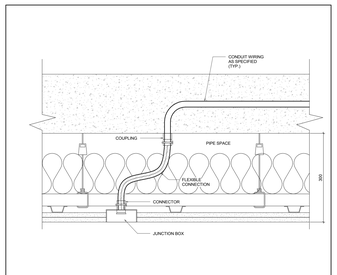
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RETAIL - SINGLE LINE DIAGRAM

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

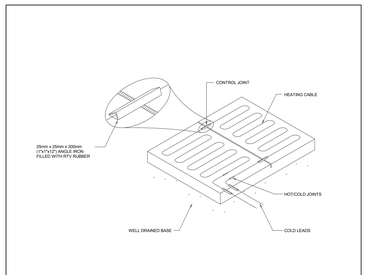
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Project No.: 8489D
Date: 03/09/15
Drawing No.: E3-R-01



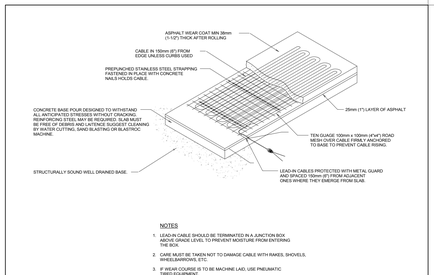
11 TYPICAL DEVICE MOUNTING DETAIL AT STAIR EXIT DOORS
N.T.S.



12 ELECTRICAL CONDUIT INSTALLATION DETAIL & SUSPENDED ACOUSTIC CEILIGN
N.T.S.



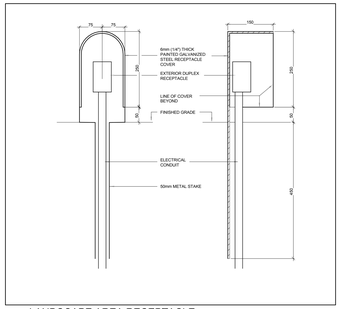
3 HEATING CABLE DETAIL - CONCRETE SLAB AT CONTROL JOINT
N.T.S.



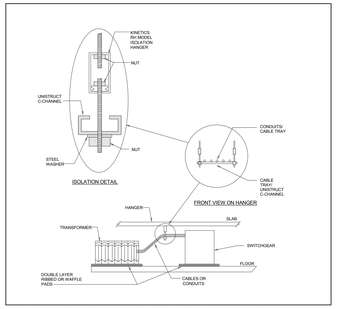
NOTES

1. LEAD-IN CABLE SHOULD BE TERMINATED IN A JUNCTION BOX LOCATED ABOVE SNOW LEVEL TO PREVENT MOISTURE FROM ENTERING THE HEATER.
2. CARE MUST BE TAKEN NOT TO DAMAGE CABLE WITH RAKES, SHOVELS, WHEELBARROWS, ETC.
3. IF WEAR COURSE IS TO BE MACHINE LAID, USE PNEUMATIC TIRED EQUIPMENT.

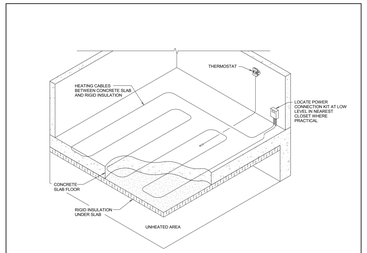
1 HEATING CABLE DETAIL - SNOW MELTING IN ASPHALT WITH CONCRETE BASE
N.T.S.



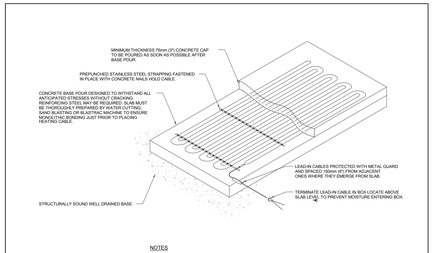
10 LANDSCAPE AREA RECEPTACLE
N.T.S.



9 NOISE REDUCTION HOUSEKEEPING PAD AND SUPPORT HANGERS
1 : 1



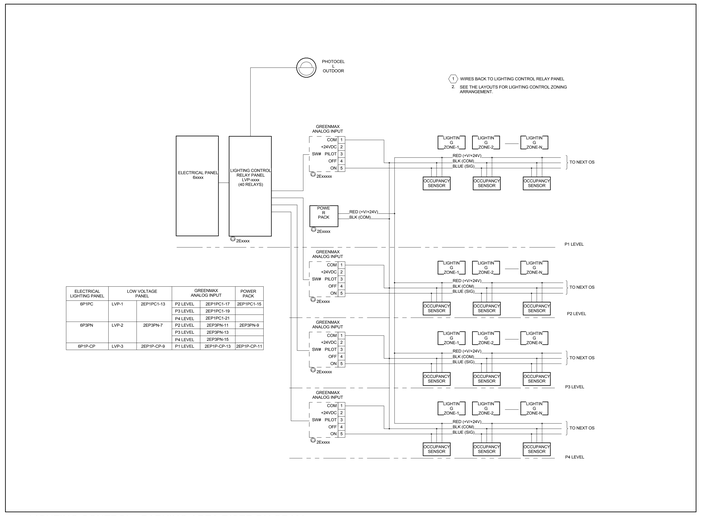
4 TYPE 'B' - HEATING CABLES UNDER SLAB DETAIL
N.T.S.



NOTES

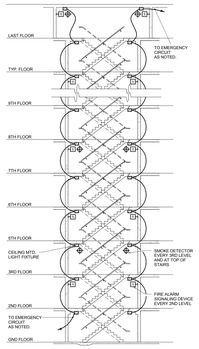
1. MAXIMUM SLAB AREA WITHOUT CONTROL OR EXPANSION JOINTS RECOMMENDED FOR A HEATING INSTALLATION 37 SQ.m (400 SQ. FT)., NO GREATER THAN 6m (20 FT.) IN ANY ONE DIRECTION.
2. CARE SHALL BE TAKEN NOT TO DAMAGE CABLE WITH RAKES, SHOVELS, WHEELBARROWS, ETC.

2 HEATING CABLE DETAIL - SNOW MELTING IN CONCRETE (TWO POUR METHOD)
N.T.S.

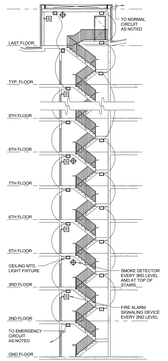


ELECTRICAL LIGHTING PANEL	LOW VOLTAGE PANEL		GREENMAX ANALOG INPUT		POWER PACK
6P1PC	LVP-1	2EP1PC1-13	P2 LEVEL	2EP1PC1-17	2EP1PC1-15
			P3 LEVEL	2EP1PC1-19	
			P4 LEVEL	2EP1PC1-21	
6P3PN	LVP-2	2EP3PN-7	P2 LEVEL	2EP3PN-11	2EP3PN-9
			P3 LEVEL	2EP3PN-13	
			P4 LEVEL	2EP3PN-15	
6P1P-CP	LVP-3	2EP1P-CP-9	P1 LEVEL	2EP1P-CP-13	2EP1P-CP-11

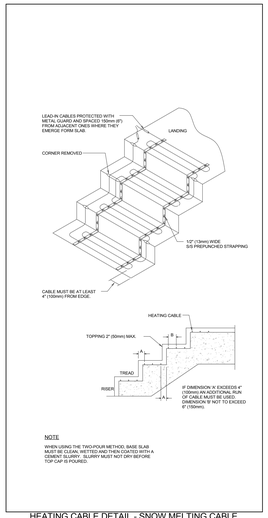
8 LIGHTING CONTROL - PARKING AREA RISER DIAGRAM
N.T.S.



7 TYPICAL SCISSOR STAIR
N.T.S.



6 TYPICAL CROSS OVER STAIR
N.T.S.



NOTE

WHEN USING THE TWO-POUR METHOD, BASE SLAB MUST BE CLEAN, WETTED AND THEN COATED WITH A CEMENT SLURRY. SLURRY MUST NOT DRY BEFORE TOP CAP IS POURED.

5 HEATING CABLE DETAIL - SNOW MELTING CABLE LAYOUT ON STAIRS
N.T.S.

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S. C. M. BELLAMY
100150684
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MCW Consultants Ltd.
207 Queen's Quay West, Suite 810, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com www.mcw.com
Tel: 416-598-2600 Fax: 416-598-5364
Toronto Vancouver Windsor Moncton Ottawa Halifax
Daughin Kennedy Tait Saint John

No.	Revision	Date

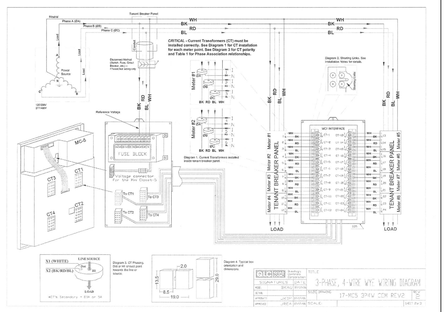
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AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
MISCELLANEOUS DETAILS - ELECTRICAL

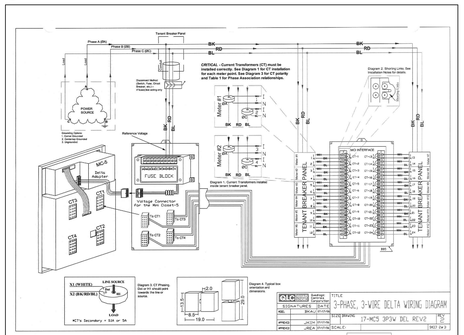
Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

Scale	N.T.S.
Drawn by	Author
Checked by	Checker
Project No.	8489D
Date	03/06/15
Drawing No.	E4-01



6 QUADLOGIC 3 PHASE 4 WIRE 120/208V WIRING DIAGRAM

N.T.S



5 QUADLOGIC 3 PHASE 3 WIRE 120/208V WIRING DIAGRAM

N.T.S

INSTALLATION NOTES

Applicable for the following catalog numbers*:

45-MCS 480V 01A 12C (2EL/12M 480V DEL 3P3W)
45-MCS 480V CL10 12C (2EL/12M 480V DEL 3P3W)
45-MCS 208V 01A 12C (2EL/12M 208V DEL 3P3W)
45-MCS 208V CL10 12C (2EL/12M 208V DEL 3P3W)

*These instructions are also applicable when the same meter model number has the suffix: -E, -P or EP.

CRITICAL: The installation of the current transformer must be correct or the meter will not read properly. The load-current carrying wires must pass through the CT in the correct orientation, and the CT wires must be connected to the proper MCI screw terminals. Please see wiring diagram for reference.

Current transformers (CTs) are used to measure the current drawn by the loads to be metered. Within the meter, the current reading from the CT is combined with the voltage reading for the correct voltage phase to calculate the energy reading. CTs must be in phase with the reference voltage. The MCI inputs are each associated with a particular voltage phase in an A-C order. Input 1 is a phase A CT, input 2 is a phase C CT, input 3 is a phase A CT, input 4 is a phase C CT, and so on in A-C-A-C order.

For example, a CT which measures a load supplied by phase A must be installed on CT1, CT3, CT5, etc.. Current transformers which measure a load supplied by phase C must be installed on CT2, CT4, CT6, etc..

1. For the catalog numbers specified above, each A-C combination is a single meter point (see Table 1 for full listing):
   - Meter #1 (MF1) is CT1 and CT2
   - Meter #2 (MM2) is CT3 and CT4
   - repeat for MM3 to MM12

2. After completing all CT terminations, connect the four (4) current connectors and then remove the the twenty-four (24) shorting links.

3. Follow local codes for installation requirement, e.g. conduit, fused disconnect, distance, and wiring.

4. Installation of 0.1A inputs and CL10 or 5A inputs are the same.

CAUTION: If breakers are energized, shorting links must be installed before:

a) disconnecting the CT headers or
b) replacing or installing meter heads on the panel.

WARNING: Bodily injury or damage may result if shorting links are not installed.

Meter # (MM)	MCI Board CT #	Reference Voltage Phase
1	1	A
	2	C
2	3	A
	4	C
3	5	A
	6	C
4	7	A
	8	C
5	9	A
	10	C
6	11	A
	12	C
7	13	A
	14	C
8	15	A
	16	C
9	17	A
	18	C
10	19	A
	20	C
11	21	A
	22	C
12	23	A
	24	C

Table 1. Phase Association Table

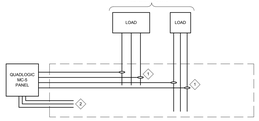
FOR INFORMATION

4 QUADLOGIC 3 PHASE 3 WIRE 120/208V WIRING DIAGRAM - INSTALLATION NOTES

N.T.S

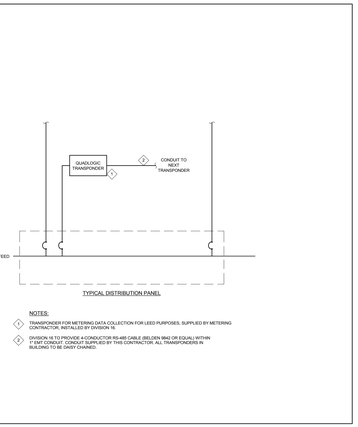
3 TYPICAL MECHANICAL EQUIPMENT METERING DETAIL

N.T.S



NOTES:

1. SOLID CORE CTs TO BE SUPPLIED BY METERING CONTRACTOR, INSTALLED WITHIN PANEL BY DIVISION 16. EACH PIECE OF EQUIPMENT REQUIRES 2-CTS PER LOAD. CTs TO BE WIRED TO QUADLOGIC PANEL. QUADLOGIC PANEL SUPPLIED BY METERING CONTRACTOR. ALL INSTALLATION BY DIVISION 16.
2. PROVIDE DEDICATED 15A/600V FUSED DISCONNECT FOR QUADLOGIC PANEL POWER AND SIGNAL. 3P/4A/480.

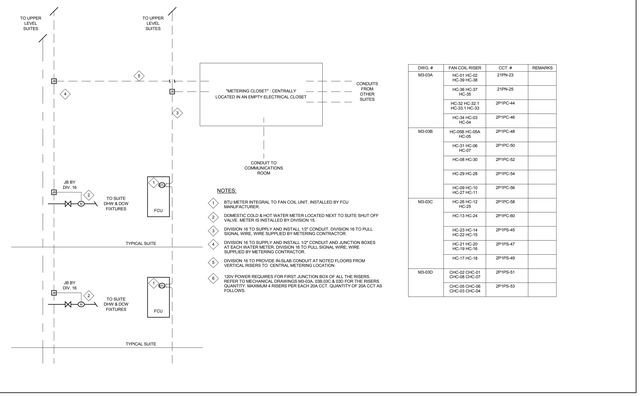


NOTES:

1. TRANSPONDER FOR METERING DATA COLLECTION FOR LEED PURPOSES. SUPPLIED BY METERING CONTRACTOR, INSTALLED BY DIVISION 16.
2. DIVISION 16 TO PROVIDE 4-CONDUCTOR RS-485 CABLE (BELDEN 9842 OR EQUAL) WITHIN 1" EMT CONDUIT. CONDUIT SUPPLIED BY THIS CONTRACTOR. ALL TRANSPONDERS IN BUILDING TO BE DAISY CHAINED.

2 TYPICAL QUADLOGIC TRANSPONDER DETAIL

N.T.S



NOTES:

1. BTU METER INTEGRAL TO FAN COIL UNIT, INSTALLED BY FCU MANUFACTURER.
2. DOMESTIC COLD & HOT WATER METER LOCATED NEXT TO SUITE SHUT OFF VALVE. METER IS INSTALLED BY DIVISION 15.
3. DIVISION 16 TO SUPPLY AND INSTALL 1/2" CONDUIT. DIVISION 16 TO PULL SIGNAL WIRE. WIRE SUPPLIED BY METERING CONTRACTOR.
4. DIVISION 16 TO SUPPLY AND INSTALL 1/2" CONDUIT AND JUNCTION BOXES AT EVERY 3RD SUITE. DIVISION 16 TO PULL SIGNAL WIRE. WIRE SUPPLIED BY METERING CONTRACTOR.
5. DIVISION 16 TO PROVIDE 4k-SLAB CONDUIT AT NOTED FLOORS FROM VERTICAL RISERS TO CENTRAL METERING LOCATION.
6. 120V POWER REQUIRES FOR FIRST JUNCTION BOX OF ALL THE RISERS REFER TO MECHANICAL DRAWINGS M3-03A, 03B,03C & 03D FOR THE RISERS QUANTITY. MAXIMUM 4 RISERS PER EACH 20A CCT. QUANTITY OF 20A CCT AS FOLLOWS.

DWG. #	FAN COIL RISER	CCT #	REMARKS
M3-03A	HC-01 HC-02 HC-19 HC-38	21PN-23	
	HC-36 HC-37 HC-35	21PN-25	
	HC-33 HC-32.1 HC-33.1 HC-33	21PC-44	
	HC-34 HC-03 HC-04	21PC-46	
M3-03B	HC-05B HC-05A HC-06	21PC-48	
	HC-31 HC-06 HC-07	21PC-50	
	HC-08 HC-30	21PC-52	
	HC-29 HC-28	21PC-54	
	HC-09 HC-10 HC-27 HC-11	21PC-56	
M3-03C	HC-26 HC-12 HC-25	21PC-58	
	HC-13 HC-24	21PC-60	
	HC-23 HC-14 HC-22 HC-15	21PS-45	
	HC-21 HC-20 HC-19 HC-16	21PS-47	
	HC-17 HC-18	21PS-49	
M3-03D	CHC-02 CHC-01 CHC-08 CHC-07	21PS-51	
	CHC-05 CHC-06 CHC-03 CHC-04	21PS-53	

Contractor Must Check And Verify All Dimensions On The Job.
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Date: 03/06/15

MCW Consultants Ltd.
207 Queen's Quay West, Suite 810, Toronto, ON, M5J 1A7
E-Mail: mcw_tor@mcw.com
Tel: 416-598-2929
Toronto Vancouver Winnipeg Moncton Ottawa Halifax Dauphin Kelowna Visit: TaxIn.com
www.mcw.com
Fax: 416-598-0394

No.	Revision	Date
1	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Type
MISCELLANEOUS DETAILS - ELECTRICAL

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	03/06/15
Drawing No.	E4-02

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