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PIPING VALVES

- GATE VALVE
- BALL VALVE
- BUTTERFLY VALVE
- GLOBE VALVE
- ANGLE GLOBE VALVE
- BALANCING VALVE
- CONTROL BALANCING VALVE
- PLUG VALVE
- THREE-WAY VALVE
- TWO-WAY CONTROL VALVE
- THREE-WAY CONTROL VALVE
- NEEDLE VALVE
- CHECK VALVE
- ALARM CHECK VALVE
- PRESSURE REDUCING VALVE
- PRESSURE REGULATING VALVE
- PRESSURE REGULATING VALVE
- RELIEF OR SAFETY VALVE
- RELIEF OR SAFETY VALVE
- RELIEF OR SAFETY VALVE
- SEASONAL CHANGE OVER VALVE
- CHANGE OVER VALVE
- MOTOR CONTROL VALVE
- STRAINER
- STRAINER w/ BALL VALVE
- STRAINER w/ GATE VALVE
- AIR VALVE
- BACK FLOW PREVENTER
- SINGLE GAS SUPPLY VALVE
- DOUBLE GAS SUPPLY VALVE
- GEAR OPERATED MANUAL VALVE
- SOLENOID OPERATING VALVE
- LOCK SHIELD

SINGLE LINE GAUGES

- TS — TEMPERATURE SENSOR
- PS — PRESSURE SENSOR
- FS — FLOW SENSOR
- TEMPERATURE GAUGE
- PRESSURE GAUGE
- PRESSURE GAUGE
- AV — AIR VENT
- AV — AIR VENT
- THE (E) — ENERGY MANAGEMENT SYSTEM (EMS) THERMOWELL

PLUMBING & DRAINAGE

- ROOF DRAIN
- FLOOR DRAIN
- FLOOR DRAIN
- HUB DRAIN
- FUNNEL DRAIN
- CATCH BASIN
- SCUPPER DRAIN
- CLEAN OUT PLUG
- CLEAN OUT FLOOR
- TRAP

SINGLE LINE PIPE FITTINGS

- CONTINUATION
- PIPE CAP
- TEE
- TEE UP
- TEE DOWN
- 90 DEGREE ELBOW
- 45 DEGREE ELBOW
- ELBOW UP
- ELBOW DOWN
- BOTTOM BRANCH
- TOP BRANCH
- PIPE TRANSITION
- FLOW ARROW

STEAM VALVES & GAUGES

- FLOW & REGULATING VALVE
- HAND WHEEL RISE STEM VALVE
- VACUUM BREAKER
- INVERTED BUCKET STEAM TRAP
- FT — FLOAT AND THERMOSTATIC STEAM TRAP
- TM — THERMOSTATIC STEAM BIMETAL AND BELLOWS
- TD — THERMODYNAMIC STEAM TRAP
- VARIABLE ORIFICE STEAM TRAP
- SIGHT GLASS
- FIXED ORIFICE STEAM TRAP

MISCELLANEOUS - PIPING

- PUMP
- M — METER
- M — METER
- METER
- FLANGE
- SCREWED UNION
- HOSE BIBB
- FLEX CONNECTION
- EXPANSION COMPENSATOR
- THRUST BLOCK
- HEAT TRACE
- FUEL OIL FILTER STRAINER
- DEMOLITION 'X'
- Bulk/Mult/Alt — PIPE INSULATION

PLUMBING FIXTURES

- TANK WC
- WALL WC (FLUSH VALVE)
- FLOOR WC (FLUSH VALVE)
- URINAL
- SERVICE SINK / LAUNDRY TUB
- SINGLE BOWL SINK
- DOUBLE BOWL SINK
- WALL HUNG LAVATORY
- COUNTER MOUNT LAVATORY
- WASH FOUNTAIN
- WALL HUNG HANDICAPPED SINK
- DRINKING FOUNTAIN
- EMERGENCY EYEWASH
- BATHTUB
- SHOWER

PIPING DESIGNATIONS

DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RECIRCULATION
SAN	SANITARY DRAIN ABOVE
SAN	SANITARY DRAIN BELOW
SD	STORM DRAIN ABOVE
SD	STORM DRAIN BELOW
V	VENT
AW	ACID WASTE
AV	ACID VENT
WT	WEEPING TILE
NPW	NON-POTABLE WATER
CA	COMPRESSED AIR
G	LOW PRESSURE GAS
MG	MEDIUM PRESSURE GAS
HG	HIGH PRESSURE GAS
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
FOF	FUEL OIL FILL
FOV	FUEL OIL VENT
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
H/C S	DUAL TEMPERATURE SUPPLY
H/C R	DUAL TEMPERATURE RETURN
HPWS	HEAT PUMP WATER SUPPLY
HPWR	HEAT PUMP WATER RETURN
GS	GLYCOL SUPPLY
GR	GLYCOL RETURN
RS	REFRIGERANT SUCTION
RL	REFRIGERANT LIQUID
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
CTWS	COOLING TOWER WATER SUPPLY
CTWR	COOLING TOWER WATER RETURN
ST (info)	STEAM (w/ DETAIL)
LPS	LOW PRESSURE STEAM
MPS	MEDIUM PRESSURE STEAM
HPS	HIGH PRESSURE STEAM
LPC	LOW PRESSURE STEAM CONDENSATE
MPC	MEDIUM PRESSURE STEAM CONDENSATE
HPC	HIGH PRESSURE STEAM CONDENSATE
CD	CONDENSATE DRAIN
PC	PUMPED CONDENSATE DRAIN
BBD	BOILER BLOW DOWN
BFW	BOILER FEED WATER

DUCTWORK

- SUPPLY AIR FLOW ARROW
- RETURN/EXHAUST AIR FLOW ARROW
- SUPPLY/OUTSIDE AIR DUCT UP
- SUPPLY/OUTSIDE AIR DUCT DOWN
- RETURN AIR DUCT UP
- RETURN AIR DUCT DOWN
- EXHAUST AIR DUCT UP
- EXHAUST AIR DUCT DOWN
- RECTANGULAR DUCT
- ROUND DUCT
- MITERED ELBOW - RECTANGULAR DUCT
- BEVELED THROAT ELBOW - RECTANGULAR DUCT
- 45° RADIUS ELBOW - RECTANGULAR DUCT
- 45° RADIUS ELBOW - ROUND DUCT
- 90° RADIUS ELBOW - RECTANGULAR DUCT
- 90° RADIUS ELBOW - ROUND DUCT
- FLEX DUCT
- TAKE OFF CONNECTION
- SPIN-ON CONNECTION
- EXTERNALLY INSULATED DUCTWORK
- INTERNALLY LINED DUCTWORK
- SQUARE TO ROUND DUCT TRANSITION
- TYP SQUARE DIFFUSER
- TYP LINEAR BAR GRILLE
- TYP LINEAR S/R DIFFUSER w/ PLENUM
- TYP NON DUCTED LINEAR RETURN DIFFUSER
- CENTRIFUGAL FAN
- PARALLEL BLADE CONTROL DAMPER
- OPPOSED BLADE CONTROL DAMPER
- FD — FIRE DAMPER
- BD — BALANCING DAMPER
- THERMOSTAT
- HUMIDISTAT
- CO — CARBON MONOXIDE SENSOR
- CO2 — CARBON DIOXIDE SENSOR

FIRE PROTECTION

- UPRIGHT SPRINKLER
- CONCEALED SPRINKLER
- DRY PENDENT SPRINKLER
- PENDENT SPRINKLER
- RECESSED SPRINKLER
- PRE-ACTION SPRINKLER
- SIDEWALL SPRINKLER
- WINDOW SPRINKLER
- FIRE HOSE CABINET
- SURFACE FIRE EXTINGUISHER
- CABINET FIRE EXTINGUISHER
- SUPERVISED VALVE
- POST INDICATOR VALVE
- FIRE DEPT. PUMPER CONNECTION
- FIRE DEPT. TEST CONNECTION
- FIRE HYDRANT
- WS — WET SYSTEM ALARM VALVE
- DS — DRY SYSTEM ALARM VALVE
- PA — PRE-ACTION SYSTEM ALARM VALVE
- FSP — FIRE STANDPIPE
- F — WET SPRINKLER LINE
- F - DRY — DRY SPRINKLER LINE

HVAC DESIGNATIONS

S/A	SUPPLY AIR
O/A	OUTSIDE AIR
R/A	RETURN AIR
E/A	EXHAUST AIR
MD	MOTORIZED DAMPER
FD	FIRE DAMPER
BD	BALANCING DAMPER
FSD	SMOKE & FIRE DAMPER
SA	SOUND ATTENUATOR
AP	ACCESS PANEL
AS	AIR SEPARATOR
SAV	SUPPLY AIR VALVE
EAV	EXHAUST AIR VALVE
F	AIR FILTER
FTR	FINNED TUBE RADIATOR
BBH	BASEBOARD HEATER
PRV	PRESSURE REDUCING VALVE
SRV	SAFETY RELIEF VALVE
CC-	COOLING COIL
HC-	HEATING COIL
RHC	REHEAT COIL
SC	STEAM COIL
H-	HUMIDIFIER
SL-	SILENCER
CF-	CEILING FAN
ACU-	AIR CONDITIONING UNIT
AHU-	AIR HANDLING UNIT
RTU-	ROOF TOP UNIT
MAU-	MAKE UP AIR UNIT
HRU-	HEAT RECOVERY UNIT
HVU-	HEATING & VENTILATING UNIT
HRW-	HEAT RECOVERY WHEEL
HRV-	HEAT RECOVERY VENTILATOR
ERV-	ENERGY RECOVERY VENTILATOR
FCU-	FAN COIL UNIT
VFC-	VERTICAL FAN COIL UNIT
HFC-	HORIZONTAL FAN COIL UNIT
CAV-	CONSTANT AIR VOLUME TERMINAL UNIT
VAV-	VARIABLE AIR VOLUME TERMINAL UNIT
SF-	SUPPLY FAN
RAF-	RETURN AIR FAN
EX-	EXHAUST FAN
CUH-	CABINET UNIT HEATER
UH-	UNIT HEATER
EH-	ENTRANCE HEATER
CH-	CHILLER
CT-	COOLING TOWER
FC-	FLUID COOLER
EFC-	EVAPORATIVE FAN COOLER
CP-	CONDENSATE PUMP
P-	PUMP
ET-	EXPANSION TANK
HX-	HEAT EXCHANGER
VFD	VARIABLE FREQUENCY DRIVE
VSD	VARIABLE SPEED DRIVE

DRAWING LIST

DWG NO.	DRAWING NAME	SCALE	WATERFRONT TORONTO REVIEW 2015-05-01	BUILDING PERMIT SUBMISSION 2015-06-12	ISSUED FOR TENDER 2015-10-15	ISSUED FOR CONSTRUCTION 2016-07-07
M0-00	MECHANICAL SYMBOL LEGEND. DRAWING LIST & GENERAL NOTES	N.T.S.				
M0-01	SITE PLAN - MECHANICAL	1:200	•	•	•	•
M1-00	FOUNDATION & LEVEL P4 FLOOR PLANS MECHANICAL	1:100	•	•	•	•
M1-01	LEVEL P3 & LEVEL P2 FLOOR PLANS MECHANICAL	1:100	•	•	•	•
M1-02	LEVEL P1 & LEVEL P1 MEZZANINE FLOOR PLANS - MECHANICAL	1:100	•	•	•	•
M1-03	LEVEL P1 AMENITY - ENLARGED PLANS	AS NOTED			•	•
M2-01A	LEVEL 1 FLOOR PLAN NORTH - MECHANICAL	1:50	•	•	•	•
M2-01B	LEVEL 1 FLOOR PLAN SOUTH - MECHANICAL	1:50	•	•	•	•
M2-02A	LEVEL 1 MEZZANINE FLOOR PLAN NORTH MECHANICAL	1:50	•	•	•	•
M2-02B	LEVEL 1 MEZZANINE FLOOR PLAN SOUTH MECHANICAL	1:50	•	•	•	•
M2-03A	LEVEL 2 FLOOR PLAN NORTH - MECHANICAL	1:50	•	•	•	•
M2-03B	LEVEL 2 FLOOR PLAN SOUTH - MECHANICAL	1:50	•	•	•	•
M2-04A	LEVEL 3 FLOOR PLAN NORTH - MECHANICAL	1:50	•	•	•	•
M2-04B	LEVEL 3 FLOOR PLAN SOUTH - MECHANICAL	1:50	•	•	•	•
M2-05A	LEVEL 4-5 FLOOR PLAN NORTH - MECHANICAL	1:50	•	•	•	•
M2-05B	LEVEL 4-5 FLOOR PLAN SOUTH - MECHANICAL	1:50	•	•	•	•
M2-06A	LEVEL 6 FLOOR PLAN NORTH - MECHANICAL	1:50	•	•	•	•
M2-06B	LEVEL 6 FLOOR PLAN SOUTH - MECHANICAL	1:50	•	•	•	•
M2-07A	LEVEL 7 FLOOR PLAN NORTH - MECHANICAL	1:50	•	•	•	•
M2-07B	LEVEL 7 FLOOR PLAN SOUTH - MECHANICAL	1:50	•	•	•	•
M2-08A	LEVEL 8 FLOOR PLAN NORTH - MECHANICAL	1:50	•	•	•	•
M2-08B	LEVEL 8 FLOOR PLAN SOUTH - MECHANICAL	1:50	•	•	•	•
M2-09A	LEVEL 9 FLOOR PLAN NORTH - MECHANICAL	1:50	•	•	•	•
M2-09B	LEVEL 9 FLOOR PLAN SOUTH - MECHANICAL	1:50	•	•	•	•
M2-10A	LEVEL 10 FLOOR PLAN NORTH - MECHANICAL	1:50	•	•	•	•
M2-10B	LEVEL 10 FLOOR PLAN SOUTH - MECHANICAL	1:50	•	•	•	•
M2-11A	LEVEL 11 FLOOR PLAN NORTH - MECHANICAL	1:50	•	•	•	•
M2-11B	LEVEL 11 FLOOR PLAN SOUTH - MECHANICAL	1:50	•	•	•	•
M2-12A	LEVEL PH1 FLOOR PLAN NORTH - MECHANICAL	1:50	•	•	•	•
M2-12B	LEVEL PH1 FLOOR PLAN SOUTH - MECHANICAL	1:50	•	•	•	•
M2-13A	LEVEL PH2 FLOOR PLAN NORTH - MECHANICAL	1:50	•	•	•	•
M2-13B	LEVEL PH2 FLOOR PLAN SOUTH - MECHANICAL	1:50	•	•	•	•
M2-14A	ROOF PLAN NORTH - MECHANICAL	1:50	•	•	•	•
M2-14B	ROOF PLAN SOUTH - MECHANICAL	1:50	•	•	•	•
M3-11	CONDO MECHANICAL ROOMS - ENLARGED PLANS	AS NOTED			•	•
M3-12	CONDO MECHANICAL ROOMS - ENLARGED PLANS	AS NOTED			•	•
M3-13	CONDO MECHANICAL ROOMS - ENLARGED PLANS	AS NOTED			•	•
M3-21	ARTSCAPE MECHANICAL ROOMS - ENLARGED PLANS	AS NOTED			•	•
M3-22	ARTSCAPE MECHANICAL ROOMS - ENLARGED PLANS	AS NOTED			•	•
M3-31	RETAIL MECHANICAL ROOMS - ENLARGED PLANS	AS NOTED			•	•
M4-01	STORM SCHEMATIC	N.T.S.		•	•	•
M4-02	NATURAL GAS SCHEMATIC	N.T.S.	•	•	•	•
M4-03	AIR DISTRIBUTION SCHEMATICS	N.T.S.	•	•	•	•
M4-11	CONDO - HEATING & COOLING SCHEMATIC	N.T.S.	•	•	•	•
M4-12A	CONDO - FAN COIL RISER DIAGRAM - PART A	N.T.S.			•	•
M4-12B	CONDO - FAN COIL RISER DIAGRAM - PART B	N.T.S.			•	•
M4-12C	CONDO - FAN COIL RISER DIAGRAM - PART C	N.T.S.			•	•
M4-12D	CONDO - FAN COIL RISER DIAGRAM - PART D	N.T.S			•	•
M4-13	CONDO - DOMESTIC WATER RISER DIAGRAM	N.T.S.	•	•	•	•
M4-14A	CONDO - DOMESTIC WATER RISER DIAGRAM - PART A	N.T.S.			•	•
M4-14B	CONDO - DOMESTIC WATER RISER DIAGRAM - PART B	N.T.S.			•	•
M4-15A	CONDO - SANITARY RISER DIAGRAM A	N.T.S.				•
M4-15B	CONDO - SANITARY RISER DIAGRAM B					•
M4-15C	CONDO - SANITARY RISER DIAGRAM C					•
M4-15D	CONDO - SANITARY RISER DIAGRAM D					•
M4-21	ARTSCAPE - HEATING & COOLING SCHEMATIC	N.T.S.	•	•	•	•
M4-22	ARTSCAPE - FAN COIL RISER DIAGRAM	N.T.S.			•	•
M4-23	ARTSCAPE - DOMESTIC WATER SCHEMATIC	N.T.S.	•	•	•	•
M4-24A	ARTSCAPE - DOMESTIC WATER RISER DIAGRAM	N.T.S.			•	•
M4-25A	ARTSCAPE - SANITARY RISER DIAGRAM	N.T.S.				•
M4-31	RETAIL - HEATING & COOLING SCHEMATIC					•
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	N.T.S.				•

DRAWING SYMBOLS

- X / x - x — SECTION NUMBER / SHEET NUMBER
- X / x - x — DETAIL NUMBER / SHEET NUMBER

NOTES

GENERAL NOTES:

ALL EQUIPMENT AND MATERIALS LOCATED IN ANY CONCEALED SPACE USED AS A PLENUM FOR AIR FLOW WILL CONFORM TO THE REQUIREMENTS OF ONTARIO BUILDING CODE SECTION 3.6.4.3

THE POTABLE WATER SYSTEM SHALL BE PROTECTED AGAINST BACK SIPHONAGE FROM ANY MACHINERY OR EQUIPMENT BY A CERTIFIED CANCROSS BBA 10 BACKFLOW PREVENTER AS PER THE ONTARIO BUILDING CODE SUBSECTION 7.6.2.

ALL DOMESTIC WATER MANIFOLDS AND ALL IN-SLAB DOMESTIC WATER PIPING TO BE SIZED AND INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. ALL PIPING AND ASSOCIATED MATERIALS TO BE INSTALLED IN COMPLIANCE WITH THE ONTARIO BUILDING CODE.

FOR PIPE OFF SETS (e.g.: WASHROOMS LOCATED ABOVE SENSITIVE AREAS, etc.) PROVIDE 25mm (1") THICK FIBERGLASS, COVERED WITH 2mm ACUSEAL TO SANITARY OR STORM ELBOWS FROM DRAINS OR PIPES ABOVE AND THE FIRST 1.5m (5'-0") OF HORIZONTAL RUN AFTER THE ELBOW.

TRANSITE PIPES FOR HORIZONTAL STORM DRAINS ARE NOT ALLOWED TO BE INSTALLED IN FINISHED AND SENSITIVE AREAS. MUST USE 'HOT ROLLED' GALVANIZED IRON PIPES.

PROVIDE BALANCING DAMPERS AT BRANCH DUCTS.

PROVIDE FIRE DAMPERS ON ALL DUCTWORK THAT PENETRATE THROUGH FIRE RATED WALL PARTITIONS.

ALL PIPE ANCHORS, EXPANSION JOINTS AND PIPE GUIDES TO BE INSTALLED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE AND THE REQUIREMENTS OF THE LOCAL MUNICIPALITY.

COMPLETE VENTING SYSTEM INCLUDING SIZING AND TERMINAL POINTS TO BE PROVIDED AND INSTALLED BY CONTRACTOR IN COMPLIANCE WITH THE ONTARIO BUILDING CODE

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

TYPICAL EQUIPMENT DUCT SIZES:

LAUNDRY DRYER
KITCHEN BOOSTER FAN AND THE LAST 1500mm (5'-0") FROM OUTSIDE WALL MUST BE 200mm (8") DIAMETER INCLUDING 25mm THICK THERMAL INSULATION.

KITCHEN BOOSTER FAN
- 150mm (6") DIAMETER AND THE LAST 1500mm (5'-0") FROM OUTSIDE WALL MUST BE 200mm (8") DIAMETER INCLUDING 25mm THICK THERMAL INSULATION.

ENERGY RECOVERY VENTILATOR - ERV
- ALL FOUR (4) DUCTS (INLET OF UNITS ARE 150mm (6") DIAMETER.
- ALL DUCTS FROM UNITS TO THE FIRST 1500mm (5'-0") DIAMETER INCLUDING 25mm THICK THERMAL INSULATION AND EXHAUST DUCT IS 200mm (8") DIAMETER INCLUDING 25mm THICK THERMAL INSULATION FOR THE LAST 1500mm (5'-0") FROM OUTSIDE WALL.
- ALL DUCTS FROM UNITS TO THE FIRST 1500mm (5'-0") DIAMETER ARE TO BE SEALED.
- CONTROLLER (IF REQUIRED) MUST BE LOCATED INSIDE SECONDARY WASHROOM OR POWDER ROOM

SUITES SIDEWALL SUPPLY AIR DIFFUSERS:

- ALL SIDEWALL SUPPLY AIR DIFFUSERS MUST BE INSTALLED AS HIGH AS POSSIBLE. TOP SIDE OF SIDEWALL DIFFUSERS MUST BE MAXIMUM 150mm BELOW FISHED CEILING OR BULKHEADS.

HAZARD/GROUP DESIGNATION:

ASTERISK ADJACENT TO ROOM NUMBER INDICATES COVERAGE, ALL OTHER AREAS TO BE ORDINARY HAZARD COVERAGE WITH A MAXIMUM SQUARE FOOT COVERAGE PER HEAD OF 225 (20.92 M2)

- * — ORDINARY HAZARD GROUP 1
- ** — ORDINARY HAZARD GROUP 2

ALL FIRE EXTINGUISHER TO BE TYPE 3A-10BC

Contractor Must Check And Verify All Dimensions On The Job.

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Date: 12/08/09

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No.	Revision	Date

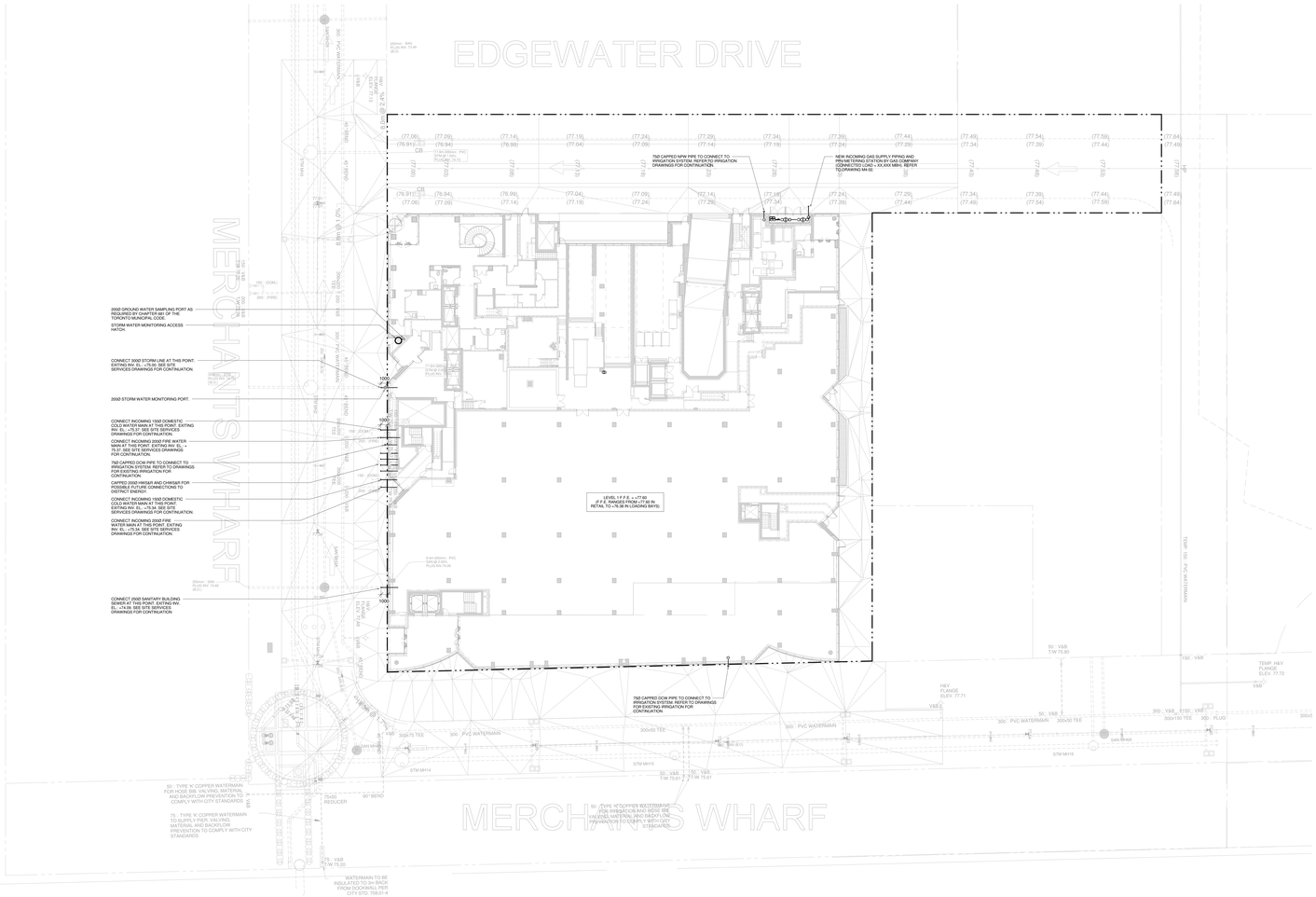
No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-07-07
3	ISSUED FOR TENDER	2015-10-15
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
MECHANICAL SYMBOL LEGEND. DRAWING LIST & GENERAL NOTES

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

Scale: NTS.
Drawn by: Author
Checked by: Checker
Project No: 8489D
Date: 12/08/09
Drawing No: M0-00



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Date: 08-09-12

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No.	Revision	Date

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-10-16
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
SITE PLAN - MECHANICAL

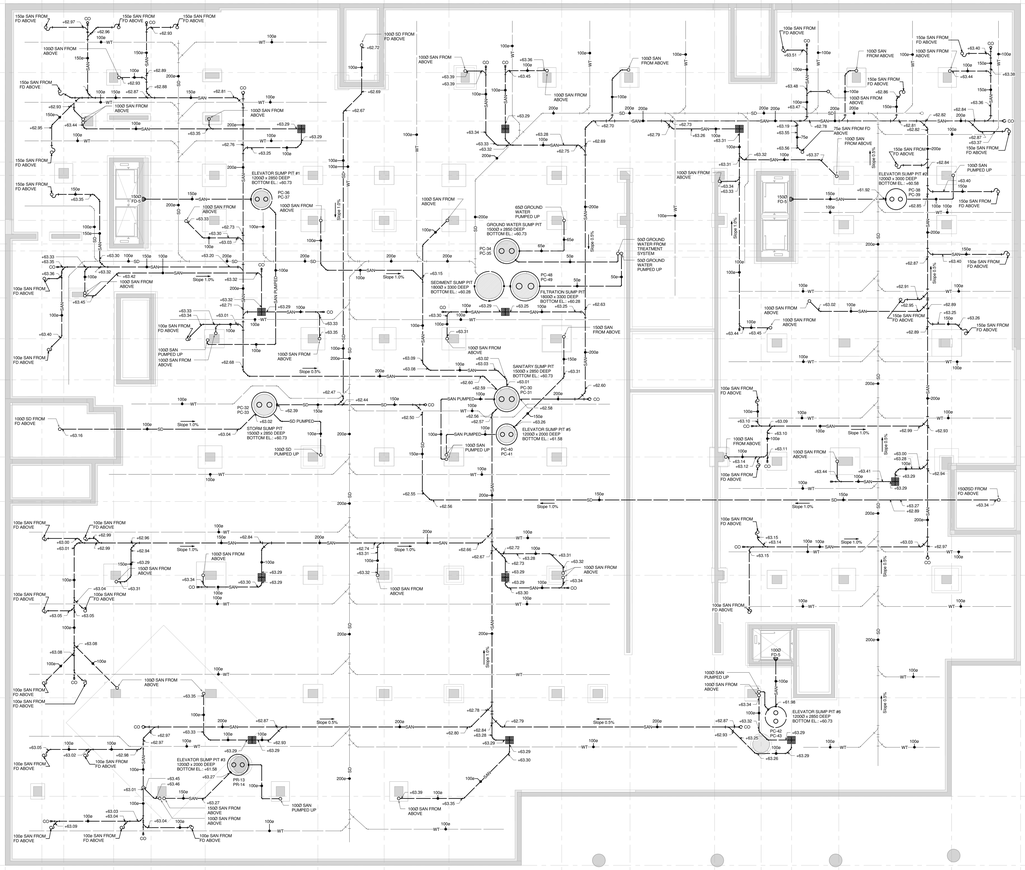
Project
Hines TRIDEL
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

Scale 1 : 200
Drawn by Author
Checked by Checker
Project No. 8489D
Date 08/29/12
Drawing No. M0-01

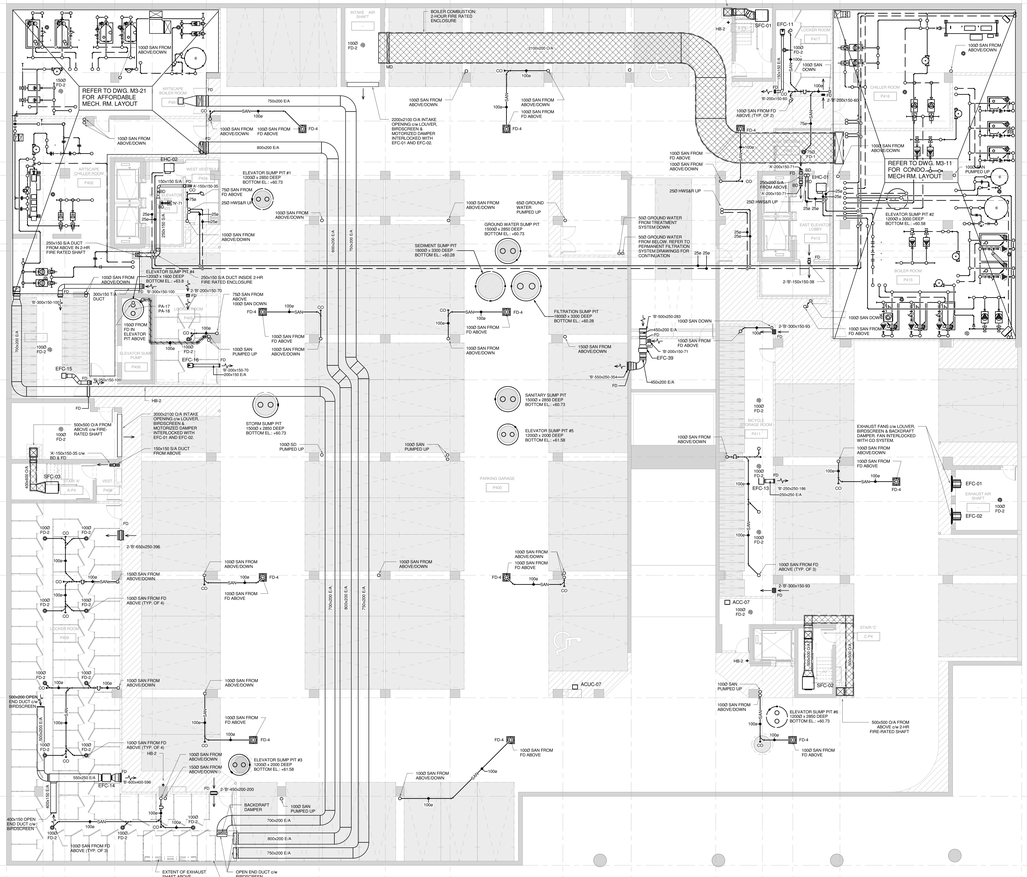
N

NOTES:

WEEPING TILE AND BELOW SLAB DRAINAGE LAYOUT SHOWN HAS BEEN PROVIDED BY GEOTECHNICAL APPROVED BY GEO TECHNICAL CONSULTANT PRIOR TO CONSTRUCTION. GEO TECHNICAL CONSULTANT TO INSPECT INSTALLATION PRIOR TO BACKFILL.



1 FOUNDATION FLOOR PLAN - MECHANICAL
1 : 100



2 LEVEL P4 FLOOR PLAN - MECHANICAL
1 : 100

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Date: 03/04/15

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Dauphin Kelowna Thief Saint John

No.	Revision	Date
1	ADD M-001	2015-10-06
2	ISSUED FOR ADD M-002	2016/06/03
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-10-16
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

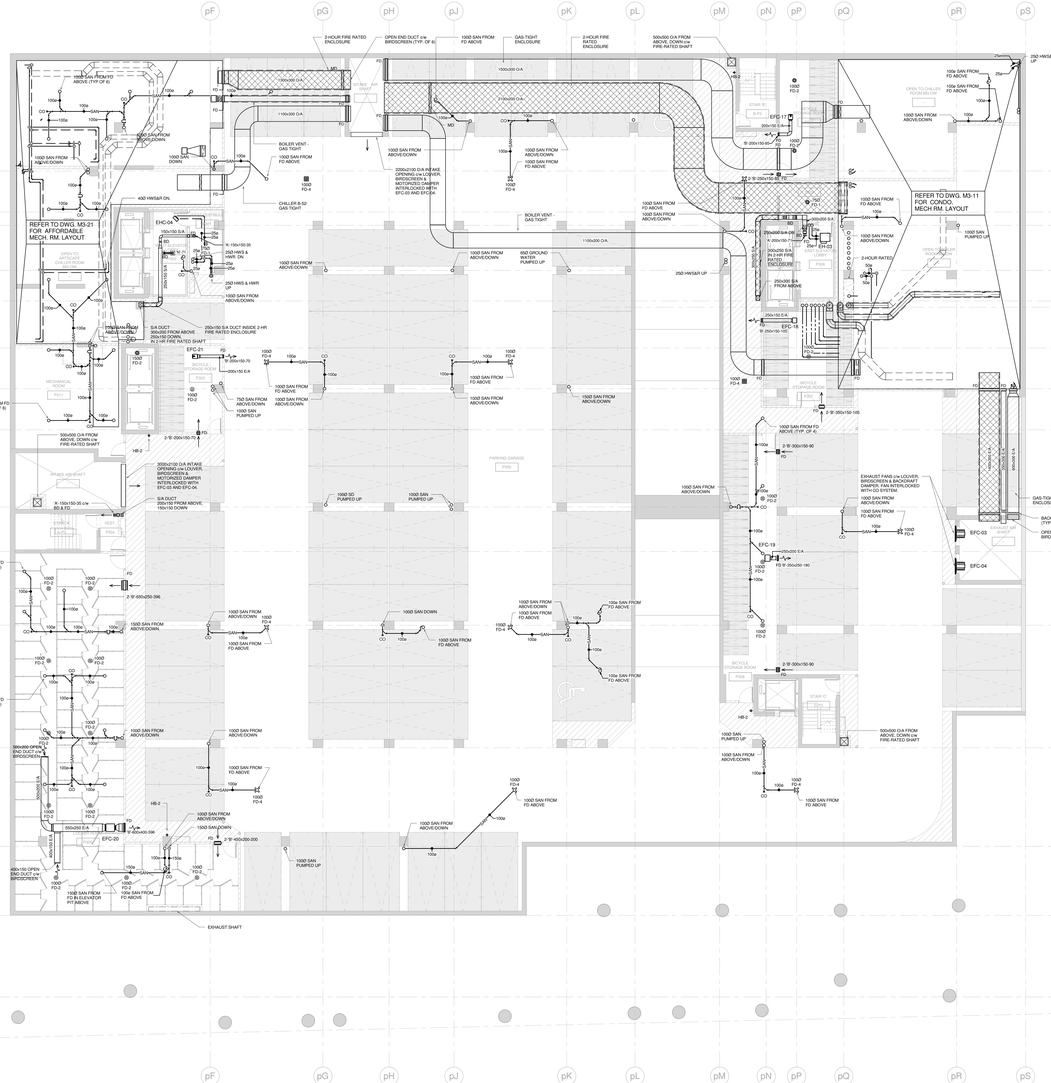
FOUNDATION & LEVEL P4 FLOOR PLANS MECHANICAL

Project

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

Scale: 1 : 100
Drawn by: M.F.
Checked by: M.H.
Project No: 8489D
Date: 03/04/15
Drawing No: M1-00

N



1 LEVEL P3 FLOOR PLAN - MECHANICAL
1 : 100

2 LEVEL P2 FLOOR PLAN - MECHANICAL
1 : 100

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Toronto Vancouver Windsor Moncton Ottawa Halifax Dauphin Kitchener Trail Saint John

No.	Revision	Date
1	ADD M-001	2015-10-06
2	ISSUED FOR ADD M-002	2016/XX/XX

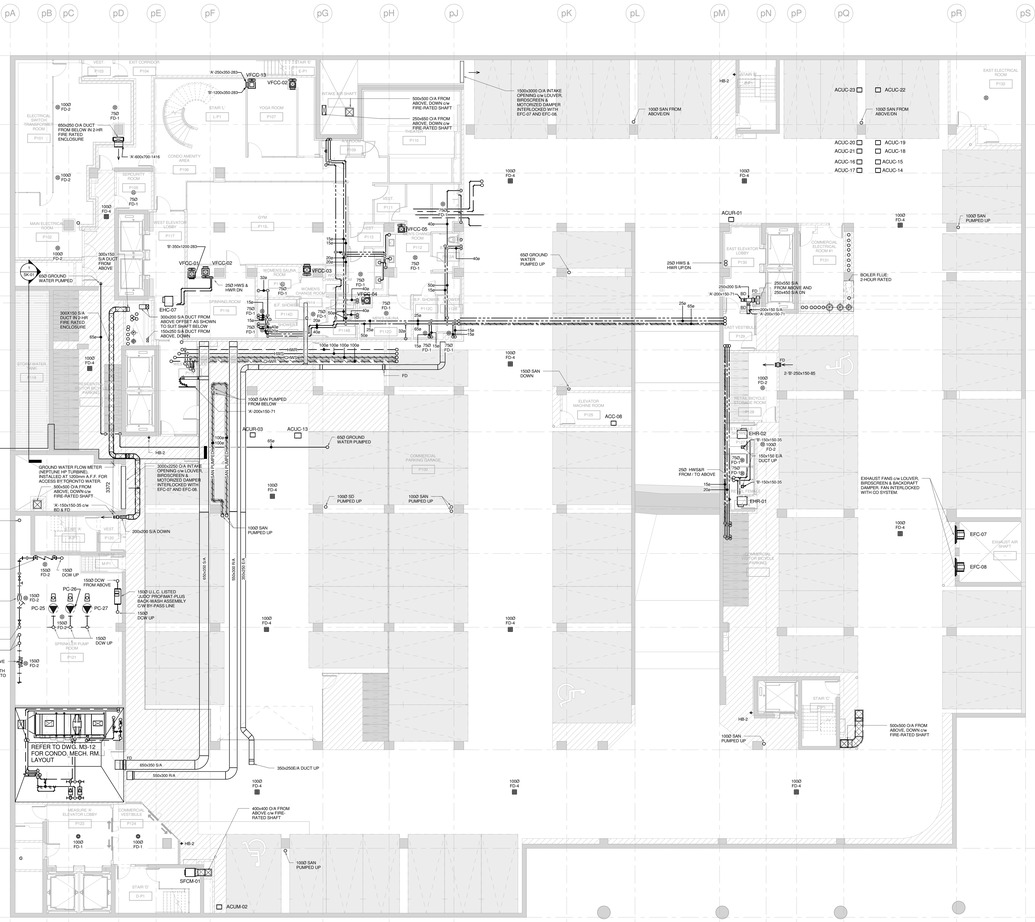
No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-10-16
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	INT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL P3 & LEVEL P2 FLOOR PLANS MECHANICAL

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 03/04/15
Drawing No. M1-01


REFER TO DWG. M3-12 FOR CONDO. MECH. RM. LAYOUT
GROUND WATER FLOW METER (NEPTUNE HP TURBINE) 1500 U.L.C. LISTED FLANGED F.F. FOR ACCESS BY TORONTO WATER
1500 U.L.C. LISTED REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY TO BE INSTALLED IN CONFORMANCE WITH CSA B64.10 AND CITY OF TORONTO STANDARDS
1500 DOMESTIC WATER METER ASSEMBLY TO BE INSTALLED IN ACCORDANCE WITH THE CITY OF TORONTO STANDARDS
1500 INCOMING DOMESTIC WATER FROM ABOVE
2000 INCOMING FIRE WATER MAIN FROM ABOVE
2000 U.L.C. LISTED DOUBLE CHECK VALVE ASSEMBLY COMPLETE WITH WATER METER BYPASS ASSEMBLY IN CONFORMANCE WITH CITY OF TORONTO STANDARDS. REFER TO SPRINKLER CONTRACTOR DOCUMENTS FOR CONTINUATION.
1500 INCOMING DOMESTIC WATER FROM ABOVE
1500 U.L.C. LISTED PREPIPE AND CVBFP ASSEMBLY
1500 DOM UP
1500 DOW FROM ABOVE
1500 DOM UP
1500 DOW UP
PC-25
PC-26
PC-27
PC-28
SUMMER FLAT ROOF
P1R
1500 SD PUMPED UP
1500 SAN PUMPED UP
1500 SAN PUMPED FROM BELOW
1500 SAN DOWN
1500 SAN PUMPED UP
1500 SAN PUMPED UP
1500 SAN PUMPED UP
1500 SAN PUMPED UP
1500 SAN PUMPED UP
1500 SAN PUMPED UP
1500 SAN FROM ABOVE ON
1500 SAN FROM ABOVE ON
1500 SAN FROM ABOVE
1500 SAN FROM ABOVE
650 GROUND WATER PUMPED
650 GROUND WATER PUMPED UP
650 GROUND WATER PUMPED
650 GROUND WATER PUMPED
250 HWS & HWR UP/DN
250 HWS & HWR DN
250 HWS & HWR UP
250 HWSAR FROM TO ABOVE
EXHAUST FANS c/w LOUVER, BIRDSCREEN & BACKDRAFT DAMPER. FAN INTERLOCKED WITH CO SYSTEM
EFC-07
EFC-08
EFC-09
EFC-10
EFC-11
EFC-12
EFC-13
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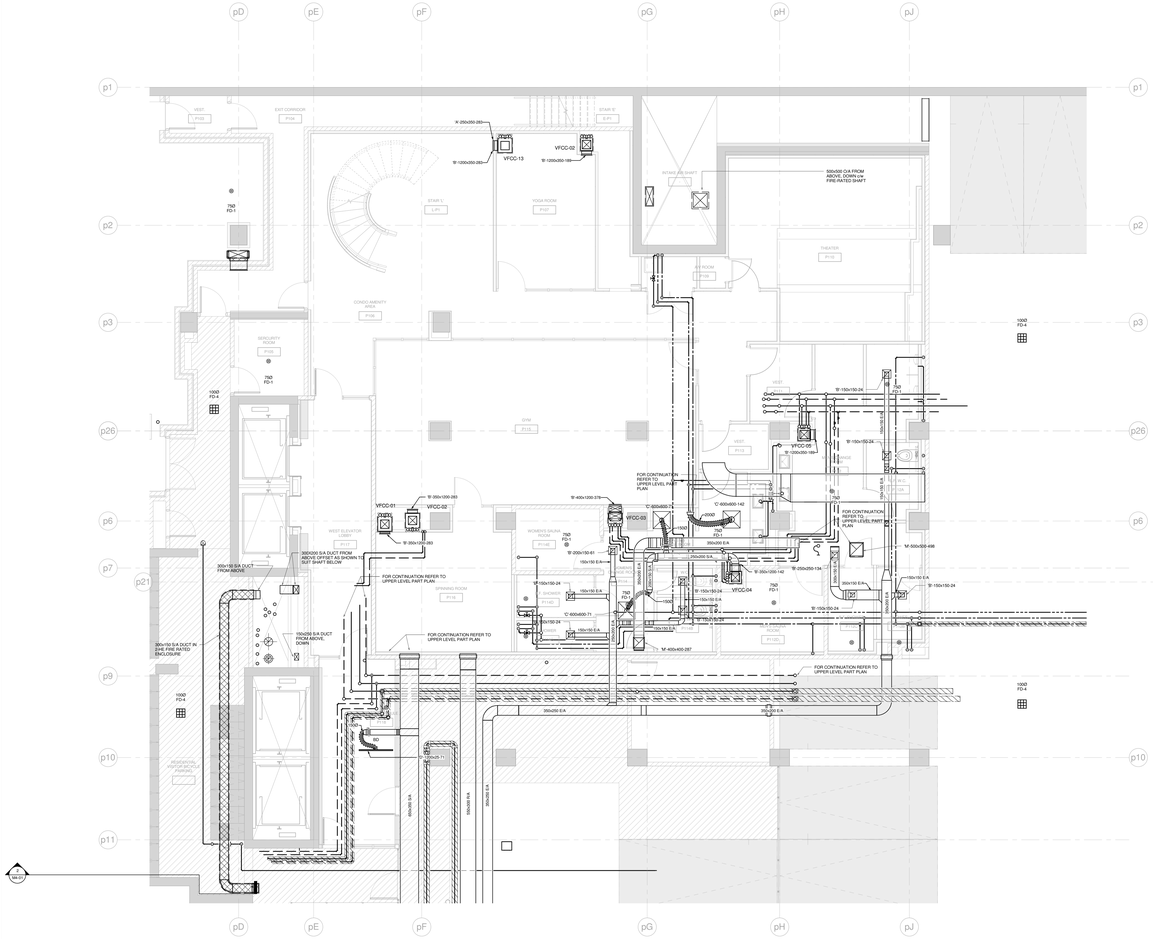
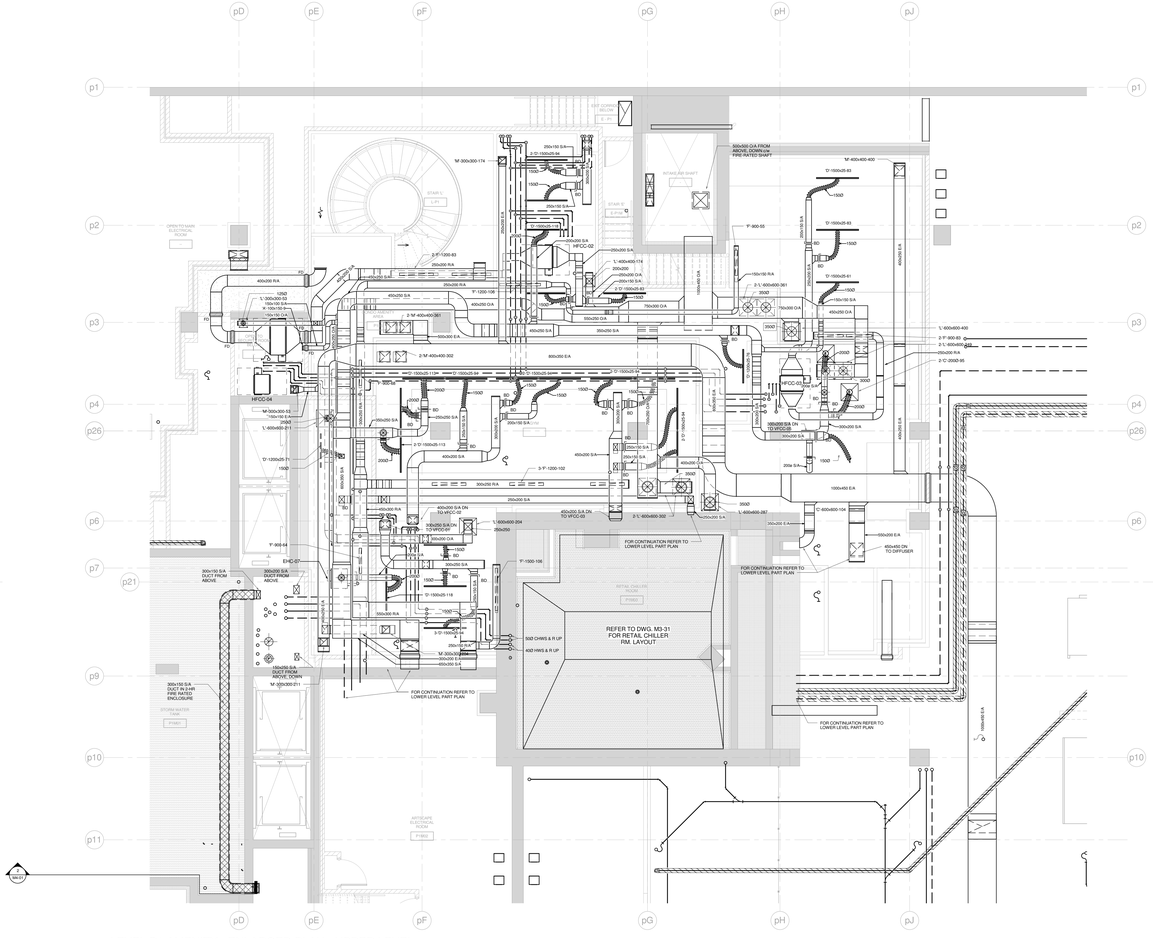


1 LEVEL P1 AMENITY - ENLARGED PLAN - LOWER LEVEL
1 : 50



2 LEVEL P1 AMENITY - ENLARGED PLAN - UPPER LEVEL
1 : 50

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No.	Revision	Date

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-10-15
2		
1		

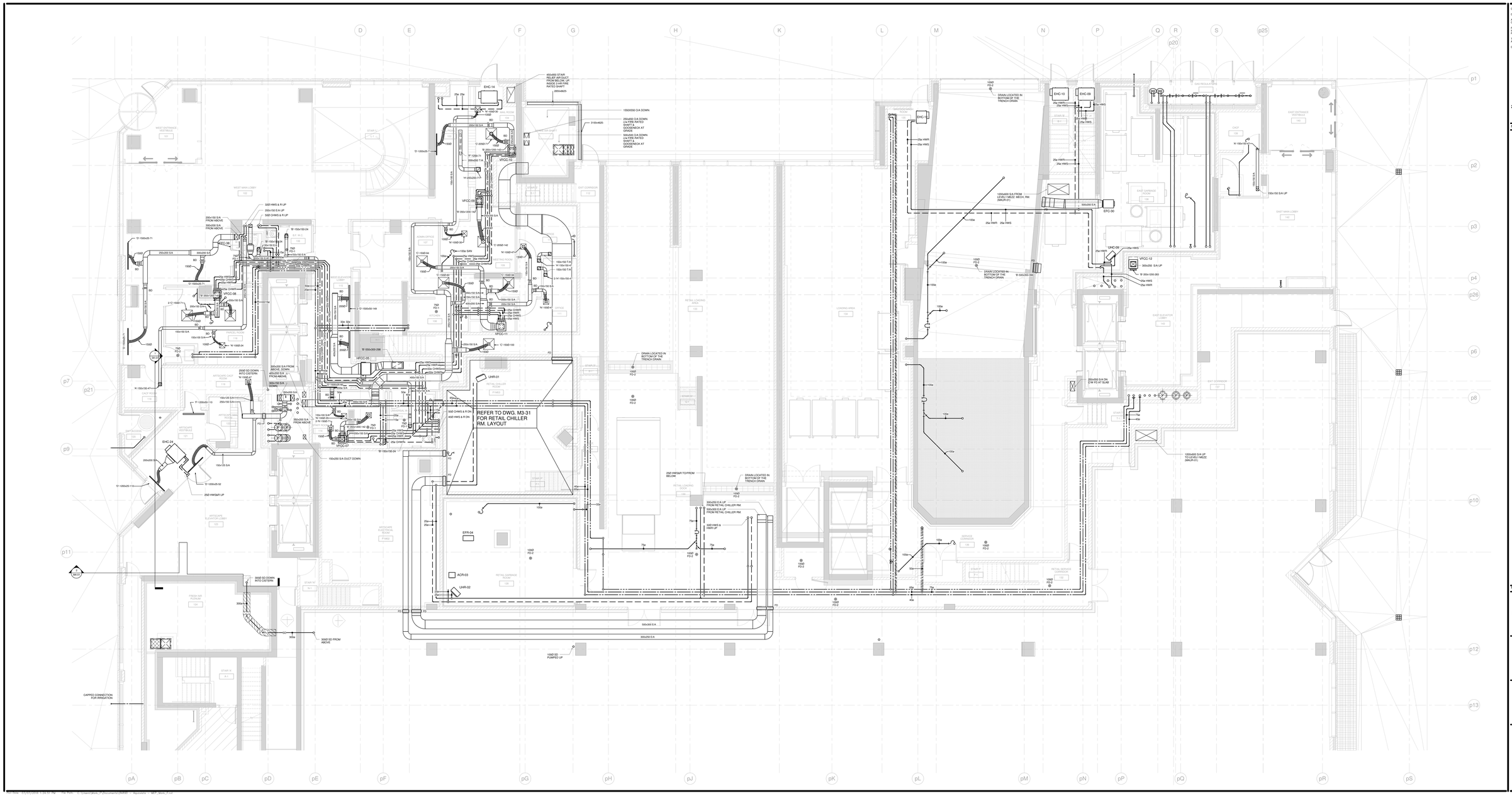
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL P1 AMENITY - ENLARGED PLANS

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

Scale	1 : 50
Drawn by	M.D.
Checked by	Checker
Project No.	8489D
Date	10/14/15
Drawing No.	M1-03

N



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REGISTERED PROFESSIONAL ENGINEER
D. C. M. BELLAMY
PROVINCE OF ONTARIO

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Dauphin Kitchener Trail Sarnia

No.	Revision	Date
1	ADD M-001	2015-03-06
2	ISSUED FOR ADD E-001	2015-10-16
3	ISSUED FOR ADD M-002	2016/06/06

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-12-16
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IMT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 1 FLOOR PLAN
NORTH - MECHANICAL

Project

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

Scale: 1 : 50

Drawn by: Author

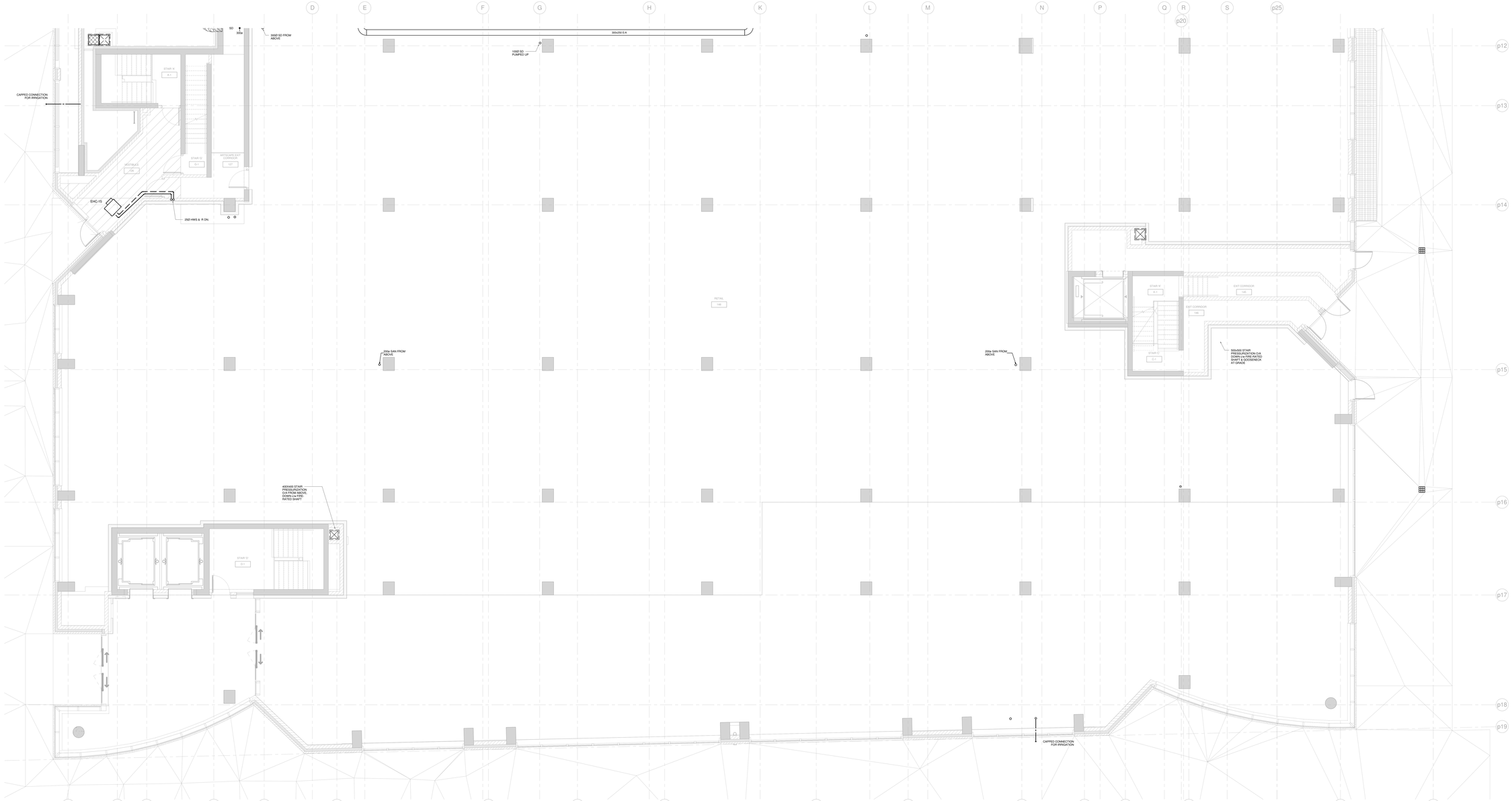
Checked by: Checker

Project No: 8489D

Date: 03/04/15

Drawing No: M2-01A

N



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Daughtrey Rotowski Trail Saint John

No.	Revision	Date
1	ADD M-001	2015/10/26
2	ISSUED FOR ADD M-002	2016/XX/XX

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-10-16
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 1 FLOOR PLAN
SOUTH - MECHANICAL

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: 03/04/15

Drawing No: M2-01B

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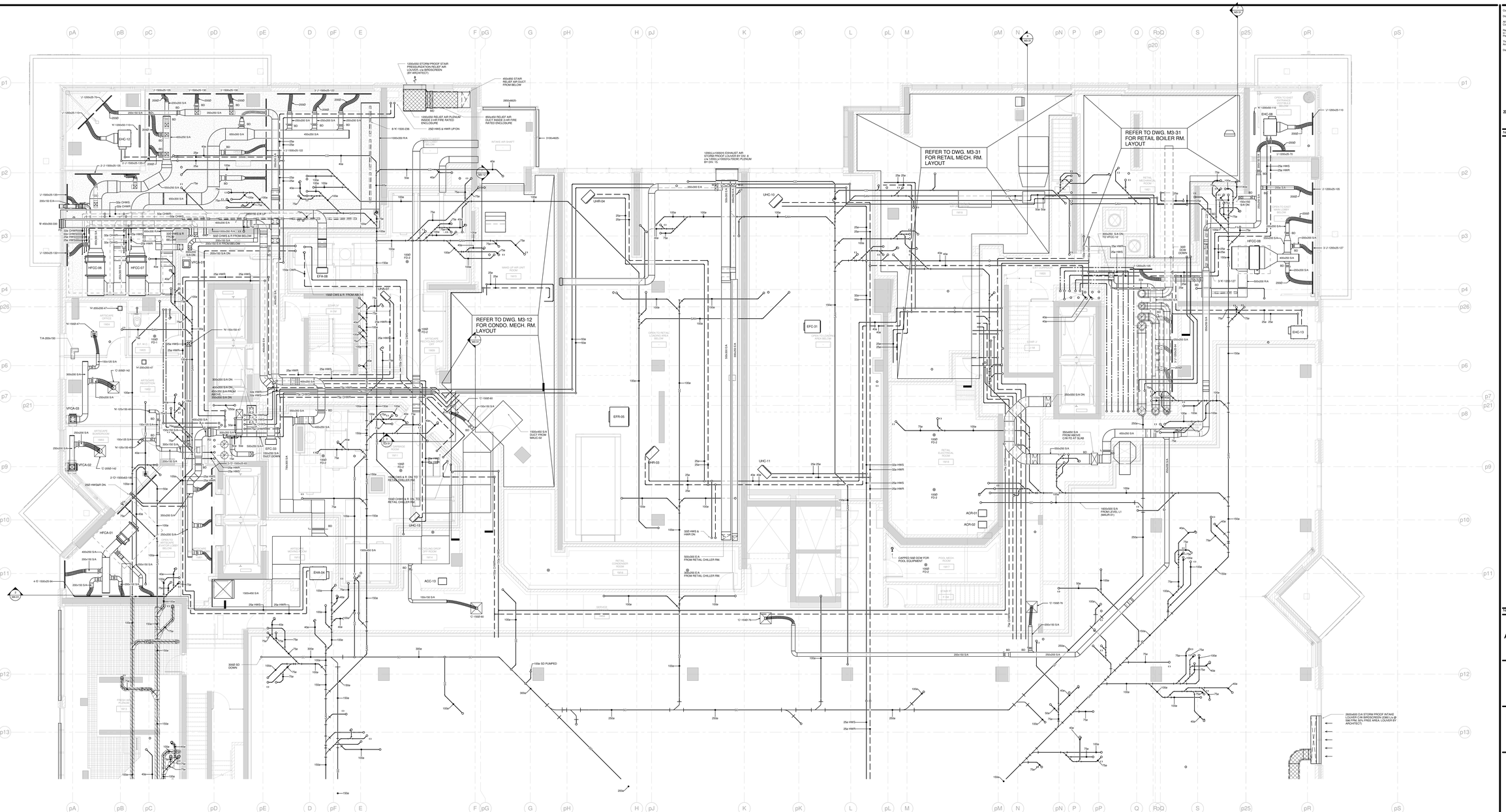

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No.	Revision	Date
4	ADD M-001	2015-12-09
2	ISSUED FOR ADD E-002	2016-01-06
3	ISSUED FOR ADD M-002	2016-06-06

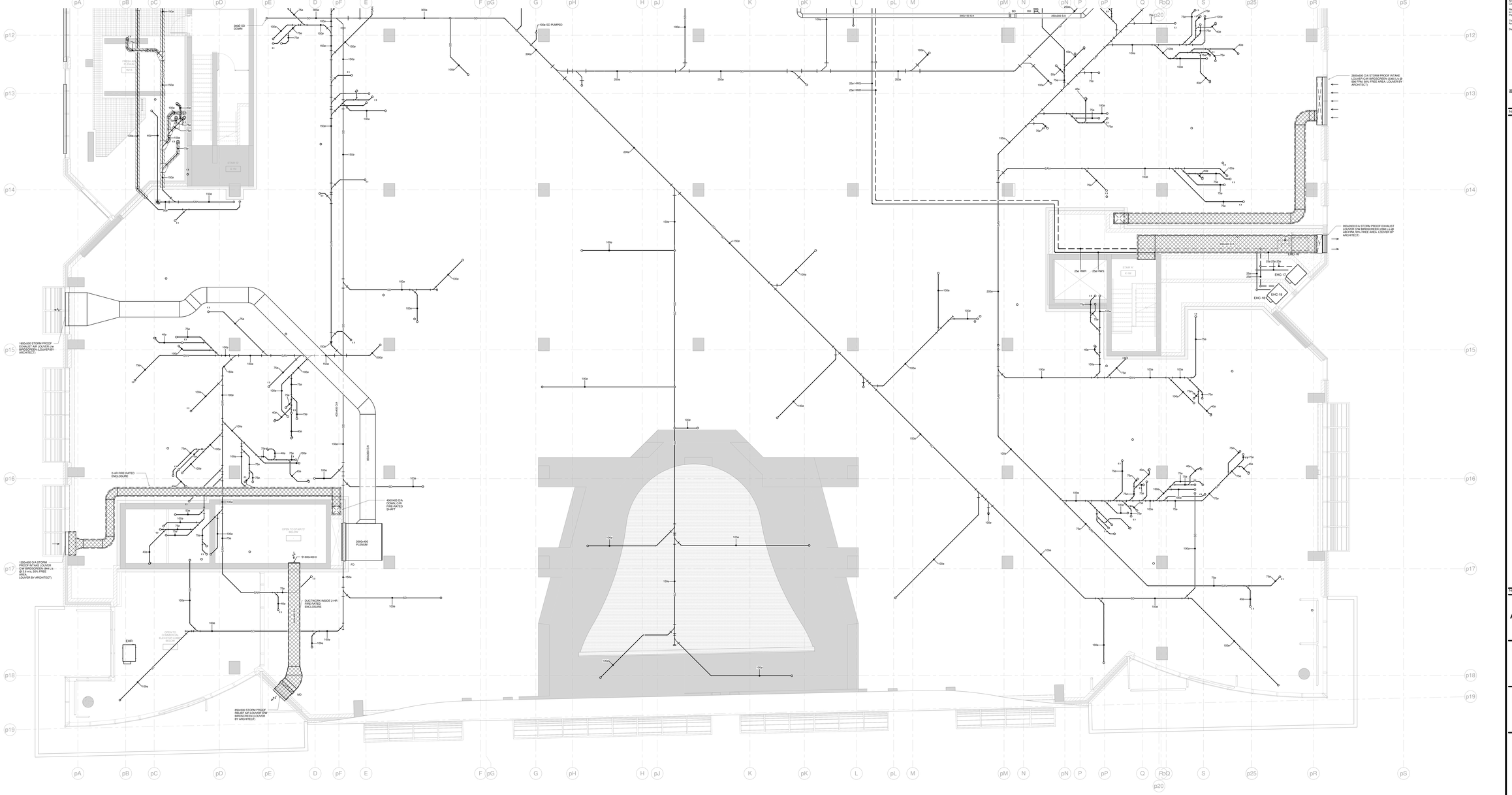
No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-12-16
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IMT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 1 MEZZANINE FLOOR PLAN NORTH MECHANICAL

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 03/04/15
Drawing No. M2-02A



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No.	Revision	Date
1	ADD M-001	2015/10/30
2	ISSUED FOR ADD M-002	2016/XX/XX

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-12-15
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 1 MEZZANINE
FLOOR PLAN SOUTH
MECHANICAL

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	03/04/15
Drawing No.	M2-02B

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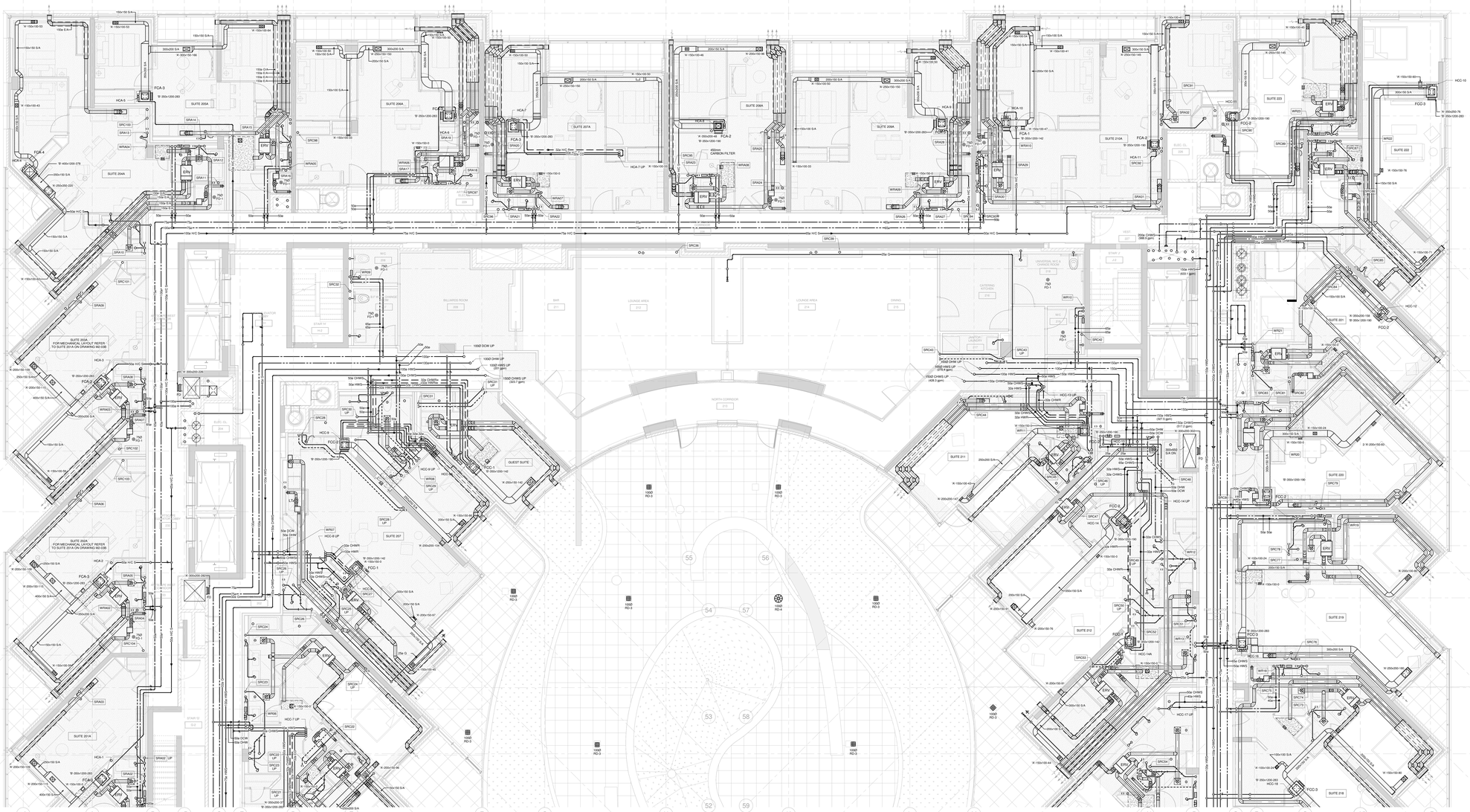

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No.	Revision	Date

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-10-16
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IFC REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 2 FLOOR PLAN
NORTH - MECHANICAL

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 03/04/15
Drawing No. M2-03A

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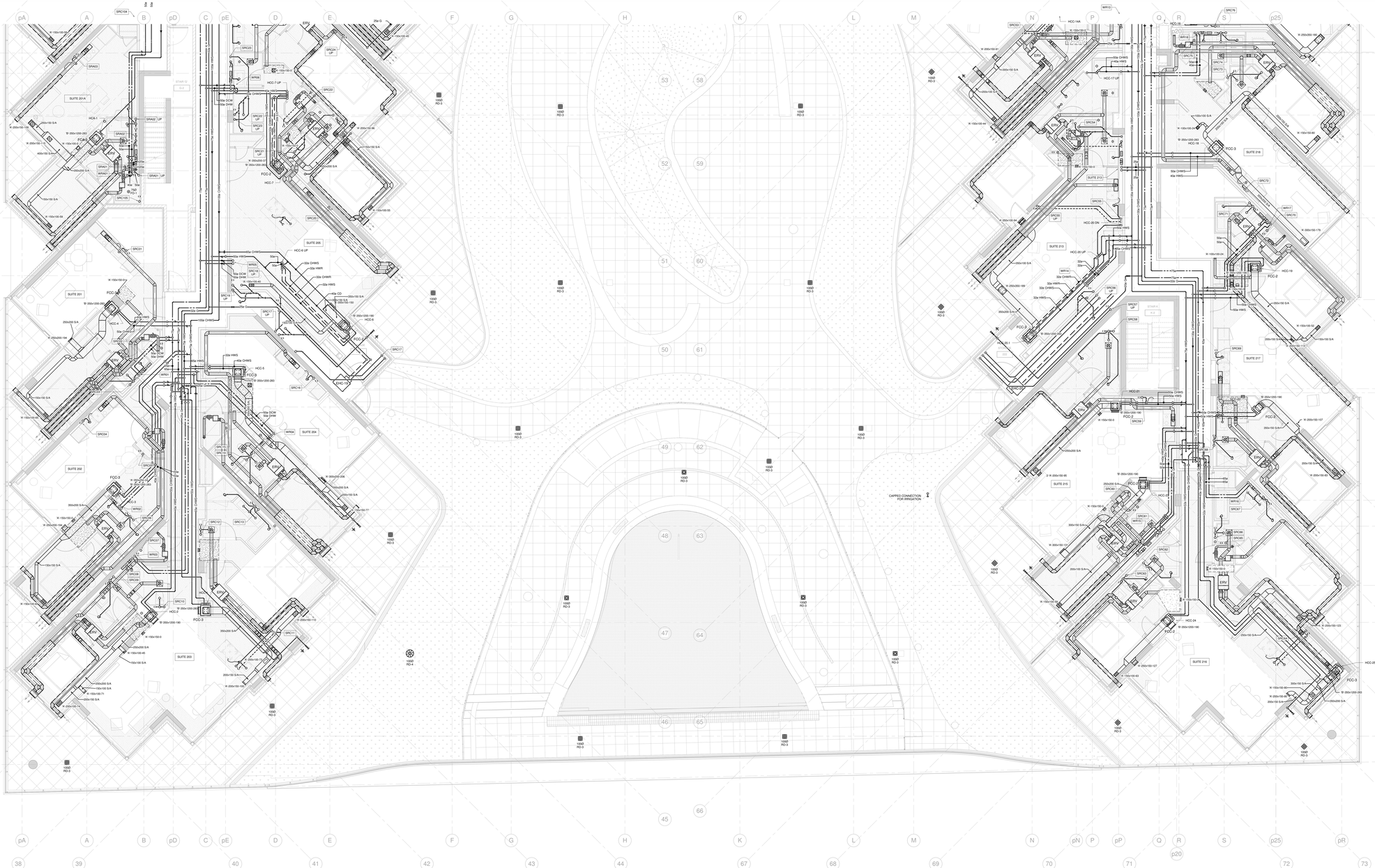

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No.	Revision	Date
1	ADD M-001	2015/10/30

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-10-16
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IFT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

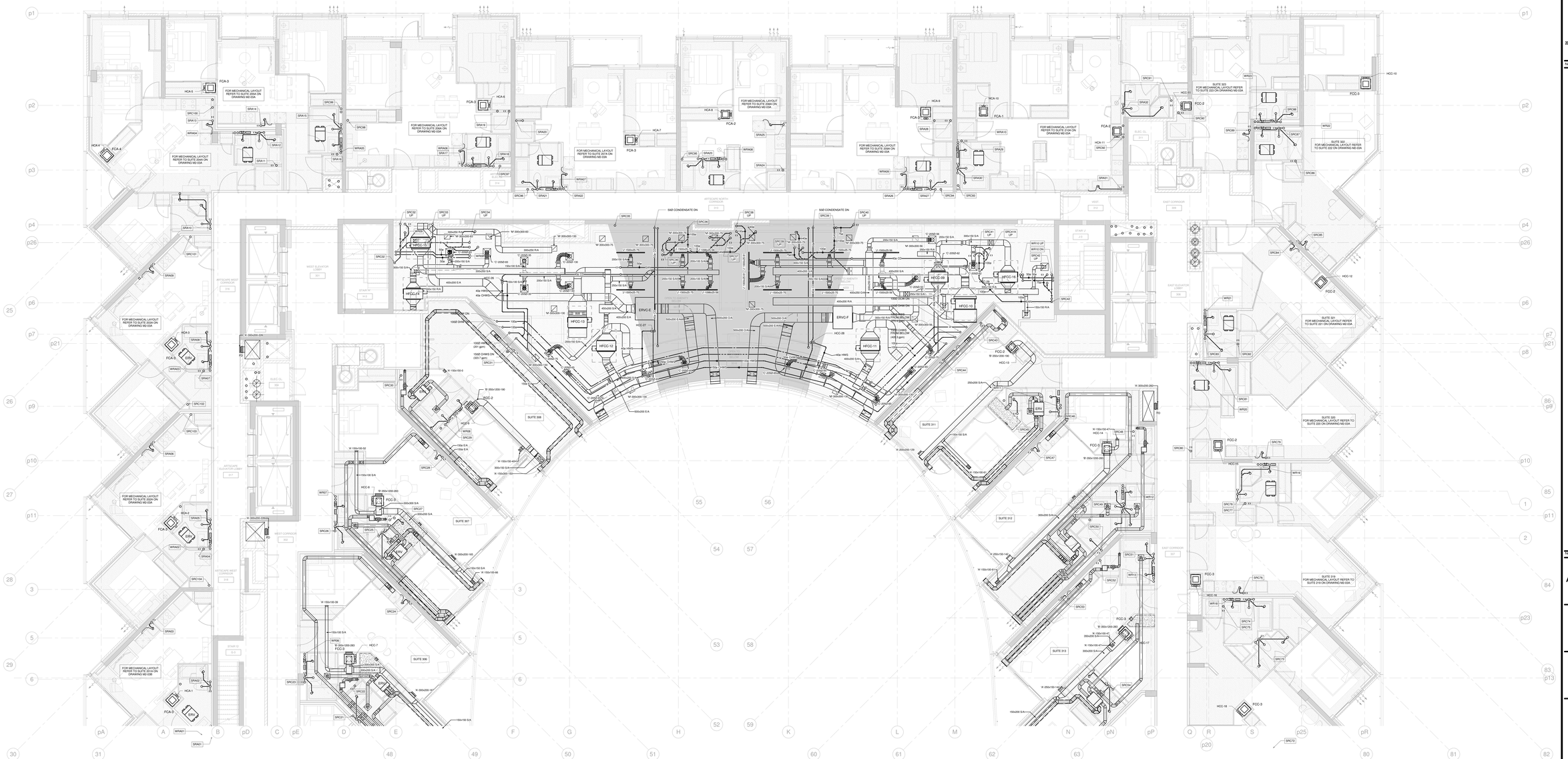
Drawing Title

LEVEL 2 FLOOR PLAN
SOUTH - MECHANICAL

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	03/04/15
Drawing No.	M2-03B



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No.	Revision	Date
1	ADD M-001	2015/10/26
2	ISSUED FOR ADD M-002	2016/XX/XX

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-10-16
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

AQUAVISTA

AT BAYSIDE TORONTO

Drawing Title

LEVEL 3 FLOOR PLAN
NORTH - MECHANICAL

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: 03/04/15

Drawing No: M2-04A

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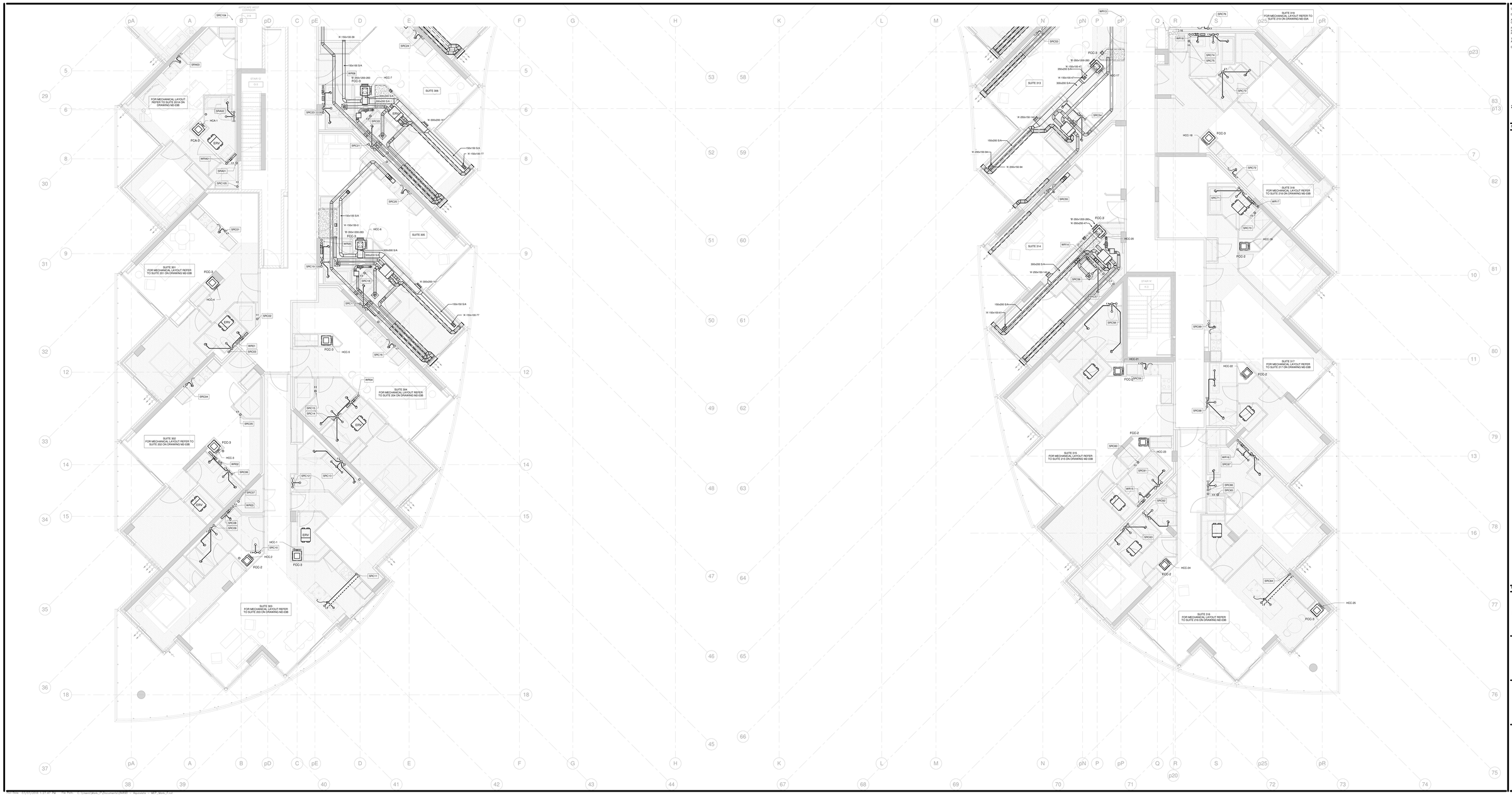

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No.	Revision	Date

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-10-15
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IAT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 3 FLOOR PLAN
SOUTH - MECHANICAL

Project

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

Scale: 1 : 50

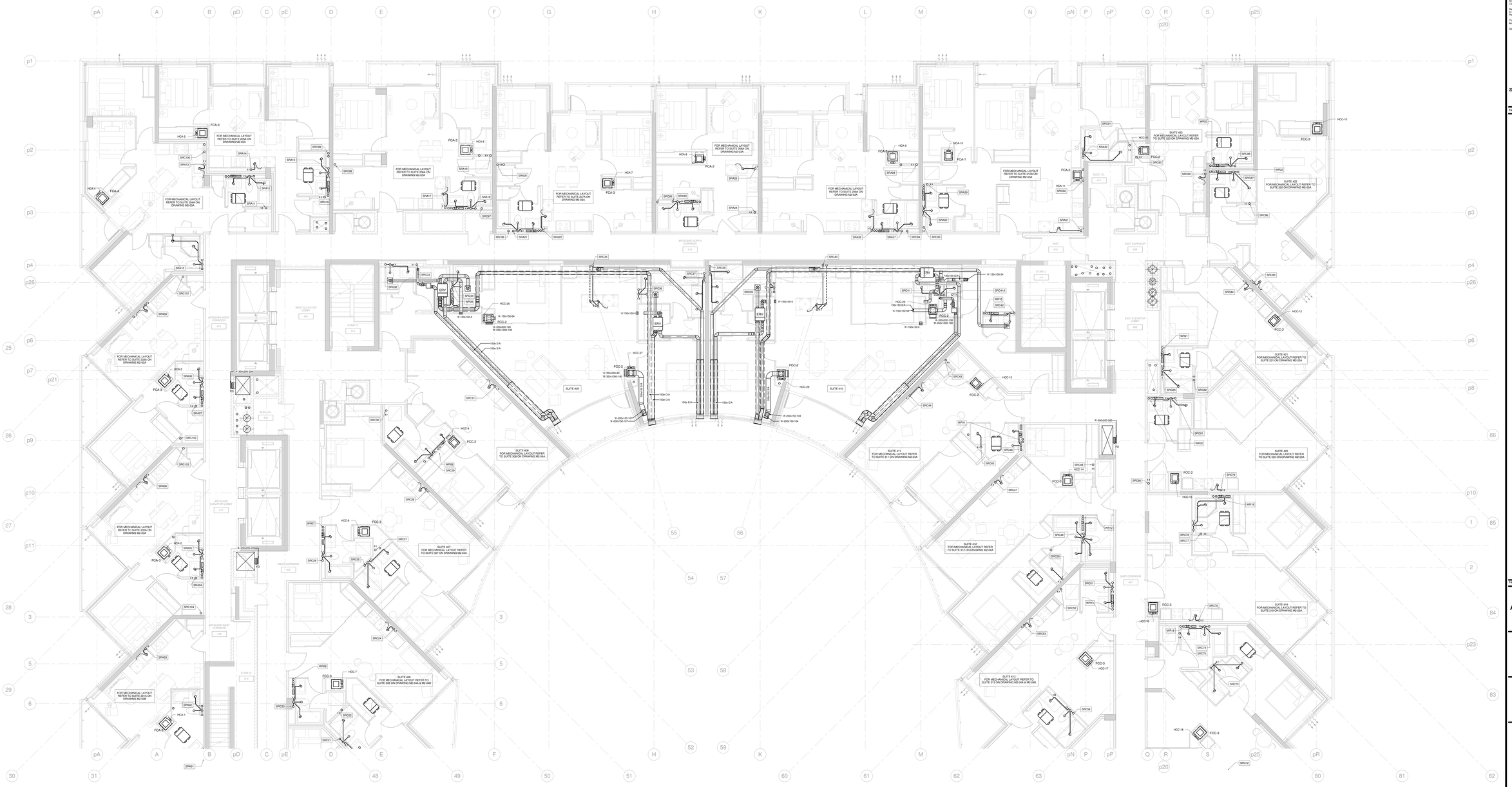
Drawn by: Author

Checked by: Checker

Project No: 8489D

Date: 03/04/15

Drawing No: M2-04B



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Dauphin Kelowna Trail Saint John

No.	Revision	Date
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-10-16
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 4-5 FLOOR PLAN
NORTH - MECHANICAL

Project

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

Scale: 1 : 50

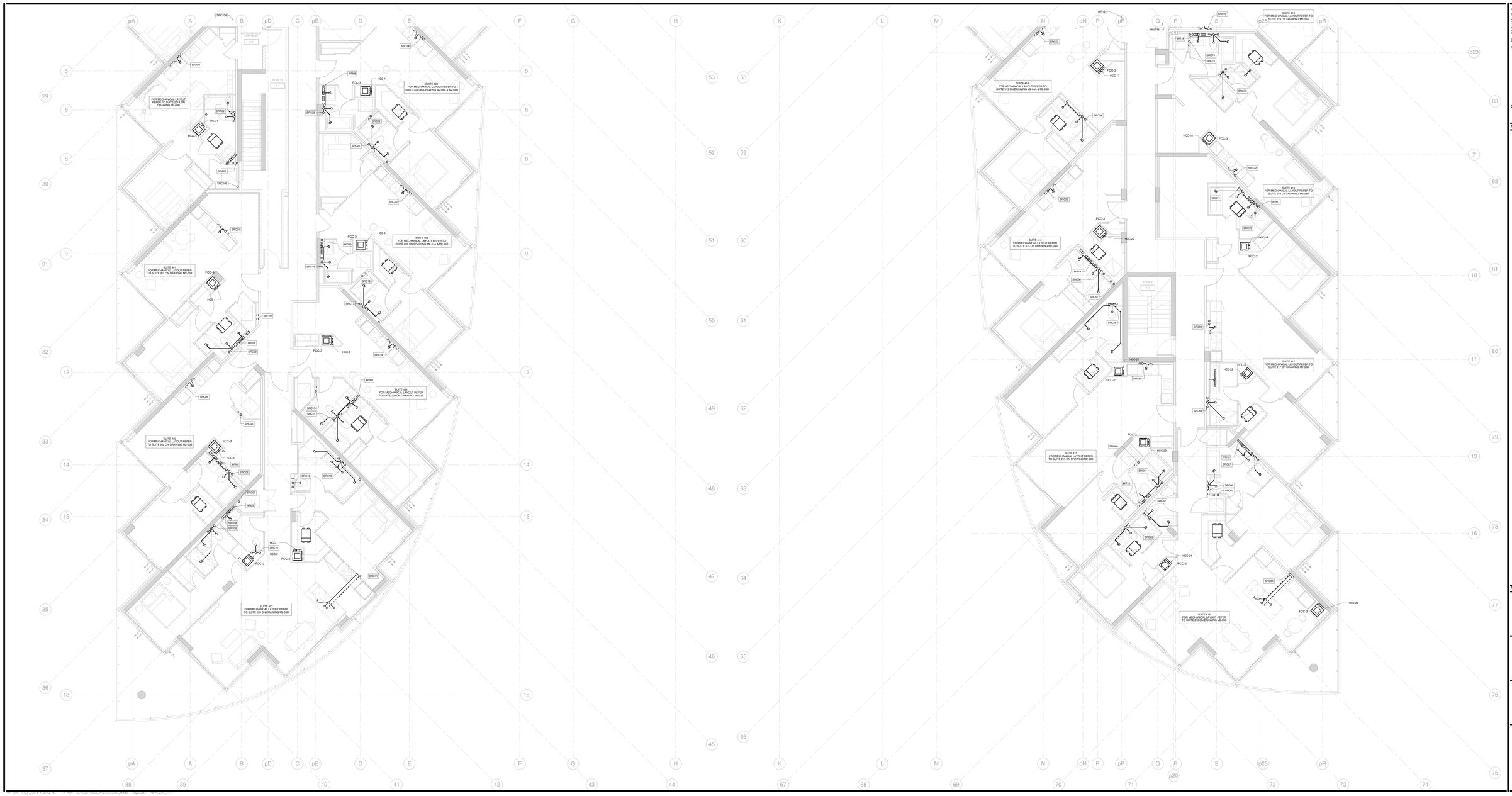
Drawn by: Author

Checked by: Checker

Project No: 8489D

Date: 03/04/15

Drawing No: M2-05A



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Toronto Vancouver Windsor Moncton Ottawa Halifax Daughtry Robbins Trail Saint John

No.	Revision	Date

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-10-16
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 4-5 FLOOR PLAN
SOUTH - MECHANICAL

Project

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

Scale: 1 : 50

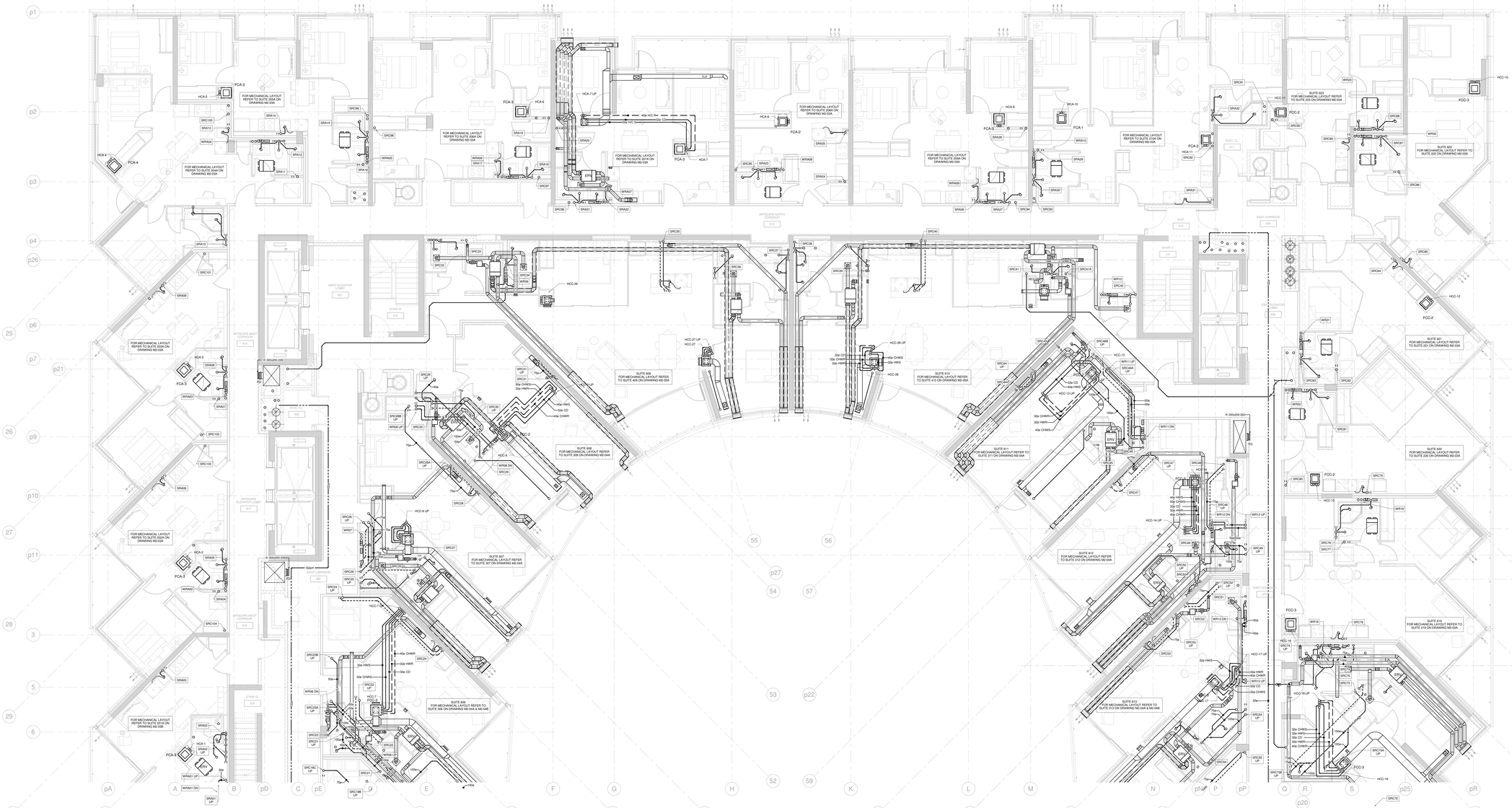
Drawn by: Author

Checked by: Checker

Project No: 8489D

Date: 03/04/15

Drawing No: M2-05B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FOR MECHANICAL LAYOUT REFER TO SUITE 208A ON DRAWING M2-05A
FOR MECHANICAL LAYOUT REFER TO SUITE 208B ON DRAWING M2-05A
FOR MECHANICAL LAYOUT REFER TO SUITE 207B ON DRAWING M2-05B
SUITE 623 FOR MECHANICAL LAYOUT REFER TO SUITE 623 ON DRAWING M2-05A
SUITE 620 FOR MECHANICAL LAYOUT REFER TO SUITE 620 ON DRAWING M2-05A
SUITE 621 FOR MECHANICAL LAYOUT REFER TO SUITE 221 ON DRAWING M2-05A
SUITE 609 FOR MECHANICAL LAYOUT REFER TO SUITE 409 ON DRAWING M2-05A
SUITE 610 FOR MECHANICAL LAYOUT REFER TO SUITE 410 ON DRAWING M2-05A
SUITE 608 FOR MECHANICAL LAYOUT REFER TO SUITE 208 ON DRAWING M2-04A
SUITE 611 FOR MECHANICAL LAYOUT REFER TO SUITE 211 ON DRAWING M2-04A
SUITE 609 FOR MECHANICAL LAYOUT REFER TO SUITE 209 ON DRAWING M2-05A
SUITE 607 FOR MECHANICAL LAYOUT REFER TO SUITE 307 ON DRAWING M2-04A
SUITE 612 FOR MECHANICAL LAYOUT REFER TO SUITE 312 ON DRAWING M2-04A
SUITE 606 FOR MECHANICAL LAYOUT REFER TO SUITE 306 ON DRAWING M2-04A & M2-04B
SUITE 613 FOR MECHANICAL LAYOUT REFER TO SUITE 313 ON DRAWING M2-04A & M2-04B
SUITE 618 FOR MECHANICAL LAYOUT REFER TO SUITE 218 ON DRAWING M2-05A
ARTSCAPE NORTH CORRIDOR
ARTSCAPE WEST CORRIDOR
ARTSCAPE ELEVATOR LOBBY
WEST ELEVATOR LOBBY
EAST CORRIDOR
EAST ELEVATOR LOBBY
WEST CORRIDOR
STAIR 2
STAIR 12
STAIR 14
STAIR 7
STAIR 4
ELEC. CL.
ERV
FD
FO
FCA-1
FCA-2
FCA-3
FCA-4
FCC-2
FCC-3
HCA-1
HCA-2
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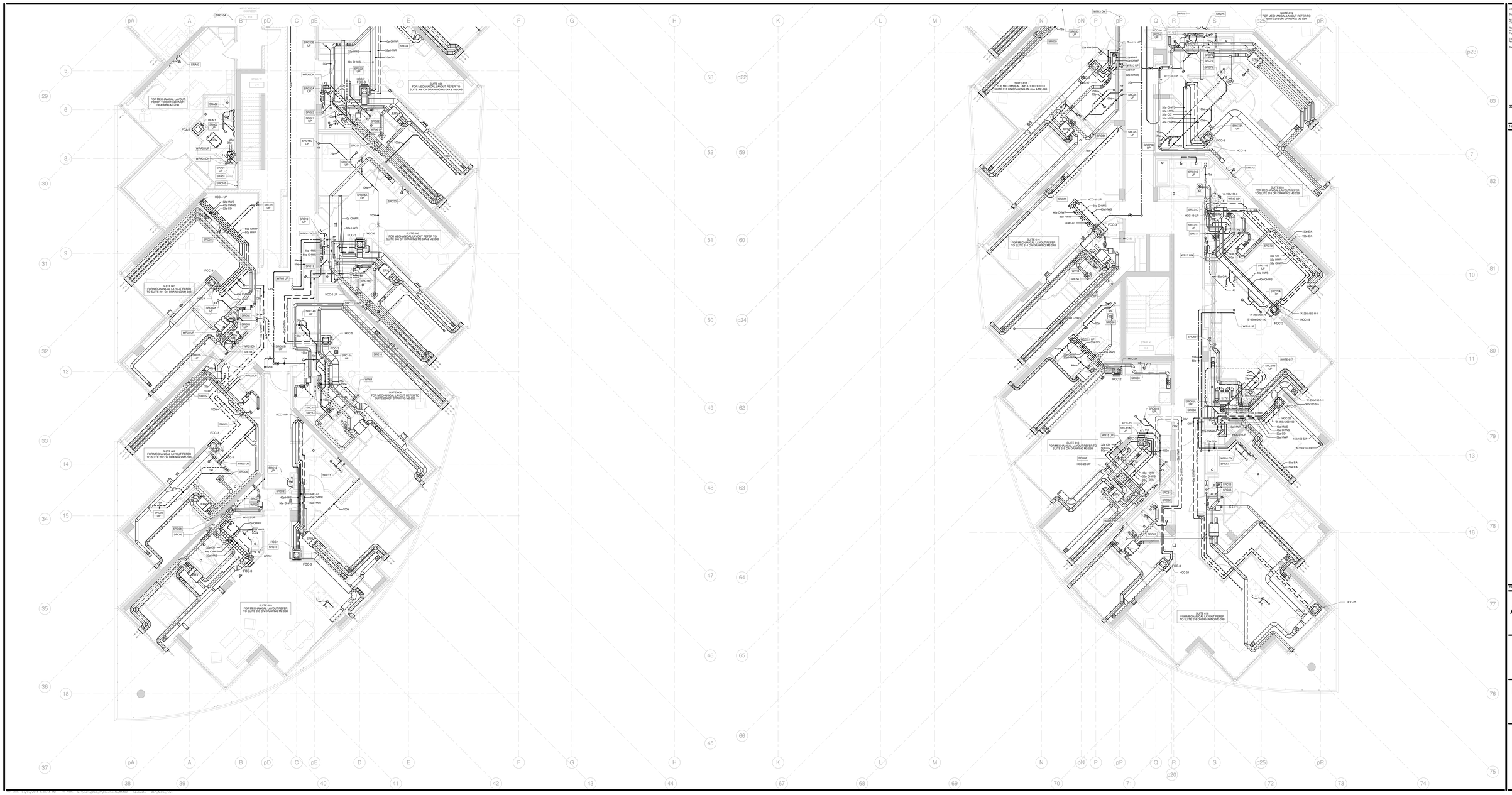
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SUITE 603
FOR MECHANICAL LAYOUT REFER TO SUITE 203 ON DRAWING M2-02B
SUITE 604
FOR MECHANICAL LAYOUT REFER TO SUITE 204 ON DRAWING M2-03B
SUITE 605
FOR MECHANICAL LAYOUT REFER TO SUITE 305 ON DRAWING M2-04A & M2-04B
SUITE 606
FOR MECHANICAL LAYOUT REFER TO SUITE 306 ON DRAWING M2-04A & M2-04B
SUITE 610
FOR MECHANICAL LAYOUT REFER TO SUITE 210 ON DRAWING M2-05A
SUITE 611
FOR MECHANICAL LAYOUT REFER TO SUITE 211 ON DRAWING M2-04A & M2-04B
SUITE 614
FOR MECHANICAL LAYOUT REFER TO SUITE 214 ON DRAWING M2-04B
SUITE 615
FOR MECHANICAL LAYOUT REFER TO SUITE 215 ON DRAWING M2-03B
SUITE 616
FOR MECHANICAL LAYOUT REFER TO SUITE 216 ON DRAWING M2-03B
SUITE 617
SUITE 618
FOR MECHANICAL LAYOUT REFER TO SUITE 218 ON DRAWING M2-03B
SUITE 619
FOR MECHANICAL LAYOUT REFER TO SUITE 219 ON DRAWING M2-05A
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FCD-3
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HCC-19
HCC-20
HCC-21
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HCC-24
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HCC-6 UP
HCC-1 UP
HCC-2 UP
HCC-4 UP
HCC-17 UP
HCC-18 UP
HCC-20 UP
HCC-21 UP
HCC-23 UP
ERV
STAIR 12
STAIR 14
STAIR 16
STAIR 17
STAIR 18
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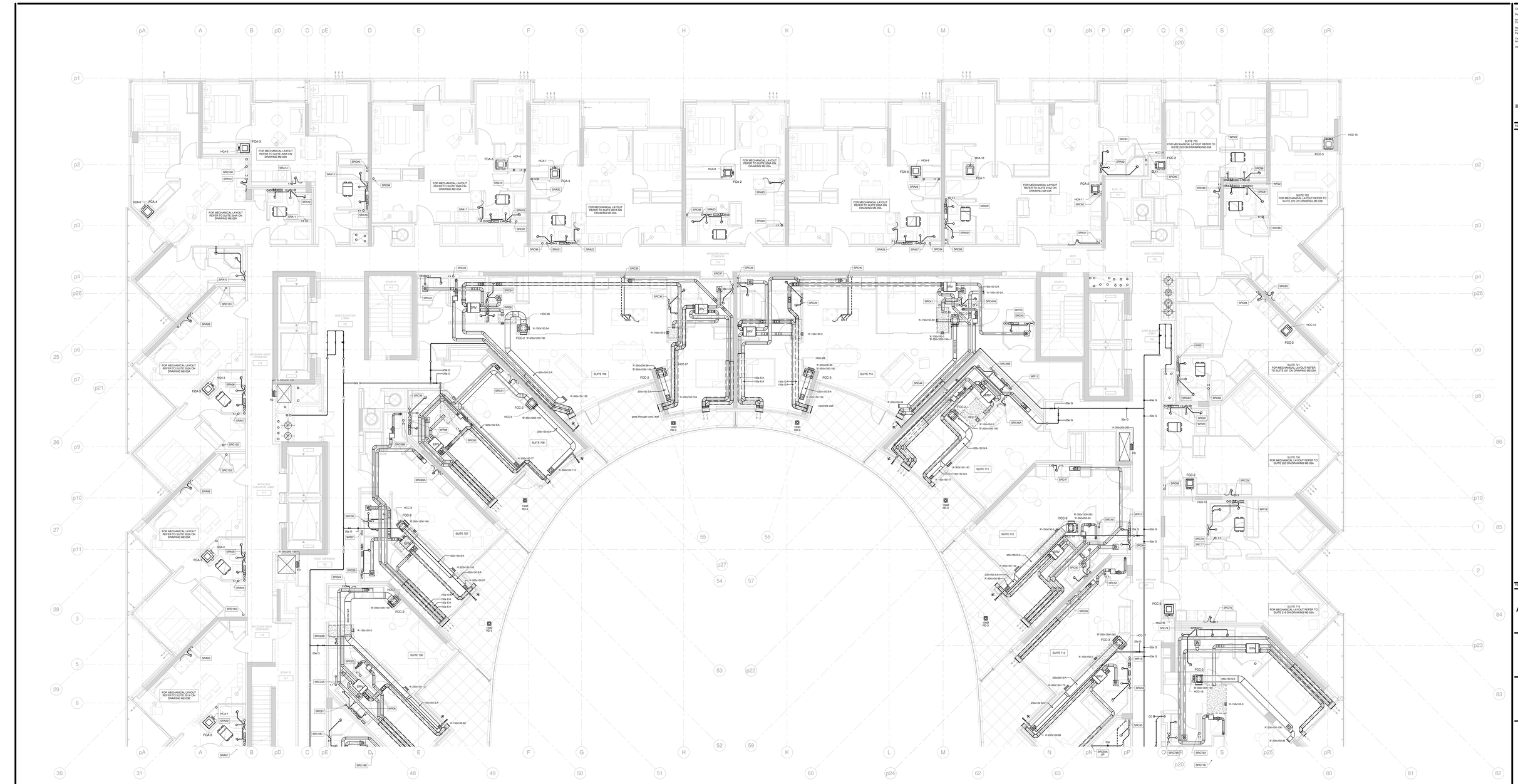
STAIR



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D. C. M. BELLAMY

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No.	Revision	Date
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-10-15
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IFT REVIEW	2015-05-01

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

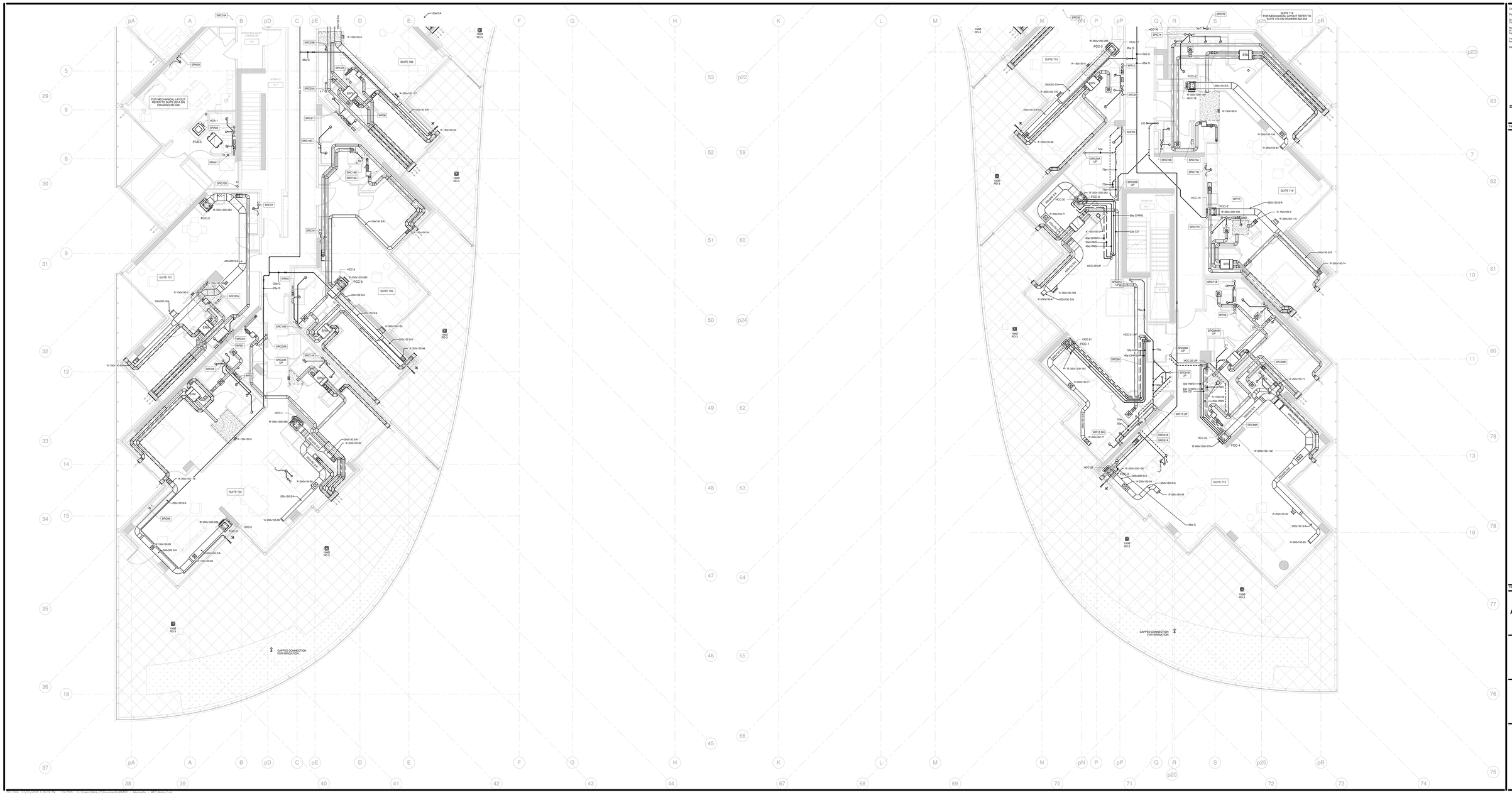
LEVEL 7 FLOOR PLAN
NORTH - MECHANICAL

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	03/04/15
Drawing No.	M2-07A

N



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No.	Revision	Date
1	ADD M-001	2015/10/30

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-12-15
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IFC REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 7 FLOOR PLAN
SOUTH - MECHANICAL

Project

Hines TRIDEL

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

Scale: 1 : 50

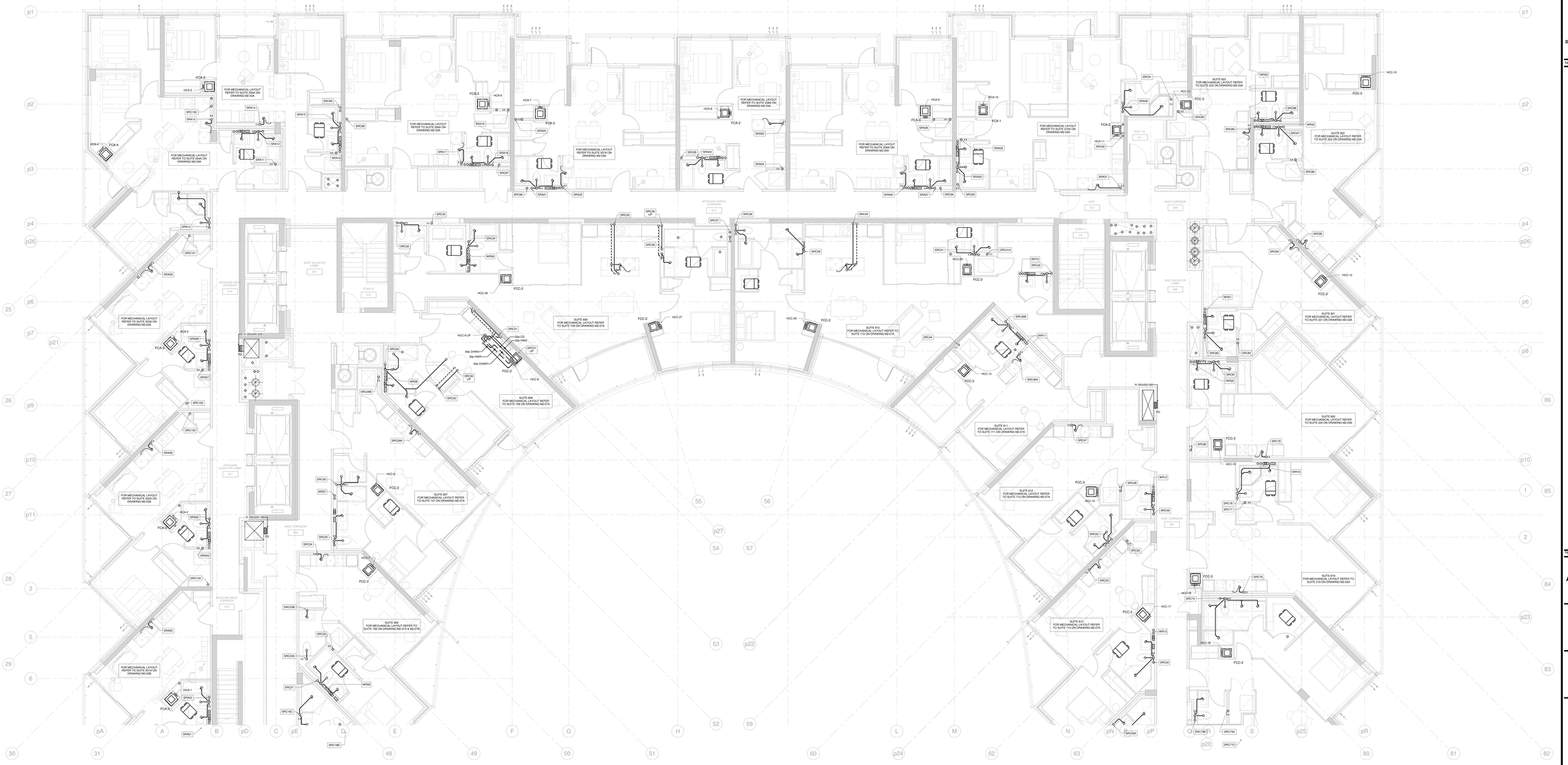
Drawn by: Author

Checked by: Checker

Project No: 8489D

Date: 03/04/15

Drawing No: M2-07B



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No.	Revision	Date

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-10-16
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 8 FLOOR PLAN
NORTH - MECHANICAL

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: 03/04/15

Drawing No: M2-08A

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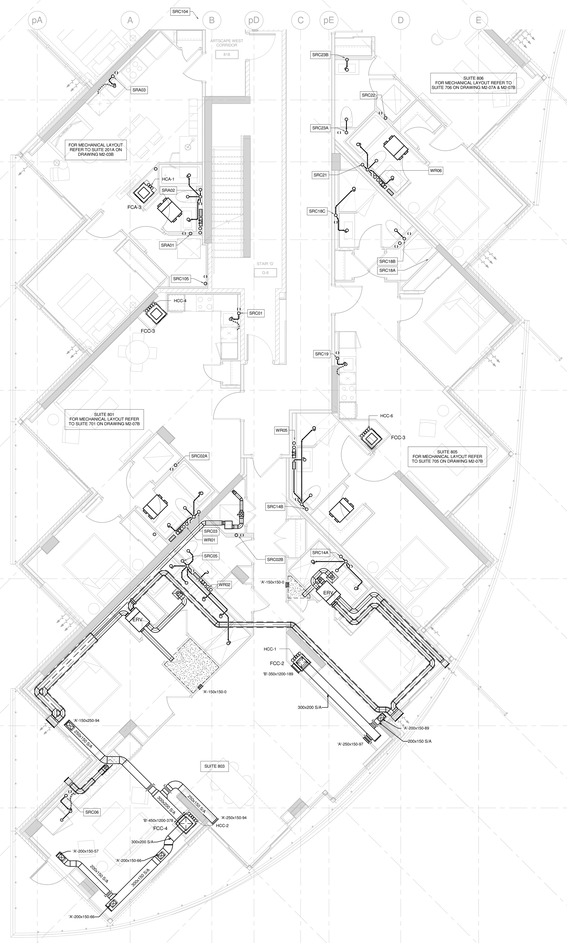

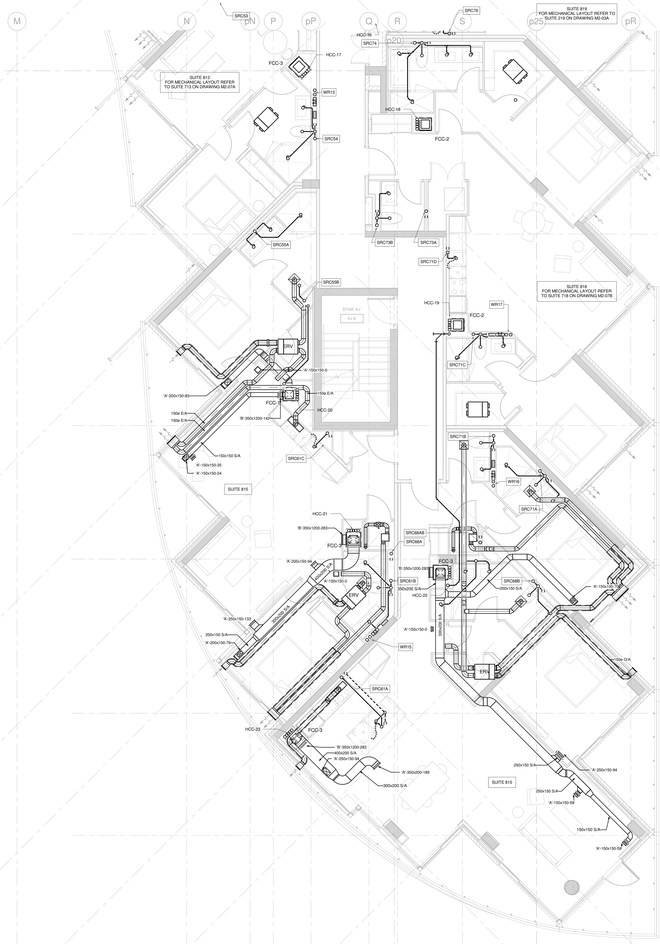

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No.	Revision	Date

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-10-15
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IFC REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 8 FLOOR PLAN
SOUTH - MECHANICAL

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: 03/04/15

Drawing No: M2-08B

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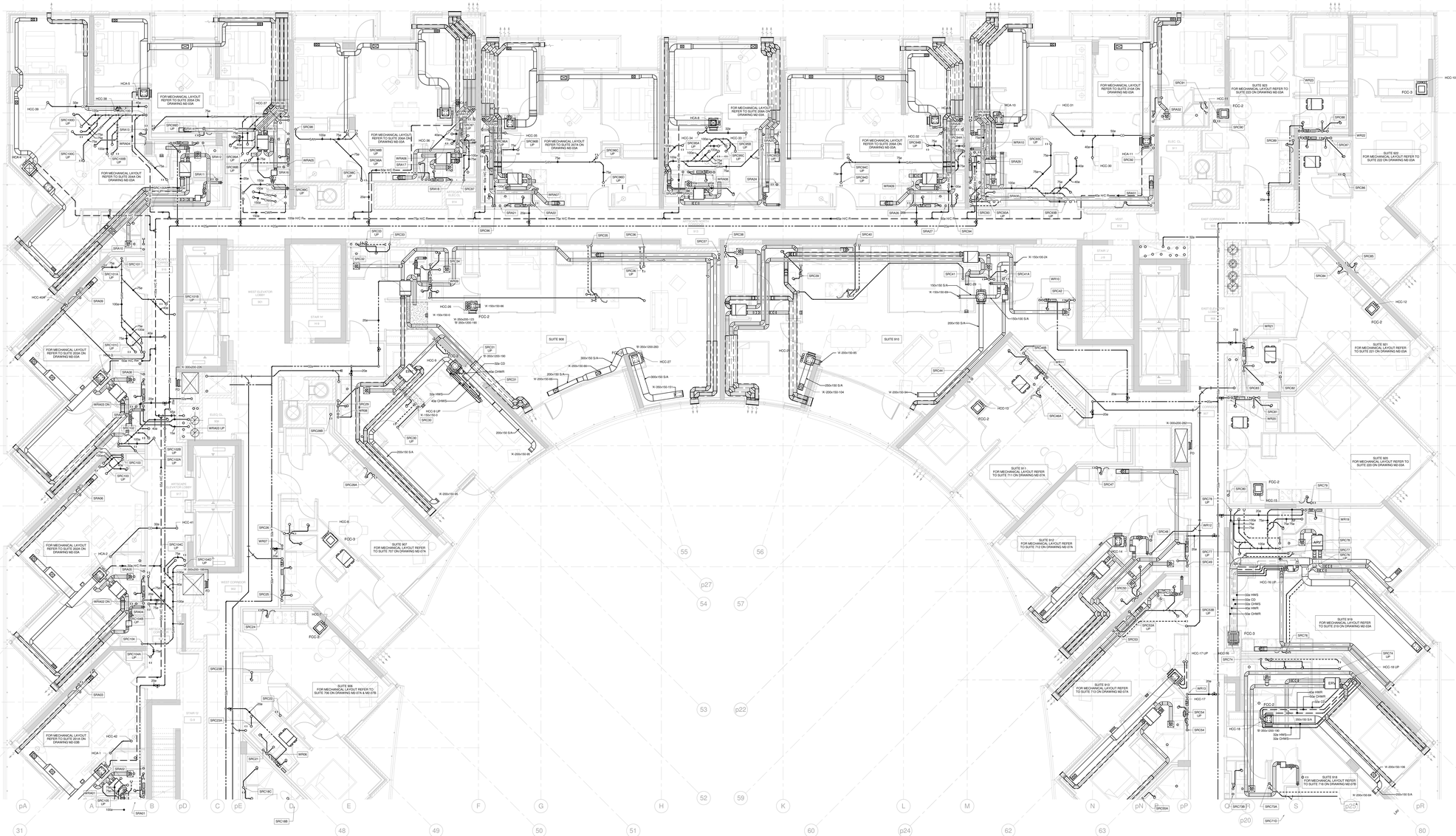

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No.	Revision	Date
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-10-15
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	INT REVIEW	2015-05-01

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 9 FLOOR PLAN
NORTH - MECHANICAL

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	03/04/15
Drawing No.	M2-09A

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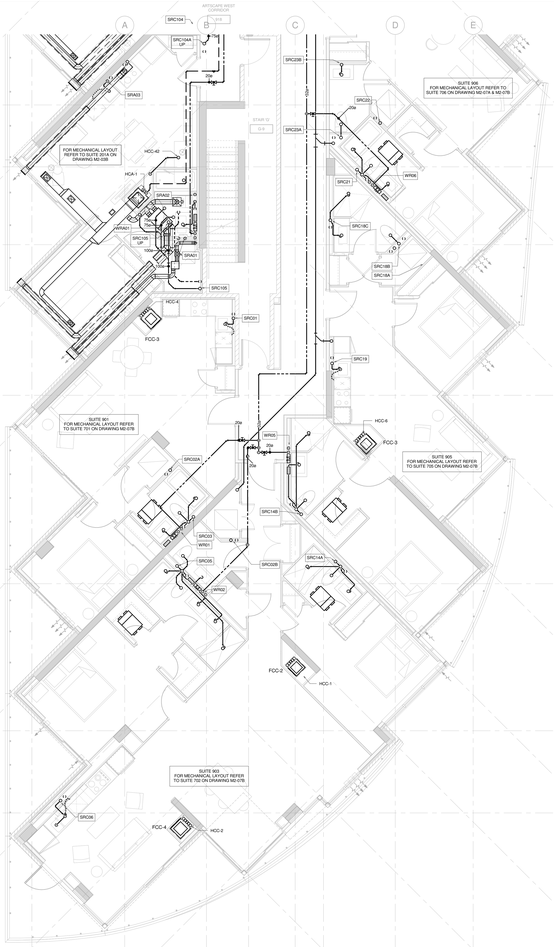

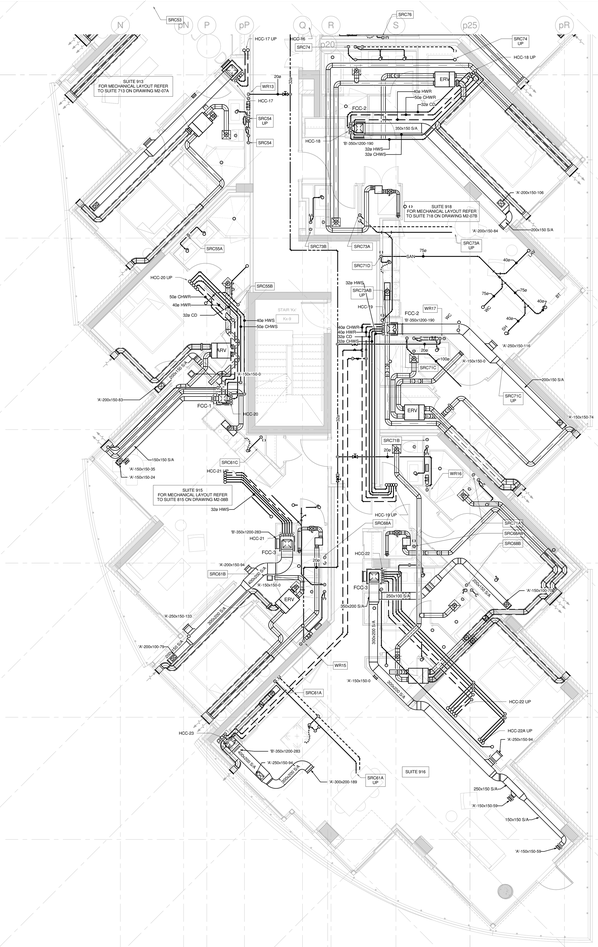

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No.	Revision	Date

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-10-15
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

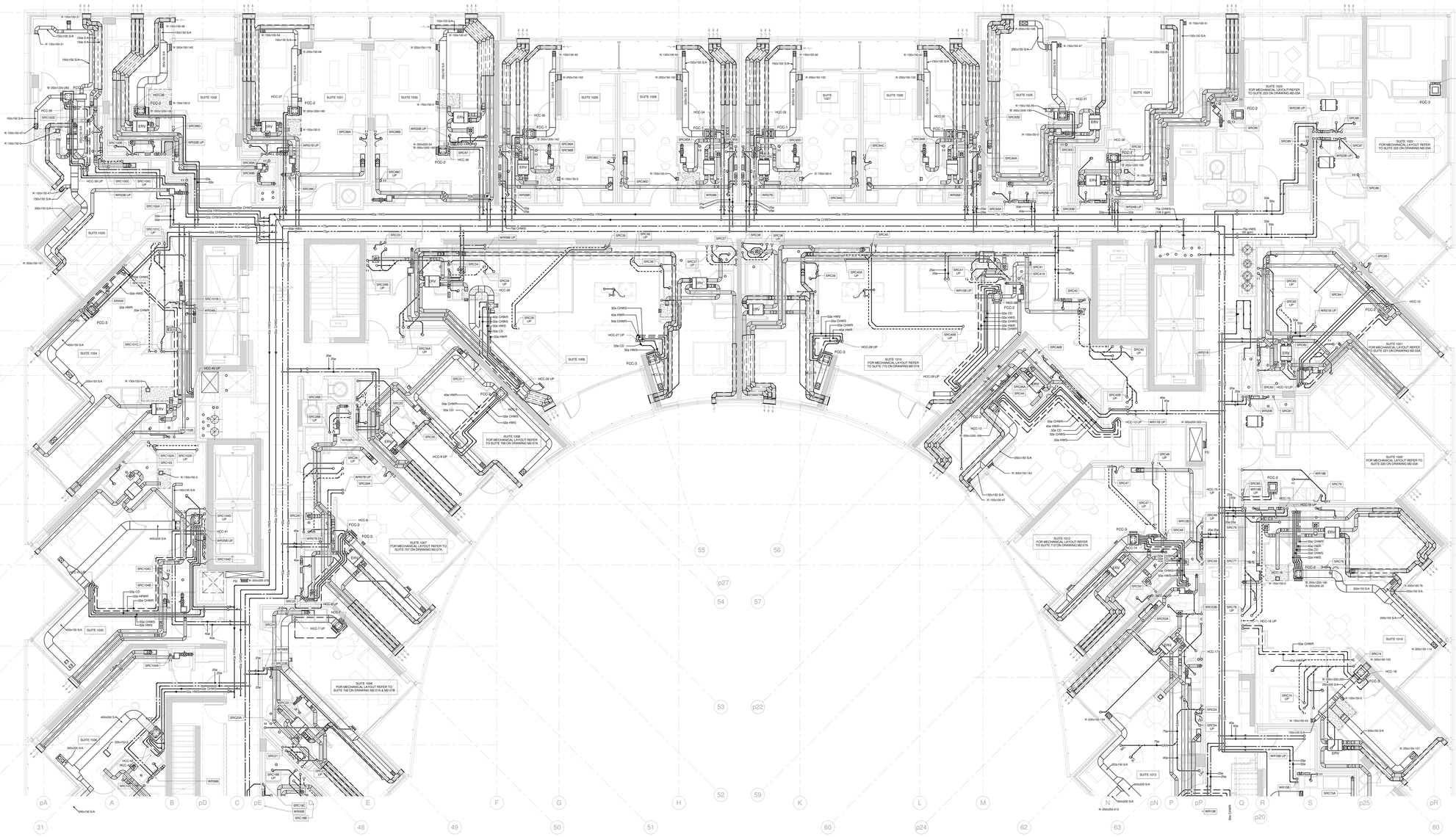
Drawing Title

LEVEL 9 FLOOR PLAN
SOUTH - MECHANICAL

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: 03/04/15
Drawing No: M2-09B



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No.	Revision	Date
1	ADD M-001	2015/10/26
2	ISSUED FOR ADD M-002	2016/XX/XX

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-10-15
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	INT REVIEW	2015-05-15

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL 10 FLOOR PLAN
NORTH - MECHANICAL

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	03/04/15
Drawing No.	M2-10A

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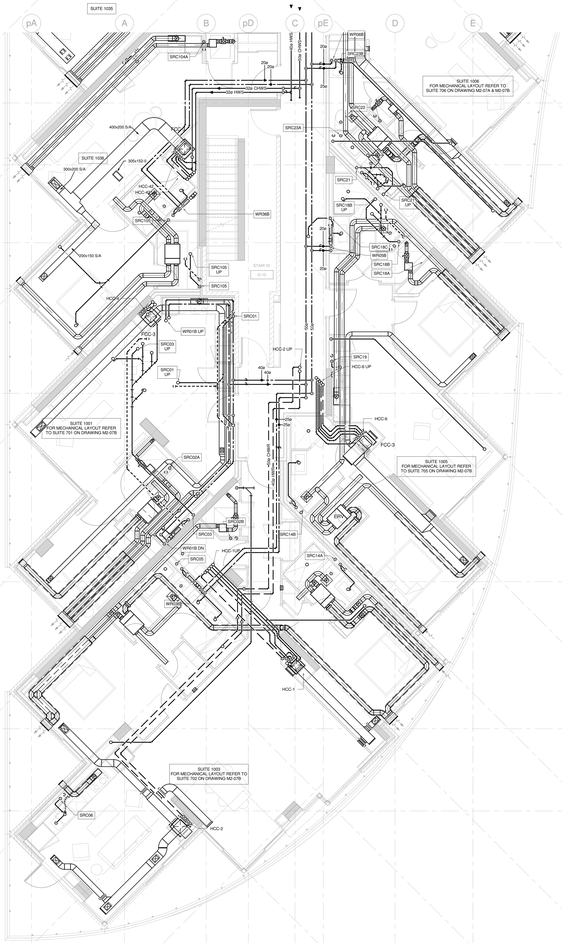
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SUITE 1006
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SUITE 1001
FOR MECHANICAL LAYOUT REFER TO SUITE 701 ON DRAWING M2-07B
SUITE 1005
FOR MECHANICAL LAYOUT REFER TO SUITE 705 ON DRAWING M2-07B
SUITE 1003
FOR MECHANICAL LAYOUT REFER TO SUITE 702 ON DRAWING M2-07B
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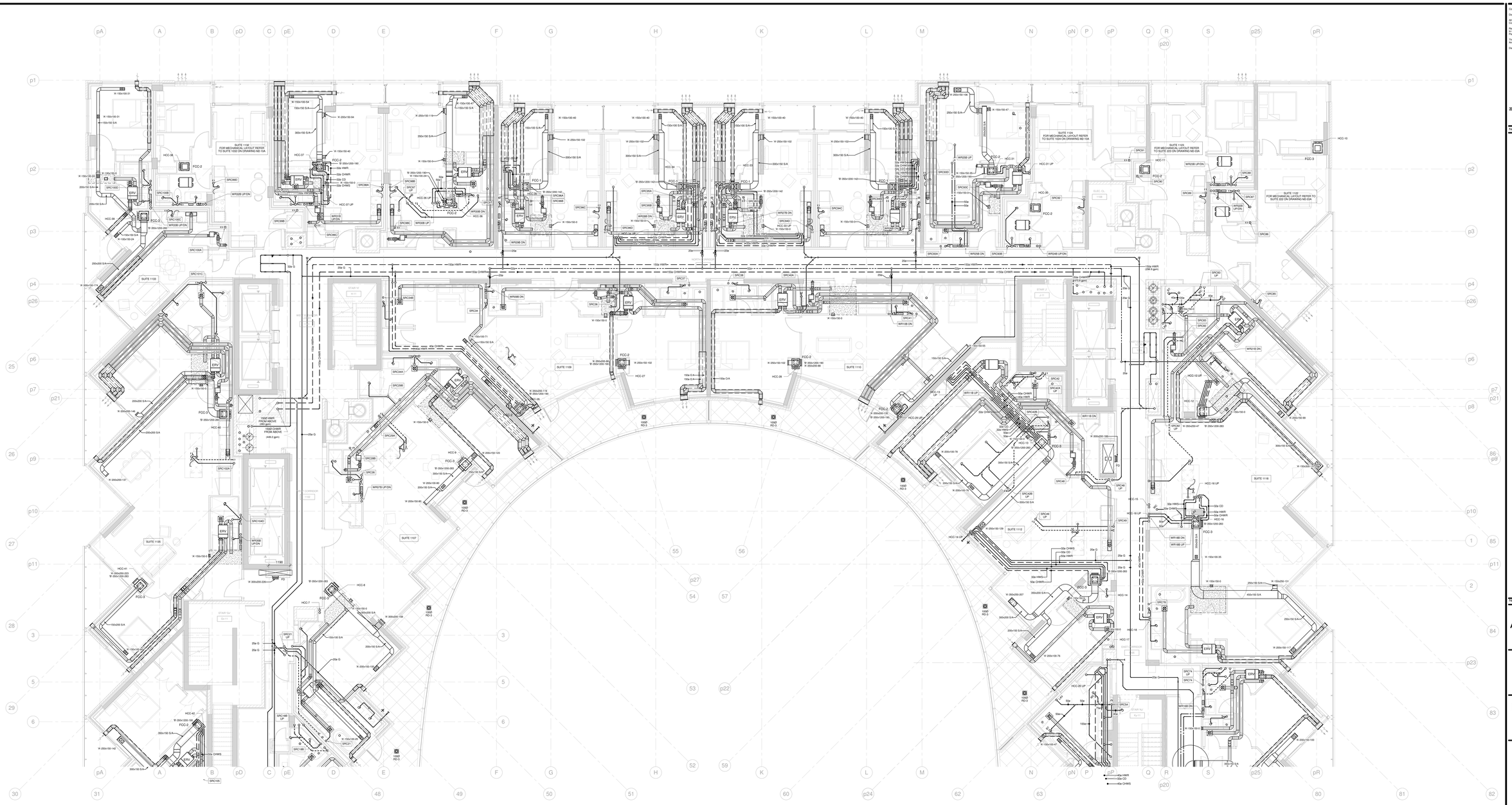

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No.	Revision	Date
1	ISSUED FOR ADD M-002	2016/XX/XX

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-10-15
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 11 FLOOR PLAN
NORTH - MECHANICAL

Project

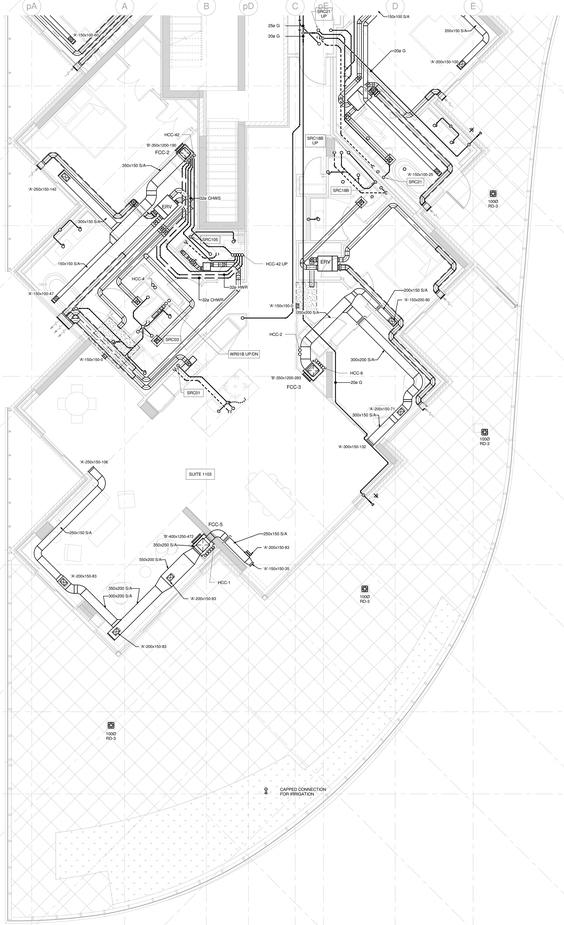
Hines TRIDEL

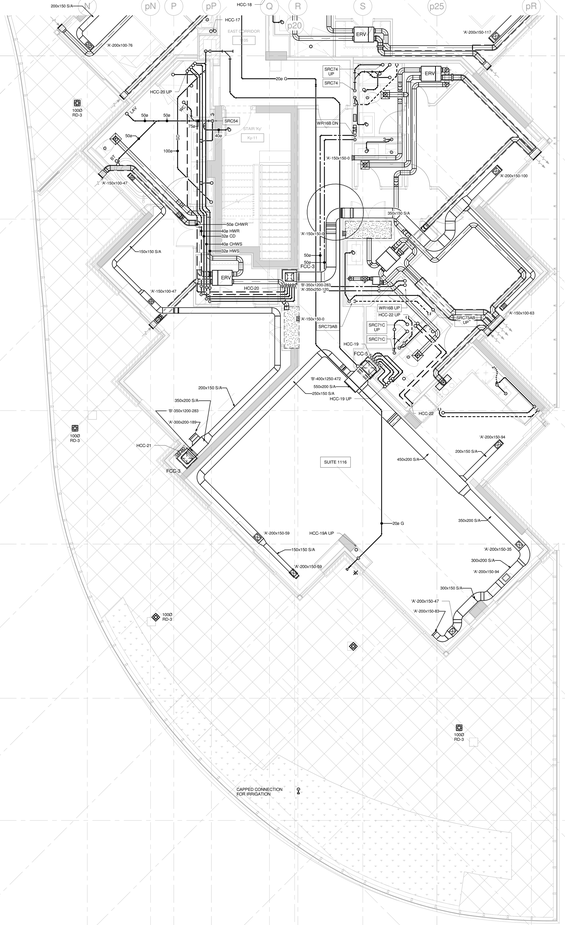
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

Scale	1 : 50
Drawn by	Author
Checked by	Checker
Project No.	8489D
Date	03/04/15

Drawing No.

M2-11A





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Toronto Vancouver Windsor Moncton Ottawa Halifax Dauphin Kelowna Trail Saint John

No.	Revision	Date
1	ADD M-001	2015-10-06
2	ISSUED FOR ADD M-002	2016/XX/XX

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-12-15
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IMT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL 11 FLOOR PLAN
SOUTH - MECHANICAL

Project

Hines TRIDEL

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

Scale: 1 : 50

Drawn by: Author

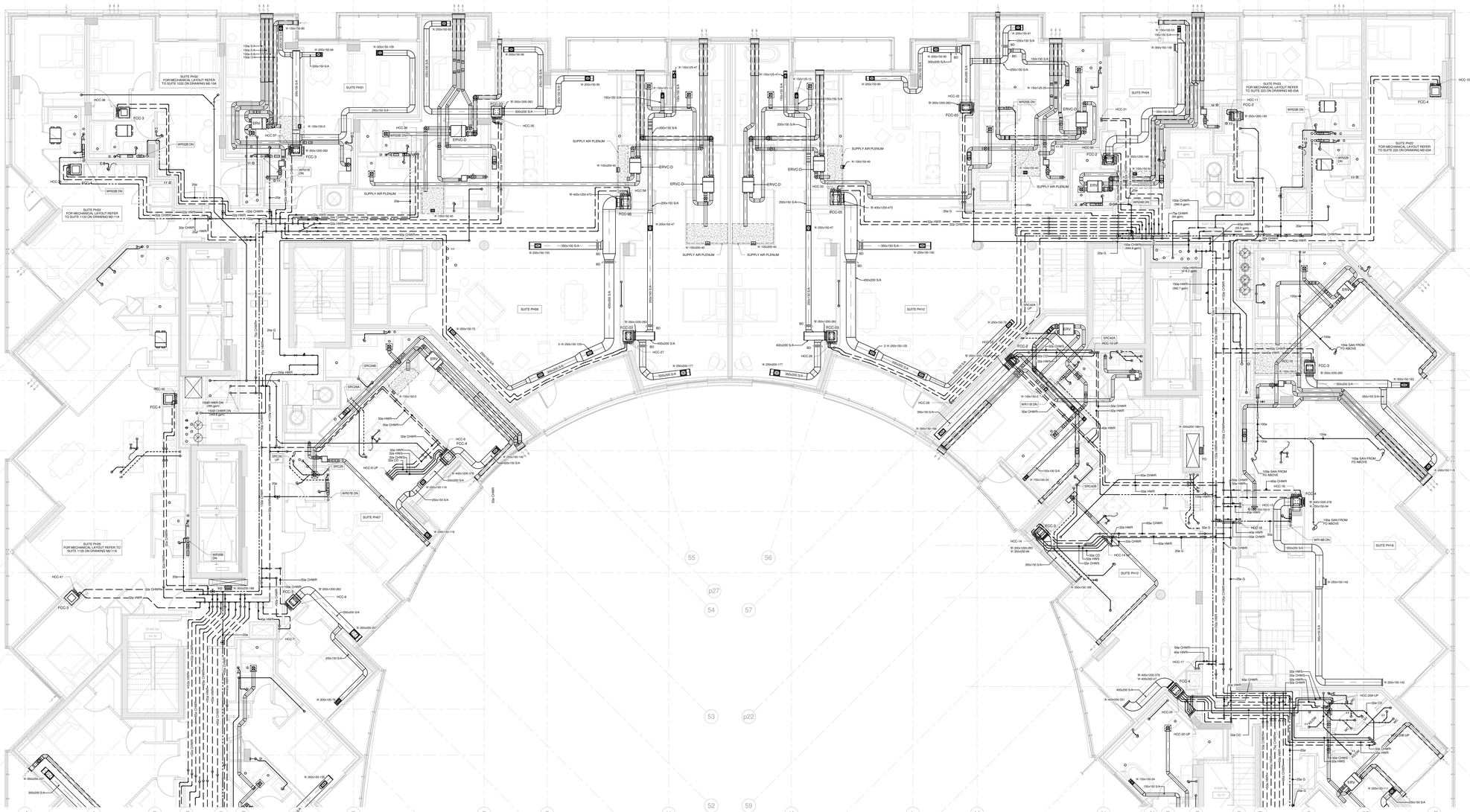
Checked by: Checker

Project No: 8489D

Date: 03/04/15

Drawing No: M2-11B

N


SUITE PH32
FOR MECHANICAL LAYOUT REFER
TO SUITE 1E02 ON DRAWING M0-10A
SUITE PH31
SUITE PH33
FOR MECHANICAL LAYOUT REFER
TO SUITE 1103 ON DRAWING M0-11A
SUITE PH35
FOR MECHANICAL LAYOUT REFER TO
SUITE 1105 ON DRAWING M0-11A
SUITE PH34
SUITE PH36
FOR MECHANICAL LAYOUT REFER
TO SUITE 2E3 ON DRAWING M0-03A
SUITE PH37
FOR MECHANICAL LAYOUT REFER
TO SUITE 2E2 ON DRAWING M0-03A
SUITE PH09
SUITE PH10
SUITE PH07
SUITE PH12
SUITE PH18
SUPPLY AIR PLENUM
ERVC-D
FCC-05
FCC-06
FCC-45
FCC-46
FCC-3
FCC-4
FCC-2
HCC-10
HCC-11
HCC-12
HCC-13
HCC-14
HCC-15
HCC-16
HCC-17
HCC-18
HCC-19
HCC-20
HCC-20 UP
HCC-20A UP
HCC-20A CP
HCC-27
HCC-28
HCC-29
HCC-31
HCC-32
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HCC-34
HCC-35
HCC-36
HCC-37
HCC-38
HCC-40
HCC-41
HCC-6
HCC-7
HCC-8
HCC-9
HCC-9 UP
ERV
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SRC26B
SRC26C
SRC26D
SRC26E
SRC26F
SRC26G
SRC26H
SRC26A UP
SRC26B UP
SRC26C UP
SRC26D UP
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(382 gpm)
1500 CHWR DN
(382 gpm)
STAIR 04
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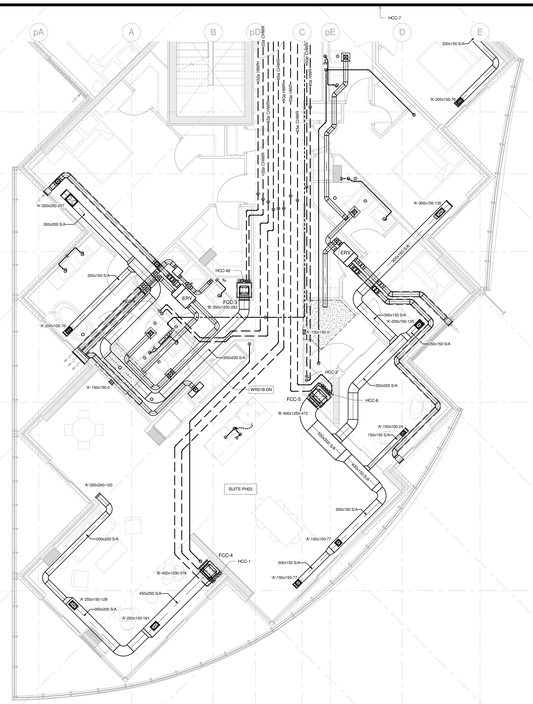
STAIR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K-200x150-142
K-200x150-101
300x200 S/A
200x150 S/A
HCC-42
FCC-3
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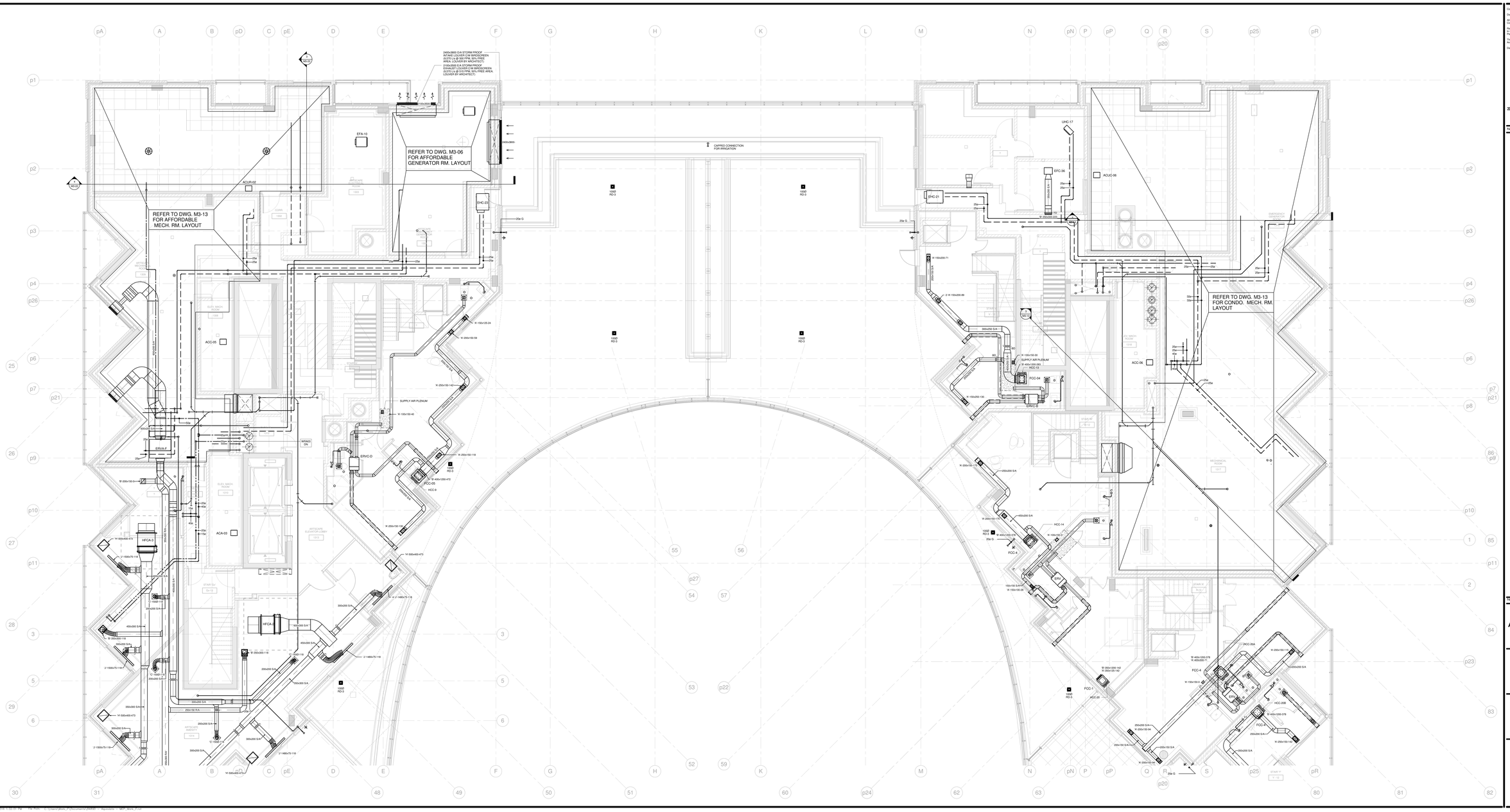

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No.	Revision	Date
1	ADD M-001	2015/10/26
2	ISSUED FOR ADD M-002	2016/XX/XX
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-10-16
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	INT REVIEW	2015-05-01

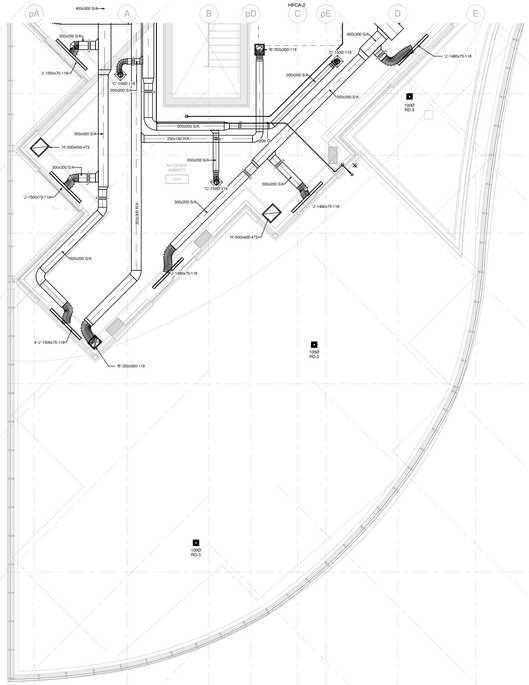
No.	Issued For	Date

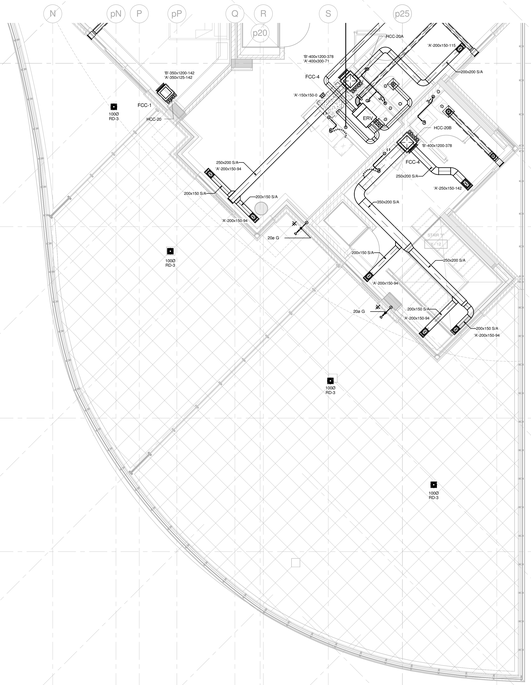
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
LEVEL PH2 FLOOR PLAN
NORTH - MECHANICAL

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 03/04/15
Drawing No. M2-13A





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No.	Revision	Date
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4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-10-15
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

LEVEL PH2 FLOOR PLAN
SOUTH - MECHANICAL

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	03/04/15
Drawing No.	M2-13B

N

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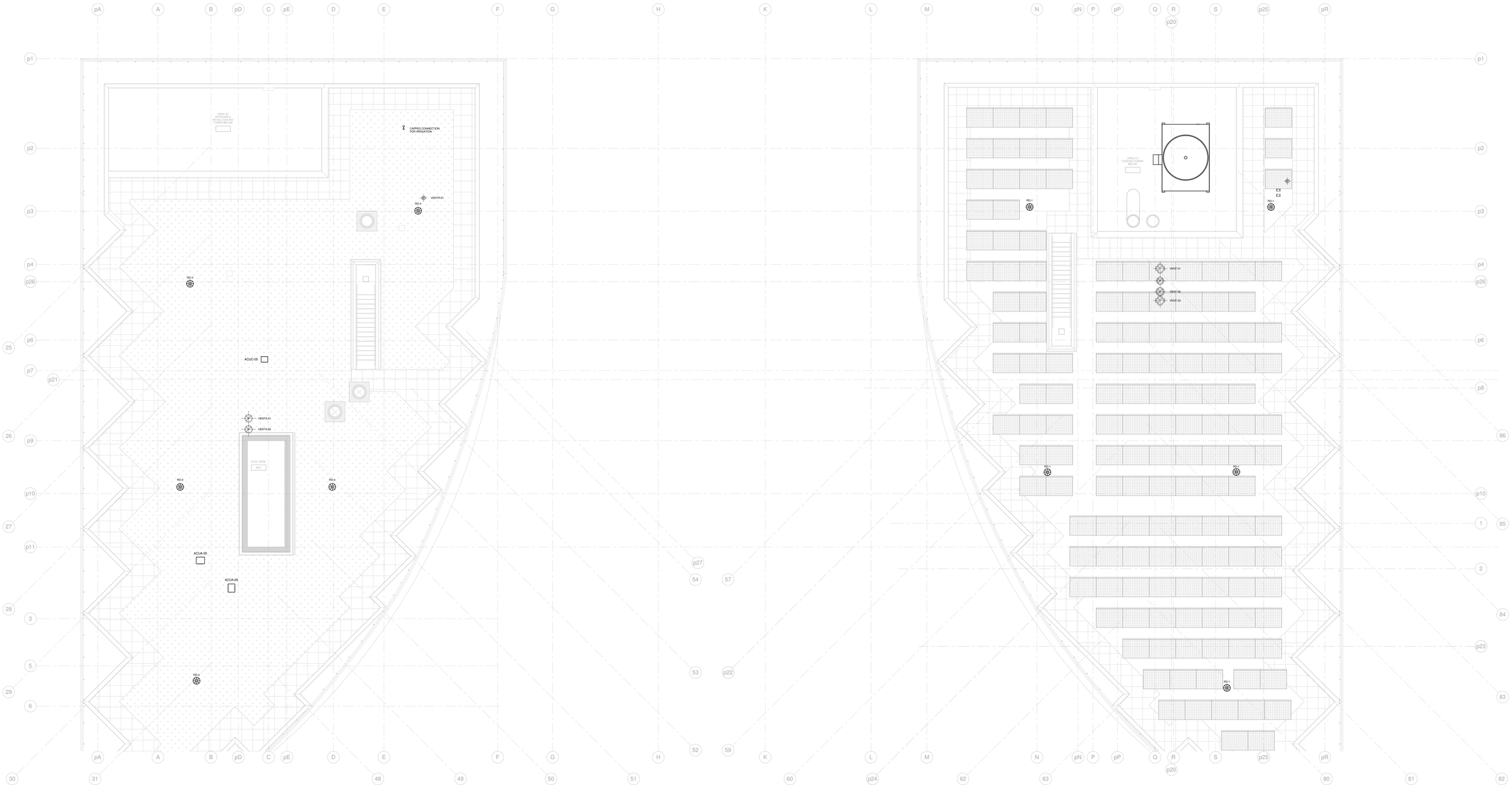

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04-30-15
Date

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No.	Revision	Date
1	ADD M-001	2015-10-06
2	ISSUED FOR ADD M-002	2016/XX/XX

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-10-16
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
ROOF PLAN NORTH - MECHANICAL

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: 04/30/15
Drawing No: M2-14A

N

Plot Date : 07/07/2016 1:31:37 PM File Path : C:\Users\jack_r\Documents\8489D - Aquavista - MEP_Revit_R13.

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Guelph Kitchener Trail Saint John

No.	Revision	Date

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-10-15
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

ROOF PLAN SOUTH - MECHANICAL

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: 04/30/15

Drawing No:

M2-14B

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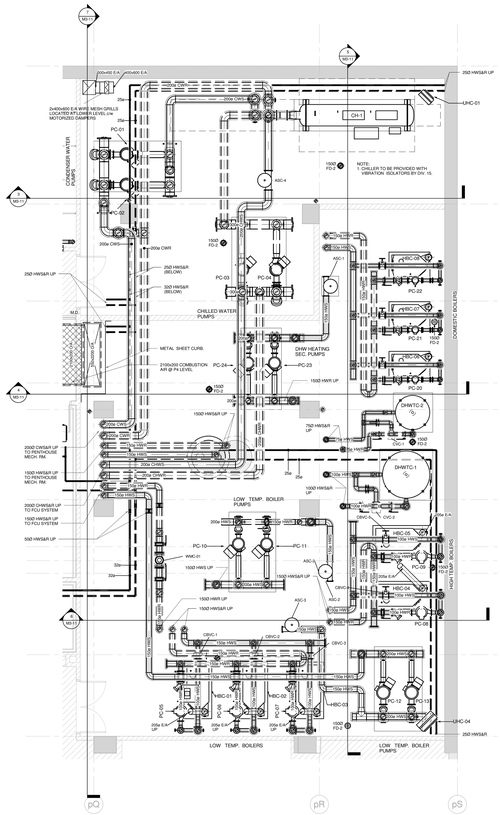
CONDENSER WATER PUMPS
CHILLED WATER PUMPS
DHW HEATING SEC. PUMPS
LOW TEMP. BOILER PUMPS
LOW TEMP. BOILERS
DOMESTIC BOILERS
HIGH TEMP. BOILERS
METAL SHEET CURB
2100x200 COMBUSTION AIR @ P4 LEVEL
NOTE:
1. CHILLER TO BE PROVIDED WITH VIBRATION ISOLATORS BY DIV. 15.
2x400x400 E.A WITH MESH GRILLS LOCATED ATT.DAMPER LEVEL c/w MOTORIZED DAMPERS
250 HWS&R (BELOW)
320 HWS&R (BELOW)
250 HWS&R UP
1500 HWS&R UP
1500 HWR UP
750 HWS&R UP
2000 CWS&R UP TO PENTHOUSE MECH. RM.
1500 HWS&R UP TO PENTHOUSE MECH. RM.
2000 CWS&R UP TO FCU SYSTEM
1500 HWS&R UP TO FCU SYSTEM
500 HWS&R UP
LHC-01
LHC-04
CH-1
DHWTC-1
DHWTC-2
HBC-01
HBC-02
HBC-03
HBC-04
HBC-05
HBC-06
HBC-07
HBC-08
PC-10
PC-11
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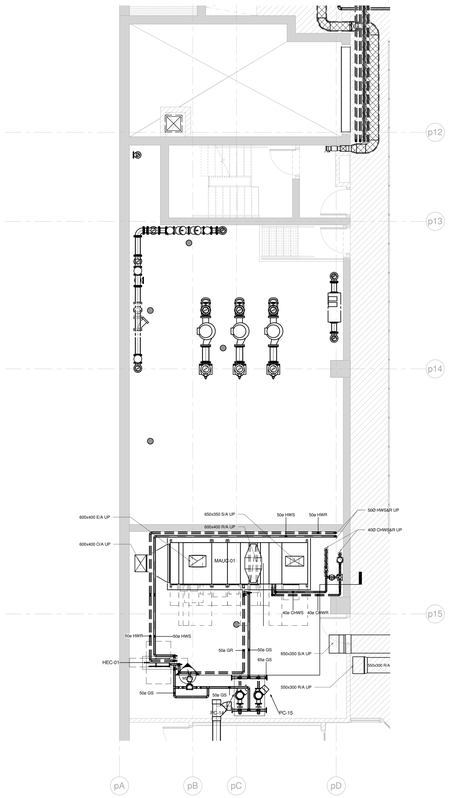
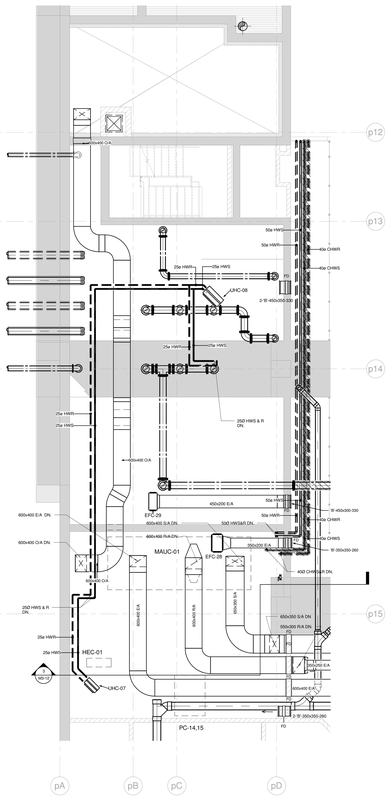
PC-59



1 P1 - CONDO MECH.RM. LOWER LEVEL - PART PLAN
1 : 50



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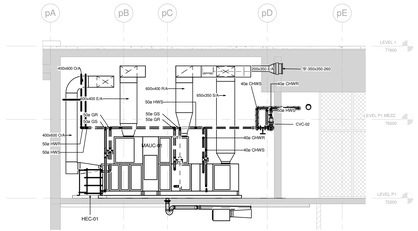
1 : 50



3 P1 MECH. RM. - CONDO - SECTION 1
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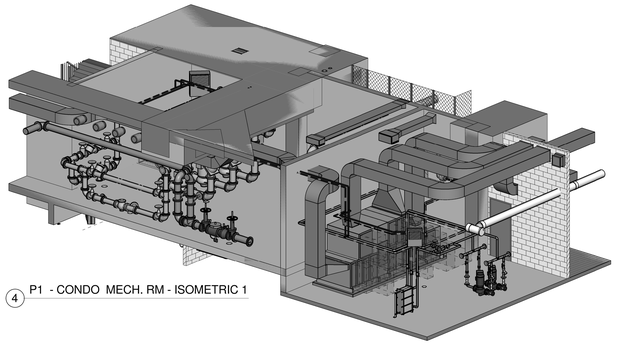

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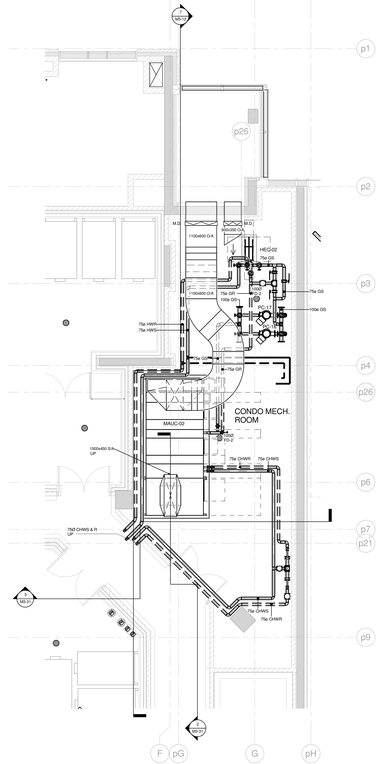
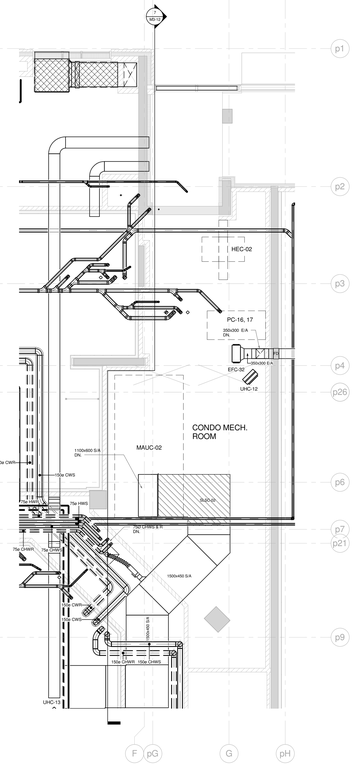


5 07-LEVEL 1 MEZZ. - CONDO. MECH. RM. LOWER LEVEL - PART PLAN
1 : 50



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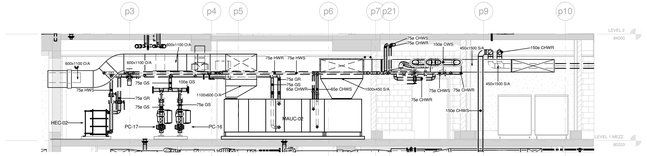
1 : 50



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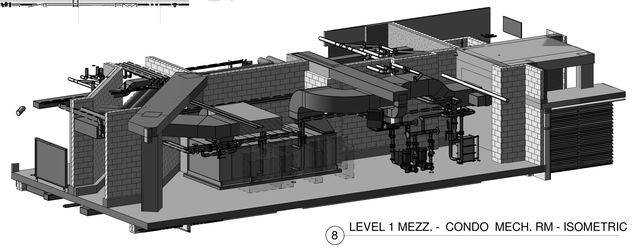

8 LEVEL 1 MEZZ. - CONDO MECH. RM - ISOMETRIC 1

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No.	Revision	Date
1	ISSUED FOR ADD M-002	2016/XX/XX
4		
3		
2	ISSUED FOR CONSTRUCTION	2016-07-07
1	ISSUED FOR TENDER	2015-10-16

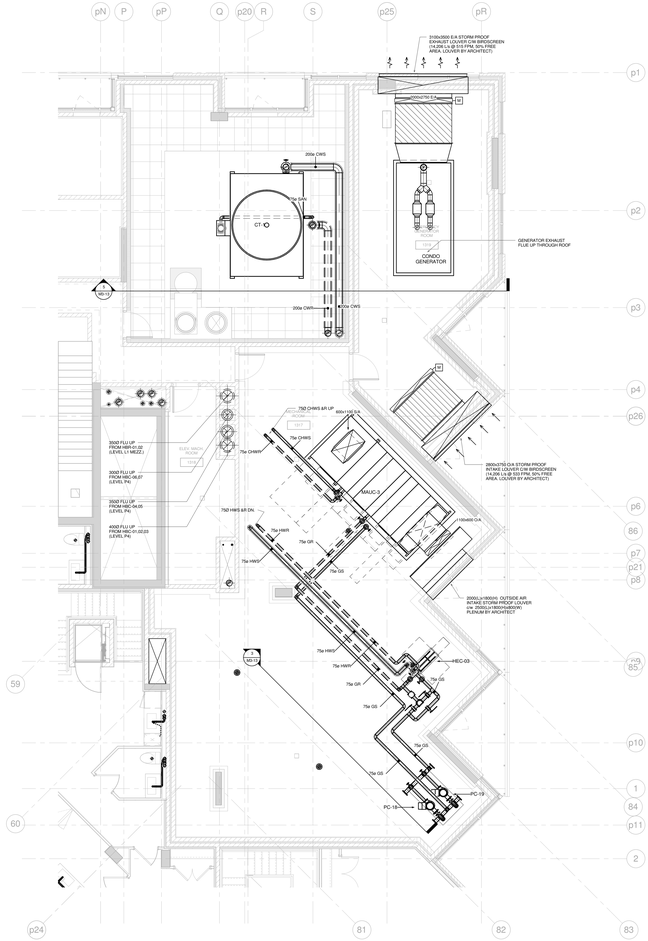
No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
CONDO MECHANICAL ROOMS - ENLARGED PLANS

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

Scale 1 : 50
Drawn by T.M.
Checked by Checker
Project No. 8489D
Date 09/09/15
Drawing No. M3-12



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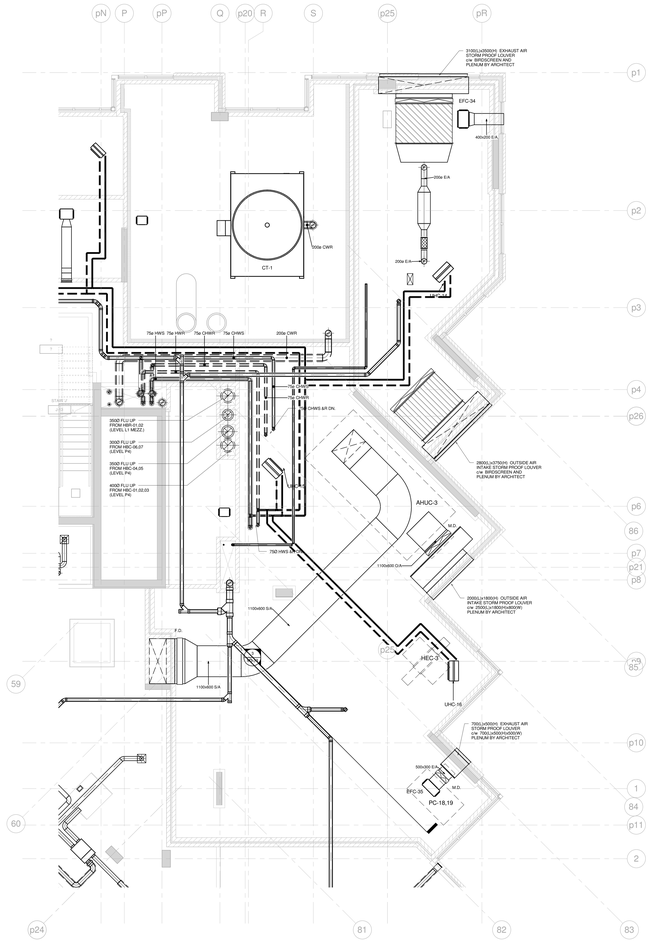
1 : 50



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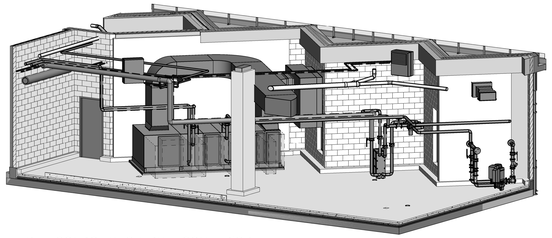
1 : 50



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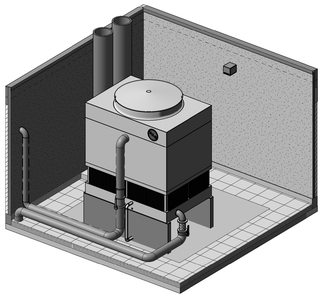

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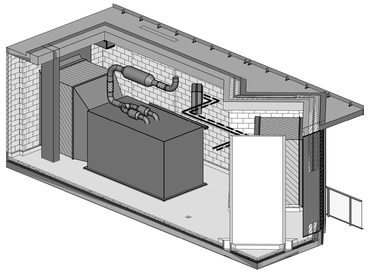

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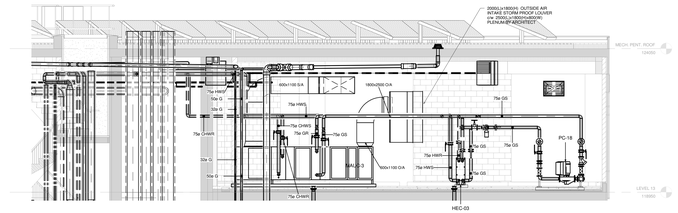

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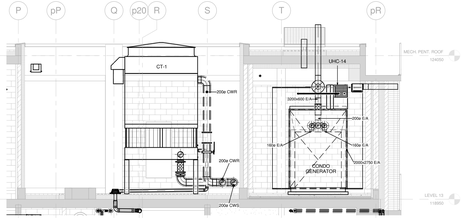

5 PH MECH. RM. - CONDO - SECTION 2
1 : 50

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No.	Revision	Date
4		
3		
2	ISSUED FOR CONSTRUCTION	2016-07-07
1	ISSUED FOR TENDER	2015-10-15

No.	Issued For	Date

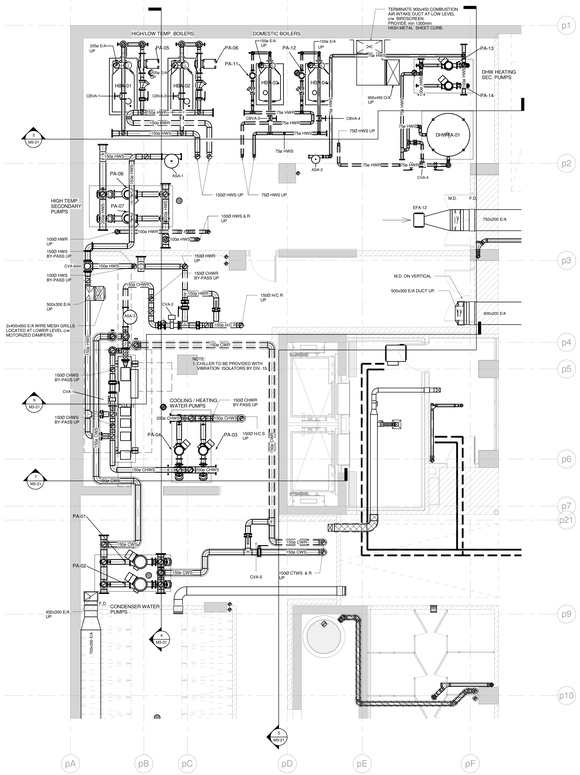
AQUAVISTA AT BAYSIDE TORONTO

Drawing Title
CONDO MECHANICAL ROOMS - ENLARGED PLANS

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

Scale 1 : 50
Drawn by T.M.
Checked by Checker
Project No. 8489D
Date 09/22/15
Drawing No. M3-13

N



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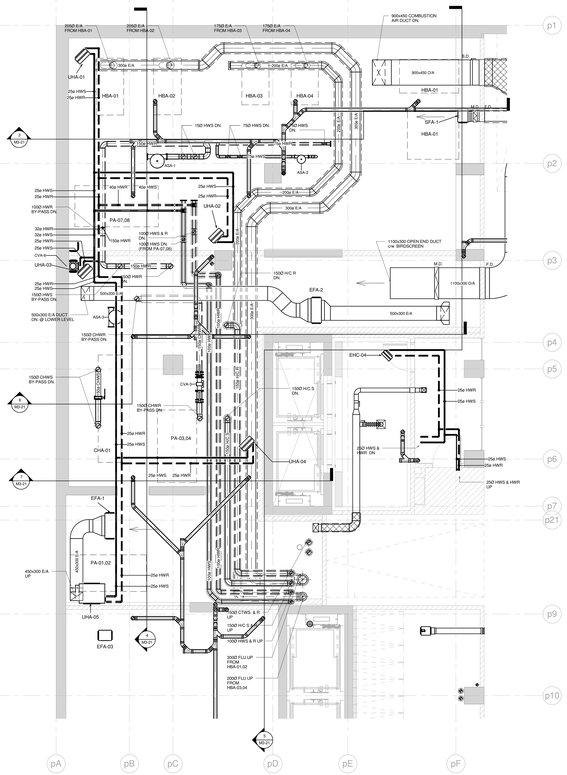

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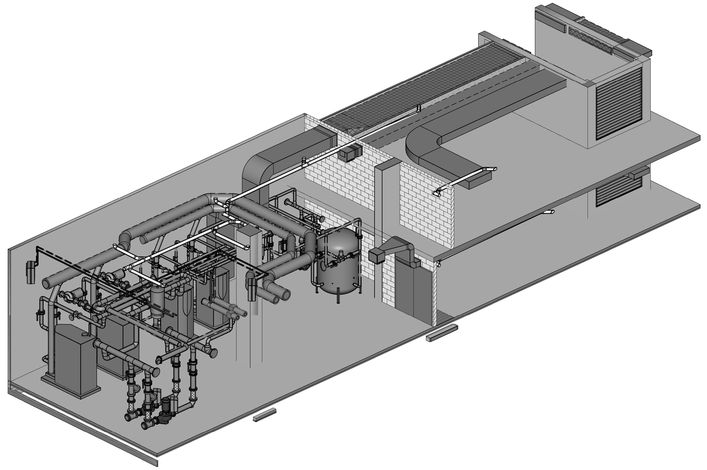
1 : 50



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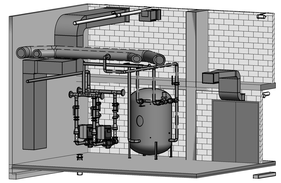

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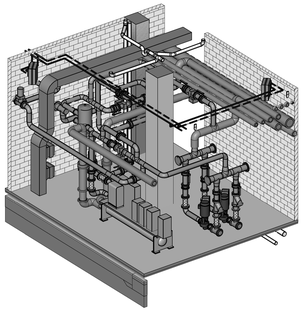

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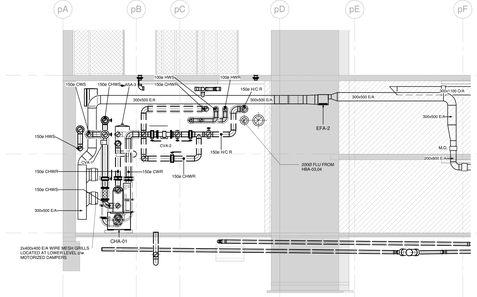

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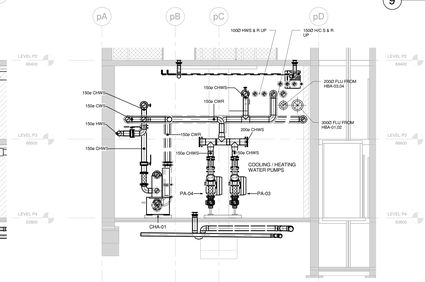

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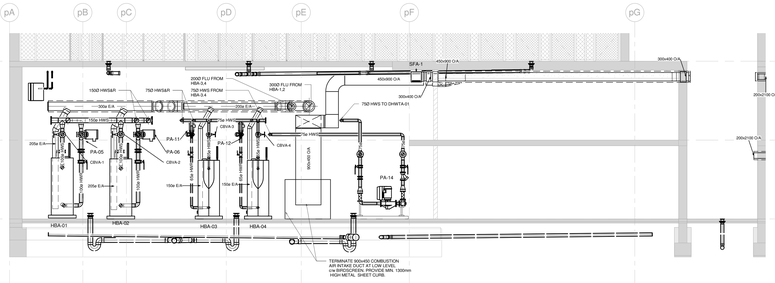

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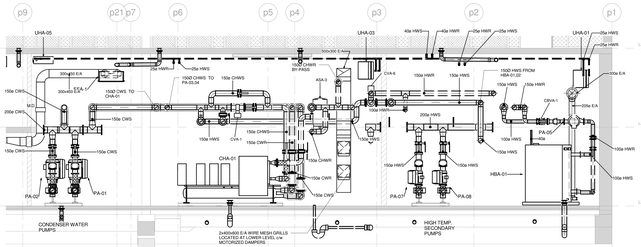

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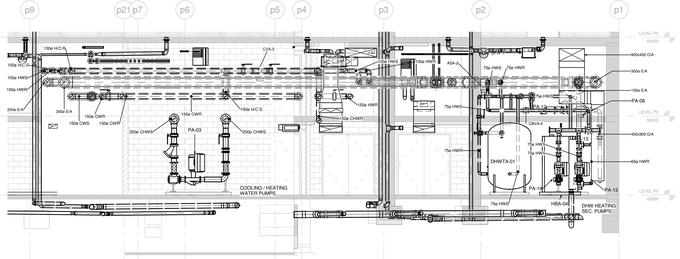

5 P4 MECH. RM. - AFFORD - SECTION 3
1 : 50

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09/02/15
Date

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Toronto Vancouver Windsor Moncton Ottawa Halifax Daughtry Robbins Trail Saint John

No.	Revision	Date
4		
3		
2	ISSUED FOR CONSTRUCTION	2016-07-07
1	ISSUED FOR TENDER	2015-10-15

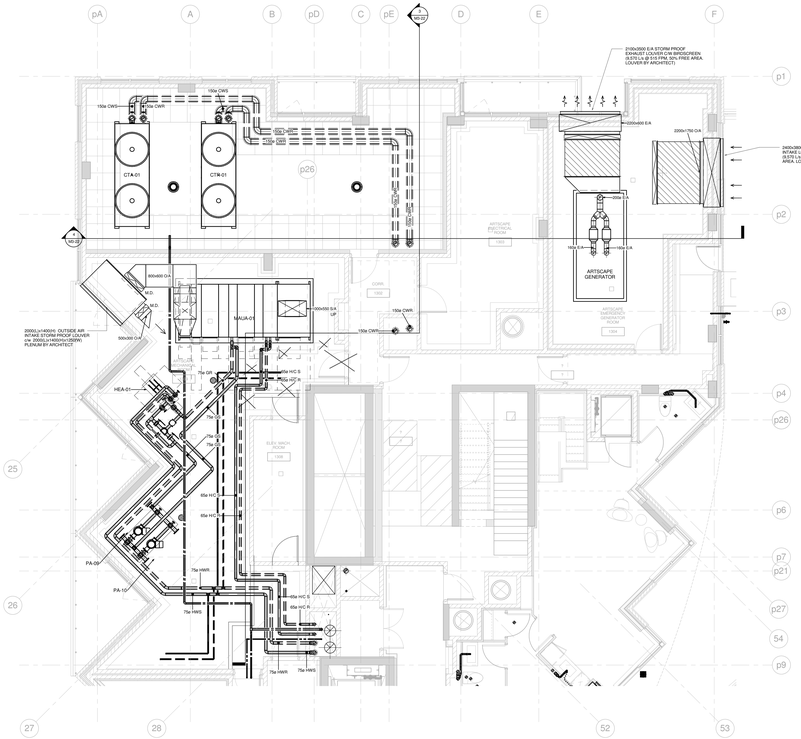
No.	Issued For	Date
1	ISSUED FOR ADD M-002	2016/XX/XX

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
ARTSCAPE MECHANICAL ROOMS - ENLARGED PLANS

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

Scale	1 : 50
Drawn by	T.M.
Checked by	Checker
Project No.	8489D
Date	09/02/15
Drawing No.	M3-21



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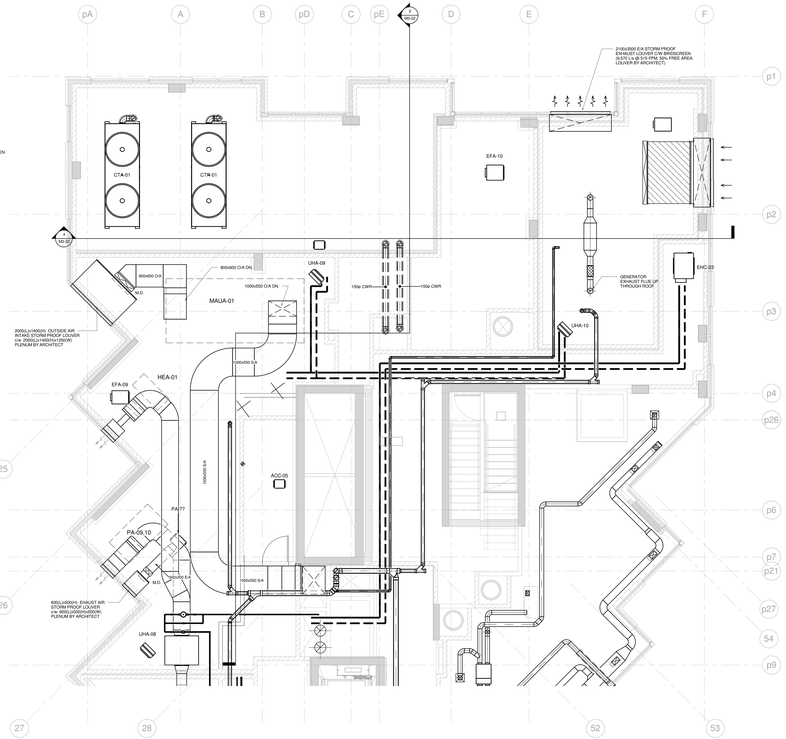

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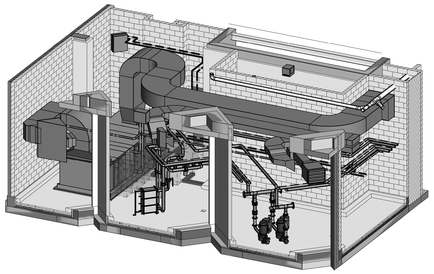
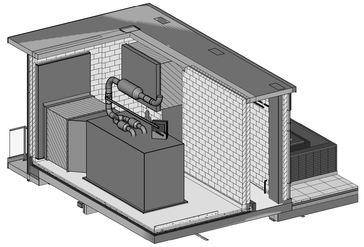
1 : 50



5 PH - AFFORDABLE MECH. RM. - ISOMETRIC 1



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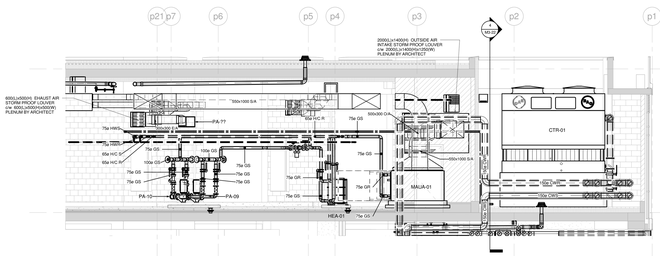
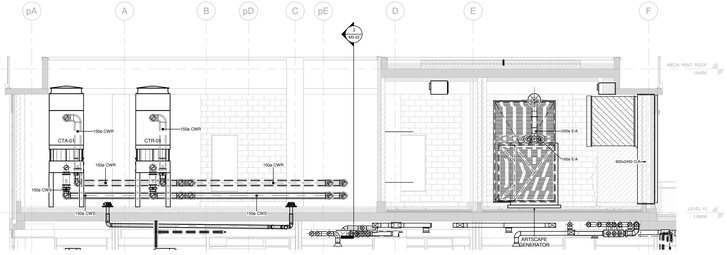


3 PH MECH. RM. - ARTSCAPE - SECTION 1
1 : 50



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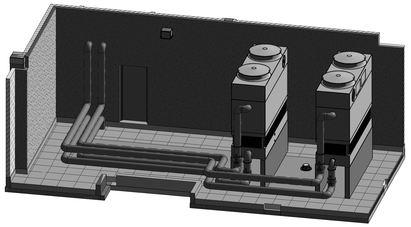

7 PH - AFFORDABLE MECH. RM. - ISOMETRIC 3

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D. C. M. BELLAMY
LICENSED ARCHITECT
PROVINCE OF ONTARIO

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No.	Revision	Date
1	ISSUED FOR ADD M-002	2016/XX/XX

No.	Issued For	Date
4		
3		
2	ISSUED FOR CONSTRUCTION	2016-07-07
1	ISSUED FOR TENDER	2015-10-16

AQUAVISTA
AT BAYSIDE TORONTO

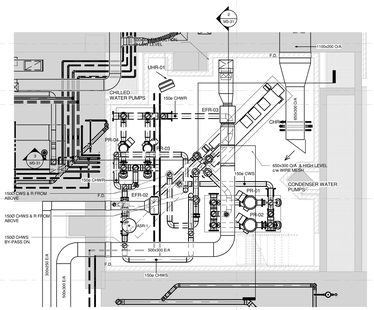
Drawing Title
ARTSCAPE MECHANICAL ROOMS - ENLARGED PLANS

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

Scale	1 : 50
Drawn by	T.M.
Checked by	Checker
Project No.	8489D
Date	10/05/15
Drawing No.	M3-22

N

Plot Date: 2016/07/07 1:18:10 Pm File: S:\Jobs\8489 AQUAVISTA\Drawings\M3-22 - Artscape - MEP - Block 3.rvt



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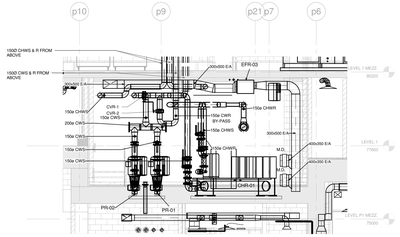

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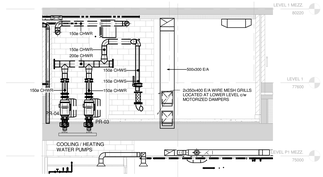

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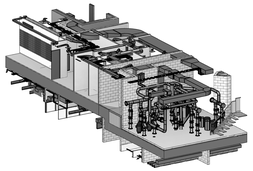

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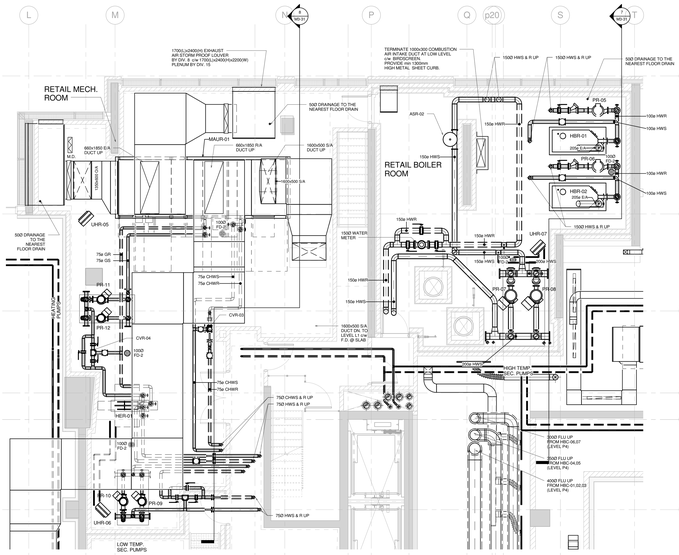

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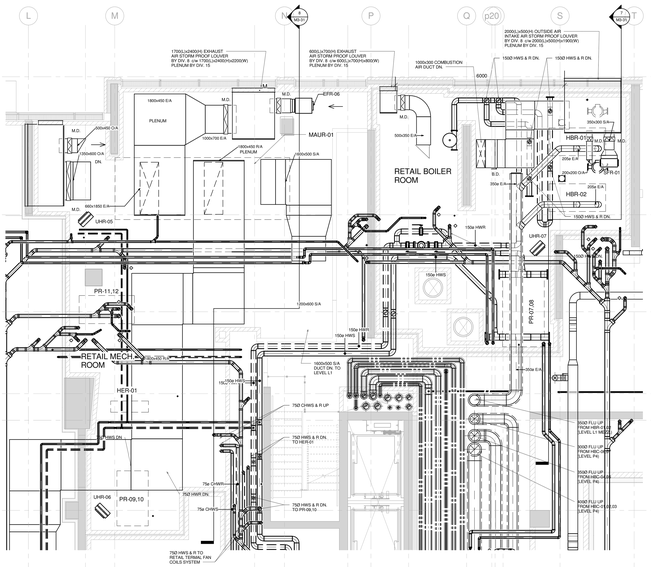

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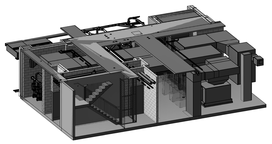
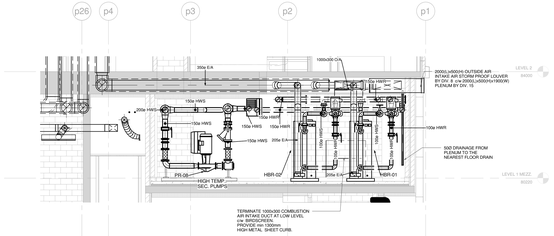


11 LEVEL 1 MEZZ. - RETAIL MECH. RM. - ISOMETRIC 3



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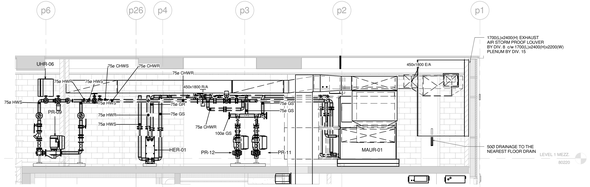

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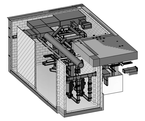

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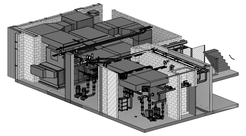

10 LEVEL 1 MEZZ. - RETAIL MECH. RM. - ISOMETRIC 1

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Date

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No.	Revision	Date
1	ADD M-001	2015/10/26
2	ISSUED FOR ADD M-002	2016/06/05
4		
3		
2	ISSUED FOR CONSTRUCTION	2016-07-07
1	ISSUED FOR TENDER	2015-10-16

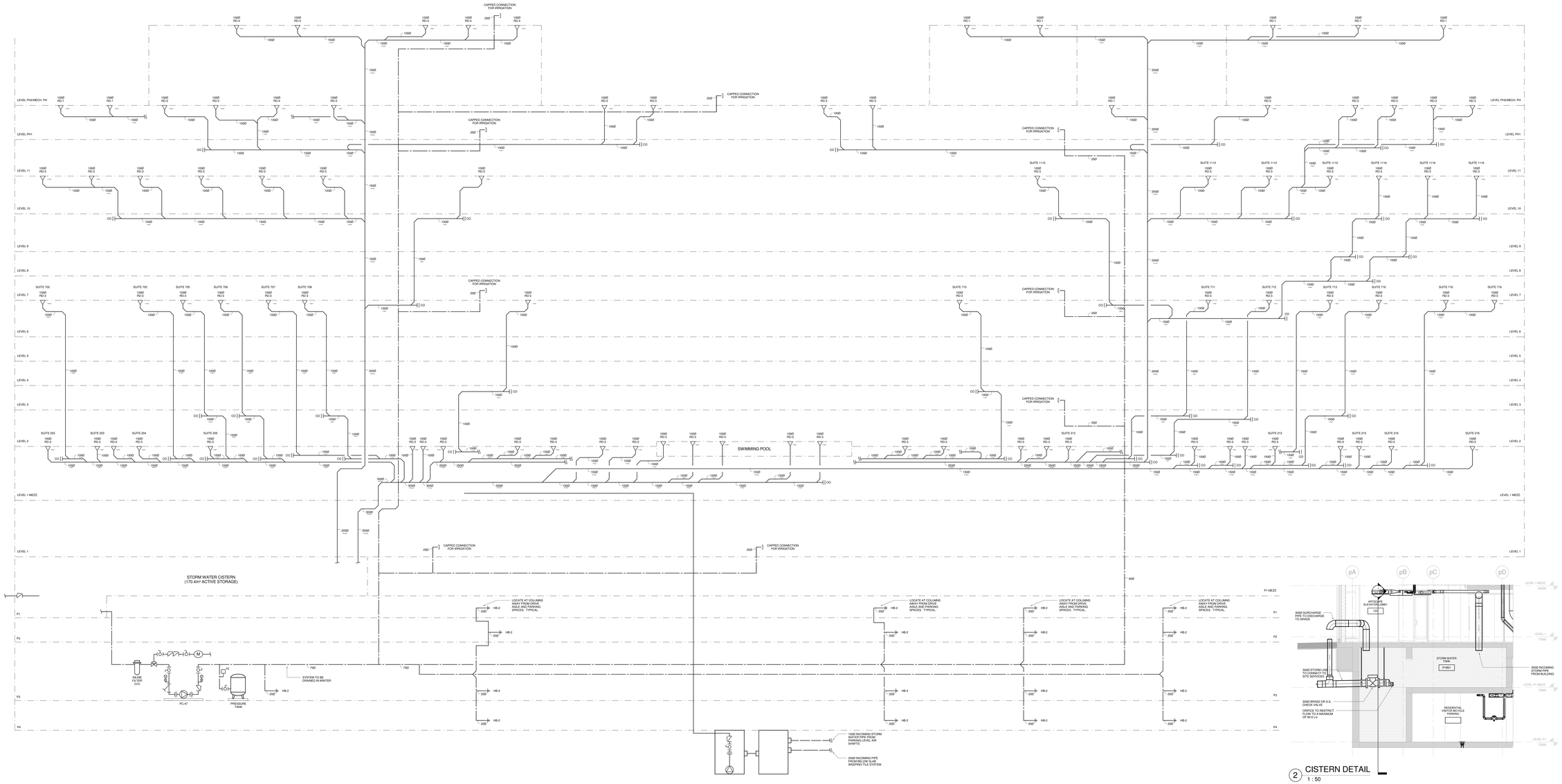
No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
RETAIL MECHANICAL ROOMS - ENLARGED PLANS

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

Scale 1 : 50
Drawn by T.M.
Checked by Checker
Project No. 8489D
Date 09/28/15
Drawing No. M3-31



2 CISTERN DETAIL
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No.	Revision	Date
1	ADD M-001	2015/10/30
4		
3	ISSUED FOR CONSTRUCTION	2016-07-07
2	ISSUED FOR TENDER	2015-10-16
1	BUILDING PERMIT SUBMISSION	2015-06-26

No.	Issued For	Date

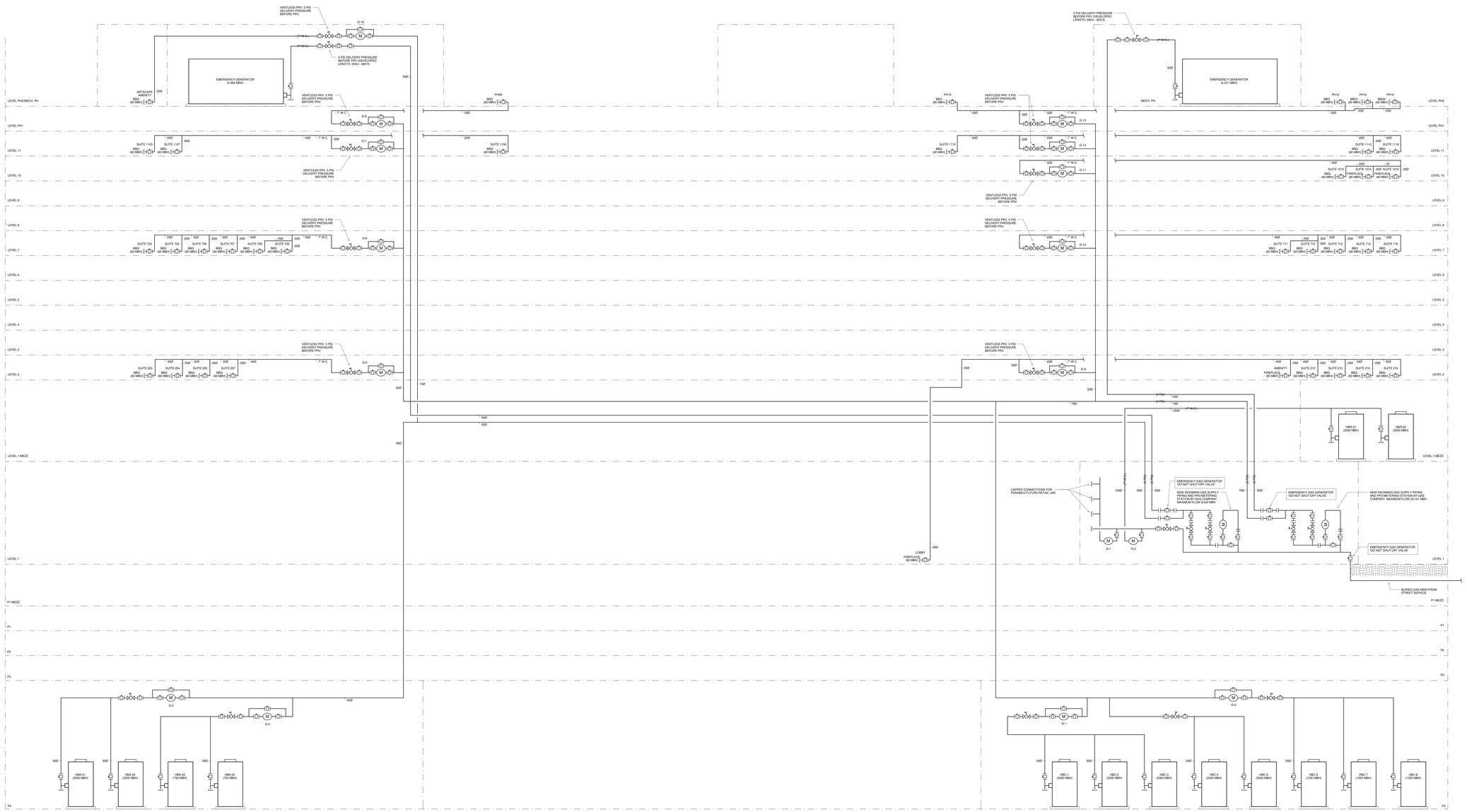
AQUAVISTA
AT BAYSIDE TORONTO

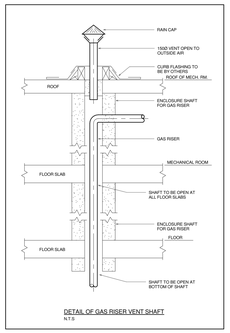
Drawing Title
STORM SCHEMATIC

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: 02/04/14
Drawing No: M4-01

N





DETAIL OF GAS RISER VENT SHAFT
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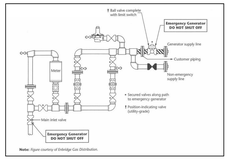

Note: *Figure courtesy of Enbridge Gas Distribution.*

NOTES:
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ALL GAS METERS SHALL BE PROVIDED WITH A FULL-SIZED BYPASS FOR GAS METER SERVICE/MAINTENANCE. THE BYPASS SHALL BE PROVIDED WITH ALL VALVES REQUIRED TO BE INSTALLED WHEN GAS METER IS REMOVED FOR SERVICE AND LEFT ON SITE WHEN NOT IN USE.

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Toronto Vancouver Windsor Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

No.	Revision	Date
1	ADD M-001	2015/10/30

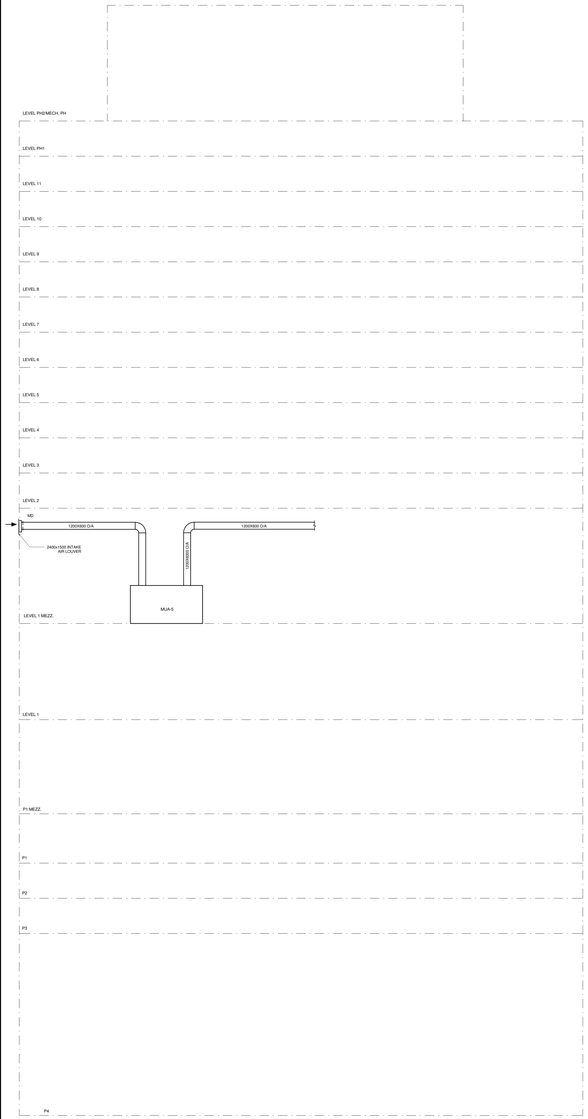
No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-10-16
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
NATURAL GAS SCHEMATIC

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

Scale 1 : 1
Drawn by Author
Checked by Checker
Project No. 8489D
Date 02/04/14
Drawing No. M4-02



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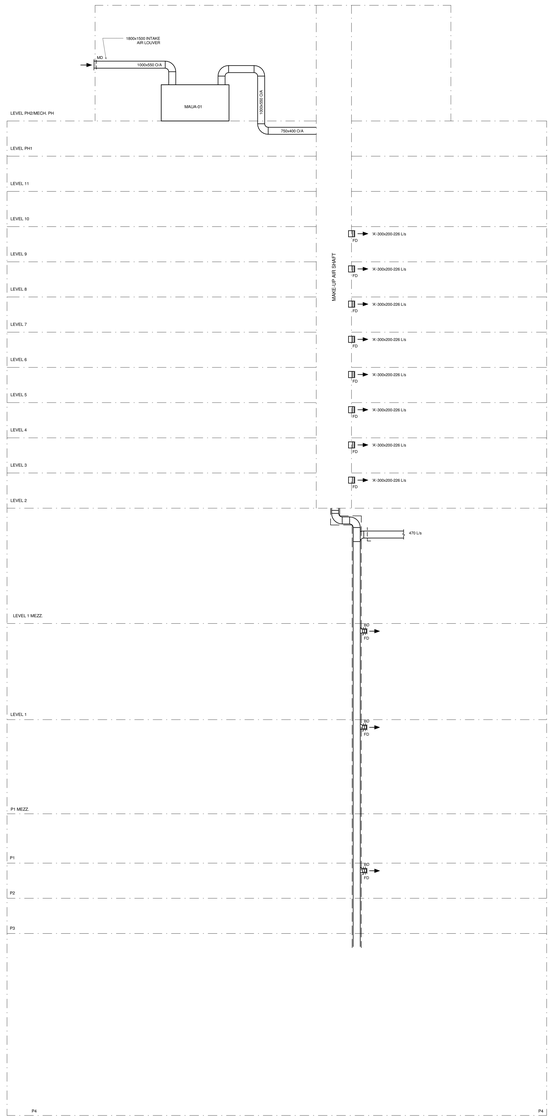
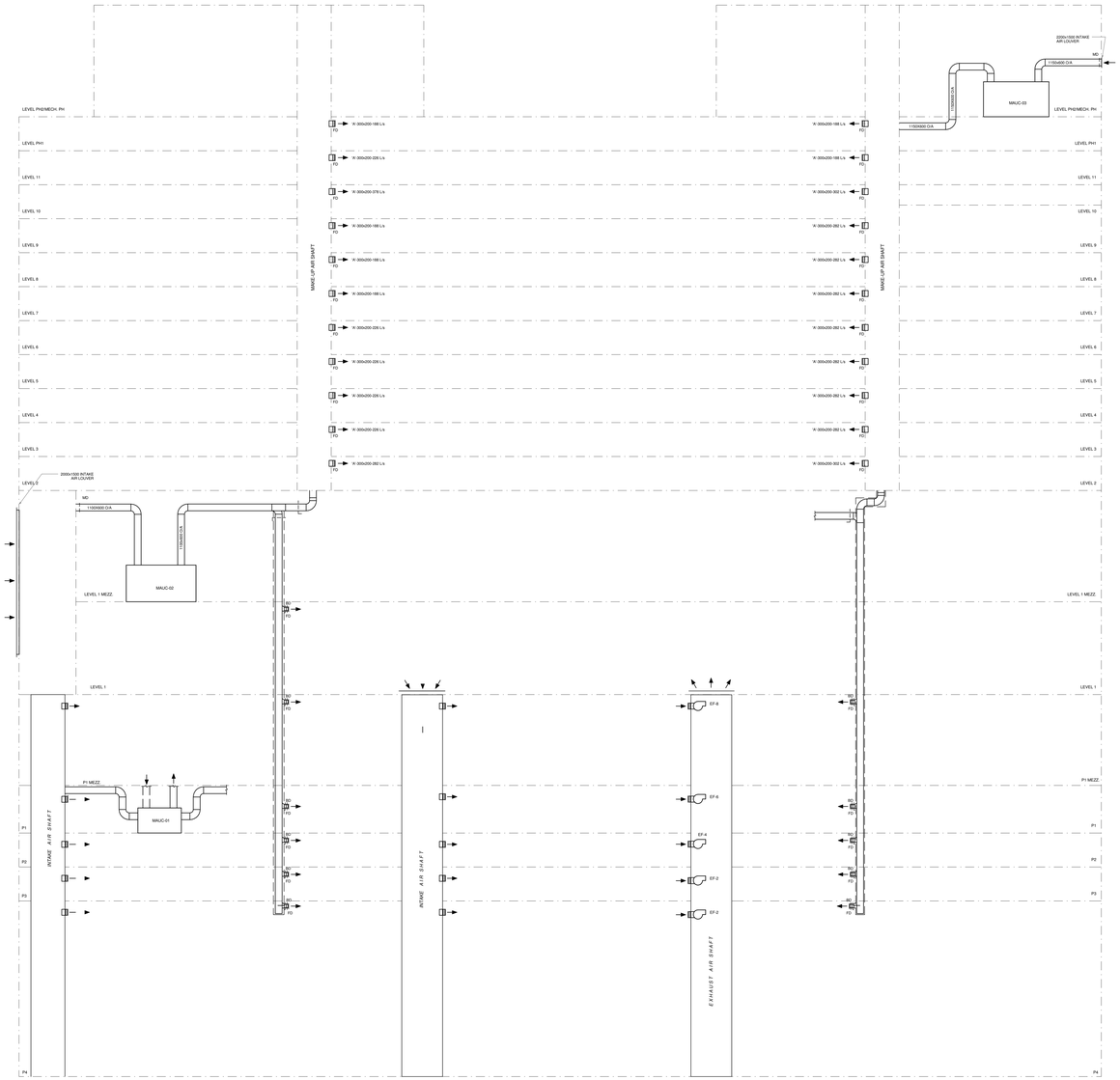


ARTSCAPE AIR DISTRIBUTION SCHEMATIC



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Dayton Kitchener Trail Saint John

No.	Revision	Date

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-10-16
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

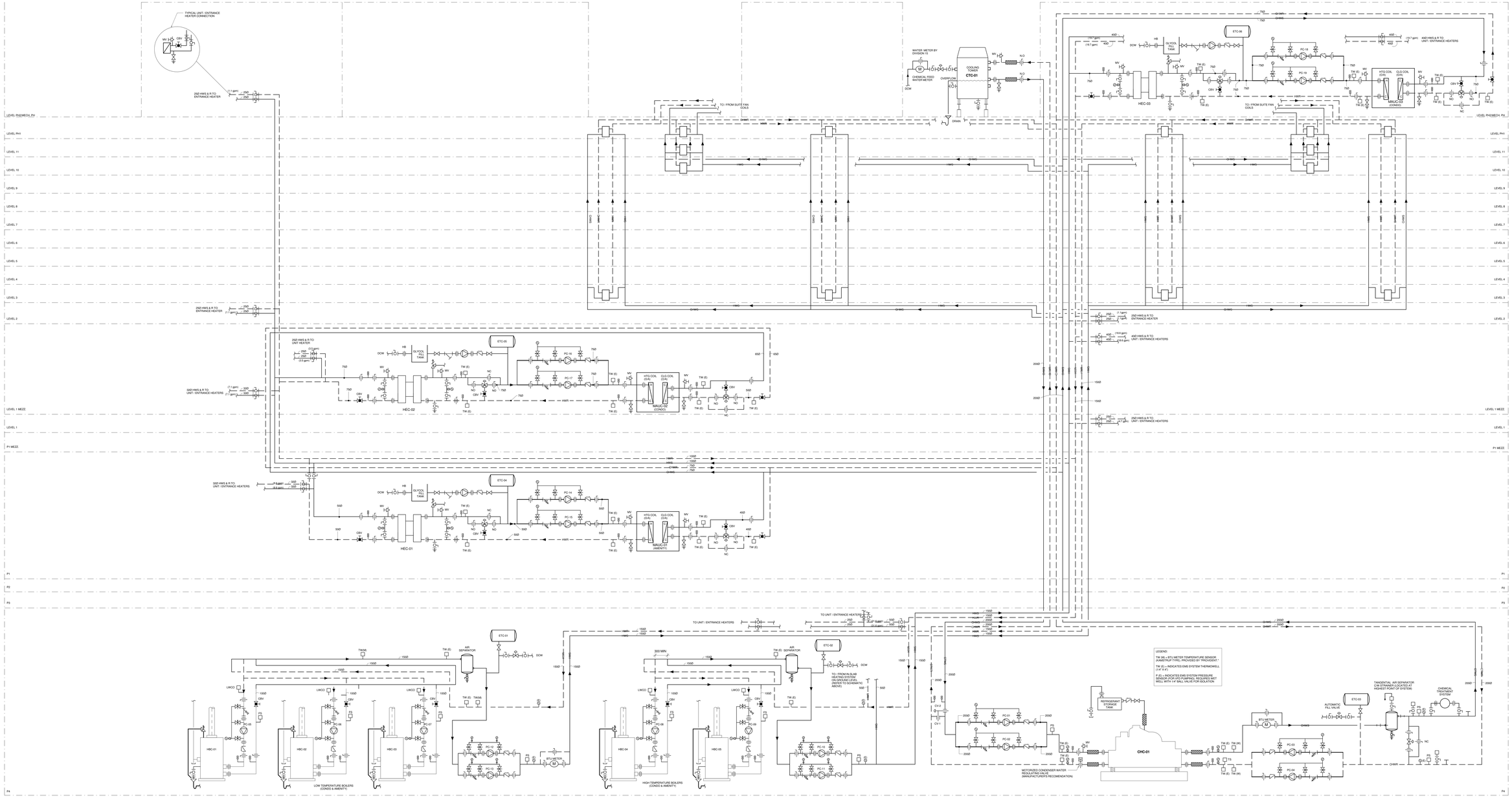
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
AIR DISTRIBUTION SCHEMATICS

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

Scale 1 : 1
Drawn by Author
Checked by Checker
Project No. 8489D
Date 02/04/14
Drawing No. M4-03

N



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Toronto Vancouver Windsor Moncton Ottawa Halifax
Dauphin Kelowna Fort Saint John

No.	Revision	Date
1	ADD M-001	2015-10-06
2	ISSUED FOR ADD M-002	2016/XX/XX

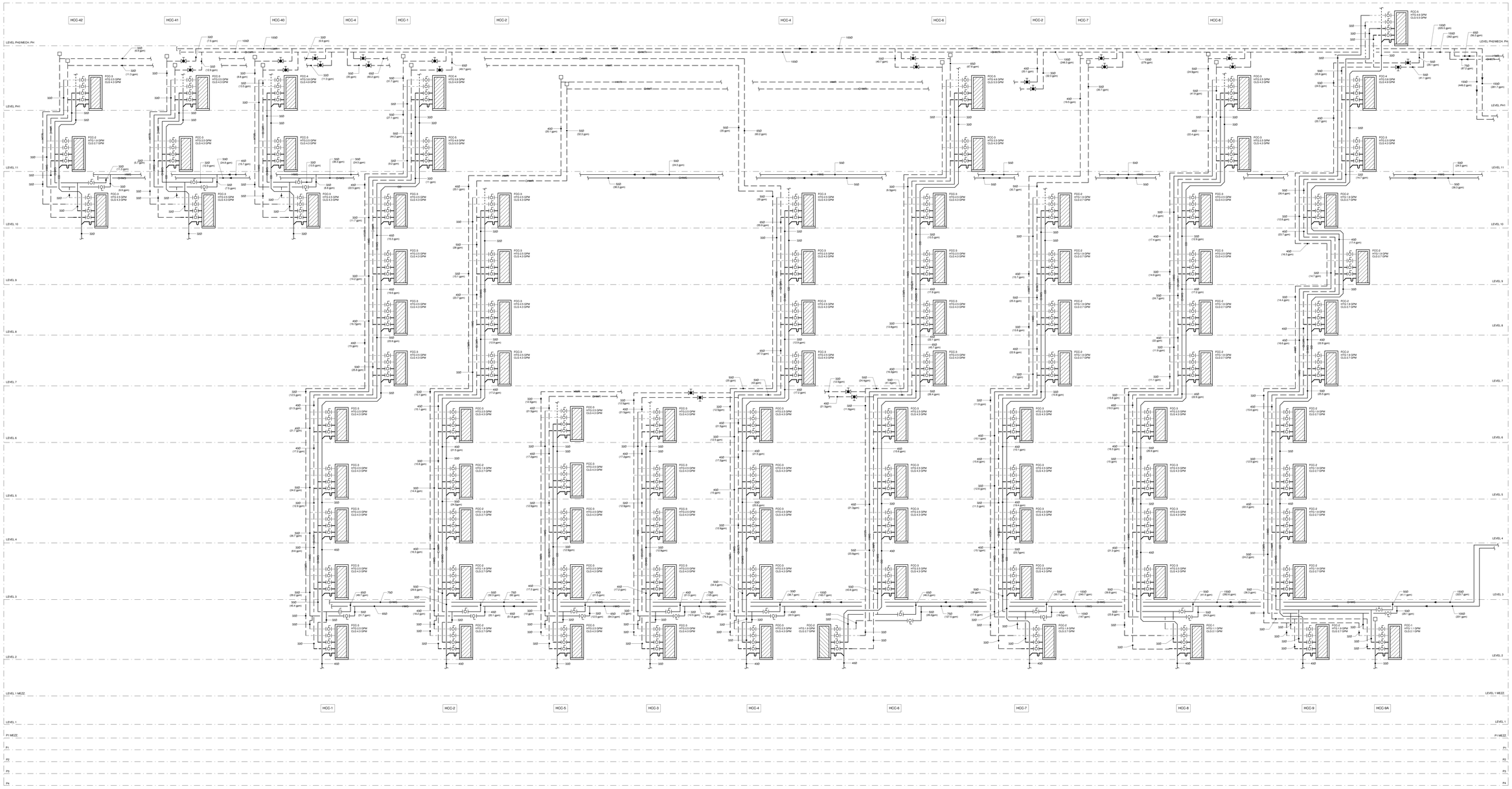
No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-10-15
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
CONDO - HEATING & COOLING SCHEMATIC

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

Scale: NTS.
Drawn by: Author
Checked by: Checker
Project No: 8489D
Date: 02/04/14
Drawing No: M4-11



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Toronto Vancouver Windsor Moncton Ottawa Halifax
Dauphin Kitchener Trail Saint John

No.	Revision	Date
4		
3		
2	ISSUED FOR CONSTRUCTION	2016-07-07
1	ISSUED FOR TENDER	2015-10-15

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

CONDO - FAN COIL RISER DIAGRAM - PART A

Project

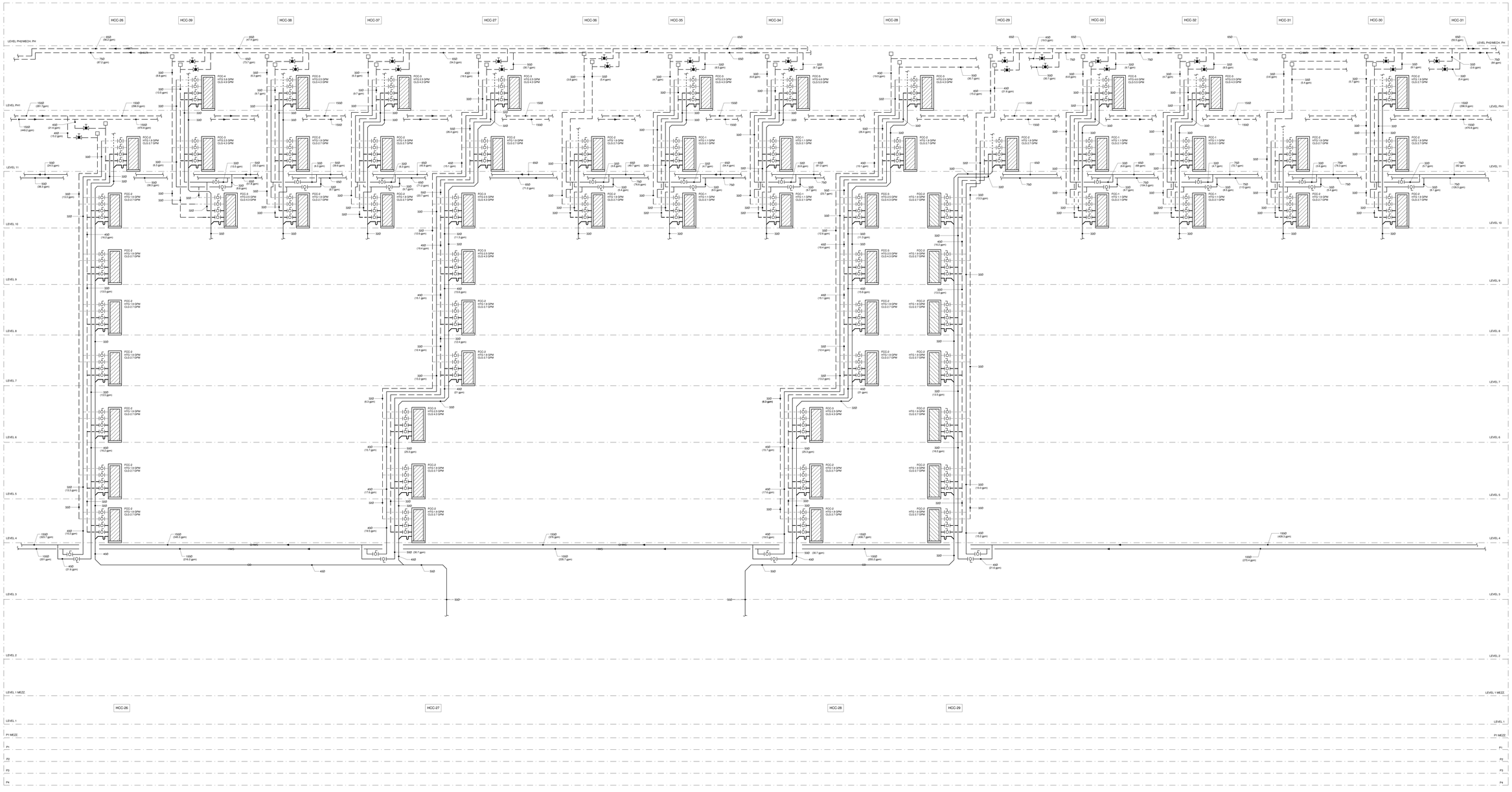
Hines TRIDEL

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

Scale	1 : 1
Drawn by	Author
Checked by	Checker
Project No.	8489D
Date	02/04/14

Drawing No.

M4-12A



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Daughtry Kitzowski Trail Saint John

No.	Revision	Date
4		
3		
2	ISSUED FOR CONSTRUCTION	2016-07-07
1	ISSUED FOR TENDER	2015-10-15

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

CONDO - FAN COIL RISER DIAGRAM - PART B

Project

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

Scale	1 : 1
Drawn by	Author
Checked by	Checker
Project No.	8489D
Date	10/08/15

N

Drawing No.

M4-12B

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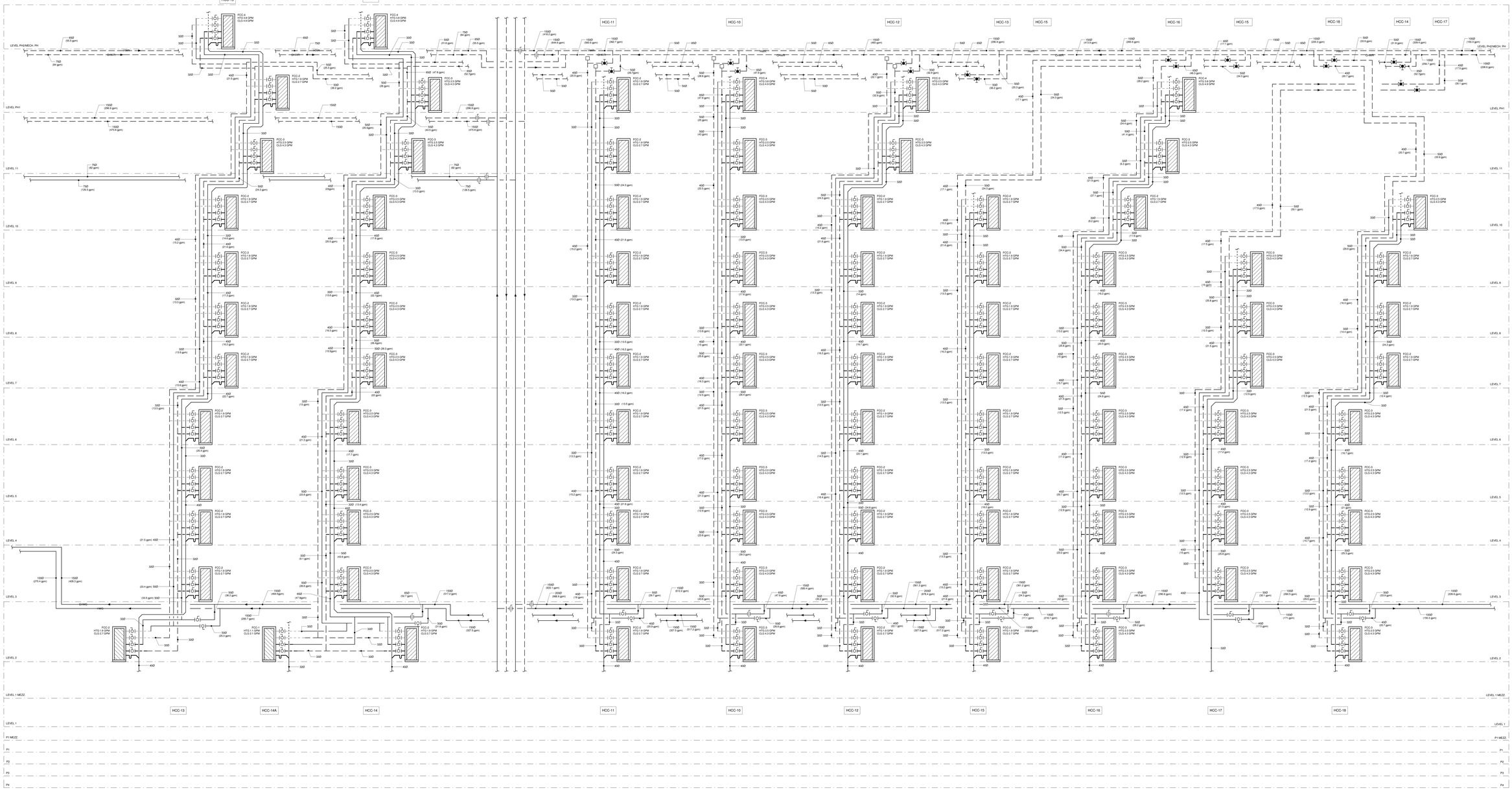

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Dauphin Kelowna Trail Saint John

No.	Revision	Date
4		
3		
2	ISSUED FOR CONSTRUCTION	2016-07-07
1	ISSUED FOR TENDER	2015-10-16

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

CONDO - FAN COIL RISER DIAGRAM - PART C

Project

Hines TRIDEL

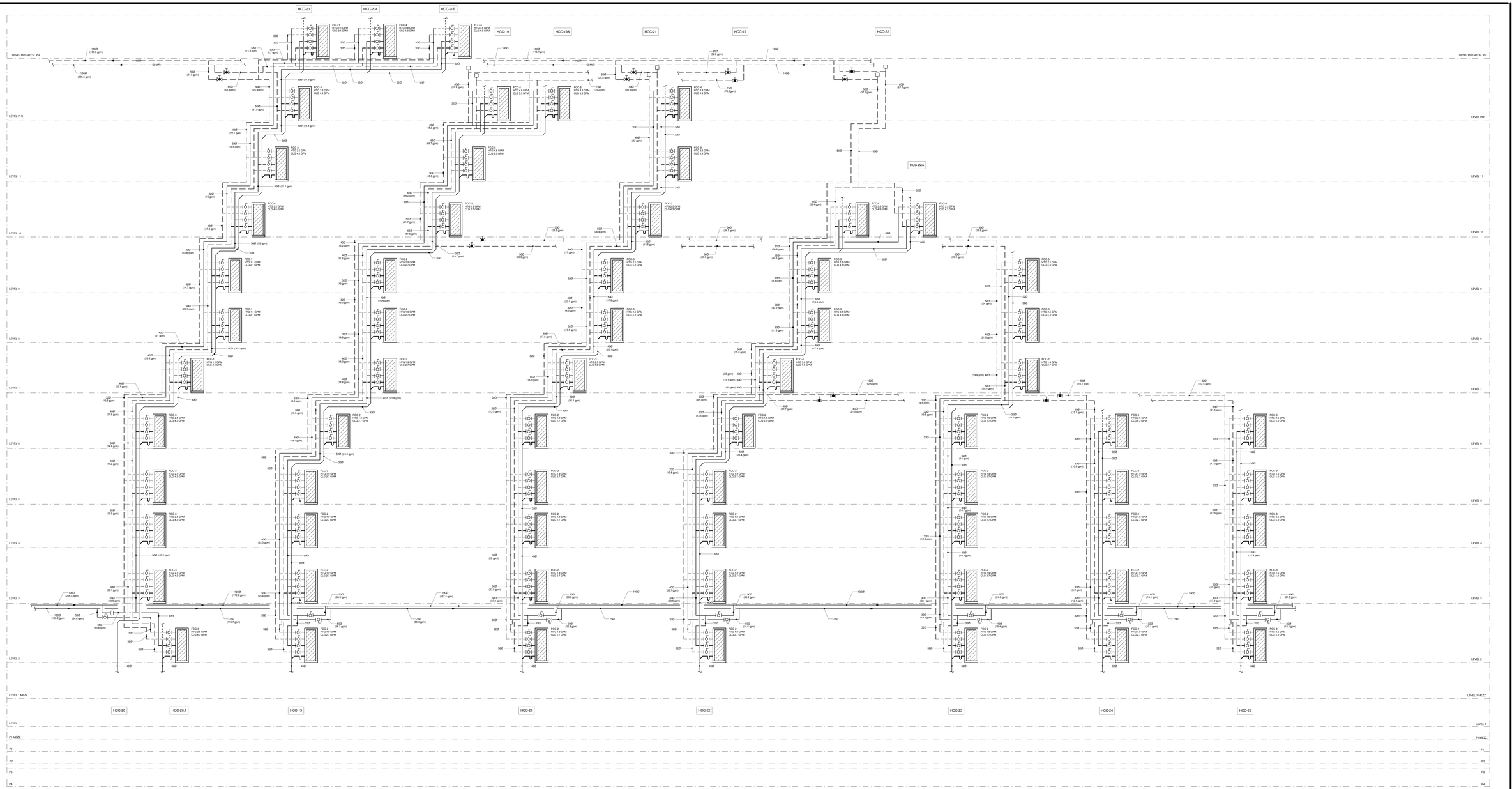
AQUAVISTA
Block 3 - R3 & R4
Queen's Quay East
Toronto, ON

Scale	1 : 1
Drawn by	Author
Checked by	Checker
Project No.	8489D
Date	10/08/15

Drawing No.

M4-12C

File Date: 10/12/2016 1:43:33 PM File Path: C:\Users\admin_rh\Documents\8489D - Aquavista - MEP_Revit_R22\



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REGISTERED PROFESSIONAL ENGINEER
D. C. M. BELLAMY
PROVINCE OF ONTARIO

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Dauphin Kitchener Trail Saint John

No.	Revision	Date
4		
3		
2	ISSUED FOR CONSTRUCTION	2016-07-07
1	ISSUED FOR TENDER	2015-10-15

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

CONDO - FAN COIL RISER DIAGRAM - PART D

Project

Hines TRIDEL

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

Scale: 1 : 1

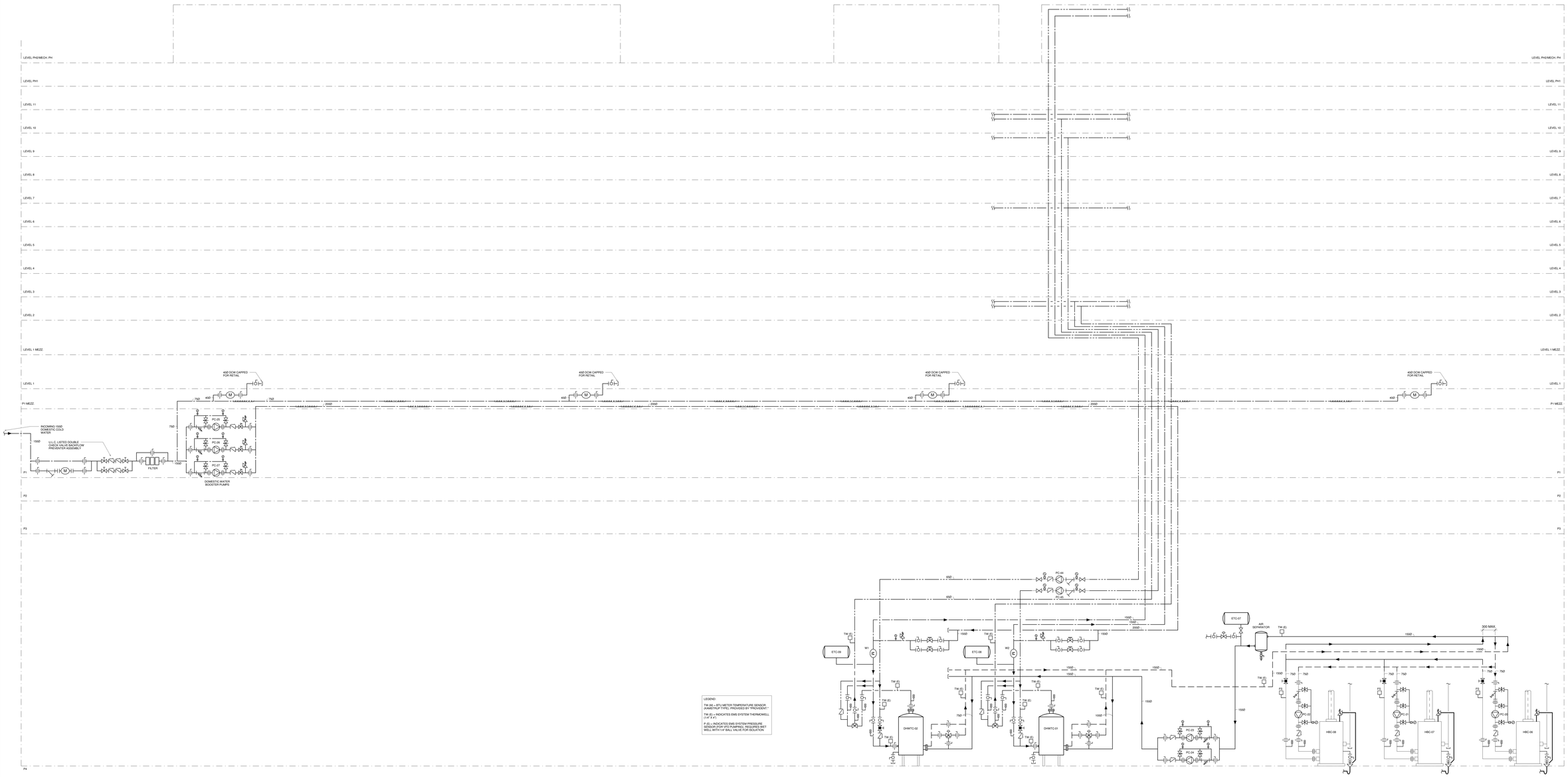
Drawn by: Author

Checked by: Checker

Project No: 8489D

Date: 10/08/15

Drawing No: M4-12D



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No.	Revision	Date
1	ADD M-001	2015/10/30

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-10-15
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	INT REVIEW	2015-05-01

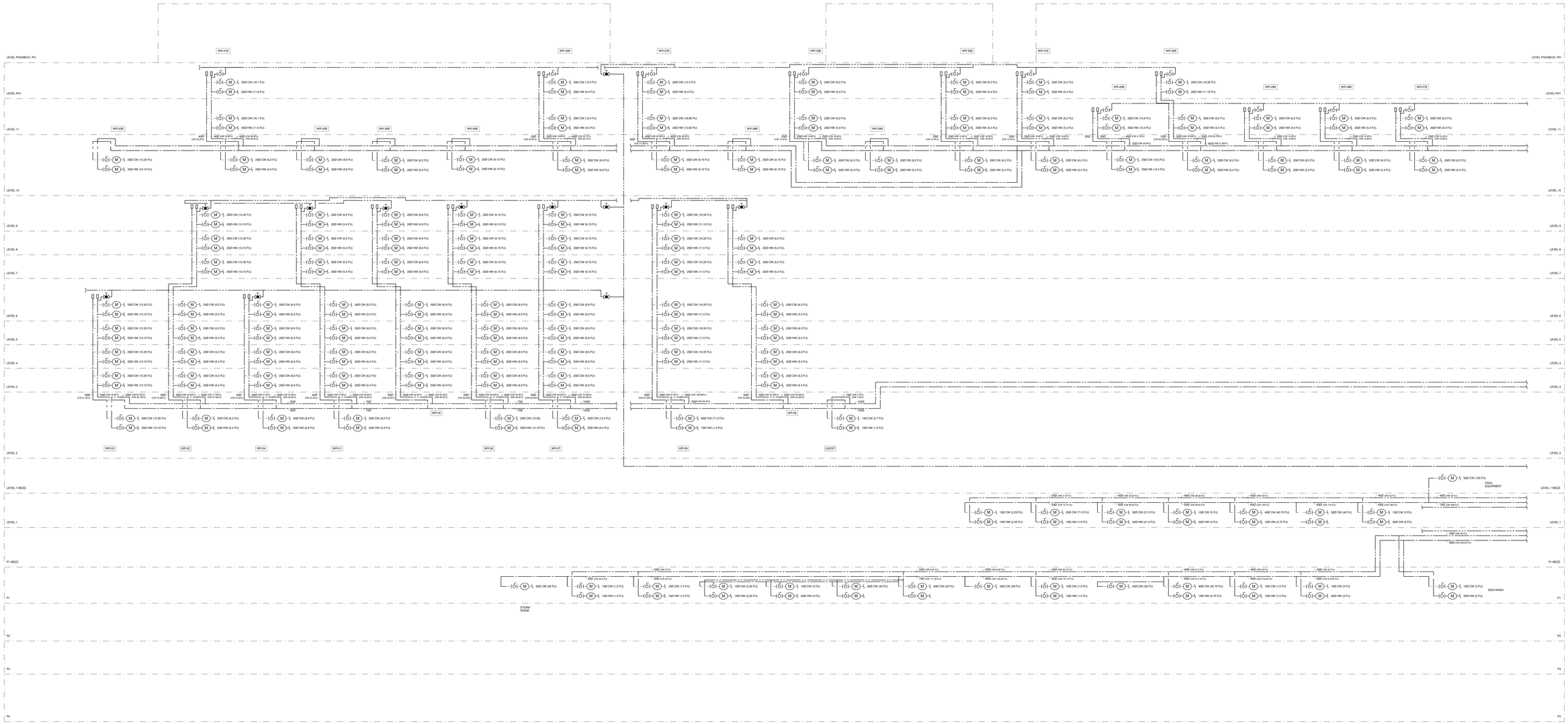
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
CONDO - DOMESTIC WATER RISER DIAGRAM

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

Scale 1 : 1
Drawn by Author
Checked by Checker
Project No. 8489D
Date 02/04/14
Drawing No. M4-13

File Date: 2014/02/04 1:43:18 PM File Path: C:\Users\jack_r\Documents\8489D - Aquavista - MEP_Revit_R13



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No.	Revision	Date
4		
3		
2	ISSUED FOR CONSTRUCTION	2016-07-07
1	ISSUED FOR TENDER	2015-10-15

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

CONDO - DOMESTIC WATER RISER DIAGRAM - PART A

Project

Hines TRIDEL

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

Scale	1 : 1
Drawn by	Author
Checked by	Checker
Project No.	8489D
Date	04/09/15
Drawing No.	M4-14A

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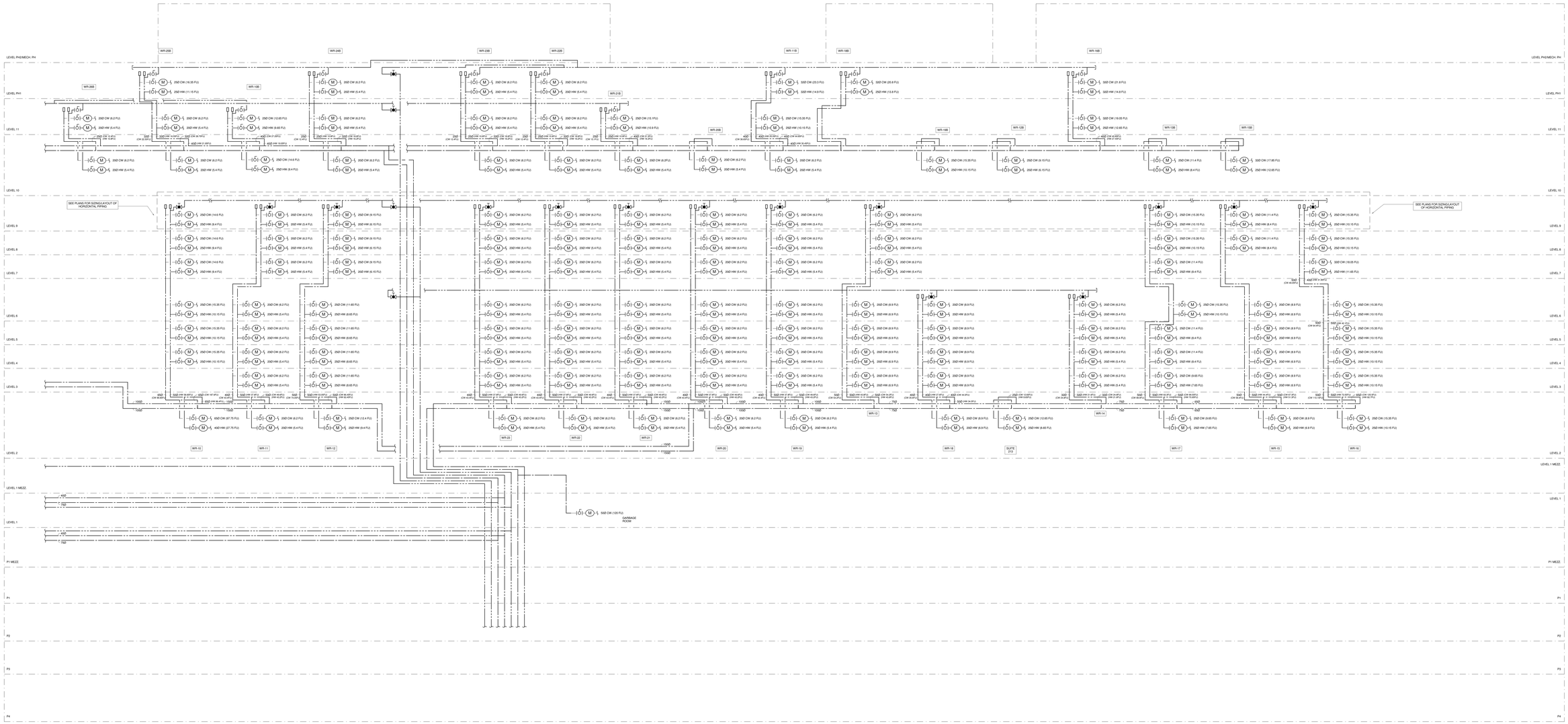

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No.	Revision	Date
4		
3		
2	ISSUED FOR CONSTRUCTION	2016-07-07
1	ISSUED FOR TENDER	2015-10-15

No.	Issued For	Date

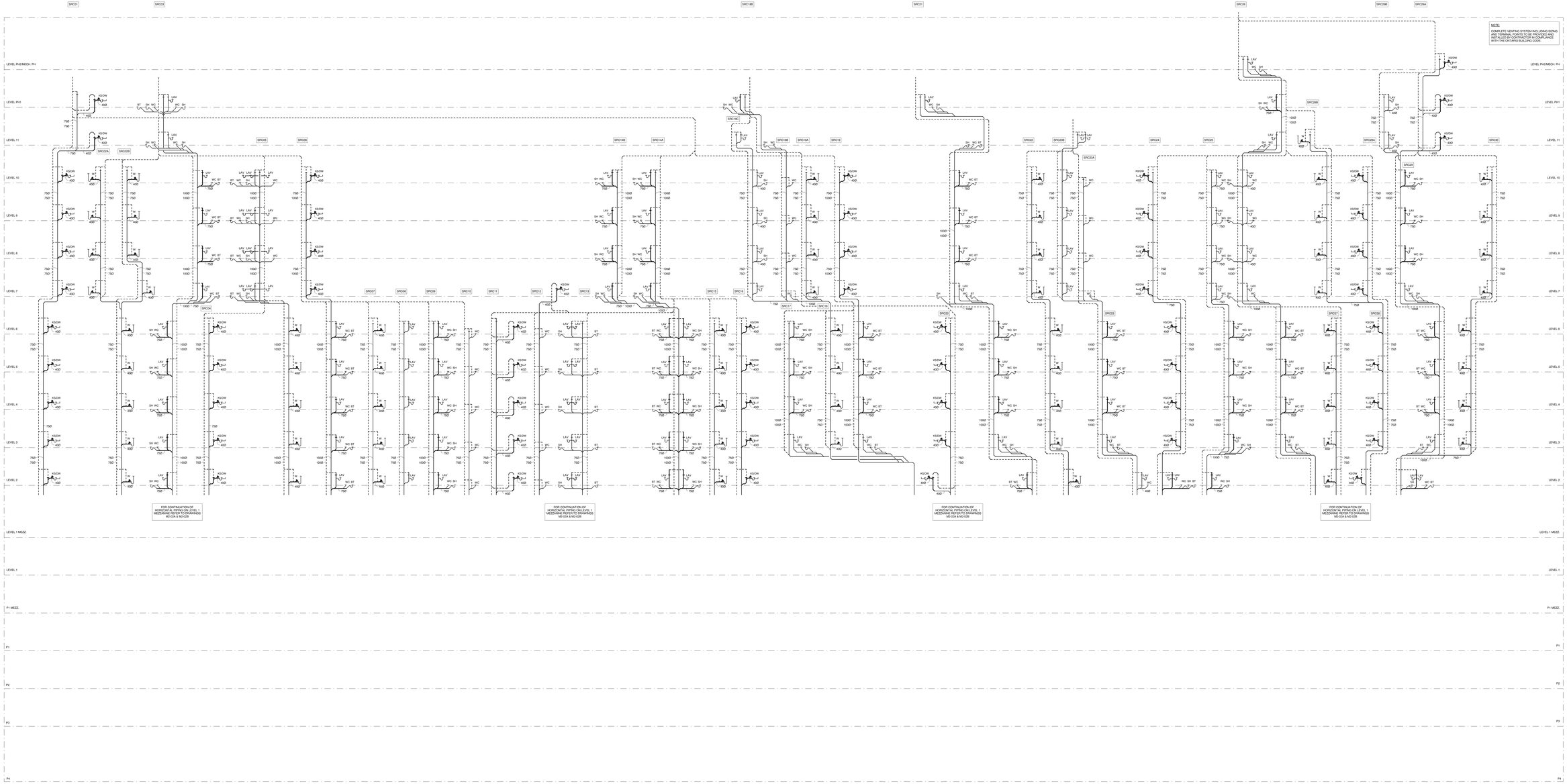
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
CONDO - DOMESTIC WATER RISER DIAGRAM - PART B

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

Scale: 1 : 1
Drawn by: Author
Checked by: Checker
Project No: 8489D
Date: 10/08/15
Drawing No: M4-14B

N



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Dauphin Kelowna Fort Saint John

No.	Revision	Date
1	ADD M-001	2015/10/30

No.	Issued For	Date
4		
3		
2		
1	ISSUED FOR CONSTRUCTION	2016-07-07

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

CONDO - SANITARY RISER DIAGRAM A

Project

Hines TRIDEL

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

Scale: 1 : 1

Drawn by: Author

Checked by: Checker

Project No: 8489D

Date: 02-04-14

Drawing No: M4-15A

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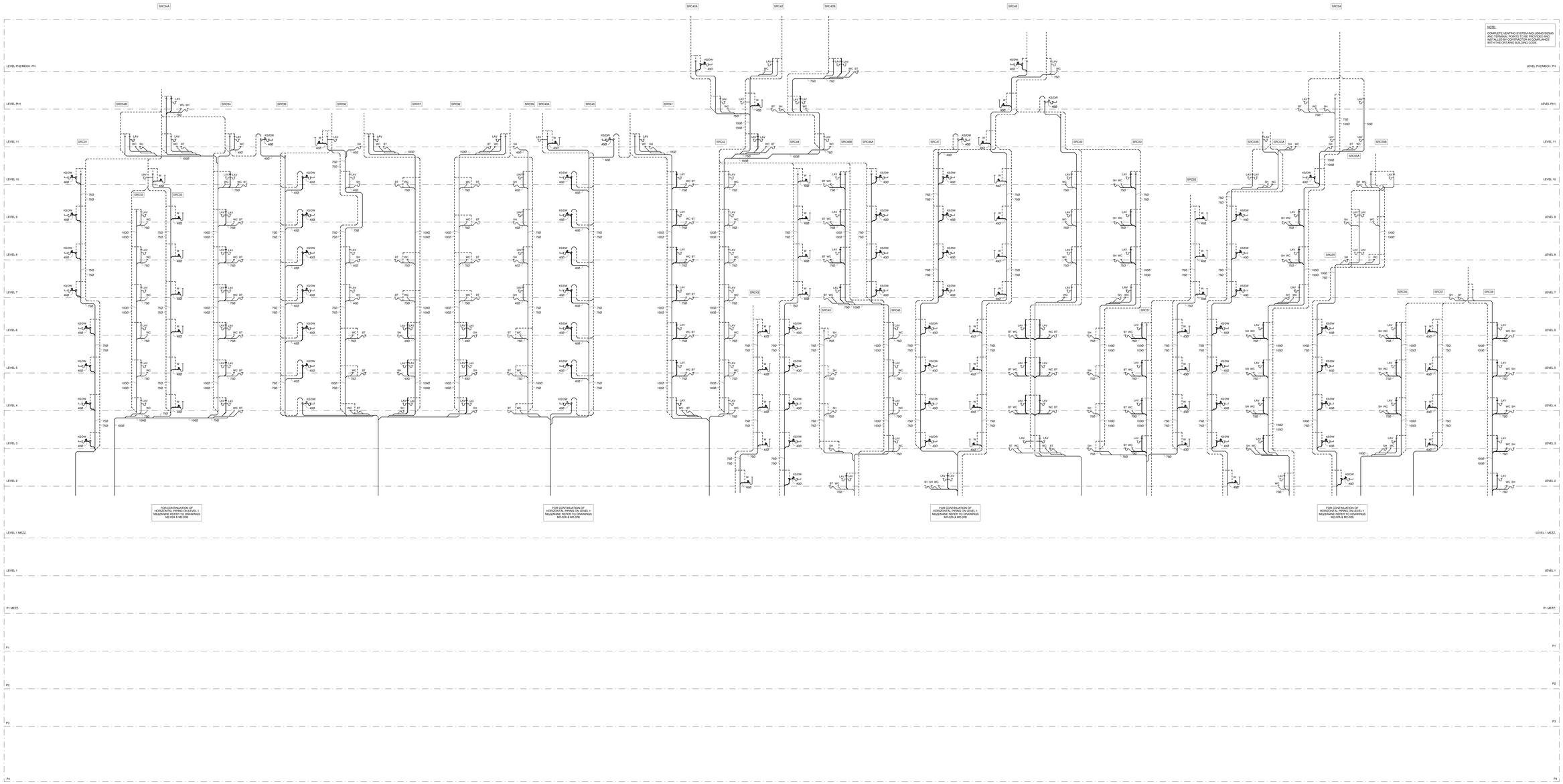

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Dauphin Kelowna Fort Saint John

No.	Revision	Date
1	ADD M-001	2015/10/26
2	ISSUED FOR ADD M-002	2016/XX/XX

No.	Issued For	Date
4		
3		
2		
1	ISSUED FOR CONSTRUCTION	2016-07-07

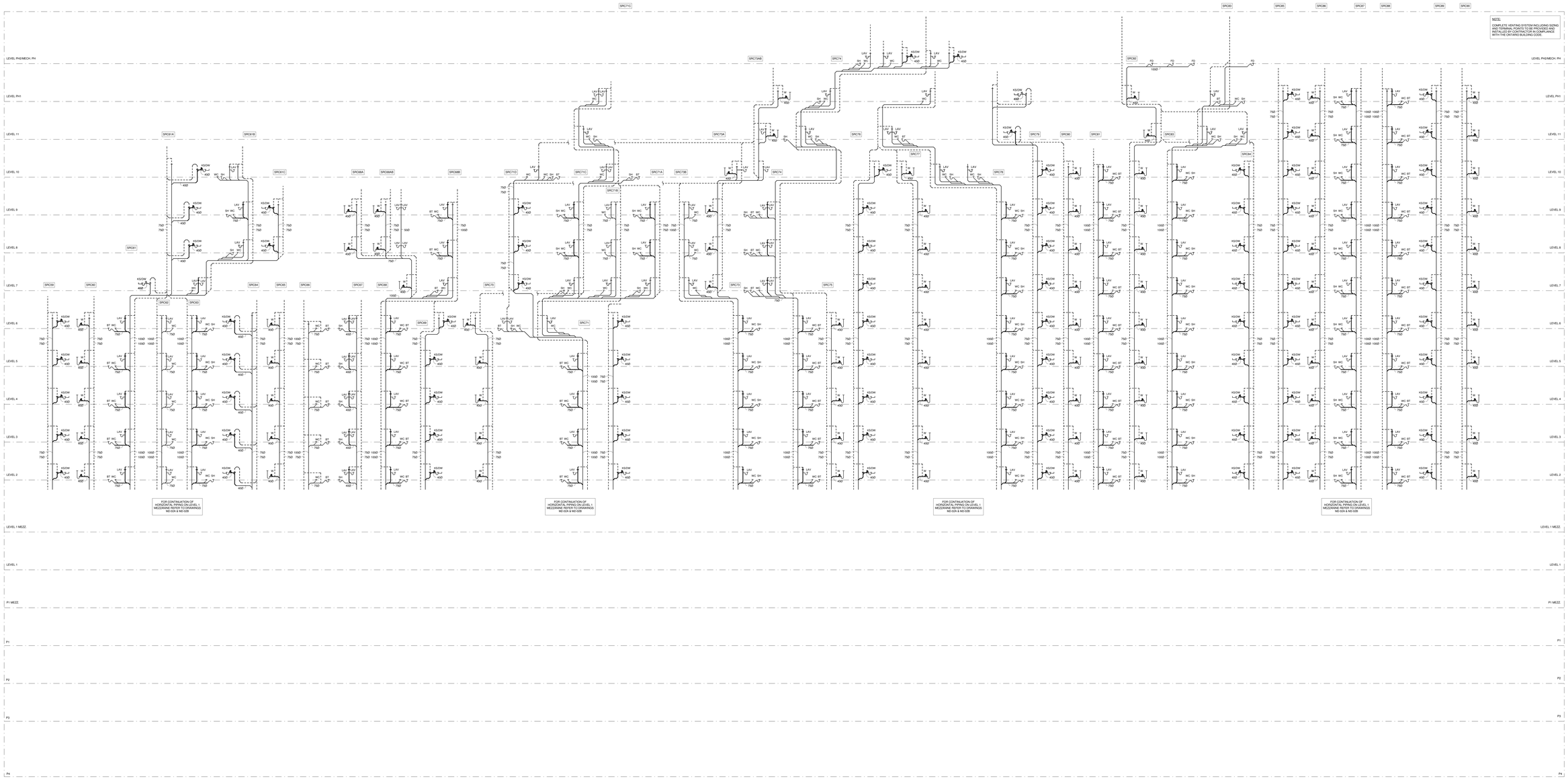
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
CONDO - SANITARY RISER DIAGRAM B

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

Scale	1 : 1
Drawn by	Author
Checked by	Checker
Project No.	8489D
Date	10/30/15
Drawing No.	M4-15B

N



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Toronto Vancouver Windsor Moncton Ottawa Halifax
Dauphin Kelowna Trail Saint John

No.	Revision	Date
1	ADD M-001	2015/10/26
2	ISSUED FOR ADD M-002	2016/XX/XX

No.	Issued For	Date
4		
3		
2		
1	ISSUED FOR CONSTRUCTION	2016-07-07

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
CONDO - SANITARY
RISER DIAGRAM C

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

Scale 1 : 1
Drawn by Author
Checked by Checker
Project No. 8489D
Date 10/30/15
Drawing No. M4-15C

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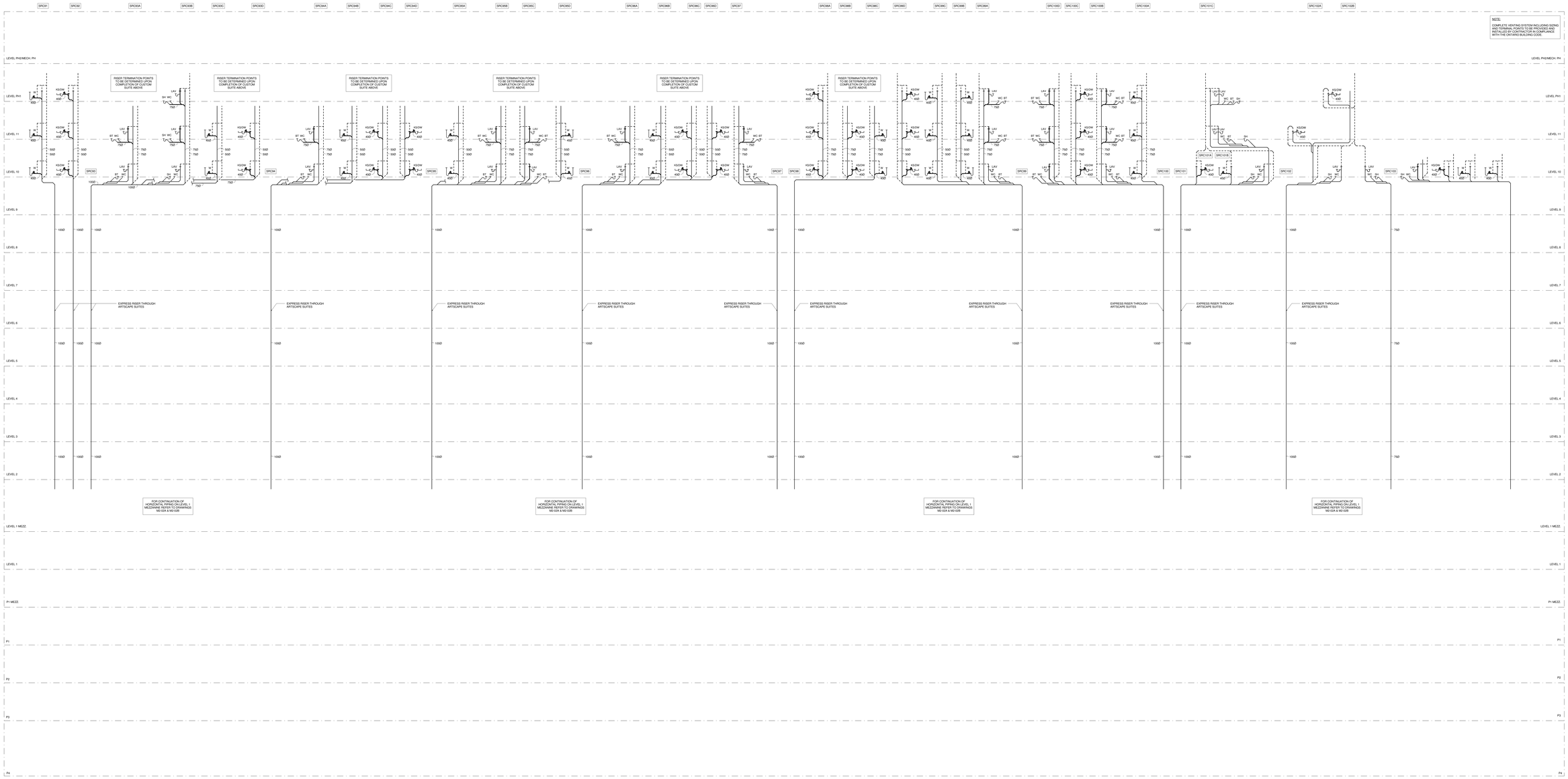

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Dauphin Kelowna Trail Saint John

No.	Revision	Date
1	ADD M-001	2015/10/30

No.	Issued For	Date
4		
3		
2		
1	ISSUED FOR CONSTRUCTION	2016-07-07

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

CONDO - SANITARY RISER DIAGRAM D

Project

Hines TRIDEL

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

Scale: 1 : 1

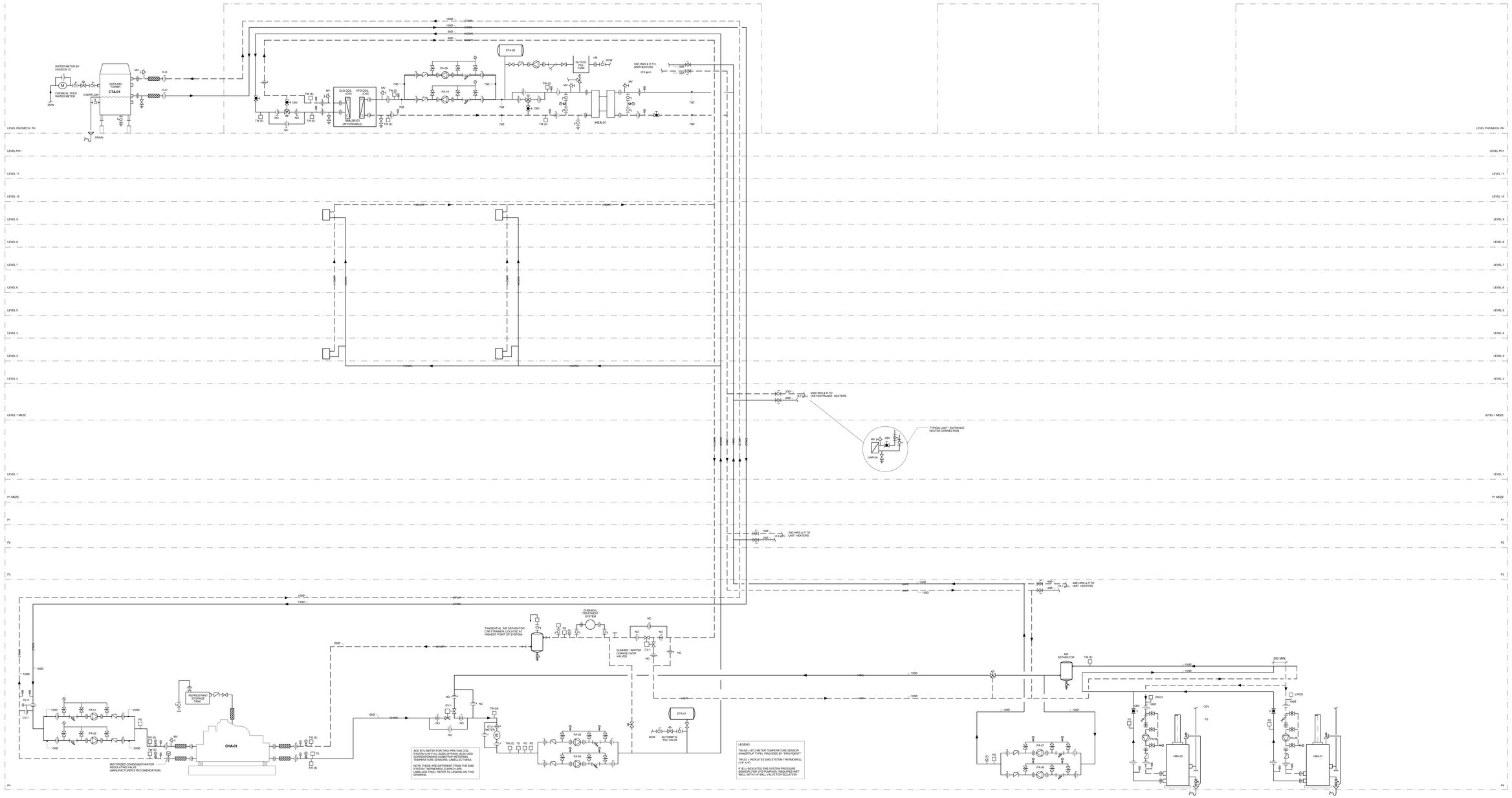
Drawn by: Author

Checked by: Checker

Project No: 8489D

Date: 10/30/15

Drawing No: M4-15D



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Dauphin Kitchener Trail Saint John

No.	Revision	Date
1	ADD M-001	2015/10/26
2	ISSUED FOR ADD M-002	2016/XX/XX
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-10-16
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	WT REVIEW	2015-05-01

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

ARTSCAPE - HEATING & COOLING SCHEMATIC

Project

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

Scale: NTS.

Drawn by: Author

Checked by: Checker

Project No: 8489D

Date: 04/08/15

Drawing No: M4-21

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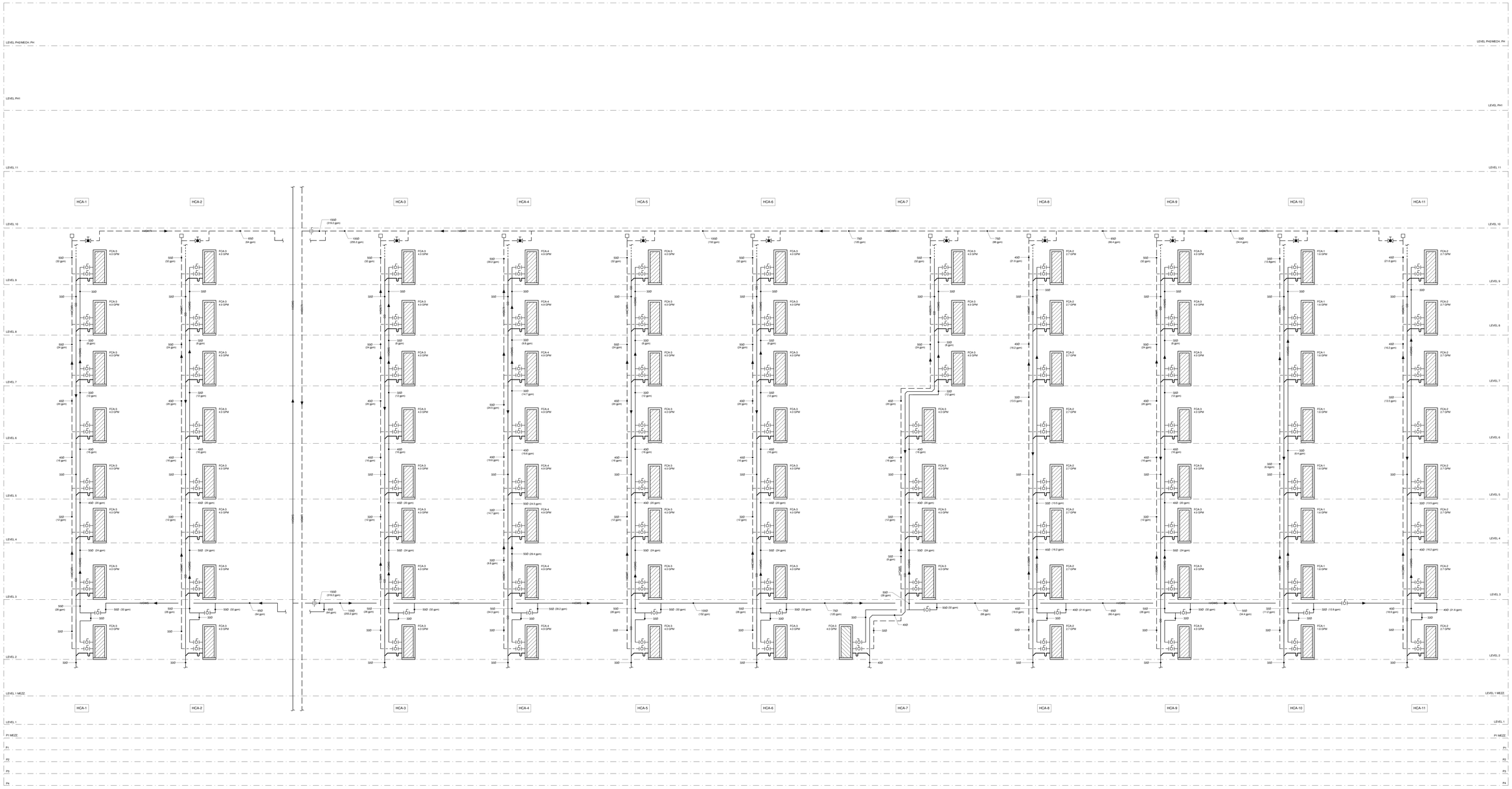

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Toronto Vancouver Windsor Moncton Ottawa Halifax Daughtry Kitchener Trail Saint John

No.	Revision	Date
4		
3		
2	ISSUED FOR CONSTRUCTION	2016-07-07
1	ISSUED FOR TENDER	2015-10-16

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

ARTSCAPE - FAN COIL RISER DIAGRAM

Project

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

Scale 1 : 1

Drawn by Author

Checked by Checker

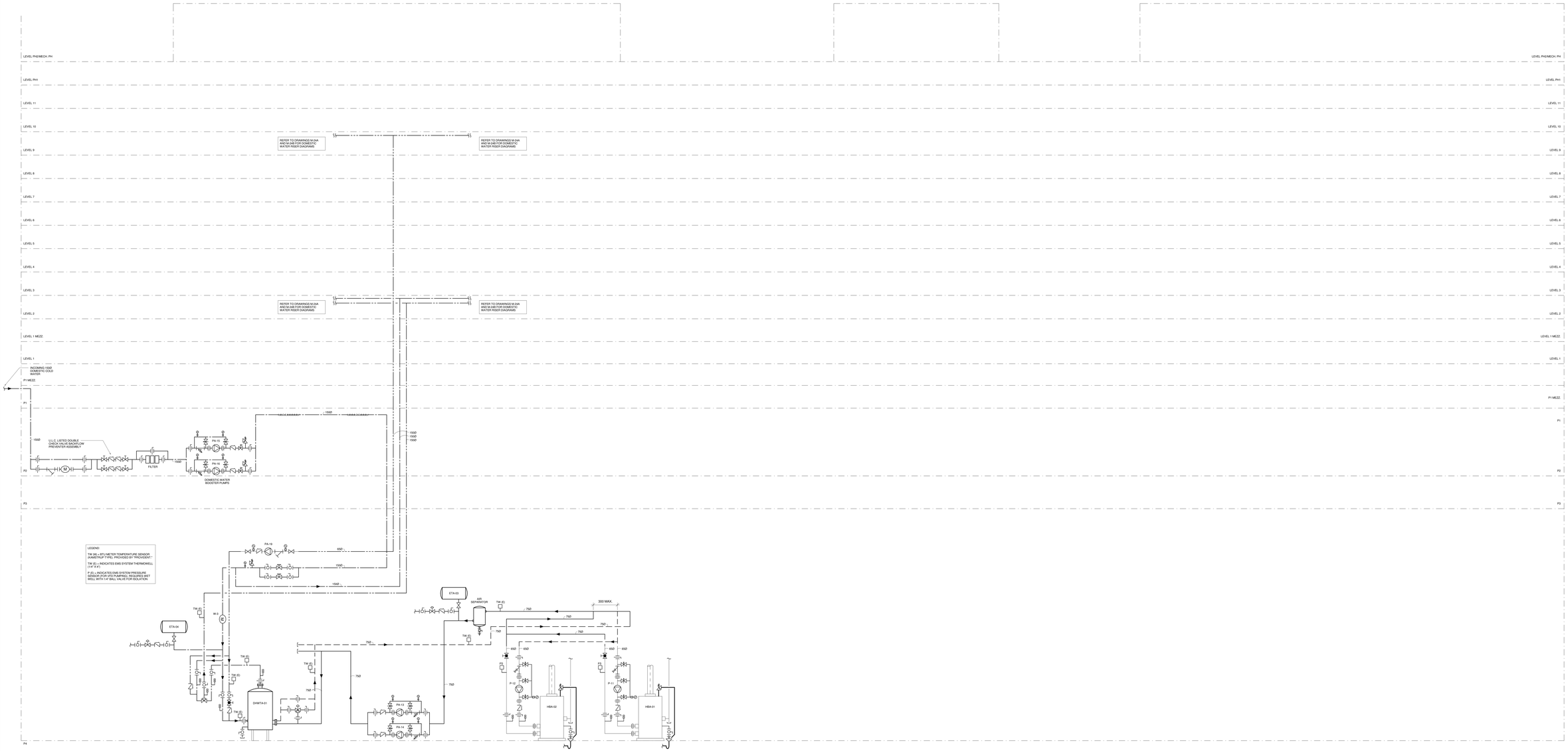
Project No. 8489D

Date 04/09/15

Drawing No. M4-22

N

File Date: 07/07/2016 1:43:48 PM File Path: C:\Users\jack.r\Documents\8489D - Aquavista - MEP_Revit_R13



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No.	Revision	Date
1	ADD M-001	2015/10/30

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR TENDER	2015-10-15
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

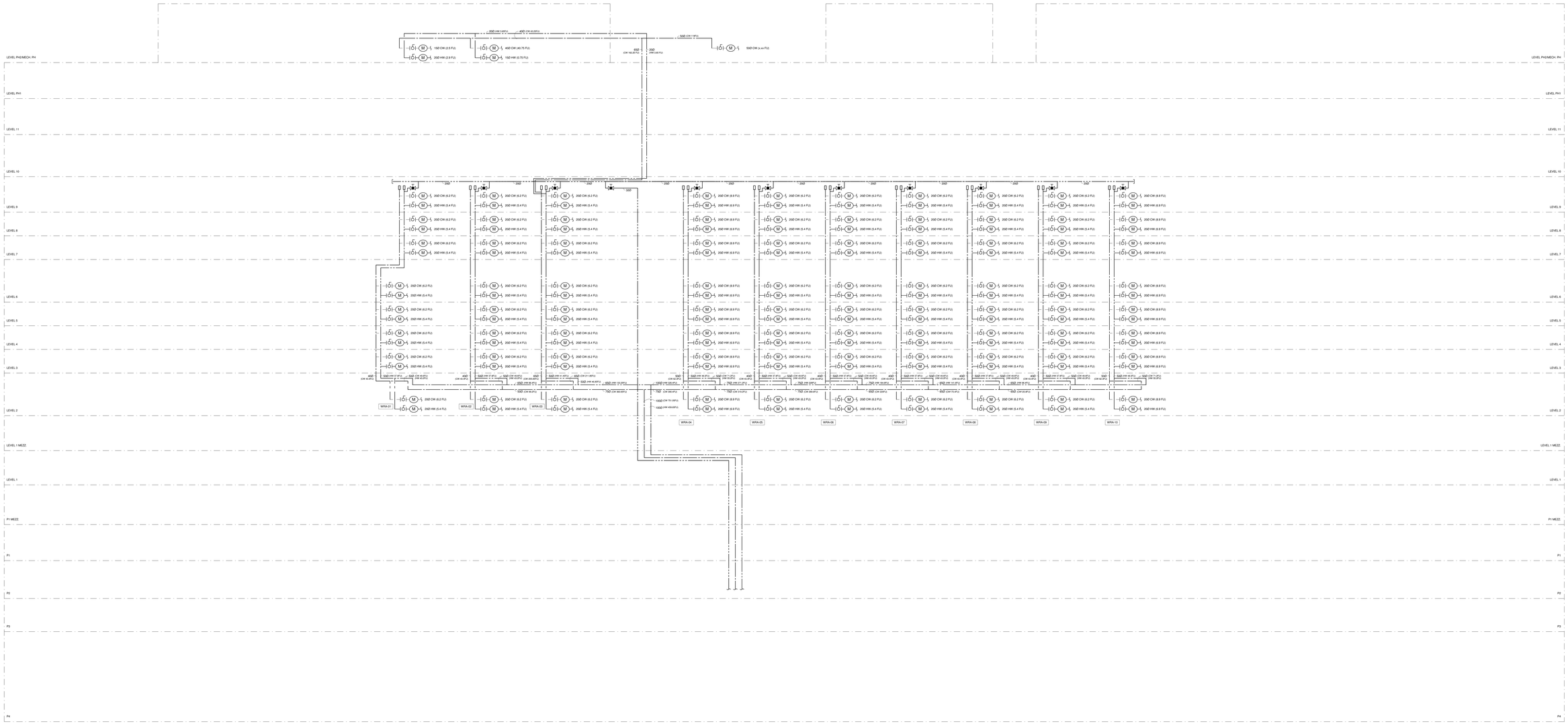
AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
ARTSCAPE - DOMESTIC WATER SCHEMATIC

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

Scale 1 : 1
Drawn by Author
Checked by Checker
Project No. 8489D
Date 04/09/15
Drawing No. M4-23

Plot Date : 07/17/2016 1:43:47 PM File Path : C:\Users\pkirk_a\Documents\8489D - Aquavista - MEP_Revit_R13



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No.	Revision	Date
4		
3		
2	ISSUED FOR CONSTRUCTION	2016-07-07
1	ISSUED FOR TENDER	2015-10-15

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

ARTSCAPE - DOMESTIC WATER RISER DIAGRAM

Project

Hines TRIDEL

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

Scale: 1 : 1

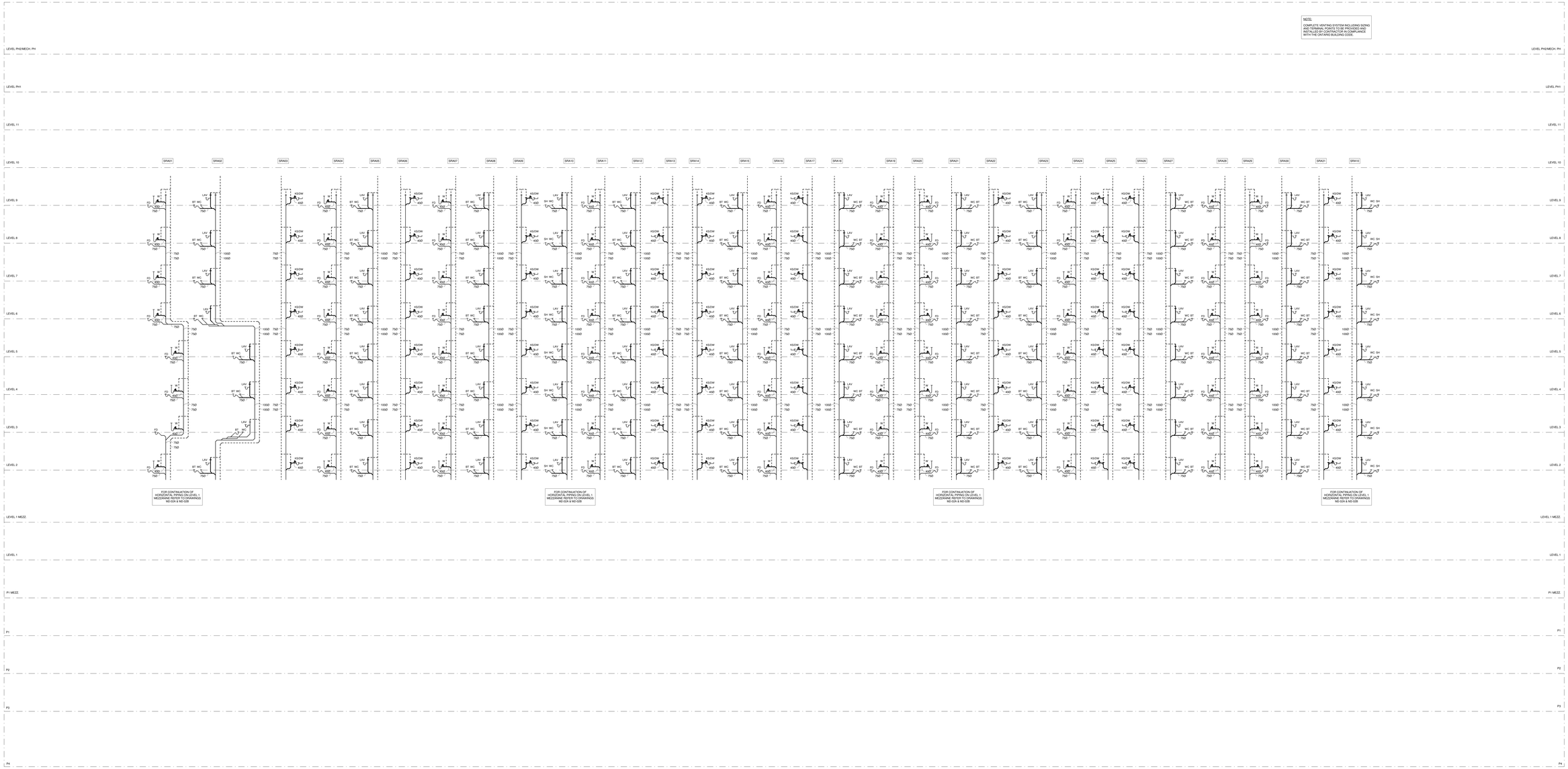
Drawn by: Author

Checked by: Checker

Project No: 8489D

Date: 04-09-15

Drawing No: M4-24A



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04-09-15

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No.	Revision	Date
1	ADD M-001	2015/10/30

No.	Issued For	Date
4		
3		
2		
1	ISSUED FOR CONSTRUCTION	2016-07-07

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

ARTSCAPE - SANITARY RISER DIAGRAM

Project

Hines TRIDEL

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

Scale: 1 : 1

Drawn by: Author

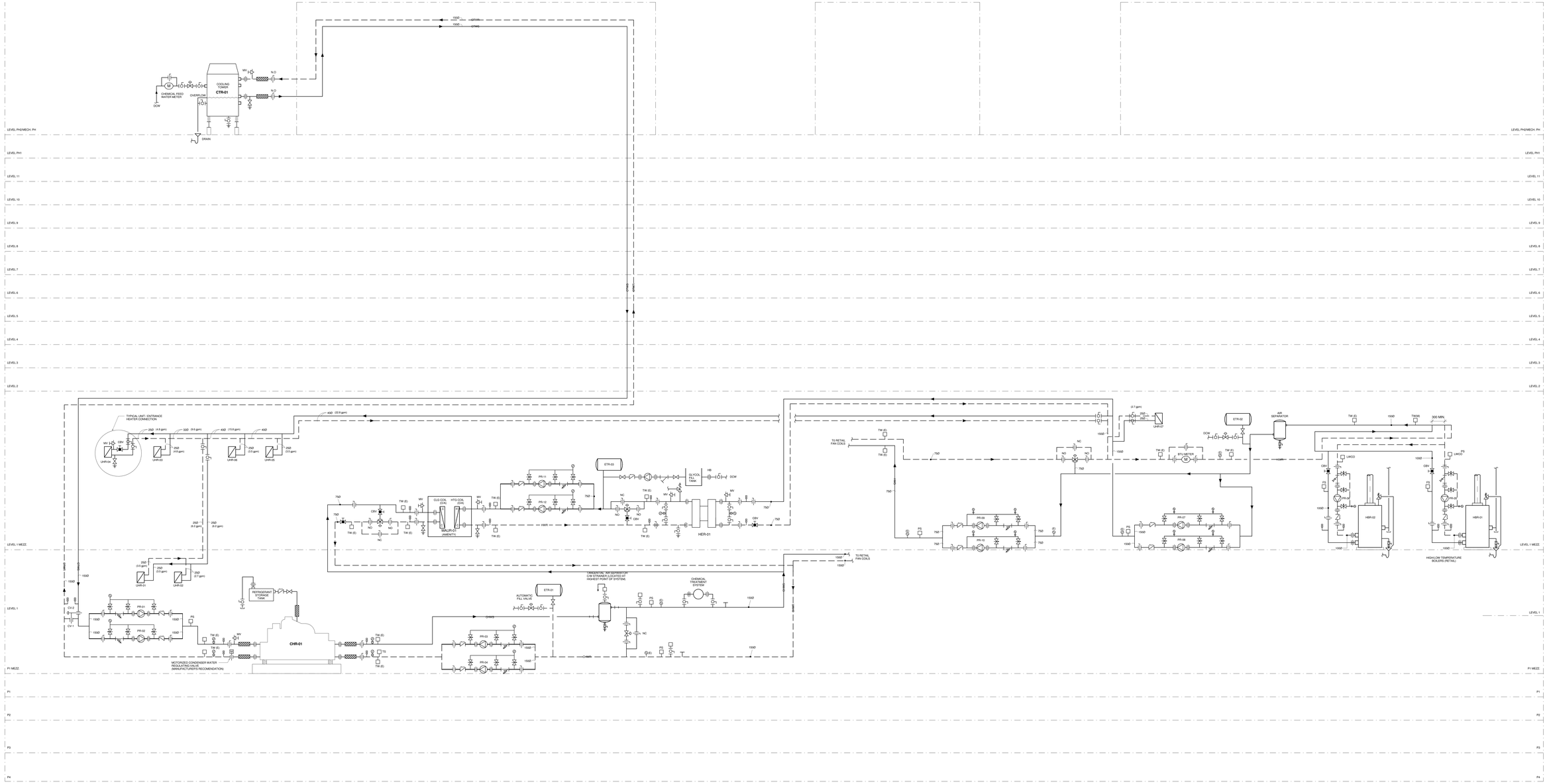
Checked by: Checker

Project No: 8489D

Date: 04-09-15

Drawing No:

M4-25A



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No.	Revision	Date
1	ADD M-001	2015/10/26
2	ISSUED FOR ADD M-002	2016/06/06

No.	Issued For	Date
4		
3		
2		
1	ISSUED FOR CONSTRUCTION	2016-07-07

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
RETAIL - HEATING & COOLING SCHEMATIC

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

Scale: NTS.
Drawn by: Author
Checked by: Checker
Project No: 8489D
Date: 10/21/15
Drawing No: M4-31

N

WATER CHILLER SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	CAPACITY (KW)	COOLER / EVAPORATOR FLOW (L/S)	EWT (°C)	LWT (°C)	PRE. DROP (KPA)	SAT. DISCHARGE TEMP. (°C)	CONDENSER FLOW (L/S)	EWT (°C)	LWT (°C)	PRE. DROP (KPA)	SAT. DISCHARGE TEMP. (°C)	INPUT POWER (kW)	NPLV.	REFRIGERANT	NO. OF COMPRESSOR	STEPS OF UNLOADING	MANUFACTURER	OPERATING WEIGHT (KG)	MODEL No.
CHC-01	MAG. CENTRI CHILLER	CROOM P4	4 PIPE FCU SYSTEM	CONDO	1195	51.5	11.1	5.6	48	-	64.4	29.4	35.0	39	35.7	205	0.356	R-134A	-	-	MCQUAY DAIKIN	-	WMC430D

REFERENCE	MIN. CIRCUIT AMPS	MAX. FUSE SIZE	POWER SUPPLY VOLTS	PHASE	FED FROM	EM.	NORM	STARTER SUPPLIED BY:	INSTALLED BY:	TYPE	CONTROLS MANUAL	AUTO.	INTERLOCK BY: DIV. 15	DIV. 16	OTHER REQUIREMENTS DISC. AT MOTOR	W.P. DISC. AT MOTOR	F.A. SHUT DOWN	OTHERS	REMARKS:
CHC-01	270	350	575	3	0WBD-6R2	-	YES	DIV. 15	DIV. 15	VFD	-	YES	YES	-	DIV. 15	-	-		MAGNETIC BEARING CHILLER c/w AUTOTRANSLINEATOR EQUIVALENT TO 300HP

NOTES:
1. REFER TO SECTION 15050 FOR WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION AND SPECIFICATION 15700 FOR FURTHER DETAILS.
3. FOULING FACTOR FOR COOLERS AND CONDENSERS: (0.0001) (0.00025).
4. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.
5. MECHANICAL CONTRACTORS SUPPLYING EQUIPMENT MUST COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ANY EQUIPMENT ORDERED OR ELECTRICAL WIRING INSTALLED.

COOLING TOWER SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	CAPACITY (KW)	SUMMER FLOW (L/S)	EWT (°C)	LWT (°C)	OUTDOOR TEMP. WB. (°C)	WINTER FLOW (L/S)	EWT (°C)	LWT (°C)	TUBES PRESS. DROP (KPA)	MODEL	OPERATING WEIGHT (KG)	MANUFACTURER	PAN HEATER (KW)	FAN MOTOR (KW)	MIN. CIRCUIT AMPS	MAX. FUSE SIZE
CTC-01	INDUCED DRAFT	ROOF	CHILLER # 1	CONDO	1195	64.4	35.0	29.4	24.4	-	-	-	-	PT2-0812A-3M1	-	BALTIMORE AIRCOIL	12	15.0	-	-

REFERENCE	POWER SUPPLY VOLTS	PHASE	FED FROM	EM.	NORM.	STARTER SUPPLIED BY:	INSTALLED BY:	TYPE	CONTROLS MANUAL	AUTO.	INTERLOCK BY: DIV. 15	DIV. 16	OTHER REQUIREMENTS DISC. AT MOTOR	W.P. DISC. AT MOTOR	F.A. SHUT DOWN	OTHERS	REMARKS:
CTC-01	575	3	DP-MRCE	-	YES	DIV. 15	DIV. 15	VFD	-	YES	YES	-	-	DIV. 15	-	-	VFD MUST BE COMPATIBLE WITH SIEMENS FCN BAS. 'BA9200 HEATER: LOW SOUND FAN. PROVIDE ALL INTERIOR WIRING AND CONTROL BY DIV 15 CONTRACTOR. PROVIDE SINGLE ELECTRICAL POWER FEED POINT TO THE ENTIRE UNIT.

NOTES:
1. REFER TO SECTION 15050 FOR WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION AND SPECIFICATION 15700 FOR FURTHER DETAILS.
3. FOULING FACTOR FOR COOLERS AND CONDENSERS: (0.0001) (0.00025).
4. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.
5. MECHANICAL CONTRACTORS SUPPLYING EQUIPMENT MUST COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ANY EQUIPMENT ORDERED OR ELECTRICAL WIRING INSTALLED.

BOILER SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	INPUT (KW)	OUTPUT (KW)	GAS TRAIN INLET PRESSURE (KPA)	OPERATING PRESSURE MAX. (KPA)	OPERATING TEMP. MAX. (°C)	MANUFACTURER	MODEL	AMPERE	POWER SUPPLY VOLTS	PHASE	FED FROM	EM.	NORM.	STARTER SUPPLIED BY:	INSTALLED BY:	TYPE	CONTROLS MANUAL	AUTO.	INTERLOCK BY: DIV. 15	DIV. 16	OTHER REQUIREMENTS DISC. AT MOTOR	W.P. DISC. AT MOTOR	F.A. SHUT DOWN	OTHERS	REMARKS:
HBC-01	LOW HEATING BOILER	MROOM P4	FCU HEATING	CONDO	570	524	MIN. 1 / MAX. 3.2	1137	93.3	LOCHINVAR	FBN 2000	13	120	1	2EP/RCP3	YES	-	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	DIV. 16	-	-	-	PROVIDE SHUT OFF SWITCH AT ROOM ENTRY (DIV. 16)
HBC-02	LOW HEATING BOILER	MROOM P4	FCU HEATING	CONDO	570	524	MIN. 1 / MAX. 3.2	1137	93.3	LOCHINVAR	FBN 2000	13	120	1	2PARCM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	DIV. 16	-	-	-	PROVIDE SHUT OFF SWITCH AT ROOM ENTRY (DIV. 16)
HBC-03	LOW HEATING BOILER	MROOM P4	FCU HEATING	CONDO	570	524	MIN. 1 / MAX. 3.2	1137	93.3	LOCHINVAR	FBN 2000	13	120	1	2PARCM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	DIV. 16	-	-	-	PROVIDE SHUT OFF SWITCH AT ROOM ENTRY (DIV. 16)
HBC-04	HIGH HEATING BOILER	MROOM P4	HIGH HEATING	CONDO	570	524	MIN. 1 / MAX. 3.2	1137	93.3	LOCHINVAR	FBN 2000	13	120	1	2PARCM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	DIV. 16	-	-	-	PROVIDE SHUT OFF SWITCH AT ROOM ENTRY (DIV. 16)
HBC-05	HIGH HEATING BOILER	MROOM P4	HIGH HEATING	CONDO	570	524	MIN. 1 / MAX. 3.2	1137	93.3	LOCHINVAR	FBN 2000	13	120	1	2PARCM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	DIV. 16	-	-	-	PROVIDE SHUT OFF SWITCH AT ROOM ENTRY (DIV. 16)
HBC-06	DHW HEATING BOILER	MROOM P4	DHW SYSTEM	CONDO	366	352	MIN. 1 / MAX. 3.2	1137	93.3	LOCHINVAR	FBN 1251	10	120	1	3PARCM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	DIV. 16	-	-	-	PROVIDE SHUT OFF SWITCH AT ROOM ENTRY (DIV. 16)
HBC-07	DHW HEATING BOILER	MROOM P4	DHW SYSTEM	CONDO	366	352	MIN. 1 / MAX. 3.2	1137	93.3	LOCHINVAR	FBN 1251	10	120	1	2PARCM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	DIV. 16	-	-	-	PROVIDE SHUT OFF SWITCH AT ROOM ENTRY (DIV. 16)
HBC-08	DHW HEATING BOILER	MROOM P4	DHW SYSTEM	CONDO	366	352	MIN. 1 / MAX. 3.2	1137	93.3	LOCHINVAR	FBN 1251	10	120	1	2PARCM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	DIV. 16	-	-	-	PROVIDE SHUT OFF SWITCH AT ROOM ENTRY (DIV. 16)

NOTES:
1. REFER TO SECTION 15050 FOR WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION AND SPECIFICATION 15700 FOR FURTHER DETAILS.
3. FOULING FACTOR FOR COOLERS AND CONDENSERS: (0.0001) (0.00025).
4. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.
5. MECHANICAL CONTRACTORS SUPPLYING EQUIPMENT MUST COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ANY EQUIPMENT ORDERED OR ELECTRICAL WIRING INSTALLED.
6. PROVIDE MODULATING CENTRALIZED CONTROLLER WITH INDOOR OUTDOOR RESET FOR BOILERS.
7. PROVIDE FLOW SWITCH, LOW WATER CUT OFF, PRESSURE REDUCING VALVES, AUX. CONTACTS FOR BAS.

MAKE UP AIR UNIT SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	SUPPLY AIR (L/S)	EXHAUST AIR (L/S)	COOLING TOTAL (KW)	COOLING SENS (KW)	COOLING WATER FLOW (L/S)	HEATING TOTAL (KW)	HEATING SENS (KW)	HEATING WATER FLOW (L/S)	P.W.L. db RE 10^12 WATTS OCTAVE BAND 1	2	3	4	5	6	7	8	E.S.P. (KPA)	MANUFACTURER	MODEL	ERV MOTOR (KW)	EXHAUST FAN MOTOR (KW)	SUPPLY FAN MOTOR (KW)	F. LOAD AMPS	MAX. FUSE AMPS
MAUC-01	AMENITY MAU	LEVEL P1	AMENITY	CONDO	1415	1275	17.2	11.6	0.8	88.3	-	2.0									0.37/0.30	MCQUAY DAIKIN	CAH010ODAM	0.37	3.7	5.6	-	
MAUC-02	CONDO MAU	LEVEL L1 M2	CORRIDOR	CONDO	3775	-	84.4	46.1	3.2	218	-	5.1									0.30	MCQUAY DAIKIN	CAH017ODAC	-	-	11.2	14.1	
MAUC-03	CONDO MAU	LEVEL PH	CORRIDOR	CONDO	4010	-	96.3	53.5	4.3	227	-	5.3									0.30	MCQUAY DAIKIN	CAH017ODAC	-	-	11.2	14.1	

REFERENCE	POWER SUPPLY VOLTS	PHASE	FED FROM	EM.	NORM.	STARTER SUPPLIED BY:	INSTALLED BY:	TYPE	CONTOLS MANUAL	AUTO.	INTERLOCK BY: DIV. 15	DIV. 16	OTHER REQUIREMENTS: W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT	OTHERS	REMARKS:
MAUC-01	575	3	6P/RCM, 2P/RCAM	-	YES	DIV. 15	DIV. 15	VFD	-	YES	YES	-	-	DIV. 15	-		C/W ISOLATION DISCONNECT, FIRE STAT, DUCT STAT & HEAT WHEEL, DUCT MOUNTED PLTSB1 BOX WITH MERV 8 PRE & MERV 13 CARBON FILTER AS PER A. G. REPORT. VFD MUST BE COMPATIBLE WITH SIEMENS FCN BAS. COIL BYPASS, INLET MOTORIZED DAMPER/BAGHOUSE/C.FILTER GAUGES, PRESSURE DIFFERENTIAL SENSORS, ALARM TO BMS WHEN PRESSURE DROP EXCEEDS 1.2 IN WG AS RECOMMENDED BY THE FILTER MANUFACTURER. POWER SUPPLY : 575V/3P/60H ; 2 NOS. AND 120V/1P/60H ; 1 NO.
MAUC-02	575	3	6P/RCM	-	YES	DIV. 15	DIV. 15	VFD	-	YES	YES	-	-	DIV. 15	-		C/W ISOLATION DISCONNECT, FIRE STAT, DUCT STAT & MERV 8 PRE & MERV 13 CARBON FILTER AS PER A. G. REPORT. VFD MUST BE COMPATIBLE WITH SIEMENS FCN BAS. COIL BYPASS, INLET MOTORIZED DAMPER/BAGHOUSE/C.FILTER GAUGES, PRESSURE DIFFERENTIAL SENSORS, ALARM TO BMS WHEN PRESSURE DROP EXCEEDS 1.2 IN WG AS RECOMMENDED BY THE FILTER MANUFACTURER.
MAUC-03	575	3	DP-6RRCE	-	YES	DIV. 15	DIV. 15	VFD	-	YES	YES	-	-	DIV. 15	-		C/W ISOLATION DISCONNECT, FIRE STAT, DUCT STAT & MERV 8 PRE & MERV 13 CARBON FILTER AS PER A. G. REPORT. VFD MUST BE COMPATIBLE WITH SIEMENS FCN BAS. COIL BYPASS, INLET MOTORIZED DAMPER/BAGHOUSE/C.FILTER GAUGES, PRESSURE DIFFERENTIAL SENSORS, ALARM TO BMS WHEN PRESSURE DROP EXCEEDS 1.2 IN WG AS RECOMMENDED BY THE FILTER MANUFACTURER.

NOTES:
1. REFER TO SECTION 15050 FOR WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION AND SPECIFICATION 15700 FOR FURTHER DETAILS.
3. REFER TO SECTION 15100 FOR VIBRATION ISOLATION.
4. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.
5. MECHANICAL CONTRACTORS SUPPLYING EQUIPMENT MUST COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ANY EQUIPMENT ORDERED OR ELECTRICAL WIRING INSTALLED.
6. ANY INCREASE IN ELECT. COSTS DUE TO MECH. EQUIPMENT SUBSTITUTION TO BE CARRIED BY DIVISION 15.

COOLING / HEATING COIL SCHEDULE

REFERENCE	DESCRIPTION	SERVICE	OWNERSHIP	TOTAL AIR FLOW (L/S)	COIL AIR FLOW (L/S)	COOLING CAPACITY (KW) TOTAL	SENSIBLE	HEATING CAPACITY (KW)	COOLING EAT (°C)	LAT (°C)	FLOW (L/S)	EWT (°C)	LWT (°C)	PRE. DP. (KPA)	HEATING EAT (°C)	LAT (°C)	FLOW (L/S)	EWT (°C)	LWT (°C)	PRE. DP. (KPA)	FLUID	MANUFACTURER
CC-01	COOLING COIL	MAUC-01 COOLING	CONDO	1415	708	17.2	11.6	-	26.6/19.4	12.8/12.2	0.8	5.6	11.1	6	-	-	-	-	-	-	WATER	MCQUAY DAIKIN
HC-01	HEATING COIL	MAUC-01 HEATING	CONDO	1415	1415	-	-	88.3	-	-	-	-	-	-	-20.0	27.7	2.0	71.1	60.0	15	40% P.GLY.	MCQUAY DAIKIN
CC-02	COOLING COIL	MAUC-02 COOLING	CONDO	3775	2030	85	46	-	31.1/23.3	12.0/12.1	3.2	5.6	11.1	26	-	-	-	-	-	-	WATER	MCQUAY DAIKIN
HC-02	HEATING COIL	MAUC-02 HEATING	CONDO	3775	3775	-	-	218	-	-	-	-	-	-	-20.0	26.5	5.1	71.1	60.0	22	40% P.GLY.	MCQUAY DAIKIN
CC-03	COOLING COIL	MAUC-03 COOLING	CONDO	4010	2360	96.3	53.5	-	31.1/23.3	12.0/11.9	4.3	5.6	11.1	44	-	-	-	-	-	-	WATER	MCQUAY DAIKIN
HC-03	HEATING COIL	MAUC-03 HEATING	CONDO	4010	4010	-	-	227	-	-	-	-	-	-	-20.0	25.8	5.3	71.1	60.0	25	40% P.GLY.	MCQUAY DAIKIN

REMARKS:

NOTES:

ENERGY RECOVERY VENTILATOR SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	NORMAL SPEED OPERATION SUPPLY AIR (L/S)	EXHAUST AIR (L/S)	HIGH SPEED OPERATION SUPPLY AIR (L/S)	EXHAUST AIR (L/S)	E.S.P. (KPA)	ENT. AIR TEMP. (C) WINTER	SUMMER	MANUFACTURER	MODEL	ENERGY REQUIRED (AMPS)	MOTOR SIZE (KW)
ERVC-A	ENERGY RECOVERY UNIT	TYPICAL SUITES	TYPICAL SUITES	CONDO	25	22.5	50	45	0.10	-20	32.2	REVERSOMATIC	RERV D100	-	0.15
ERVC-B	ENERGY RECOVERY UNIT	TYPICAL SUITES	TYPICAL SUITES	CONDO	30	27	50	45	0.10	-20	32.2	REVERSOMATIC	RERV D100	-	0.15
ERVC-C	ENERGY RECOVERY UNIT	TYPICAL SUITES	TYPICAL SUITES	CONDO	35	31.5	60	54	0.10	-20	32.2	REVERSOMATIC	RERV D100	-	0.15
ERVC-D	ENERGY RECOVERY UNIT	TYPICAL SUITES	TYPICAL SUITES	CONDO	40	36	60	54	0.10	-20	32.2	REVERSOMATIC	RERV D100	-	0.15
ERVC-E	ENERGY RECOVERY UNIT	AMENITY L2	AMENITY L2	CONDO	360	320	350	315	0.10	-20	32.2	ALDES	E110R-F1	10.5	1.26
ERVC-F	ENERGY RECOVERY UNIT	AMENITY L2	AMENITY L2	CONDO	360	320	350	315	0.10	-20	32.2	ALDES	E110R-F1	10.5	1.26

REFERENCE	POWER SUPPLY VOLTS	PHASE	FED FROM	EM.	NORM.	STARTER SUPPLIED BY:	INSTALLED BY:	TYPE	CONTOLS MANUAL	AUTO.	INTERLOCK BY: DIV. 15	DIV. 16	OTHER REQUIREMENTS: DISC. AT MOTOR	W.P. DISC. AT MOTOR	F.A. SHUT	OTHERS	REMARKS:
ERVC-A	120	1	SUITE PANEL	-	YES	DIV. 15	DIV. 15	PKG	-	YES	YES	-	PLUG	-	-		C/W CAMFIL ACTIVATED CARBON MERV 8 FILTERS, ECM MOTOR AND CONTROLS
ERVC-B	120	1	SUITE PANEL	-	YES	DIV. 15	DIV. 15	PKG	-	YES	YES	-	PLUG	-	-		C/W CAMFIL ACTIVATED CARBON MERV 8 FILTERS, ECM MOTOR AND CONTROLS
ERVC-C	120	1	SUITE PANEL	-	YES	DIV. 15	DIV. 15	PKG	-	YES	YES	-	PLUG	-	-		C/W CAMFIL ACTIVATED CARBON MERV 8 FILTERS, ECM MOTOR AND CONTROLS
ERVC-D	120	1	SUITE PANEL	-	YES	DIV. 15	DIV. 15	PKG	-	YES	YES	-	PLUG	-	-		C/W CAMFIL ACTIVATED CARBON MERV 8 FILTERS, ECM MOTOR AND CONTROLS
ERVC-E	120	1	2P/RCAM	-	YES	DIV. 15	DIV. 15	PKG	-	YES	YES	-	PLUG	-	-		C/W CAMFIL ACTIVATED CARBON MERV 13 FILTERS AND CONTROLS
ERVC-F	120	1	2P/RCAM	-	YES	DIV. 15	DIV. 15	PKG	-	YES	YES	-	PLUG	-	-		C/W CAMFIL ACTIVATED CARBON MERV 13 FILTERS AND CONTROLS

NOTES:

HEAT EXCHANGER SCHEDULE

REFERENCE	LOCATION	SERVICE	OWNERSHIP	PRIMARY FLUID	FLOW US (L/S)	P.D. (KPA)	EWT (°C)	LWT (°C)	PRE. RATING (KPA)	SECONDARY FLUID	FLOW US (L/S)	P.D. (KPA)	EWT (°C)	LWT (°C)	PRE. RATING (KPA)	FUNCTION	MANUFACTURER	TYPE	MODEL NUMBER	REMARKS:
HEC-01	MAU ROOM P1	MAUC-01 HEATING	CONDO	WATER	1.9	9	82.2	71.1	1034	40% P.GLY.	2.0	12	60.0	71.1	1034	HEATING	BELL & GOSSETT	PLATE AND FRAME	P14	
HEC-02	MAU ROOM L1 M2	MAUC-02 HEATING	CONDO	WATER	5.0	17	82.2	71.1	1034	40% P.GLY.	5.1	22	60.0	71.1	1034	HEATING	BELL & GOSSETT	PLATE AND FRAME	P14	
HEC-03	MAU ROOM PH	MAUC-03 HEATING	CONDO	WATER	5.1	19	82.2	71.1	1034	40% P.GLY.	5.3	24	60.0	71.1	1034	HEATING	BELL & GOSSETT	PLATE AND FRAME	P14	

NOTES:

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.
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09/29/12
Date

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No.	Revision	Date
1	ADD M-001	2015/10/30

No.	Issued For	Date
	ISSUED FOR CONSTRUCTION	2016-07-07
4	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-12-15
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-15

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
CONDO - EQUIPMENT SCHEDULES #1

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

Scale 1 : 1
Drawn by S.J.
Checked by Checker
Project No. 8489D
Date 09/29/12
Drawing No. ME-11

PUMP SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	OWNERSHIP	WATER FLOW (L/S)	HEAD (KPA)	RPM	MANUFACTURER	TYPE / SIZE	ENERGY REQUIRED (HP)	MOTOR SIZE (KW)	POWER SUPPLY					STARTER					CONTROLS				OTHER REQUIREMENTS			REMARKS:	NOTES:
											VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY: DIV. 15	SUPPLIED BY: DIV. 16	INSTALLED BY: DIV. 15	INSTALLED BY: DIV.16	TYPE	MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV. 16	W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT.		
PC-01	CONDENSER WATER PUMP	M/ROOM P4	CONDO	64.4	274	1800	ARMSTRONG	4300 08/11-040	-	30.0	575	3	6P/RCM	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT, ONE DUTY / ONE STANDBY.	
PC-02	CONDENSER WATER PUMP	M/ROOM P4	CONDO	64.4	274	1800	ARMSTRONG	4300 08/11-040	-	30.0	575	3																	
PC-03	CHILLED WATER PUMP	M/ROOM P4	CONDO	51.5	324	1800	ARMSTRONG	4300 08/11-040	-	30.0	575	3	6P/RCM	-	YES	YES	-	YES	-	VFD	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT. INTEGRATED VFD WITH SENSORLESS CONTROL SOFTWARE. - ONE DUTY / ONE STANDBY. PACKAGE UNIT VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS.	
PC-04	CHILLED WATER PUMP	M/ROOM P4	CONDO	51.5	324	1800	ARMSTRONG	4300 08/11-040	-	30.0	575	3								VFD									
PC-05	BOILER # 1 PUMP	M/ROOM P4	CONDO	8.8	74	1800	ARMSTRONG	4360 0306-002		1.5	575	3	6EP/RCM	YES	-	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT	
PC-06	BOILER # 2 PUMP	M/ROOM P4	CONDO	8.8	74	1800	ARMSTRONG	4360 0306-002		1.5	575	3	6P/RCM	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT	
PC-07	BOILER # 3 PUMP	M/ROOM P4	CONDO	8.8	74	1800	ARMSTRONG	4360 0306-002		1.5	575	3	6P/RCM	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT	
PC-08	BOILER # 4 PUMP	M/ROOM P4	CONDO	8.8	60	1800	ARMSTRONG	4360 0306-011.5		1.1	575	3	6P/RCM	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT	
PC-09	BOILER # 5 PUMP	M/ROOM P4	CONDO	8.8	60	1800	ARMSTRONG	4360 0306-011.5		1.1	575	3	6P/RCM	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT	
PC-10	HIGH TEMP. SEC. PUMP	M/ROOM P4	CONDO	16.0	195	1800	ARMSTRONG	4300 0308-007.5		5.6	575	3	6P/RCM	-	YES	YES	-	YES	-	VFD	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT. INTEGRATED VFD WITH SENSORLESS CONTROL SOFTWARE. - ONE DUTY / ONE STANDBY. PACKAGE UNIT VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS.	
PC-11	HIGH TEMP. SEC. PUMP	M/ROOM P4	CONDO	16.0	195	1800	ARMSTRONG	4300 0308-007.5		5.6	575	3								VFD									
PC-12	LOW TEMP. SEC. PUMP	M/ROOM P4	CONDO	28.4	255	1800	ARMSTRONG	4300 0610-020		15.0	575	3	6EP/RCM	YES	-	YES	-	YES	-	VFD	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT. INTEGRATED VFD WITH SENSORLESS CONTROL SOFTWARE. - ONE DUTY / ONE STANDBY. PACKAGE UNIT VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS.	
PC-13	LOW TEMP. SEC. PUMP	M/ROOM P4	CONDO	28.4	255	1800	ARMSTRONG	4300 0610-020		15.0	575	3								VFD									
PC-14	MUA-1 HEATING PUMP	M/ROOM P1	CONDO	2.0	125	1800	ARMSTRONG	4360 1508-001.5		1.1	575	3	6P/RCM	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT, ONE DUTY / ONE STANDBY.PACKAGE UNIT	
PC-15	MUA-1 HEATING PUMP	M/ROOM P1	CONDO	2.0	125	1800	ARMSTRONG	4360 1508-001.5		1.1	575	3																	
PC-16	MUA-2 HEATING PUMP	M/ROOM L1 M2	CONDO	5.1	130	1800	ARMSTRONG	4380 0208-003		2.2	575	3	6P/RCM	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT, ONE DUTY / ONE STANDBY. PACKAGE UNIT	
PC-17	MUA-2 HEATING PUMP	M/ROOM L1 M2	CONDO	5.1	130	1800	ARMSTRONG	4380 0208-003		2.2	575	3																	
PC-18	MUA-3 HEATING PUMP	M/ROOM P4	CONDO	5.3	130	1800	ARMSTRONG	4380 0208-003		2.2	575	3	DP-6P/RCE	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT, ONE DUTY / ONE STANDBY. PACKAGE UNIT	
PC-19	MUA-3 HEATING PUMP	M/ROOM P4	CONDO	5.3	130	1800	ARMSTRONG	4380 0208-003		2.2	575	3																	
PC-20	BOILER # 6 PUMP	M/ROOM P4	CONDO	5.7	80	1800	ARMSTRONG	4360 0306-001.5		1.1	575	3	6P/RCM	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT	
PC-21	BOILER # 7 PUMP	M/ROOM P4	CONDO	5.7	80	1800	ARMSTRONG	4360 0306-001.5		1.1	575	3	6P/RCM	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT	
PC-22	BOILER # 8 PUMP	M/ROOM P4	CONDO	5.7	80	1800	ARMSTRONG	4360 0306-001.5		1.1	575	3	6P/RCM	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT	
PC-23	DHW HEATING SEC. PUMP	M/ROOM P4	CONDO	19.2	170	1800	ARMSTRONG	4300 0308-007.5		5.6	575	3	6P/RCM	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV. 15	-	CW ISOLATION DISCONNECT. - ONE DUTY / ONE STANDBY	
PC-24	DHW HEATING SEC. PUMP	M/ROOM P4	CONDO	19.2	170	1800	ARMSTRONG	4300 0308-007.5		5.6	575	3																	
PC-25	DOMESTIC BOOSTER PUMP	M/ROOM P1	CONDO	10.1	560	3525	GRUNDFOS	MPC-E(CUE) 3CR32-3	-	11.2	575	3	SWBD-6/RC	-	YES	YES	-	YES	-	VFD	-	YES	YES	-	-	DIV. 15	-	PACKAGE C/W CONTROL PANEL, VFD, PRYS AND EXPANSION TANK PRESSURES REQUIRED AFTER PRV - MANUFACTURER TO CONFIRM STRICT PRESSURE AT SITE PRIOR TO MANUFACTURE OF PUMPS. VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS. PROVIDE 2 SEPARATE CONTROLLERS (ONE NORMAL ONE EMERGENCY POWER) WITH INTERLOCKED CONTROLS TO ALLOW EMERGENCY PUMP TO OPERATE UNDER EMERGENCY POWER.	
PC-26	DOMESTIC BOOSTER PUMP	M/ROOM P1	CONDO	10.1	560	3525	GRUNDFOS	MPC-E(CUE) 3CR32-3	-	11.2	575	3								VFD									
PC-27	DOMESTIC BOOSTER PUMP	M/ROOM P4	CONDO	10.1	560	3525	GRUNDFOS	MPC-E(CUE) 3CR32-3	-	11.2	575	3	6EP/RCP2	YES	-	YES	-	YES	-	VFD	-	YES	YES	-	-	DIV. 15	-		
PC-28	FIRE PUMP	M/ROOM	CONDO	47.3	760	3600	ARMSTRONG	VIL-4x4LB-F-75	-	37.3	575	3	SWRC, DP-6ERRC	YES	-	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV. 15	-	PACKAGE UNIT C/W ULC LABELED, CONTROLLER REDUCED VOLTAGE STARTER TRANSFER SWITCH AND JOCKEY PUMP.	
PC-29	JOCKEY PUMP	M/ROOM	CONDO	0.5	820	3600	ARMSTRONG	4700-VMS-03-06-2	-	2.2	575	3	6EP/RCM	YES	-	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV. 15	-		
PC-30	SANITARY SUMP PUMP	FD LEVEL	CONDO	6.3	240	1800	BARNES	4SE-7554L	-	5.6	575	3	6EP/RCM	YES	-	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV. 15	-	CW SLIDE AWAY COUPLINGS, GALVANIZED LIFTING CHAINS, DUPLEX CONTROL PANEL, DISCONNECT SWITCH IN CEMA 1 ENCLOSURE, C/W HIGH WATER ALARM PANEL, EXTRA RELAY IN CEMA 1 ENCLOSURE AND MECHANICAL FLOAT SWITCHES.	
PC-31	SANITARY SUMP PUMP	FD LEVEL	CONDO	6.3	240	1800	BARNES	4SE-7554L	-	5.6	575	3																	
PC-32	STORM SUMP PUMP	FD LEVEL	CONDO	3.2	300	1800	BARNES	4SE-1135-6L	-	8.4	575	3	6EP/RCM	YES	-	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV. 15	-	CW SLIDE AWAY COUPLINGS, GALVANIZED LIFTING CHAINS, DUPLEX CONTROL PANEL, DISCONNECT SWITCH IN CEMA 1 ENCLOSURE, C/W HIGH WATER ALARM PANEL, EXTRA RELAY IN CEMA 1 ENCLOSURE AND MECHANICAL FLOAT SWITCHES.	
PC-33	STORM SUMP PUMP	FD LEVEL	CONDO	3.2	300	1800	BARNES	4SE-1135-6L	-	8.4	575	3																	
PC-34	WEEPING SUMP PUMP	FD LEVEL	CONDO	3.2	300	1800	BARNES	4SE-1135-6L	-	8.4	575	3	6EP/RCM	YES	-	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV. 15	-	CW SLIDE AWAY COUPLINGS, GALVANIZED LIFTING CHAINS, DUPLEX CONTROL PANEL, DISCONNECT SWITCH IN CEMA 1 ENCLOSURE, C/W HIGH WATER ALARM PANEL, EXTRA RELAY IN CEMA 1 ENCLOSURE AND MECHANICAL FLOAT SWITCHES.	
PC-35	WEEPING SUMP PUMP	FD LEVEL	CONDO	3.2	300	1800	BARNES	4SE-1135-6L	-	8.4	575	3																	
PC-36	ELEVATOR SUMP PUMP	FD LEVEL	CONDO	6.3	240	1800	BARNES	4SE-7554L	-	5.6	575	3	6EP/RCM	YES	-	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV. 15	-	CW SLIDE AWAY COUPLINGS, GALVANIZED LIFTING CHAINS, DUPLEX CONTROL PANEL, DISCONNECT SWITCH IN CEMA 1 ENCLOSURE, C/W HIGH WATER ALARM PANEL, EXTRA RELAY IN CEMA 1 ENCLOSURE AND MECHANICAL FLOAT SWITCHES.	
PC-37	ELEVATOR SUMP PUMP	FD LEVEL	CONDO	6.3	240	1800	BARNES	4SE-7554L	-	5.6	575	3																	
PC-38	ELEVATOR SUMP PUMP	FD LEVEL	CONDO	6.3	270	1800	BARNES	4SE-1135-6L	-	8.4	575	3	6EP/RCM	YES	-	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV. 15	-	CW SLIDE AWAY COUPLINGS, GALVANIZED LIFTING CHAINS, DUPLEX CONTROL PANEL, DISCONNECT SWITCH IN CEMA 1 ENCLOSURE, C/W HIGH WATER ALARM PANEL, EXTRA RELAY IN CEMA 1 ENCLOSURE AND MECHANICAL FLOAT SWITCHES.	
PC-39	ELEVATOR SUMP PUMP	FD LEVEL	CONDO	6.3	270	1800	BARNES	4SE-1135-6L	-	8.4	575	3																	
PC-40	ELEVATOR SUMP PUMP	FD LEVEL	CONDO	9.5	240	1800	BARNES	4SE-1135-6L	-	8.4	575	3	6EP/RCM	YES	-	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV. 15	-	CW SLIDE AWAY COUPLINGS, GALVANIZED LIFTING CHAINS, DUPLEX CONTROL PANEL, DISCONNECT SWITCH IN CEMA 1 ENCLOSURE, C/W HIGH WATER ALARM PANEL, EXTRA RELAY IN CEMA 1 ENCLOSURE AND MECHANICAL FLOAT SWITCHES.	
PC-41	ELEVATOR SUMP PUMP	FD LEVEL	CONDO	9.5	240	1800	BARNES	4SE-1135-6L	-	8.4	575	3																	
PC-42	ELEVATOR SUMP PUMP	FD LEVEL	CONDO	3.2	240	1800	BARNES	3SE-3053L	-	2.2	575	3	6EP/RCM	YES	-	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV. 15	-	CW SLIDE AWAY COUPLINGS, GALVANIZED LIFTING CHAINS, DUPLEX CONTROL PANEL, DISCONNECT SWITCH IN CEMA 1 ENCLOSURE, C/W HIGH WATER ALARM PANEL, EXTRA RELAY IN CEMA 1 ENCLOSURE AND MECHANICAL FLOAT SWITCHES.	
PC-43	ELEVATOR SUMP PUMP	FD LEVEL	CONDO	3.2	240	1800	BARNES	3SE-3053L	-	2.2	575	3																	
PC-44	DHW RECIR. PUMP	M/ROOM	CONDO	1.0	105	1800	S.A.ARMSTRONG	4360 1.5D-0.75	-	0.56	575	3	6P/RCM	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	YES	-	C/W BRONZE & ISOLATION DISCONNECT	
PC-45	DHW RECIR. PUMP	M/ROOM	CONDO	1.0	105	1800	S.A.ARMSTRONG	4360 1.5D-0.75	-	0.56	575	3	6P/RCM	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	YES	-	C/W BRONZE & ISOLATION DISCONNECT	
PC-46	EXCESS PRESSURE PUMP	M/ROOM				BY OTHERS			-	-	120	1	2EP/RCP2	YES	-	YES	-	YES	-	PKG.	-	YES	YES	-	-	-			
PC-47	IRRIGATION PUMP	-	CONDO	-	-	-	SKY HARVESTER	-	-	-	575	3	6P/RCM	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	C/W CONTROL PANEL, VFD, FILTRATION AND LOW LEVEL PROTECTION	
PC-48	FILTRATION PUMP	FD LEVEL	CONDO	2.8	255	3600	KSB			-	575	3	-	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	CW SLIDE AWAY COUPLINGS, GALVANIZED LIFTING CHAINS, CONTROL PANEL, DISCONNECT SWITCH IN NEMA 1 ENCLOSURE, C/W HIGH WATER ALARM PANEL, C/W EXTRA RELAY IN NEMA 1 ENCLOSURE, MECHANICAL FLOAT SWITCHES	

NOTES:

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

VERTICAL FAN COIL SCHEDULE - 4 PIPE (SUITES)

REFERENCE	DESCRIPTION	OWNERSHIP	SUPPLY AIR (L/S)	E.S.P. (PA)	COOLING						HEATING					MOTOR TYPE	MANUFACTURER	MODEL	MOTOR SIZE (KW)	POWER SUPPLY					STARTER		TYPE	CONTOLS				OTHER REQUIREMENTS:			OTHERS	REMARKS:	NOTES:
					TOTAL (KW)	SENS (KW)	E.A.T. (°C) DB	E.A.T. (°C) WB	WATER FLOW (L/S)	EWT (°C)	TOTAL (KW)	SENS (KW)	WATER FLOW (L/S)	EWT (°C)					VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:	INSTALLED BY:		MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV. 16	W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT			
FCC-01	SUITE 4 PIPES FANCOIL VERTICAL	CONDO	142	50	2.9	1.9	24.1	18.4	0.13	5.6	3.4	-	0.07	60.0	ECM	UNILUX	DSC350	0.10	120	1	SUITE PANEL SEE FLOOR PLAN	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
FCC-02	SUITE 4 PIPES FANCOIL VERTICAL	CONDO	190	50	3.8	2.6	24.1	18.4	0.17	5.6	4.6	-	0.12	60.0	ECM	UNILUX	DSC450	0.16	120	1	SUITE PANEL SEE FLOOR PLAN	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
FCC-03	SUITE 4 PIPES FANCOIL VERTICAL	CONDO	283	50	6.1	4.0	24.1	18.4	0.27	5.6	7.0	-	0.16	60.0	ECM	UNILUX	DSC600	0.16	120	1	SUITE PANEL SEE FLOOR PLAN	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
FCC-04	SUITE 4 PIPES FANCOIL VERTICAL	CONDO	378	50	8.6	5.5	24.1	18.4	0.31	5.6	10.3	-	0.24	60.0	ECM	UNILUX	DSC800	0.16	120	1	SUITE PANEL SEE FLOOR PLAN	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
FCC-05	SUITE 4 PIPES FANCOIL VERTICAL	CONDO	472	50	10.2	6.6	24.1	18.4	0.35	5.6	12.2	-	0.29	60.0	ECM	UNILUX	DSC1000	0.33	120	1	SUITE PANEL SEE FLOOR PLAN	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	

VERTICAL FAN COIL UNIT SCHEDULE - 4 PIPE (CONDO)

REFERENCE	DESCRIPTION	LOCATION	OWNERSHIP	SUPPLY AIR (L/S)	E.S.P. (PA)	COOLING						HEATING					MOTOR TYPE	MANUFACTURER	MODEL	MOTOR SIZE (KW)	POWER SUPPLY					STARTER		TYPE	CONTOLS				OTHER REQUIREMENTS:			OTHERS	REMARKS:	NOTES:
						TOTAL (KW)	SENS (KW)	E.A.T. (°C) DB	E.A.T. (°C) WB	WATER FLOW (L/S)	EWT (°C)	TOTAL (KW)	SENS (KW)	WATER FLOW (L/S)	EWT (°C)						VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:	INSTALLED BY:		MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV. 16	W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT			
VFCC-01	4 PIPES FANCOIL - VERTICAL	P1/16 SPINNING	CONDO	283	50	6.1	4.0	24.1	18.4	0.27	5.6	7.0	-	0.16	60.0	ECM	UNILUX	DSC600	0.16	120	1	2P/RCAM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
VFCC-02	4 PIPES FANCOIL - VERTICAL	P1/15 GYM	CONDO	283	50	6.1	4.0	24.1	18.4	0.27	5.6	7.0	-	0.16	60.0	ECM	UNILUX	DSC600	0.16	120	1	2P/RCAM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
VFCC-03	4 PIPES FANCOIL - VERTICAL	P1/15 GYM	CONDO	378	50	8.6	5.5	24.1	18.4	0.31	5.6	10.3	-	0.24	60.0	ECM	UNILUX	DSC800	0.16	120	1	2P/RCAM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
VFCC-04	4 PIPES FANCOIL - VERTICAL	P1/14 M. CHANGE RM	CONDO	142	50	2.9	1.9	24.1	18.4	0.13	5.6	3.4	-	0.07	60.0	ECM	UNILUX	DSC350	0.10	120	1	2P/RCAM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
VFCC-05	4 PIPES FANCOIL - VERTICAL	P1/12 M. CHANGE RM	CONDO	190	50	3.8	2.6	24.1	18.4	0.17	5.6	4.6	-	0.12	60.0	ECM	UNILUX	DSC450	0.16	120	1	2P/RCAM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
VFCC-06	4 PIPES FANCOIL - VERTICAL	P1/07 YOGA RM	CONDO	190	50	3.8	2.6	24.1	18.4	0.17	5.6	4.6	-	0.12	60.0	ECM	UNILUX	DSC450	0.16	120	1	2P/RCAM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
VFCC-07	4 PIPES FANCOIL - VERTICAL	114 STAFF RM	CONDO	142	50	2.9	1.9	24.1	18.4	0.13	5.6	3.4	-	0.07	60.0	ECM	UNILUX	DSC350	0.10	120	1	2P/RCAM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
VFCC-08	4 PIPES FANCOIL - VERTICAL	116 PARCEL RM	CONDO	142	50	2.9	1.9	24.1	18.4	0.13	5.6	3.4	-	0.07	60.0	ECM	UNILUX	DSC350	0.10	120	1	2P/RCAM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
VFCC-09	4 PIPES FANCOIL - VERTICAL	109 MEETING RM	CONDO	142	50	2.9	1.9	24.1	18.4	0.13	5.6	3.4	-	0.07	60.0	ECM	UNILUX	DSC350	0.10	120	1	2P/RCAM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
VFCC-10	4 PIPES FANCOIL - VERTICAL	104 MAIL RM	CONDO	142	50	2.9	1.9	24.1	18.4	0.13	5.6	3.4	-	0.07	60.0	ECM	UNILUX	DSC350	0.10	120	1	2P/RCAM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
VFCC-11	4 PIPES FANCOIL - VERTICAL	107 ADMIN OFFICE	CONDO	283	50	6.1	4.0	24.1	18.4	0.27	5.6	7.0	-	0.16	60.0	ECM	UNILUX	DSC600	0.16	120	1	2P/RCAM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
VFCC-12	4 PIPES FANCOIL - VERTICAL	143 EAST ELEV. LOBBY	CONDO	283	50	6.1	4.0	24.1	18.4	0.27	5.6	7.0	-	0.16	60.0	ECM	UNILUX	DSC600	0.16	120	1	2P/RCAM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	
VFCC-13	4 PIPES FANCOIL - VERTICAL	P1/36 CONDO AMENITY	CONDO	283	50	6.1	4.0	24.1	18.4	0.27	5.6	7.0	-	0.16	60.0	ECM	UNILUX	DSC600	0.16	120	1	2P/RCAM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, THERMAL METER	

Contractor Must Check And Verify All Dimensions On The Job.
Do Not Scale The Drawings.

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Date: 02-04-14

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No.	Revision	Date
1	ADD M-001	2015/10/26
2	ISSUED FOR ADD E-002	2016/01/05
	ISSUED FOR CONSTRUCTION	2016-07-07
4	ISSUED FOR CONSTRUCTION	2016-04-01
3	ISSUED FOR TENDER	2015-10-15
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01
No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
CONDO - EQUIPMENT SCHEDULES #2

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

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

Plot Date : 2/7/2016 11:41:04 PM File Path : C:\Users\pcm_1\Documents\8489D - Aquavista - MEP_Block 3.rvt

FAN SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	EXHAUST AIR (L/S)	E.S.P. (KPA)	FAN (RPM)	WEIGHT (KG.)	P.W.L. db RE 10^12 WATTS OCTAVE BAND 1	2	3	4	5	6	7	8	MANUFACTURER	MODEL	ENERGY REQUIRED (HP)	MOTOR SIZE (KW)	POWER SUPPLY VOLTS	PHASE	FED FROM	EM.	NORM.	STARTER SUPPLIED BY:	INSTALLED BY:	TYPE	CONTROLS MANUAL	AUTO.	INTERLOCK BY: DIV. 15	DIV. 16	OTHER REQUIREMENTS: DISC. AT MOTOR	W.P. DISC. AT MOTOR	F.A. SHUT	OTHERS	REMARKS:
EFC-01	PARKING EXHAUST	PARKING P4	PARKING P4	CONDO	6140	0.09	962	-	-	-	-	-	-	-	-	-	GREENHECK	SBS-3H36-30	-	2.2	575	3	6EP4RCM	YES	-	DIV 15	DIV 15	-	-	YES	YES		YES		-	-	
EFC-02	PARKING EXHAUST	PARKING P4	PARKING P4	CONDO	6140	0.09	962	-	-	-	-	-	-	-	-	-	GREENHECK	SBS-3H36-30	-	2.2	575	3	6EP4RCM	YES	-	DIV 15	DIV 15	-	-	YES	YES		YES		-	-	
EFC-3	PARKING EXHAUST	PARKING P3	PARKING P3	CONDO	6140	0.09	962	-	-	-	-	-	-	-	-	-	GREENHECK	SBS-3H36-30	-	2.2	575	3	6EP4RCM	YES	-	DIV 15	DIV 15	-	-	YES	YES		YES		-	-	
EFC-4	PARKING EXHAUST	PARKING P3	PARKING P3	CONDO	6140	0.09	962	-	-	-	-	-	-	-	-	-	GREENHECK	SBS-3H36-30	-	2.2	575	3	6EP4RCM	YES	-	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	c/w 3 SPED MOTOR, START FAN AUTOMATICALLY UPON RECEIPT OF FIRE ALARM SIGNALS - PROVIDE REMOTE MANUAL ON/OFF SWITCH AT THE FIRE ALARM 'CACF' PANEL, FOR EACH FAN - PROVIDE ADDITIONAL CONTACTS ON STARTER FOR CO SYSTEM.
EFC-5	PARKING EXHAUST	PARKING P2	PARKING P2	CONDO	7080	0.08	663	-	-	-	-	-	-	-	-	-	GREENHECK	SBS-2H42-30	-	2.2	575	3	6EP1RCM	YES	-	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-6	PARKING EXHAUST	PARKING P2	PARKING P2	CONDO	7080	0.08	663	-	-	-	-	-	-	-	-	-	GREENHECK	SBS-2H42-30	-	2.2	575	3	6EP1RCM	YES	-	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-7	PARKING EXHAUST	PARKING P1	PARKING P1	CONDO	9910	0.07	804	-	-	-	-	-	-	-	-	-	GREENHECK	SBS-2H42-50	-	3.7	575	3	6EP1RCM	YES	-	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-8	PARKING EXHAUST	PARKING P1	PARKING P1	CONDO	9910	0.07	804	-	-	-	-	-	-	-	-	-	GREENHECK	SBS-2H42-50	-	3.7	575	3	6EP1RCM	YES	-	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-9	CHILLER ROOM EXHAUST	PARKING P4	P416 CHILLER ROOM	CONDO	460	0.07	677	-	-	-	-	-	-	-	-	-	GREENHECK	BDF-90-4	-	0.20	115	1	2PM2M	-	YES	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-10	CHILLER REFR EXHAUST	PARKING P4	P416 CHILLER ROOM	CONDO	1680	0.07	542	-	-	-	-	-	-	-	-	-	GREENHECK	BDF-150-10	-	0.75	575	3	6EP1RCM	YES	-	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-11	LOCKER ROOM EXHAUST	P417 LOCKER ROOM P4	P417 LOCKER ROOM P4	CONDO	60	0.05	1600	-	-	-	-	-	-	-	-	-	GREENHECK	SQ-70-VG	-	0.12	115	1	2PM2M	-	YES	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-12	ELEC. ROOM EXHAUST	P216 ELEC. ROOM P2	P216 ELEC. ROOM P2	CONDO	235	0.05	1070	-	-	-	-	-	-	-	-	-	GREENHECK	CSP-A510	-	0.3	115	1	-	-	YES	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-13	BIKE ROOM EXHAUST	P411 BIKE ROOM P4	P411 BIKE ROOM P4	CONDO	186	0.07	1070	-	-	-	-	-	-	-	-	-	GREENHECK	CSP-A510	-	0.30	115	1	2PM2M	-	YES	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-14	LOCKER ROOM EXHAUST	P408 LOCKER ROOM P4	P408 LOCKER ROOM P4	CONDO	596	0.06	695	-	-	-	-	-	-	-	-	-	GREENHECK	BDF-90-4	-	0.20	115	1	2PM2M	-	YES	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-15	BIKE ROOM EXHAUST	P407 BIKE ROOM P4	P407 BIKE ROOM P4	CONDO	100	0.06	990	-	-	-	-	-	-	-	-	-	GREENHECK	CSP-A250	-	0.10	115	1	2PM2M	-	YES	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-16	LOCKER ROOM EXHAUST	P405 LOCKER ROOM P4	P405 LOCKER ROOM P4	CONDO	70	0.05	1600	-	-	-	-	-	-	-	-	-	GREENHECK	SQ-70-G	-	0.12	115	1	2PM2M	-	YES	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-17	BIKE ROOM EXHAUST	P310 BIKE ROOM P3	P310 BIKE ROOM P3	CONDO	85	0.05	1550	-	-	-	-	-	-	-	-	-	GREENHECK	SQ-70-D	-	0.12	115	1	2PM2M	-	YES	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-18	BIKE ROOM EXHAUST	P307 BIKE ROOM P3	P307 BIKE ROOM P3	CONDO	105	0.05	970	-	-	-	-	-	-	-	-	-	GREENHECK	CSP-A250	-	0.10	115	1	2PM2M	-	YES	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-19	BIKE ROOM EXHAUST	P306 BIKE ROOM P3	P306 BIKE ROOM P3	CONDO	180	0.06	1070	-	-	-	-	-	-	-	-	-	GREENHECK	CSP-A510	-	0.30	115	1	2PM2M	-	YES	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-20	LOCKER ROOM EXHAUST	P303 LOCKER ROOM P3	P303 LOCKER ROOM P3	CONDO	596	0.06	695	-	-	-	-	-	-	-	-	-	GREENHECK	BDF-90-4	-	0.20	115	1	2PM2M	-	YES	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-21	BIKE ROOM EXHAUST	P305 BIKE ROOM P3	P305 BIKE ROOM P3	CONDO	70	0.05	1600	-	-	-	-	-	-	-	-	-	GREENHECK	SQ-70-VG	-	0.12	115	1	2PM2M	-	YES	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-22	BIKE ROOM EXHAUST	P213 BIKE ROOM P2	P213 BIKE ROOM P2	CONDO	210	0.06	1070	-	-	-	-	-	-	-	-	-	GREENHECK	CSP-A510	-	0.3	115	1	2P1RCME	-	YES	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-23	BIKE ROOM EXHAUST	P211 BIKE ROOM P2	P211 BIKE ROOM P2	CONDO	75	0.05	1550	-	-	-	-	-	-	-	-	-	GREENHECK	SQ-70-D	-	0.12	115	1	2P1RCME	-	YES	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-24	BIKE ROOM EXHAUST	P210 BIKE ROOM P2	P210 BIKE ROOM P2	CONDO	62	0.05	1600	-	-	-	-	-	-	-	-	-	GREENHECK	SQ-70-VG	-	0.12	115	1	2P1RCME	-	YES	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-25	BIKE ROOM EXHAUST	P219 BIKE ROOM P2	P219 BIKE ROOM P2	CONDO	88	0.05	1550	-	-	-	-	-	-	-	-	-	GREENHECK	SQ-70-D	-	0.12	115	1	2P1RCME	-	YES	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-26	MECH ROOM EXHAUST	P216 MECH ROOM P2	P216 MECH ROOM P2	CONDO	75	0.05	1550	-	-	-	-	-	-	-	-	-	GREENHECK	SQ-70-D	-	0.12	115	1	2P1RCME	-	YES	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-27	PARK ELEC. RM EXHAUST	P218 PARK ELEC. RM P2	P218 PARK ELEC. RM P2	CONDO	90	0.05	1550	-	-	-	-	-	-	-	-	-	GREENHECK	SQ-70-D	-	0.12	115	1	2P1RCME	-	YES	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-28	MUA ROOM EXHAUST	P122 MUA ROOM P1	P122 MUA ROOM P1	CONDO	260	0.06	1100	-	-	-	-	-	-	-	-	-	GREENHECK	CSP-A700	-	0.3	115	1	2P1RCMW	-	YES	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-29	SPRINKLER RM EXHAUST	P121 SPRINKLER RM P1	P121 SPRINKLER RM P1	CONDO	330	0.07	1100	-	-	-	-	-	-	-	-	-	GREENHECK	CSP-A700	-	0.3	115	1	2P1RCMW	-	YES	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-30	EAST GARBAGE EXHAUST	138 EAST GARBAGE L1	138 EAST GARBAGE L1	CONDO	396	0.06	983	-	-	-	-	-	-	-	-	-	GREENHECK	BDF-80-4	-	0.3	115	1	2P1RCME	-	YES	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-31	LOADING BAY EXHAUST	134 LOADING BAY L1	134 LOADING BAY L1	CONDO	1156	0.07	570	-	-	-	-	-	-	-	-	-	GREENHECK	BDF-120-7	-	0.56	575	3	6P1RCME	-	YES	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-32	MUA ROOM EXHAUST	1M15 MUA ROOM L1 M	1M15 MUA ROOM L1 M	CONDO	305	0.07	1100	-	-	-	-	-	-	-	-	-	GREENHECK	CSP-A700	-	0.3	115	1	2P1RCMW	-	YES	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-33	WEST GARBAGE EXHAUST	1M11 WEST GARBAGE L1 M	1M11 WEST GARBAGE L1 M	CONDO	330	0.07	1100	-	-	-	-	-	-	-	-	-	GREENHECK	CSP-A700	-	0.3	115	1	2P1RCMW	-	YES	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-34	MECH ROOM EXHAUST	1318 MECH ROOM L13	1318 MECH ROOM L13	CONDO	305	0.07	1100	-	-	-	-	-	-	-	-	-	GREENHECK	CSP-A700	-	0.3	115	1	2P1RCME	-	YES	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-35	MECH ROOM EXHAUST	1316 MECH ROOM L13	1316 LOCKER ROOM L13	CONDO	720	0.07	695	-	-	-	-	-	-	-	-	-	GREENHECK	BDF-90-5	-	0.3	115	1	2P1RCME	-	YES	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-36	MUA ROOM EXHAUST	1322 MUA ROOM L13	1322 MUA ROOM L13	CONDO	223	0.06	1070	-	-	-	-	-	-	-	-	-	GREENHECK	CSP-A510	-	0.3	115	1	2P1RCME	-	YES	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-37	AMENITY SMOKE EXHAUST	PARKING P1	AMENITY P1	CONDO	3160	0.12	2230	-	-	-	-	-	-	-	-	-	GREENHECK	QEI-16-1-50	-	3.75	575	3	6EP1RCM	YES	-	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-38	W.ROOMS 105,113, EXHAUST	WASHROOM 105 L1	WASHROOM 105 L1	CONDO	70	0.10	1600	-	-	-	-	-	-	-	-	-	GREENHECK	SQ-70-D	-	0.12	115	1	2P1RCMM	-	YES	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
EFC-39	PRIVATE PARKING EXHAUST	PARKING P4	PARKING P4	CONDO	354	0.10	962	-	-	-	-	-	-	-	-	-	GREENHECK	SQ-100-A	-	20	115	1		-	YES	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
SFC-01	STAIR PRESSURIZATION	STAIR 'B' PRESSURIZATION	STAIR 'B' PRESSURIZATION	CONDO	2360	0.15	742	-	-	-	-	-	-	-	-	-	GREENHECK	BDF-150-30	-	2.20	575	3	6EP1RCM	YES	-	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	START FAN AUTOMATICALLY UPON RECEIPT OF FIRE ALARM SIGNALS - PROVIDE REMOTE MANUAL ON/OFF SWITCH AT THE FIRE ALARM 'CACF' PANEL, FOR EACH FAN - PROVIDE ADDITIONAL CONTACTS ON STARTER.
SFC-02	STAIR PRESSURIZATION	STAIR 'C' PRESSURIZATION	STAIR 'C' PRESSURIZATION	CONDO	2360	0.15	742	-	-	-	-	-	-	-	-	-	GREENHECK	BDF-150-30	-	2.20	575	3	6EP1RCM	YES	-	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	START FAN AUTOMATICALLY UPON RECEIPT OF FIRE ALARM SIGNALS - PROVIDE REMOTE MANUAL ON/OFF SWITCH AT THE FIRE ALARM 'CACF' PANEL, FOR EACH FAN - PROVIDE ADDITIONAL CONTACTS ON STARTER.
SFC-03	STAIR PRESSURIZATION	STAIR 'A' PRESSURIZATION	STAIR 'A' PRESSURIZATION	CONDO	2360	0.15	742	-	-	-	-	-	-	-	-	-	GREENHECK	BDF-150-30	-	2.20	575	3	6EP1RCM	YES	-	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	START FAN AUTOMATICALLY UPON RECEIPT OF FIRE ALARM SIGNALS - PROVIDE REMOTE MANUAL ON/OFF SWITCH AT THE FIRE ALARM 'CACF' PANEL, FOR EACH FAN - PROVIDE ADDITIONAL CONTACTS ON STARTER.
SFC-04	BOILER ROOM SUPPLY	PARKING P4	PARKING P4	CONDO	945	0.15	1009	-	-	-	-	-	-	-	-	-	GREENHECK	BDF-90-7	-	0.56	575	3	6PM2M	-	YES	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	
SFC-05	STAIR PRESSURIZATION	STAIR 'E' PRESSURIZATION	STAIR 'E' PRESSURIZATION	CONDO	1415	0.15	1085										GREENHECK	BDF-100-15	-	1.50	575	3		YES	-	DIV 15	DIV 15	-	-	YES	YES		YES	-	-	-	START FAN AUTOMATICALLY UPON RECEIPT OF FIRE ALARM SIGNALS - PROVIDE REMOTE MANUAL ON/OFF SWITCH AT THE FIRE ALARM 'CACF' PANEL, FOR EACH FAN - PROVIDE ADDITIONAL CONTACTS ON STARTER.
EF-A	KITCHEN BOOSTER	TYPICAL	KITCHEN	CONDO	70	0.10	2500	-	-	-	-	-	-	-	-	-	REVERSOMATIC	Ri-200	-	0.08	115	1	SUITE PANEL	-	YES	DIV 15	DIV 15	FVNR	-	YES	YES		YES	-	-	-	BOOSTER RELAY - SEE SCHEMATIC IN ELECTRICAL SINGLE LINE DIAGRAM DRAWING
EF-B	LAUNDRY EXHAUST	TYPICAL	LAUNDRY	CONDO	74	0.05	1290	-	-	-	-	-	-	-	-	-	REVERSOMATIC	TLD-200	-	0.07	115	1	SUITE PANEL	-	YES	DIV 15	DIV 15	FVNR	-	YES	YES		YES	-	-	-	BOOSTER RELAY - SEE SCHEMATIC IN ELECTRICAL SINGLE LINE DIAGRAM DRAWING
EF-C	WASHROOM EXHAUST	TYPICAL	WASHROOM	CONDO	56	0.06	1050	-	-	-	-	-	-	-	-	-	REVERSOMATIC	CF 170	-	0.07	115	1	SUITE PANEL	-	YES	DIV 15	DIV 15	FVNR	-	YES	YES		YES	-	-	-	MANUAL SWITCH

NOTES:

1. REFER TO SECTION 15050 REGARDING WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTIONS 15700 FOR FURTHER DETAIL.
3. REFER TO SECTION 15100 FOR VIBRATION ISOLATORS.
4. REFER TO DIV. 17 FOR CONTROL.
5. ALL ROOF MOUNTED FANS C/W EXTEND ROOF CURB OF SUITABLE SIZE.
   MOTORIZED DAMPER AND BIRD SCREEN.
   ALL FAN MOTORS TO BE 1800 RPM MAXIMUM UNLESS OTHERWISE SPECIFIED. BACKDRAFT DAMPER & UNIT MOUNTED SPEED CONTROLLER.
7. PROVIDE 4 WIRE LEADS FROM STARTER TO MOTOR.

CHIMNEY EXHAUST FANS SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	AIR FLOW (L/S)	PRESSURE (PA)	OPERATING WEIGHT (KG)	MANUFACTURER	MODEL	MOTOR SIZE (kW)	POWER SUPPLY VOLTS	PHASE	FED FROM	EM.	NORM.	STARTER SUPPLIED BY:	INSTALLED BY:	TYPE	CONTROLS MANUAL	AUTO.	INTERLOCK BY: DIV. 15	DIV. 16	OTHER REQUIREMENTS DISC. AT MOTOR	W.P. DISC. AT MOTOR	F.A. SHUT DOWN	OTHERS	REMARKS:
VENTC-01	BOILER VENT	ROOF	BOILER # 1,2,3	CONDO	756	150	-	EXHAUSTO	RSV400	0.75	208	3	2ERROPE	YES	-	DIV. 15	DIV. 15	-	-	YES	YES	-	-	YES	-	-	C/W VFD, MODULATING DRAFT CONTROL WITH XTP SENSOR, PROBE, MODULATING DAMPER, ACTUATOR, BALANCING BAFFLES & DURAVENT FASNSEAL VENTING
VENTC-02	BOILER VENT	ROOF	BOILER # 4,5,	CONDO	450	180	-	EXHAUSTO	REV315	0.35	120	1	2RRCPE	-	YES	DIV. 15	DIV. 15	-	-	YES	YES	-	-	YES	-	-	C/W VFD, MODULATING DRAFT CONTROL WITH XTP SENSOR, PROBE, MODULATING DAMPER, ACTUATOR, BALANCING BAFFLES & DURAVENT FASNSEAL VENTING
VENTC-03	BOILER VENT	ROOF	BOILER # 6,7,8	CONDO	404	175	-	EXHAUSTO	REV315	0.35	120	1	2RRCPE	-	YES	DIV. 15	DIV. 15	-	-	YES	YES	-	-	YES	-	-	C/W VFD, MODULATING DRAFT CONTROL WITH XTP SENSOR, PROBE, MODULATING DAMPER, ACTUATOR, BALANCING BAFFLES & DURAVENT FASNSEAL VENTING

NOTES:

FAN COIL UNIT SCHEDULE - 4 PIPE (HORIZONTAL)

REFERENCE	DESCRIPTION	LOCATION	OWNERSHIP	SUPPLY AIR (L/S)	E.S.P. (PA)	COOLING TOTAL (KW)	SENS (KW)	E.A.T. (°C) DB	WB	WATER FLOW (L/S)	EWT (°C)	HEATING TOTAL (KW)	SENS (KW)	WATER FLOW (L/S)	EWT (°C)	MOTOR TYPE	MANUFACTURER	MODEL	UNIT (AMP)	POWER SUPPLY VOLTS	PHASE	FED FROM	EM.	NORM.	STARTER SUPPLIED BY:	INSTALLED BY:	TYPE	CONTROLS MANUAL	AUTO.	INTERLOCK BY: DIV. 15	DIV. 16	OTHER REQUIREMENTS: W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT	OTHERS	REMARKS:
HFCC-01	P106 CONDO AMENITY	REPLACE WITH VERTICAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HFCC-02	P106 CONDO AMENITY	P106 CONDO AMENITY	CONDO	165	50	4.7	2.9	27.2	20.5	0.21	5.6	3.4	-	0.09	60.0	ECM	DAIKIN	FCH#104	3.1	208	1	2P1RCAM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMMABLE, MERV 11 FILTER, COOLING COIL DRAIN PAN.
HFCC-03	P110 CONDO AMENITY	P110 CONDO AMENITY	CONDO	165	60	5.1	2.9	27.4	21.1	0.23	5.6	3.4	-	0.09	60.0	ECM	DAIKIN	FCH#104	3.1	208	1	2P1RCAM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMMABLE, MERV 11 FILTER, COOLING COIL DRAIN PAN.
HFCC-04	P105 CONDO AMENITY	P105 CONDO AMENITY	CONDO	112	50	2.6	1.7	26.3	19.5	0.11	5.6	2.0	-	0.04	60.0	ECM	DAIKIN	FCH#103	2.1	208	1	2P1RCAM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMMABLE, MERV 11 FILTER, COOLING COIL DRAIN PAN.
HFCC-05	115 W. ELEV LOBBY	115 W. ELEV LOBBY	CONDO	296	50	7.8	4.6	25.5	20.0	0.33	5.6	5.2	-	0.10	60.0	ECM	DAIKIN	FCH#108	3.1	208	1	2P1RCAM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMMABLE, MERV 11 FILTER, COOLING COIL DRAIN PAN.
HFCC-06	102 MAIN LOBBY	102 MAIN LOBBY	CONDO	944	125	16.9	12.1	25.1	18.5	0.75	5.6	12.1	-	0.26	60.0	ECM	DAIKIN	HH8B120	2.2	575	3	6EP1RCP2	YES	-	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMMABLE, MERV 11 FILTER, COOLING COIL DRAIN PAN.
HFCC-07	102 MAIN LOBBY	102 MAIN LOBBY	CONDO	944	125	16.9	12.1	25.1	18.5	0.75	5.6	12.1	-	0.26	60.0	ECM	DAIKIN	HH8B120	2.2	575	3	6EP1RCP2	YES	-	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMMABLE, MERV 11 FILTER, COOLING COIL DRAIN PAN.
HFCC-08	142 EAST MAIN LOBBY	142 EAST MAIN LOBBY	CONDO	380	125	8.2	5.0	25.3	19.6	0.36	5.6	4.6	-	0.10	60.0	ECM	DAIKIN	HH8B108	1.5	575	3	6EP4RCM	YES	-	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMMABLE, MERV 11 FILTER, COOLING COIL DRAIN PAN.
HFCC-09	215 DINING	215 DINING	CONDO	112	50	3.7	1.8	27.2	21.6	0.16	5.6	1.9	-	0.04	60.0	ECM	DAIKIN	FCH#103	2.1	208	1	2P1RCMW	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMMABLE, MERV 11 FILTER, COOLING COIL DRAIN PAN.
HFCC-10	214 LOUNGE	214 LOUNGE	CONDO	298	50	8.1	5.2	27.3	20.5	0.35	5.6	5.2	-	0.10	60.0	ECM	DAIKIN	FCH#108	3.1	208	1	2P1RCMW	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMMABLE, MERV 11 FILTER, COOLING COIL DRAIN PAN.
HFCC-11	213 NORTH CORRIDOR	213 NORTH CORRIDOR	CONDO	260	50	7.4	4.4	27.6	21.2	0.32	5.6	4.6	-	0.09	60.0	ECM	DAIKIN	FCH#106	3.4	208	1	2P1RCMW	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMMABLE, MERV 11 FILTER, COOLING COIL DRAIN PAN.
HFCC-12	213 NORTH CORRIDOR	213 NORTH CORRIDOR	CONDO	260	50	7.4	4.4	27.6	21.2	0.32	5.6	4.6	-	0.09	60.0	ECM	DAIKIN	FCH#106	3.4	208	1	2P1RCAM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMMABLE, MERV 11 FILTER, COOLING COIL DRAIN PAN.
HFCC-13	212 LOUNGE	212 LOUNGE	CONDO	298	50	8.1	5.2	27.3	20.5	0.35	5.6	5.2	-	0.10	60.0	ECM	DAIKIN	FCH#108	3.1	208	1	2P1RCAM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMMABLE, MERV 11 FILTER, COOLING COIL DRAIN PAN.
HFCC-14	209 BILLIARDS	209 BILLIARDS	CONDO	165	50	4.3	2.8	26.7	20.0	0.20	5.6	3.3	-	0.07	60.0	ECM	DAIKIN	FCH#104	2.4	208	1	2P1RCAM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMMABLE, MERV 11 FILTER, COOLING COIL DRAIN PAN.
HFCC-15	211 BAR	211 BAR	CONDO	260	50	7.4	4.4	27.6	21.2	0.32	5.6	4.6	-	0.09	60.0	ECM	DAIKIN	FCH#106	3.4	208	1	2P1RCAM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMMABLE, MERV 11 FILTER, COOLING COIL DRAIN PAN.
HFCC-16	216 CATERING	216 CATERING	CONDO	123	50	3.4	2.1	25.5	20.0	0.15	5.6	2.8	-	0.06	60.0	ECM	DAIKIN	FCH#104	2.4	208	1	2P1RCMW	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-	-	ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMMABLE, MERV 11 FILTER, COOLING COIL DRAIN PAN.

NOTES:

Contractor Must Check And Verify All Dimensions On The Job.
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Date:

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No.	Revision	Date
1	ADD M-001	2015/10/30
4		
3	ISSUED FOR CONSTRUCTION	2016-07-07
2	ISSUED FOR CONSTRUCTION (ELECTRICAL)	2016-04-21
1	ISSUED FOR TENDER	2015-10-15

No.	Issued For	Date

AQUAVISTA AT BAYSIDE TORONTO

Drawing Title
CONDO - EQUIPMENT SCHEDULES #3

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

Scale 1 : 1
Drawn by S.J.
Checked by Checker
Project No. 8489D
Date 02/04/14
Drawing No. ME-13

ENTRANCE AND UNIT HEATER SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	OWNERSHIP	HEATING CAPACITY OUTPUT (KW)	WATER FLOW (L/S)	WATER TEMP. (C)	AIR FLOW (L/S)	AIR ENT. TEMP. (C)	MANUFACTURER	MODEL	TYPE	PRE. RATING (KPA)	MOTOR AMPS	POWER SUPPLY					STARTER					CONTROLS				OTHER REQUIREMENTS			REMARKS:
														VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:		INSTALLED BY:		TYPE	MANUAL	AUTO.	INTERLOCK BY:		W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT.	
																			DIV. 15	DIV. 16	DIV. 15	DIV.16				DIV. 15	DIV.16				
EHC-01	FORCE-FLO CABINET HEATER	P413 ELEVATOR LOBBY	CONDO	4	0.07	82.2	90	18.3	TRANE	FFEB201U	CEILING HUNG	-	3	115	1	2PRCM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW INTEGRAL T-STAT AND DISCONNECT SWITCH
EHC-02	FORCE-FLO CABINET HEATER	P403 ELEVATOR LOBBY	CONDO	4	0.07	82.2	90	18.3	TRANE	FFEB201U	CEILING HUNG	-	3	115	1	2PRCM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW INTEGRAL T-STAT AND DISCONNECT SWITCH
EHC-03	FORCE-FLO CABINET HEATER	P308 ELEVATOR LOBBY	CONDO	4	0.07	82.2	90	18.3	TRANE	FFEB201U	CEILING HUNG	-	3	115	1	2PRCM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW INTEGRAL T-STAT AND DISCONNECT SWITCH
EHC-04	FORCE-FLO CABINET HEATER	P302 ELEVATOR LOBBY	CONDO	4	0.07	82.2	90	18.3	TRANE	FFEB201U	CEILING HUNG	-	3	115	1	2PRCM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW INTEGRAL T-STAT AND DISCONNECT SWITCH
EHC-05	FORCE-FLO CABINET HEATER	P215 ELEVATOR LOBBY	CONDO	4	0.07	82.2	90	18.3	TRANE	FFEB201U	CEILING HUNG	-	3	115	1	2PRCMW	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW INTEGRAL T-STAT AND DISCONNECT SWITCH
EHC-06	FORCE-FLO CABINET HEATER	P130 ELEVATOR LOBBY	CONDO	4	0.07	82.2	90	18.3	TRANE	FFEB201U	CEILING HUNG	-	3	115	1	2PRCMW	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW INTEGRAL T-STAT AND DISCONNECT SWITCH
EHC-07	FORCE-FLO CABINET HEATER	P117 WEST ELEV. LOBBY	CONDO	4	0.07	82.2	90	18.3	TRANE	FFEB201U	CEILING HUNG	-	3	115	1	2PRCMW	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW INTEGRAL T-STAT AND DISCONNECT SWITCH
EHC-08	FORCE-FLO CABINET HEATER	140 EAST VESTIBULE	CONDO	6	0.11	82.2	110	18.3	TRANE	FFEB201U	CEILING HUNG	-	3	115	1	2PRCMW	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW INTEGRAL T-STAT AND DISCONNECT SWITCH
EHC-09	FORCE-FLO CABINET HEATER	L1 STAIR B	CONDO	6	0.11	82.2	110	18.3	TRANE	FFEB201U	CEILING HUNG	-	3	115	1	2PRCME	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW REMOTE T-STAT AND DISCONNECT SWITCH
EHC-10	FORCE-FLO CABINET HEATER	L1 STAIR B	CONDO	6	0.11	82.2	110	18.3	TRANE	FFEB201U	CEILING HUNG	-	3	115	1	2PRCME	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW INTEGRAL T-STAT AND DISCONNECT SWITCH
EHC-11	FORCE-FLO CABINET HEATER	135 BIKE WASH	CONDO	4	0.07	82.2	90	18.3	TRANE	FFEB201U	CEILING HUNG	-	3	115	1	2PRCME	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW REMOTE T-STAT AND DISCONNECT SWITCH
EHC-12	FORCE-FLO CABINET HEATER	101 WEST VESTIBULE	CONDO	6	0.11	82.2	110	18.3	TRANE	FFEB201U	CEILING HUNG	-	3	115	1	2PRCMW	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW INTEGRAL T-STAT AND DISCONNECT SWITCH
EHC-13	FORCE-FLO CABINET HEATER	101 EAST CORRIDOR	CONDO	6	0.11	82.2	110	18.3	TRANE	FFEB201U	CEILING HUNG	-	3	115	1	2PRCME	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW INTEGRAL T-STAT AND DISCONNECT SWITCH
EHC-14	FORCE-FLO CABINET HEATER	104 MAIL ROOM	CONDO	6	0.11	82.2	110	18.3	TRANE	FFEB201U	CEILING HUNG	-	3	115	1	2PRCMW	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW INTEGRAL T-STAT AND DISCONNECT SWITCH
EHC-15	FORCE-FLO CABINET HEATER	126 VESTIBULE	CONDO	4	0.07	82.2	90	18.3	TRANE	FFEB201U	CEILING HUNG	-	3	115	1	2PRCMW	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW INTEGRAL T-STAT AND DISCONNECT SWITCH
EHC-16	FORCE-FLO CABINET HEATER	144 CORRIDOR	CONDO	6	0.11	82.2	110	18.3	TRANE	FFEB201U	CEILING HUNG	-	3	115	1	2PRCME	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW INTEGRAL T-STAT AND DISCONNECT SWITCH
EHC-17	FORCE-FLO CABINET HEATER	145 EXIT CORRIDOR	CONDO	6	0.11	82.2	110	18.3	TRANE	FFEB201U	CEILING HUNG	-	3	115	1	2PRCME	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW INTEGRAL T-STAT AND DISCONNECT SWITCH
EHC-18	FORCE-FLO CABINET HEATER	146 EXIT CORRIDOR	CONDO	6	0.11	82.2	110	18.3	TRANE	FFEB201U	CEILING HUNG	-	3	115	1	2PRCME	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW INTEGRAL T-STAT AND DISCONNECT SWITCH
EHC-19	FORCE-FLO CABINET HEATER	L2 EXIT CORRIDOR	CONDO	4	0.07	82.2	90	18.3	TRANE	FFEB201U	CEILING HUNG	-	3	115	1	2PRCMW	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW INTEGRAL T-STAT AND DISCONNECT SWITCH
EHC-20	FORCE-FLO CABINET HEATER	L2 EXIT CORRIDOR	CONDO	4	0.07	82.2	90	18.3	TRANE	FFEB201U	CEILING HUNG	-	3	115	1	2PRCME	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW INTEGRAL T-STAT AND DISCONNECT SWITCH
EHC-21	FORCE-FLO CABINET HEATER	1330 CORRIDOR	CONDO	6	0.11	82.2	110	18.3	TRANE	FFEB201U	CEILING HUNG	-	3	115	1	2PRCME	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW INTEGRAL T-STAT AND DISCONNECT SWITCH
EHC-22 (NOT USED)																															
EHC-23	FORCE-FLO CABINET HEATER	1305 VESTIBULE	CONDO	4	0.07	82.2	90	18.3	TRANE	FFEB201U	CEILING HUNG	-	3	115	1	2PRCPW	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW INTEGRAL T-STAT AND DISCONNECT SWITCH
UHC-01	HOT WATER UNIT HEATER	P416 CHILLER ROOM P4	CONDO	10	0.22	82.2	400	18.3	TRANE	UHSB446IT	CABINET	-	2	115	1	2PRCM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW REMOTE T-STAT AND DISCONNECT SWITCH
UHC-02	HOT WATER UNIT HEATER	P416 CHILLER ROOM P4	CONDO	10	0.22	82.2	400	18.3	TRANE	UHSB446IT	CABINET	-	2	115	1	2PRCM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW REMOTE T-STAT AND DISCONNECT SWITCH
UHC-03	HOT WATER UNIT HEATER	P415 BOILER ROOM P4	CONDO	12	0.30	82.2	400	18.3	TRANE	UHSB446IT	CABINET	-	2	115	1	2PRCM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW REMOTE T-STAT AND DISCONNECT SWITCH
UHC-04	HOT WATER UNIT HEATER	P415 BOILER ROOM P4	CONDO	12	0.30	82.2	400	18.3	TRANE	UHSB446IT	CABINET	-	2	115	1	2PRCM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW REMOTE T-STAT AND DISCONNECT SWITCH
UHC-05	HOT WATER UNIT HEATER	P216 MECH. ROOM P2	CONDO	4	0.12	82.2	240	18.3	TRANE	UHSB418IT	CABINET	-	2	115	1	2PRCME	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW REMOTE T-STAT AND DISCONNECT SWITCH
UHC-06	HOT WATER UNIT HEATER	P218 SPRINKLER CAB. P2	CONDO	8	0.17	82.2	400	18.3	TRANE	UHSB438IT	CABINET	-	2	115	1	2PRCME	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW REMOTE T-STAT AND DISCONNECT SWITCH
UHC-07	HOT WATER UNIT HEATER	P122 MUA ROOM P1	CONDO	8	0.17	82.2	400	18.3	TRANE	UHSB438IT	CABINET	-	2	115	1	2PRCMW	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW REMOTE T-STAT AND DISCONNECT SWITCH
UHC-08	HOT WATER UNIT HEATER	121 SPRINKLER ROOM P1	CONDO	12	0.30	82.2	400	18.3	TRANE	UHSB446IT	CABINET	-	2	115	1	2PRCMW	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW REMOTE T-STAT AND DISCONNECT SWITCH
UHC-09	HOT WATER UNIT HEATER	136 EAST GARBAGE L1	CONDO	8	0.17	82.2	400	18.3	TRANE	UHSB438IT	CABINET	-	2	115	1	2PRCME	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW REMOTE T-STAT AND DISCONNECT SWITCH
UHC-10	HOT WATER UNIT HEATER	134 LOADING AREA L1	CONDO	12	0.30	82.2	400	18.3	TRANE	UHSB446IT	CABINET	-	2	115	1	2PRCME	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW REMOTE T-STAT AND DISCONNECT SWITCH
UHC-11	HOT WATER UNIT HEATER	134 LOADING AREA L1	CONDO	12	0.30	82.2	400	18.3	TRANE	UHSB446IT	CABINET	-	2	115	1	2PRCME	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW REMOTE T-STAT AND DISCONNECT SWITCH
UHC-12	HOT WATER UNIT HEATER	1M15 MUA ROOM L1 M	CONDO	10	0.22	82.2	400	18.3	TRANE	UHSB446IT	CABINET	-	2	115	1	2PRCMW	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW REMOTE T-STAT AND DISCONNECT SWITCH
UHC-13	HOT WATER UNIT HEATER	1M11 GARBAGE L1 M	CONDO	10	0.22	82.2	400	18.3	TRANE	UHSB446IT	CABINET	-	2	115	1	2PRCMW	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW REMOTE T-STAT AND DISCONNECT SWITCH
UHC-14	HOT WATER UNIT HEATER	1318 GEN ROOM L13	CONDO	12	0.30	82.2	400	18.3	TRANE	UHSB446IT	CABINET	-	2	115	1	2PRCPE	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW REMOTE T-STAT AND DISCONNECT SWITCH
UHC-15	HOT WATER UNIT HEATER	1316 MECH ROOM L13	CONDO	12	0.30	82.2	400	18.3	TRANE	UHSB446IT	CABINET	-	2	115	1	2PRCPE	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW REMOTE T-STAT AND DISCONNECT SWITCH
UHC-16	HOT WATER UNIT HEATER	1316 MECH ROOM L13	CONDO	12	0.30	82.2	400	18.3	TRANE	UHSB446IT	CABINET	-	2	115	1	2PRCPE	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW REMOTE T-STAT AND DISCONNECT SWITCH
UHC-17	HOT WATER UNIT HEATER	1320 MUA RM L13	CONDO	10	0.22	82.2	400	18.3	TRANE	UHSB446IT	CABINET	-	2	115	1	2PRCPE	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	CW REMOTE T-STAT AND DISCONNECT SWITCH

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. ENT WATER TEMPERATURE 82.2°C WATER TEMPERATURE DROP 11°C, ENTERING AIR TEMPERATURE 18.3°C.
5. ALL UNITS C/W INTEGRAL DISCONNECT SWITCH, THERMOSTAT AND 1" THROWAWAY FILTER.
6. WIRING OF THERMOSTATS BY DIVISION 15.
7. REFER TO SECTION 15700 FOR FUTUR US FAULS.

UNITARY DX UNITS SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	OWNERSHIP	SUPPLY AIR (L/S)	COOLING CAP. (KW)		EVAP. ENT. COND. (°C)		HEATING CAP. (KW)	MANUFACTURER	MODEL	FLA AMPS	MAX FUSE SIZE	POWER SUPPLY					STARTER					CONTROLS				OTHER REQUIREMENTS			REMARKS:
					TOTAL	SENS.	DB	WB						VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:		INSTALLED BY:		TYPE	MANUAL	AUTO.	INTERLOCK BY:		W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT.	
																			DIV. 15	DIV. 16	DIV. 15	DIV.16				DIV. 15	DIV. 16				
ACC-01	DX FAN COIL UNIT	P102 ELEC. RM	CONDO	1130	22	-	26.7	19.4	-	DAIKIN	LAH005A	2.1	15	575	3	6PIRCM	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	
ACC-02	DX FAN COIL UNIT	P102 ELEC. RM	CONDO	1130	22	-	26.7	19.4	-	DAIKIN	LAH005A	2.1	15	575	3	6PIRCM	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	
ACC-03	DX FAN COIL UNIT	P102 ELEC. RM	CONDO	1130	22	-	26.7	19.4	-	DAIKIN	LAH005A	2.1	15	575	3	6PIRCM	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	
ACC-04	DX FAN COIL UNIT	P102 ELEC. RM	CONDO	1130	22	-	26.7	19.4	-	DAIKIN	LAH005A	2.1	15	575	3	6PIRCME	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	
ACC-05	DX FAN COIL UNIT	1308 ELEV. M/RM	CONDO	1130	16.7	-	26.7	19.4	-	IEC INTERNATIONAL	HB030	3.8	15	208	3	2PRCPW	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	
ACC-06	DX FAN COIL UNIT	1317 ELEV. M/RM	CONDO	1130	16.7	-	26.7	19.4	-	IEC INTERNATIONAL	HB030	3.8	15	208	3	2PRCPE	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	
ACC-07	DX FAN COIL UNIT	P413 ELEV. M/RM	CONDO	190	3.4	-	26.7	19.4	-	DAIKIN	FTXS12LVJU	-	-	208	1	FEED FROM ACUC-07	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	
ACC-08	DX FAN COIL UNIT	P125 ELEV. M/RM	CONDO	190	3.4	-	26.7	19.4	-	DAIKIN	FTXS12LVJU	-	-	208	1	FEED FROM ACUC-08	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	
ACC-09	DX FAN COIL UNIT	8H11 WEST GARBAGE	CONDO	370	6.8	-	26.7	19.4	-	DAIKIN	FHQ24PVJU	1.3	15	208	1	2PIRCMW	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	
ACC-10	DX FAN COIL UNIT	8H11 WEST GARBAGE	CONDO	370	6.8	-	26.7	19.4	-	DAIKIN	FHQ24PVJU	1.3	15	208	1	2PIRCMW	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	
ACC-11	DX FAN COIL UNIT	08 EAST GARBAGE	CONDO	370	6.8	-	26.7	19.4	-	DAIKIN	FHQ24PVJU	1.3	15	208	1	2PIRCME	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	
ACC-12	DX FAN COIL UNIT	08 EAST GARBAGE	CONDO	370	6.8	-	26.7	19.4	-	DAIKIN	FHQ24PVJU	1.3	15	208	1	2PIRCME	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	
ACC-13	DX FAN COIL UNIT	1M14 RECYCLING	CONDO	188	3.4	-	26.7	19.4	-	DAIKIN	FTXS12LVJU	-	-	208	1	FEED FROM ACUC-13	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	
ACC-14	DX FAN COIL UNIT	P200 LOFTY RM	CONDO	132	2.6	2.7	26.7	19.4	-	DAIKIN	FTXS09LVJU	-	-	208	1	FEED FROM ACUC-14	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	
ACC-15	DX FAN COIL UNIT	P221 CCU RM	CONDO	132	2.6	2.7	26.7	19.4	-	DAIKIN	FTXS09LVJU	-	-	208	1	FEED FROM ACUC-15	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	
ACC-16	DX FAN COIL UNIT	P222 BEANFIELD MAIN ENT. RM	CONDO	132	2.6	2.7	26.7	19.4	-	DAIKIN	FTXS09LVJU	-	-	208	1	FEED FROM ACUC-16	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	
ACC-17	DX FAN COIL UNIT	1324 LOFTY RM	CONDO	132	2.6	2.7	26.7	19.4	-	DAIKIN	FTXS09LVJU	-	-	208	1	FEED FROM ACUC-17	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	
ACC-18	DX FAN COIL UNIT	1325 CCU RM	CONDO	132	2.6	2.7	26.7	19.4	-	DAIKIN	FTXS09LVJU	-	-	208	1	FEED FROM ACUC-18	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	
ACC-19	DX FAN COIL UNIT	1323 BEANFIELD MAIN ENT. RM	CONDO	132	2.6	2.7	26.7	19.4	-	DAIKIN	FTXS09LVJU	-	-	208	1	FEED FROM ACUC-19	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	

NOTES:
1. REFER TO SECTION 15050 REGARDING WIRING AND ELECTRIC MOTORS
2. REFER TO 15700 FOR FURTHER DETAILS.
3. REFER TO SECTION 15100 FOR VIBRATION ISOLATION.

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No.	Revision	Date
1	ADD M-001	2015/10/30
4		
3	ISSUED FOR CONSTRUCTION	2016-07-07
2	ISSUED FOR CONSTRUCTION (ELECTRICAL)	2016-04-21
1	ISSUED FOR TENDER	2015-11-13

No.	Issued For	Date

AQUAVISTA AT BAYSIDE TORONTO

Drawing Title
CONDO - EQUIPMENT SCHEDULES #4

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

Scale 1 : 1
Drawn by S.J.
Checked by Checker
Project No. 8489D
Date 04-08-15
Drawing No. ME-14

Plot Date : 2016/07/07 11:11:11 PM File Path : C:\Users\pete_r\Documents\8489D - Aquavista - MEP_Revit_R13

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					STARTER					CONTROLS				OTHER REQUIREMENTS			REMARKS:
											VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:		INSTALLED BY:		TYPE	MANUAL	AUTO.	INTERLOCK BY:		W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT.	
																DIV. 15	DIV. 16	DIV. 15	DIV.16				DIV. 15	DIV.16				
ACUC-01	ACC-01 SPLIT AIR-COOLED CONDENSER	P1 PARKING LEVEL	CONDO	22	R-410A	35	REPPLUS	OCZ-060-1H-8	13	20	575	3	6P/RCM	-	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	REPPLUS	OCZ-060-1H-8	13	20	575	3	6P/RCM	-	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	REPPLUS	OCZ-060-1H-8	13	20	575	3	6P/RCM	-	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	REPPLUS	OCZ-060-1H-8	13	20	575	3	6P/RCME	-	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	REPPLUS	OCZ-050-8H-5	30	50	208	3	2RRCPH	-	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	REPPLUS	OCZ-050-8H-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	2P/RCM	-	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	2P/RCMW	-	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	2P/RCMW	-	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	2P/RCMW	-	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	2P/RCME	-	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	2P/RCME	-	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	2P/RCME	-	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	2P/RCME	-	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	2P/RCME	-	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	2P/RCME	-	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

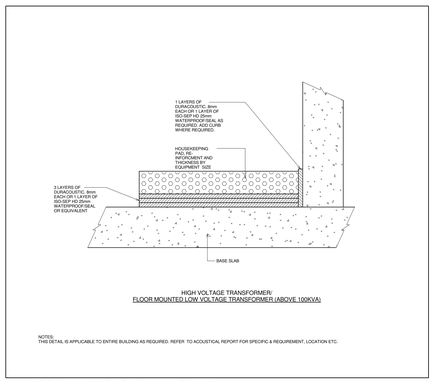
NOTES:
1. REFER TO SECTION 15050 REGARDING WIRING AND ELECTRIC MOTORS
2. REFER TO SECTION 15700 FOR FURTHER DETAILS.
3. REFER TO SECTION 15106 FOR VIBRATION ISOLATION
4. DIV 16 TO RUN 20MM C/ BETWEEN ACC AND RELATED AC UNIT FOR CONTROL WIRING.

DOMESTIC HOT WATER TANK SCHEDULE

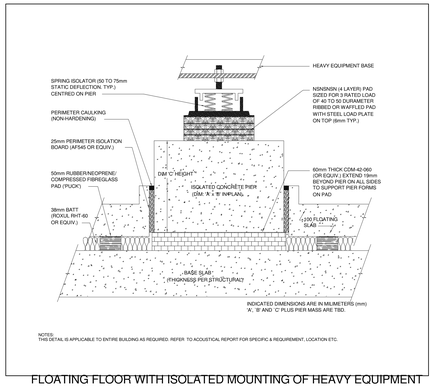
DOMESTIC HOT WATER HEATERS	DHWTC # 1	DHWTC # 2				REMARKS
MANUFACTURER	CLEMMER	CLEMMER				CEMENT LINED TANK / INSULATED DOUBLE WALL COIL RATED TO 175-200 PSI / TANK FLANGE SIZE TO MATCH TUBE BUNDLE SIZE
STORAGE CAPACITY (LIT)	6975	3177				
OPERATING PRESSURE MAX. (KPA) TANK SHELL	1034	1034				
COIL MODEL (KPA) COPPER TUBE	DW14-	DW10-48				**DOUBLE WALL COIL TUBES RATED AT 175-200 PSI WORKING PRESSURE. HEATING WATER IS 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 LS BOILER SIDE	9.6	3.9				
SIZE (DIA X LENGTH)	1830 x 3050	1370 x 2440				
OWNERSHIP	CONDO	CONDO				

EXPANSION TANK SCHEDULE

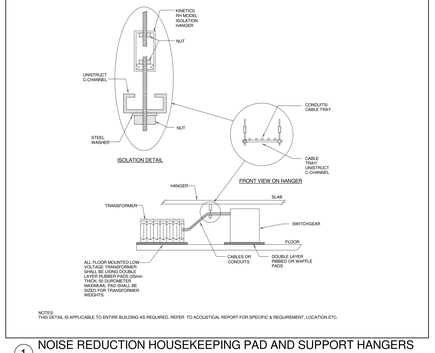
REF.	SYSTEM	OWNERSHIP	TANK CAPACITY (LIT)	MAX ACCEPT (LIT)	MODEL	MANUFACTURER	REMARKS
ETC-1	L.T. BOILER SYSTEM	CONDO	2993	-	3000-L	AMTROL	
ETC-2	H.T. BOILER SYSTEM	CONDO	2000	-	2000-L	AMTROL	
ETC-3	CH. WATER SYSTEM	CONDO	797	317	AX-080	AMTROL	
ETC-4	MAUC-1 HEATING SYSTEM	CONDO	41	9	AX-20	AMTROL	
ETC-5	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	



3 ISOLATED HOUSEKEEPING PAD
N.T.S.



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



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

REGISTERS, GRILLES AND DIFFUSERS SCHEDULE

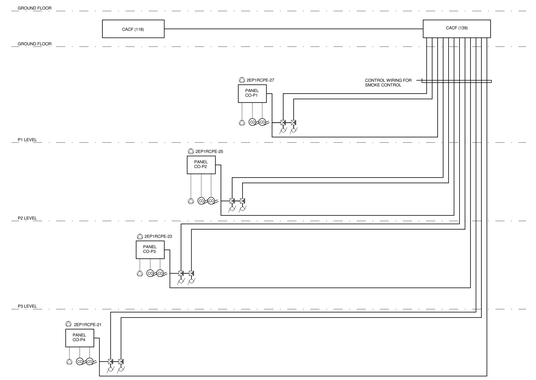
REF.	FUNCTION	CONFIGURATION	MANUFACTURER	MODEL NUMBER	MOUNTING TYPE	REMARKS
A	SUPPLY AIR	LOUVERED FACE DIFFUSER	E.H. PRICE	- /5350 F, L, A- B/12	DUCT MOUNTED / SIDEWALL	REFER TO PLANS FOR NECK SIZE
B	RETURN / EXHAUST AIR	LOUVERED FACE DIFFUSER	E.H. PRICE	- /5350 F, L, A- B/12	DUCT MOUNTED	REFER TO PLANS FOR NECK SIZE
C	SUPPLY AIR	SQUARE CONE DIFFUSER	E.H. PRICE	600x600 /SCD -31 /3C - B/12	DRYWALL / T-BAR	REFER TO PLANS FOR NECK SIZE
D	SUPPLY AIR	1 SLOT LINEAR DIFFUSER	E.H. PRICE	- /ASZ10 /1 /23 /2Y /-	DRYWALL / SIDEWALL	c/w PLENUM - /ASPZ10 /1 /-
E	SUPPLY AIR	1 SLOT LINEAR DIFFUSER	E.H. PRICE	- /JSZ10 /1 /25 /2Y /-	DRYWALL / SIDEWALL	c/w PLENUM - /JSPZ10 /1 /-
F	RETURN AIR	1 SLOT LINEAR DIFFUSER	E.H. PRICE	- /ASZ10 /1 /23 /2Y /-	DRYWALL / SIDEWALL	-
G	RETURN AIR	1 SLOT LINEAR DIFFUSER	E.H. PRICE	- /JSZ10 /1 /25 /2Y /-	DRYWALL / SIDEWALL	-
H	RETURN AIR	EGG CRATE	E.H. PRICE	- /8K-TB B12 [- /8K-A B12]	T-BAR [DRYWALL]	NON DUCTED, COLOUR = APPLIANCE WHITE
J	SUPPLY AIR	1 SLOT LINEAR DIFFUSER	E.H. PRICE	- /JSZ10 /1 /22 /2Y /-	DRYWALL / SIDEWALL	c/w PLENUM - /JSPZ10 /1 /-
K	RETURN AIR	1 SLOT LINEAR DIFFUSER	E.H. PRICE	- /JSZ10 /1 /22 /2Y /-	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	- /JSZ25 /2 /23 /B12	T-BAR [DRYWALL]	

SYMBOL CLARIFICATION

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

GENERAL NOTES:
1. SIZE OF FUSE BASED ON BUSSMANN J DUAL ELEMENT TIME DELAY FUSES
2. SIZE OF BREAKER BASED ON CUTLER HAMMER HMCP TYPE CONDITIONS
3. ALL STARTERS AND/OR DISCONNECT SWITCHES LOCATED IN THE PARKING LEVELS SHALL BE MOUNTED BEHIND A LOCKABLE, KEYED ALIKE.
4. SEE THROUGH COVER, PROVIDE A MINIMUM 10 KEYS.
5. ALL WIRE SIZES ARE BASED ON COPPER.

STARTER TYPES:
FVNR - FULL VOLTAGE NON REVERSING
RVNR - FULL VOLTAGE REVERSING WITH INTERLOCKING
PCK - PACKAGED SUPPLIED WITH EQUIPMENT
2SBN - TWO (2) SPEED SINGLE WINDING
2SBW - TWO (2) SPEED SINGLE WINDING 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.

Contractor Must Check And Verify All Dimensions On The Job.
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15/08/15
Date:

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Guelph Kitchener Trail Sarni John

No.	Revision	Date
1	ADD M-001	2015-10-06
2	ISSUED FOR ADD E-001	2015-10-16
3	ISSUED FOR ADD E-003	2016/01/26
4	ISSUED FOR ADD M-002	2016/XX/XX

No.	Issued For	Date
4		
3	ISSUED FOR CONSTRUCTION	2016-07-07
2	ISSUED FOR CONSTRUCTION (ELECTRICAL)	2016-04-21
1	ISSUED FOR TENDER	2015-11-13

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

Plot Date: 2016/07/07, 2:34:03 PM File Path: C:\Users\pierre_h\Documents\8489D - Aquavista - MEP_Revit_R22

WATER CHILLER SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	CAPACITY (KW)	COOLER / EVAPORATOR				SAT. DISCHARGE TEMP. (°C)	CONDENSER				SAT. DISCHARGE TEMP. (°C)	INPUT POWER (kW)	IPLV.	REFRIGERANT	NO. OF COMPRESSOR	STEPS OF UNLOADING	MANUFACTURER	OPERATING WEIGHT (KG)	MODEL No.	MIN. CIRCUIT AMPS	MAX. FUSE SIZE	POWER SUPPLY				STARTER			CONTROLS				OTHER REQUIREMENTS				OTHERS	REMARKS:
						FLOW (L/S)	EWT (°C)	LWT (°C)	PRE. DROP (KPA)		FLOW (L/S)	EWT (°C)	LWT (°C)	PRE. DROP (KPA)												VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:	INSTALLED BY:	TYPE	MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV. 16	DISC. AT MOTOR	W.P. DISC. AT MOTOR	F.A. SHUT DOWN		
CHA-01	SCROLL CHILLER	CROOM P4	2 PIPE FCU SYSTEM	ARTSCAPE	384	16.6	11.1	5.6	35	-	20.7	29.4	35.0	28	35.7	84.5	20.3	R-410A	-	-	MCQUAY DAIKIN	-	WGZ11SD	181	225	575	3	SWBD-6RA	-	YES	DIV. 15	DIV. 15	-	-	YES	YES	-	DIV. 15	-	-	-	-

NOTES:
1. REFER TO SECTION 15050 FOR WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION AND SPECIFICATION 15700 FOR FURTHER DETAILS.
3. FOULING FACTOR FOR COOLERS AND CONDENSERS (0.0001) (0.00025).
4. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.
5. MECHANICAL CONTRACTORS SUPPLYING EQUIPMENT MUST COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ANY EQUIPMENT ORDERED OR ELECTRICAL WIRING INSTALLED.

COOLING TOWER SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	CAPACITY (KW)	SUMMER			OUTDOOR TEMP. WB. (°C)	WINTER			TUBES FOULING DROP (KPA)	MODEL	OPERATING WEIGHT (KG)	MANUFACTURER	FAN HEATER (KW)	FAN MOTOR (KW)	MIN. CIRCUIT AMPS	MAX. FUSE SIZE	POWER SUPPLY				STARTER			CONTROLS				OTHER REQUIREMENTS				OTHERS	REMARKS:
						FLOW (L/S)	EWT (°C)	LWT (°C)		FLOW (L/S)	EWT (°C)	LWT (°C)									VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:	INSTALLED BY:	TYPE	MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV. 16	DISC. AT MOTOR	W.P. DISC. AT MOTOR	F.A. SHUT DOWN		
CTA-01	INDUCED DRAFT	ROOF	CHILLER # 2	ARTSCAPE	384	20.7	35.0	29.4	24.4	-	-	-	-	PT2-0412A-1G1	-	BALTIMORE AIRCOIL	6	2 x 2.2	-	-	575	3	DP-6RRA	-	YES	DIV. 15	DIV. 15	VFD	-	YES	YES	-	-	DIV. 15	-	-	VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS.. BASIN HEATER, LOW WATER CUT OFF, PRESSURE REDUCING VALVES, AUX. CONTACTS FOR BAS. DIV 15 CONTRACTOR:SINGLE ELECTRICAL FEED TO THE ENTIRE UNIT.

NOTES:
1. REFER TO SECTION 15050 FOR WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION AND SPECIFICATION 15700 FOR FURTHER DETAILS.
3. FOULING FACTOR FOR COOLERS AND CONDENSERS (0.0001) (0.00025).
4. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.
5. MECHANICAL CONTRACTORS SUPPLYING EQUIPMENT MUST COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ANY EQUIPMENT ORDERED OR ELECTRICAL WIRING INSTALLED.
6. SINGLE ELECTRICAL FEED TO THE EQUIPMENT.

BOILER SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	INPUT (KW)	OUTPUT (KW)	GAS TRAIN INLET PRESSURE (KPA)	OPERATING PRESSURE MAX. (KPA)	OPERATING TEMP. MAX. (°C)	MANUFACTURER	MODEL	AMPERE	POWER SUPPLY				STARTER			CONTROLS				OTHER REQUIREMENTS			OTHERS	REMARKS:
													VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:	INSTALLED BY:	TYPE	MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV. 16	DISC. AT MOTOR	W.P. DISC. AT MOTOR	F.A. SHUT DOWN		
HBA-01	HIGH/LOW HEATING BOILER	M/ROOM P4	HEATING SYSTEM	ARTSCAPE	570	524	MIN. 1 / MAX. 3.2	1137	93.3	LOCHINVAR	FBN 2000	13	100	1	2P4RAM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	DIV. 16	-	-	-	PROVIDE SHUT OFF SWITCH AT ROOM ENTRY (DIV. 16)
HBA-02	HIGH/LOW HEATING BOILER	M/ROOM P4	HEATING SYSTEM	ARTSCAPE	570	524	MIN. 1 / MAX. 3.2	1137	93.3	LOCHINVAR	FBN 2000	13	100	1	2P4RAM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	DIV. 16	-	-	-	PROVIDE SHUT OFF SWITCH AT ROOM ENTRY (DIV. 16)
HBA-03	DHW HEATING	M/ROOM P4	DHW SYSTEM	ARTSCAPE	220	212	MIN. 1 / MAX. 3.2	1137	93.3	LOCHINVAR	FBN 0751	5	120	1	2P4RAM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	DIV. 16	-	-	-	PROVIDE SHUT OFF SWITCH AT ROOM ENTRY (DIV. 16)
HBA-04	DHW HEATING	M/ROOM P4	DHW SYSTEM	ARTSCAPE	220	212	MIN. 1 / MAX. 3.2	1137	93.3	LOCHINVAR	FBN 0751	5	120	1	2P4RAM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	DIV. 16	-	-	-	PROVIDE SHUT OFF SWITCH AT ROOM ENTRY (DIV. 16)

NOTES:
1. REFER TO SECTION 15050 FOR WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION AND SPECIFICATION 15700 FOR FURTHER DETAILS.
3. FOULING FACTOR FOR COOLERS AND CONDENSERS (0.0001) (0.00025).
4. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.
5. MECHANICAL CONTRACTORS SUPPLYING EQUIPMENT MUST COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ANY EQUIPMENT ORDERED OR ELECTRICAL WIRING INSTALLED.
6. PROVIDE MODULATING CENTRALIZED CONTROLLER WITH INDOOR OUTDOOR RESET FOR BOILERS.
7. PROVIDE FLOW SWITCH, LOW WATER CUT OFF, PRESSURE REDUCING VALVES, AUX. CONTACTS FOR BAS.

MAKE UP AIR UNIT SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	SUPPLY AIR (L/S)	EXHAUST AIR (L/S)	COOLING			HEATING			P.W.L. db RE 10^12 WATTS OCTAVE BAND								E.S.P. (KPA)	MANUFACTURER	MODEL	EXHAUST FAN MOTOR (KW)	SUPPLY FAN MOTOR (KW)	F. LOAD AMPS	MAX. FUSE AMPS	POWER SUPPLY				STARTER			TYPE	CONTOLS				OTHER REQUIREMENTS:			OTHERS	REMARKS:
							TOTAL (KW)	SENS (KW)	WATER FLOW (L/S)	TOTAL (KW)	SENS (KW)	WATER FLOW (L/S)	1	2	3	4	5	6	7	8								VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:	INSTALLED BY:		MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV. 16	W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT		
MAUA-01	CONDO MAU	LEVEL PH	CORRIDOR	ARTSCAPE	3070	-	68.1	37.1	2.6	175.3	-	4.1									0.30	MCQUAY DAIKIN	CAH014GDAC	-	11.2	14.1		575	3	DP-6RRA	-	YES	DIV. 15	DIV. 15	VFD	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT, FIRE STAT, DUCT STAT & MERV 8 PRE & MERV 13 CARBON FILTER AS PER A. G. REPORT, MD MUST BE COMPATIBLE WITH SIEMENS FLN BAS, BASIN HEATER, LOW WATER CUT OFF, PRESSURE REDUCING VALVES, AUX. CONTACTS FOR BAS. PRESSURE DIFFERENTIAL SENSORS, ALARM TO BMS WHEN PRESSURE DROP EXCEEDS 1.2 IN.WG. AS RECOMMENDED BY THE FILTER MANUFACTURER.

NOTES:
1. REFER TO SECTION 15050 FOR WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION AND SPECIFICATION 15700 FOR FURTHER DETAILS.
3. REFER TO SECTION 15100 FOR VIBRATION ISOLATION.
4. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.
5. MECHANICAL CONTRACTORS SUPPLYING EQUIPMENT MUST COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ANY EQUIPMENT ORDERED OR ELECTRICAL WIRING INSTALLED.
6. ANY INCREASE IN ELECT. COSTS DUE TO MECH. EQUIPMENT SUBSTITUTION TO BE CARRIED BY DIVISION 15.

COOLING / HEATING COIL SCHEDULE

REFERENCE	DESCRIPTION	SERVICE	OWNERSHIP	TOTAL AIR FLOW (L/S)	COIL AIR FLOW (L/S)	COOLING CAPACITY (KW)		HEATING CAPACITY (KW)	COOLING						HEATING						FLUID	MANUFACTURER	REMARKS:
						TOTAL	SENSIBLE		EAT (°C)	LAT (°C)	FLOW (L/S)	EWT (°C)	LWT (°C)	PRE. DP. (KPA)	EAT (°C)	LAT (°C)	FLOW (L/S)	EWT (°C)	LWT (°C)	PRE. DP. (KPA)			
CC-01	COOLING COIL	MAUA-01 COOLING	ARTSCAPE	3070	1605	68.1	37.1	-	31.1/23.3	12.0/11.9	2.6	5.6	11.1	20	-	-	-	-	-	-	WATER	MCQUAY DAIKIN	
HC-01	HEATING COIL	MAUA-01 HEATING	ARTSCAPE	3070	3070	-	-	175.3	-	-	-	-	-	-	-20.0	26.1	4.1	71.1	60.0	16	40% P.GLY.	MCQUAY DAIKIN	

NOTES:

ENERGY RECOVERY VENTILATOR SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	NORMAL SPEED OPERATION		HIGH SPEED OPERATION		E.S.P. (KPA)	ENT. AIR TEMP. (C)		MANUFACTURER	MODEL	ENERGY REQUIRED (AMPS)	MOTOR SIZE (KW)	POWER SUPPLY					STARTER		TYPE	CONTOLS				OTHER REQUIREMENTS:			OTHERS	REMARKS:
					SUPPLY AIR (L/S)	EXHAUST AIR (L/S)	SUPPLY AIR (L/S)	EXHAUST AIR (L/S)		WINTER	SUMMER					VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:	INSTALLED BY:		MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV. 16	DISC. AT MOTOR	W.P. DISC. AT MOTOR	F.A. SHUT		
ERVA-A	ENERGY RECOVERY UNIT	TYPICAL SUITES	TYPICAL SUITES	ARTSCAPE	25	22.5	50	45	0.10	-20	32.2	REVERSOMATIC	RERV-D100	-	0.15	120	1	SUITE PANEL	-	YES	DIV. 15	DIV. 15	PKG	-	YES	YES	-	PLUG	-	-		C/W CAMFIL ACTIVATED CARBON MERV 8 FILTERS, ECM MOTOR AND CONTROLS
ERVA-B	ENERGY RECOVERY UNIT	TYPICAL SUITES	TYPICAL SUITES	ARTSCAPE	30	27	50	45	0.10	-20	32.2	REVERSOMATIC	RERV-D100	-	0.15	120	1	SUITE PANEL	-	YES	DIV. 15	DIV. 15	PKG	-	YES	YES	-	PLUG	-	-		C/W CAMFIL ACTIVATED CARBON MERV 8 FILTERS, ECM MOTOR AND CONTROLS
ERVA-C	ENERGY RECOVERY UNIT	TYPICAL SUITES	TYPICAL SUITES	ARTSCAPE	35	31.5	60	54	0.10	-20	32.2	REVERSOMATIC	RERV-D100	-	0.15	120	1	SUITE PANEL	-	YES	DIV. 15	DIV. 15	PKG	-	YES	YES	-	PLUG	-	-		C/W CAMFIL ACTIVATED CARBON MERV 8 FILTERS, ECM MOTOR AND CONTROLS
ERVA-D	ENERGY RECOVERY UNIT	TYPICAL SUITES	TYPICAL SUITES	ARTSCAPE	45	36	60	54	0.10	-20	32.2	REVERSOMATIC	RERV-D100	-	0.15	120	1	SUITE PANEL	-	YES	DIV. 15	DIV. 15	PKG	-	YES	YES	-	PLUG	-	-		C/W CAMFIL ACTIVATED CARBON MERV 8 FILTERS, ECM MOTOR AND CONTROLS
ERVA-E	ENERGY RECOVERY UNIT	AMENITY PH	AMENITY PH	ARTSCAPE	470	420	470	420	0.10	-20	32.2	ALDES	E1100-FI	10.5	1.26	120	1	2RRAAM	-	YES	DIV. 15	DIV. 15	PKG	-	YES	YES	-	PLUG	-	-		C/W CAMFIL ACTIVATED CARBON MERV 8 FILTERS AND CONTROLS
ERVA-F	NOT USED																															

NOTES:

HEAT EXCHANGER SCHEDULE

REFERENCE	LOCATION	SERVICE	OWNERSHIP	PRIMARY					SECONDARY						FUNCTION	MANUFACTURER	TYPE	MODEL NUMBER	REMARKS:
				FLUID	FLOW US (L/S)	P.D. (KPA)	EWT (°C)	LWT (°C)	PRE. RATING (KPA)	FLUID	FLOW US (L/S)	P.D. (KPA)	EWT (°C)	LWT (°C)	PRE. RATING (KPA)				
HEA-01	MAU ROOM PH	MUA-04 HEATING	AFFORDABLE	WATER	3.9	21	82.2	71.1	1034	40% P.GLY.	4.1	28	60.0	71.1	1034	HEATING	BELL & GOSSETT	PLATE AND FRAME	P14

NOTES:

VERTICAL FAN COIL SCHEDULE - 2 PIPE (SUITES)

REFERENCE	DESCRIPTION	OWNERSHIP	SUPPLY AIR (L/S)	E.S.P. (PA)	COOLING					HEATING				HEATING ELEMENT (KW)	MANUFACTURER	MODEL	MOTOR SIZE (KW)	POWER SUPPLY					STARTER		TYPE	CONTOLS				OTHER REQUIREMENTS:			OTHERS	REMARKS:
					TOTAL (KW)	SENS (KW)	E.A.T. (°C) DB	E.A.T. (°C) WB	WATER FLOW (L/S)	EWT (°C)	TOTAL (KW)	SENS (KW)	WATER FLOW (L/S)	EWT (°C)					VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:	INSTALLED BY:		MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV. 16	W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT		
FCA-01	SUITE 2 PIPES FANCOIL - VERTICAL	ARTSCAPE	142	50	2.5	1.8	24.1	18.4	0.10	5.6	4.6	-	0.10	60.0	1	UNILUX	DLE350	0.10	120	1	SUITE PANEL 15A-1P	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMMABLE, MERV 11 FILTER, THERMAL METER, FINAL BREAKER SIZE TO BE COORDINATED WITH ELECTRICAL CONTRACTOR.
FCA-02	SUITE 2 PIPES FANCOIL - VERTICAL	ARTSCAPE	190	50	4.1	2.7	24.1	18.4	0.17	5.6	7.1	-	0.17	60.0	1	UNILUX	DLE450	0.16	120	1	SUITE PANEL 20A-1P	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMMABLE, MERV 11 FILTER, THERMAL METER, FINAL BREAKER SIZE TO BE COORDINATED WITH ELECTRICAL CONTRACTOR.
FCA-03	SUITE 2 PIPES FANCOIL - VERTICAL	ARTSCAPE	283	50	6.0	3.9	24.1	18.4	0.25	5.6	10.3	-	0.25	60.0	1	UNILUX	DLE600	0.16	120	1	SUITE PANEL 20A-1P	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMMABLE, MERV 11 FILTER, THERMAL METER, FINAL BREAKER SIZE TO BE COORDINATED WITH ELECTRICAL CONTRACTOR.
FCA-04	SUITE 2 PIPES FANCOIL - VERTICAL	ARTSCAPE	378	50	7.9	5.2	24.1	18.4	0.31	5.6	13.6	-	0.31	60.0	1.5	UNILUX	DLE800	0.16	120	1	SUITE PANEL 20A-1P	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMMABLE, MERV 11 FILTER, THERMAL METER, FINAL BREAKER SIZE TO BE COORDINATED WITH ELECTRICAL CONTRACTOR.
FCA-05	SUITE 2 PIPES FANCOIL - VERTICAL	ARTSCAPE	472	50	10.5	6.8	24.1	18.4	0.37	5.6	17.4	-	0.37	60.0	1.5	UNILUX	DLE1000	0.33	120	1	SUITE PANEL 30A-1P	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMMABLE, MERV 11 FILTER, THERMAL METER, FINAL BREAKER SIZE TO BE COORDINATED WITH ELECTRICAL CONTRACTOR.

VERTICAL FAN COIL SCHEDULE - 2 PIPE (ARTSCAPE)

REFERENCE	DESCRIPTION	LOCATION	OWNERSHIP	SUPPLY AIR (L/S)	E.S.P. (PA)	COOLING					HEATING				HEATING ELEMENT (KW)	MANUFACTURER	MODEL	MOTOR SIZE (KW)	POWER SUPPLY					STARTER		TYPE	CONTOLS				OTHER REQUIREMENTS:			OTHERS	REMARKS:
						TOTAL (KW)	SENS (KW)	E.A.T. (°C) DB	E.A.T. (°C) WB	WATER FLOW (L/S)	EWT (°C)	TOTAL (KW)	SENS (KW)	WATER FLOW (L/S)	EWT (°C)					VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:	INSTALLED BY:		MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV. 16	W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT		
VFCA-01	2 PIPES FANCOIL - VERTICAL	M02 RECEPTION	ARTSCAPE	190	50	4.1	2.7	24.1	18.4	0.17	5.6	7.1	-	0.17	60.0	1	UNILUX	DLE450	0.16	120	1	2P1ARAM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMMABLE, MERV 11 FILTER, THERMAL METER.
VFCA-02	2 PIPES FANCOIL - VERTICAL	M03 BOARD ROOM	ARTSCAPE	142	50	2.5	1.8	24.1	18.4	0.10	5.6	4.6	-	0.10	60.0	1	UNILUX	DLE350	0.10	120	1	2P1ARAM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMMABLE, MERV 11 FILTER, THERMAL METER.
VFCA-03	2 PIPES FANCOIL - VERTICAL	M04 ADMIN OFFICE	ARTSCAPE	190	50	4.1	2.7	24.1	18.4	0.17	5.6	7.1	-	0.17	60.0	1	UNILUX	DLE450	0.16	120	1	2P1ARAM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMMABLE, MERV 11 FILTER, THERMAL METER.

Contractor Must Check And Verify All Dimensions On The Job.

Do Not Scale The Drawings.

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Date: 04-09-15

D. C. M. BELLAMY

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No.	Revision	Date
1	ADD M-001	2015/10/30

No.	Issued For	Date
4	ISSUED FOR CONSTRUCTION	2016-07-07
4	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-12-15
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IHT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

ARTSCAPE - EQUIPMENT SCHEDULES #1

Project

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

Scale 1 : 1

Drawn by S.J.

Checked by Checker

Project No. 8489D

Date 04-09-15

Drawing No. ME-21

N

PUMP SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	OWNERSHIP	WATER FLOW (L/S)	HEAD (KPA)	RPM	MANUFACTURER	TYPE / SIZE	ENERGY REQUIRED (HP)	MOTOR SIZE (KW)	POWER SUPPLY VOLTS	POWER SUPPLY PHASE	POWER SUPPLY FED FROM	POWER SUPPLY EM.	POWER SUPPLY NORM.	STARTER SUPPLIED BY: DIV. 15	STARTER SUPPLIED BY: DIV. 16	STARTER INSTALLED BY: DIV. 15	STARTER INSTALLED BY: DIV.16	STARTER TYPE	CONTROLS MANUAL	CONTROLS AUTO.	CONTROLS INTERLOCK BY: DIV. 15	CONTROLS INTERLOCK BY: DIV.16	OTHER REQUIREMENTS W.P. DISC. AT MOTOR	OTHER REQUIREMENTS DISC. AT MOTOR	OTHER REQUIREMENTS F.A. SHUT.	REMARKS:	NOTES:
PA-01	CONDENSER WATER PUMP	MROOM P4	ARTSCAPE	20.7	214	1800	S.A.ARMSTRONG	4300 0306-015		11.2	575	3	6PARAM	-	YES	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT, ONE DUTY / ONE STANDBY PACKAGE,	1. REFER TO SECTION 15050 FOR WIRING AND ELECTRIC MOTOR 2. REFER TO SECTION 15400 AND 15700 FOR FURTHER DETAILS. 3. REFER TO SECTION 15100 FOR VIBRATION ISOLATION. 4. REFER TO DIV. 17 FOR CONTROL, AUTOMATIC SWITCH OVER ON PUMP FAILURE. 5. MECHANICAL CONTRACTORS SUPPLYING EQUIPMENT MUST COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ANY EQUIPMENT ORDERED OR ELECTRICAL WIRING INSTALLED. 6. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.
PA-02	CONDENSER WATER PUMP	MROOM P4	ARTSCAPE	20.7	214	1800	S.A.ARMSTRONG	4300 0306-015		11.2	575	3																	
PA-03	COOLING/HEATING WATER PUMP	MROOM P4	ARTSCAPE	16.5	242	1800	S.A.ARMSTRONG	4300 0310-010		7.5	575	3	6PARAM	-	YES	YES	-	YES	-	VFD	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT, INTEGRATED VFD WITH SENSORLESS CONTROL SOFTWARE. - ONE DUTY / ONE STANDBY PACKAGE UNIT - VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS.	
PA-04	COOLING/HEATING WATER PUMP	MROOM P4	ARTSCAPE	16.5	242	1800	S.A.ARMSTRONG	4300 0310-010		7.5	575	3								VFD									
PA-05	BOILER # 01 PUMP	MROOM P4	ARTSCAPE	8.8	74	1800	S.A.ARMSTRONG	4380 0306-002		1.5	575	3	6PARAM	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT	
PA-06	BOILER # 02 PUMP	MROOM P4	ARTSCAPE	8.8	74	1800	S.A.ARMSTRONG	4380 0306-002		1.5	575	3	6PARAM	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT	
PA-07	HIGH TEMP. SEC. PUMP	MROOM P4	ARTSCAPE	9.5	190	1800	S.A.ARMSTRONG	4380 0306-005		3.7	575	3	6PARAM	-	YES	YES	-	YES	-	VFD	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT, INTEGRATED VFD WITH SENSORLESS CONTROL SOFTWARE. - ONE DUTY / ONE STANDBY PACKAGE UNIT - VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS.	
PA-08	HIGH TEMP. SEC. PUMP	MROOM P4	ARTSCAPE	9.5	190	1800	S.A.ARMSTRONG	4380 0306-005		3.7	575	3								VFD									
PA-09	MAUA-01 HEATING PUMP	MROOM P4	ARTSCAPE	4.1	105	1800	S.A.ARMSTRONG	4380 0306-001.5		1.1	575	3	6RRAM	-	YES	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT, ONE DUTY / ONE STANDBY PACKAGE,	
PA-10	MAUA-01 HEATING PUMP	MROOM P4	ARTSCAPE	4.1	105	1800	S.A.ARMSTRONG	4380 0306-001.5		1.1	575	3																	
PA-11	BOILER # 03 PUMP	MROOM P4	ARTSCAPE	3.4	80	1800	S.A.ARMSTRONG	4380 0306-001		0.75	575	3	6PARAM	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT	
PA-12	BOILER # 04 PUMP	MROOM P4	ARTSCAPE	3.4	80	1800	S.A.ARMSTRONG	4380 0306-001		0.75	575	3	6PARAM	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT	
PA-13	DHW HEATING SEC. PUMP	MROOM P4	ARTSCAPE	6.6	170	1800	S.A.ARMSTRONG	4380 0306-003		2.2	575	3	6PARAM	-	YES	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT, - ONE DUTY / ONE STANDBY PACKAGE UNIT	
PA-14	DHW HEATING SEC. PUMP	MROOM P4	ARTSCAPE	6.6	170	1800	S.A.ARMSTRONG	4380 0306-003		2.2	575	3																	
PA-15	DOMESTIC BOOSTER PUMP	MROOM P1	ARTSCAPE	6.4	580	3525	GRUNDFOS	MPC E(CUE) 2CR15-55	-	7.5	575	3	SWBB-6PA	-	YES	YES	-	YES	-	VFD	-	YES	YES	-	-	DIV. 15	-	PACKAGE C/W CONTROL PANEL, VFD, PRV'S AND EXPANSION TANK PRESSURES REQUIRED AFTER PRV - MANUFACTURER TO COORDINATE WITH PLUMBING CONTRACTOR. - ONE DUTY / ONE STANDBY PACKAGE UNIT - VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS. NOTE:EACH PUMP WILL BE PROVIDED INDIVIDUAL ELECTRICAL, POWER FEEDS. MANUFACTURE TO ARRANGE THE CONTROLS TO SUITE.	
PA-16	DOMESTIC BOOSTER PUMP	MROOM P1	ARTSCAPE	6.4	580	3525	GRUNDFOS	MPC E(CUE) 2CR15-55	-	7.5	575	3	DP-6EP1MRA2	YES	-	YES	-	YES	-	VFD	-	YES	YES	-	-	DIV. 15	-		
PA-17	ELEVATOR SUMP PUMP	FD LEVEL	ARTSCAPE	6.3	240	1800	BARNES	4SE-7594L	-	5.6	575	3	DP-6EP1MRA1	YES	-	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV. 15	-	C/W SLIDE AWAY COUPLINGS, GALVANIZED LIFTING CHAINS, DUPLEX CONTROL PANEL, DISCONNECT SWITCH IN CEMA 1 ENCLOSURE, C/W HIGH WATER ALARM PANEL, EATON RELAY IN CEMA 1 ENCLOSURE AND MECHANICAL FLOAT SWITCHES.	
PA-18	ELEVATOR SUMP PUMP	FD LEVEL	ARTSCAPE	6.3	240	1800	BARNES	4SE-7594L		5.6	575	3																	
PA-19	DHW RECIR. PUMP	MROOM P4	ARTSCAPE	1.0	105	1800	S.A.ARMSTRONG	4360 1.5D-0.75	-	0.56	575	3	6PARAM	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	-	YES	-	C/W BRONZE & ISOLATION DISCONNECT	
PA-20	DHW RECIR. PUMP	MROOM P4	ARTSCAPE	1.0	105	1800	S.A.ARMSTRONG	4360 1.5D-0.75	-	0.56	575	3	6PARAM	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	-	YES	-	C/W BRONZE & ISOLATION DISCONNECT	

CHIMNEY EXHAUST FANS SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	AIR FLOW (L/S)	INLET PRESSURE (PA)	OPERATING WEIGHT (KG)	MANUFACTURER	MODEL	MOTOR SIZE (WW)	POWER SUPPLY VOLTS	POWER SUPPLY PHASE	POWER SUPPLY FED FROM	POWER SUPPLY EM.	POWER SUPPLY NORM.	STARTER SUPPLIED BY:	STARTER INSTALLED BY:	STARTER TYPE	CONTROLS MANUAL	CONTROLS AUTO.	CONTROLS INTERLOCK BY: DIV. 15	CONTROLS INTERLOCK BY: DIV. 16	OTHER REQUIREMENTS DISC. AT MOTOR	OTHER REQUIREMENTS W.P. DISC. AT MOTOR	OTHER REQUIREMENTS F.A. SHUT DOWN	OTHERS	REMARKS:	NOTES:
VENTA-01	BOILER VENT	ROOF	BOILER # 1 & 2	ARTSCAPE	450	160	-	EXHAUSTO	RSV315	0.35	120	1	2RRAAM	-	YES	DIV. 15	DIV. 15	-	-	YES	YES	-	-	YES	-	-	C/W VFD, MODULATING DRAFT CONTROL WITH XTP SENSOR, PROBE, MODULATING DAMPER, ACTUATOR, BALANCING BAFFLES & DURAVENT FASNSEAL VENTING	
VENTA-02	BOILER VENT	ROOF	BOILER # 3 & 4	ARTSCAPE	165	205	-	EXHAUSTO	RSV250	0.16	120	1	2RRAAM	-	YES	DIV. 15	DIV. 15	-	-	YES	YES	-	-	YES	-	-	C/W VFD, MODULATING DRAFT CONTROL WITH XTP SENSOR, PROBE, MODULATING DAMPER, ACTUATOR, BALANCING BAFFLES & DURAVENT FASNSEAL VENTING	

FAN COIL UNIT SCHEDULE - 2 PIPE (HORIZONTAL)

REFERENCE	DESCRIPTION	LOCATION	OWNERSHIP	SUPPLY AIR (L/S)	E.S.P. (PA)	COOLING TOTAL (KW)	COOLING SENS (KW)	COOLING E.A.T. (°C) DB	COOLING E.A.T. (°C) WB	COOLING WATER FLOW (L/S)	COOLING EWT (°C)	HEATING TOTAL (KW)	HEATING WATER FLOW (L/S)	HEATING EWT (°C)	DX COIL TOTAL (KW)	DX COIL SENS (KW)	MOTOR TYPE	MANUFACTURER	MODEL	UNIT (AMP)	POWER SUPPLY VOLTS	POWER SUPPLY PHASE	POWER SUPPLY FED FROM	POWER SUPPLY EM.	POWER SUPPLY NORM.	STARTER SUPPLIED BY:	STARTER INSTALLED BY:	TYPE	CONTROLS MANUAL	CONTROLS AUTO.	CONTROLS INTERLOCK BY: DIV. 15	CONTROLS INTERLOCK BY: DIV. 16	OTHER REQUIREMENTS: W.P. DISC. AT MOTOR	OTHER REQUIREMENTS: DISC. AT MOTOR	OTHER REQUIREMENTS: F.A. SHUT	OTHERS	REMARKS:	NOTES:
HFCA-01	MDI MAIN LOBBY	MDI MAIN LOBBY	ARTSCAPE	380	125	7.1	5.3	25.5	18.3	0.30	5.6	10.5	0.30	60.0	-	-	ECM	DAIKIN	HHBB1/08	1.5	575	3	6PWRAM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	-	YES	-		ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, COOLING COIL DRAIN PAN.	
HFCA-02	1314 PH AMENITY	1314 PH AMENITY	ARTSCAPE	840	75	17.3	11.0	25.8	19.8	0.64	5.6	25.5	0.64	60.0	11.3	-	ECM	IEC	HPY-20	2.2	575	3	6RRAM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	-	YES	-		C/W DX COIL. ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, COOLING COIL DRAIN PAN.	
HFCA-03	1314 PH AMENITY	1314 PH AMENITY	ARTSCAPE	840	75	17.3	11.0	25.8	19.8	0.64	5.6	25.5	0.64	60.0	11.3	-	ECM	IEC	HPY-20	2.2	575	3	6RRAM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	YES	-	-	-	YES	-		C/W DX COIL. ALL CONTROLS TO BE PREWIRED REMOTE T-STAT PROGRAMABLE, MERV 11 FILTER, COOLING COIL DRAIN PAN.	

FAN SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	EXHAUST AIR (L/S)	E.S.P. (KPA)	FAN (RPM)	WEIGHT (KG.)	P.W.L. db RE 10^12 WATTS OCTAVE BAND 1	2	3	4	5	6	7	8	MANUFACTURER	MODEL	ENERGY REQUIRED (HP)	MOTOR SIZE (KW)	POWER SUPPLY VOLTS	POWER SUPPLY PHASE	POWER SUPPLY FED FROM	POWER SUPPLY EM.	POWER SUPPLY NORM.	STARTER SUPPLIED BY:	STARTER INSTALLED BY:	TYPE	CONTROLS MANUAL	CONTROLS AUTO.	CONTROLS INTERLOCK BY: DIV. 15	CONTROLS INTERLOCK BY: DIV. 16	OTHER REQUIREMENTS: DISC. AT MOTOR	OTHER REQUIREMENTS: W.P. DISC. AT MOTOR	OTHER REQUIREMENTS: F.A. SHUT	OTHERS	REMARKS:	NOTES:
EFA-01	MECH ROOM EXHAUST	402 CHILLER ROOM P4	402 CHILLER ROOM P4	ARTSCAPE	590	0.07	695	-	-	-	-	-	-	-	-	-	GREENHECK	BDF-90-4	-	0.20	115	1	2PARAM	-	YES	DIV 15	DIV 15	MAN CW RELAY	-	YES	YES		YES	-	-		-	
EFA-02	MECH ROOM EXHAUST	402 CHILLER REFR P4	402 CHILLER REFR P4	ARTSCAPE	670	0.07	700	-	-	-	-	-	-	-	-	-	GREENHECK	BDF-90-5	-	0.30	115	1	2EP1MRAP1	YES	-	DIV 15	DIV 15	MAN CW RELAY	-	YES	YES		YES	-	-	-	-	
EFA-03	MECH ROOM EXHAUST	311 MECH ROOM P3	311 MECH ROOM P3	ARTSCAPE	280	0.07	180	-	-	-	-	-	-	-	-	-	GREENHECK	CSP-A710	-	0.40	115	1	2PARAM	-	YES	DIV 15	DIV 15	MAN CW RELAY	-	YES	YES		YES	-	-	-	-	
EFA-04	LOCKER ROOM EXHAUST	P200 LOCKER ROOM P2	P200 LOCKER ROOM P2	ARTSCAPE	690	0.05	705	-	-	-	-	-	-	-	-	-	GREENHECK	BDF-90-5	-	0.3	115	1	2P1MRAM	-	YES	DIV 15	DIV 15	MAN CW RELAY	-	YES	YES		YES	-	-	-	-	
EFA-05	LOCKER ROOM EXHAUST	P203 LOCKER ROOM P2	P203 LOCKER ROOM P2	ARTSCAPE	70	0.05	1600	-	-	-	-	-	-	-	-	-	GREENHECK	SQ-75-Q	-	0.12	115	1	2P1MRAM	-	YES	DIV 15	DIV 15	MAN CW RELAY	-	YES	YES		YES	-	-	-	-	
EFA-06	MECH ROOM EXHAUST	207 MECH ROOM P2	207 MECH ROOM P2	ARTSCAPE	205	0.06	1070	-	-	-	-	-	-	-	-	-	GREENHECK	CSP-A510	-	0.3	115	1	2P1MRAM	-	YES	DIV 15	DIV 15	MAN CW RELAY	-	YES	YES		YES	-	-	-	-	
EFA-07	LOCKER ROOM EXHAUST	P208 LOCKER ROOM P2	P208 LOCKER ROOM P2	ARTSCAPE	400	0.05	983	-	-	-	-	-	-	-	-	-	GREENHECK	BDF-90-4	-	0.3	115	1	2P1MRAM	-	YES	DIV 15	DIV 15	MAN CW RELAY	-	YES	YES		YES	-	-	-	-	
EFA-08	GARBAGE ROOM EXHAUST	1M10 GARBAGE RM L1 M	1M10 GARBAGE RM L1 M	ARTSCAPE	310	0.07	1100	-	-	-	-	-	-	-	-	-	GREENHECK	CSP-A700	-	0.3	115	1	2P1MRAM	-	YES	DIV 15	DIV 15	MAN CW RELAY	-	YES	YES		YES	-	-	-	-	
EFA-09	MECH ROOM EXHAUST	1309 MECH ROOM L13	1309 MECH ROOM L13	ARTSCAPE	400	0.05	983	-	-	-	-	-	-	-	-	-	GREENHECK	BDF-90-4	-	0.3	115	1	2RRAM	-	YES	DIV 15	DIV 15	MAN CW RELAY	-	YES	YES		YES	-	-	-	-	
EFA-10	ELEC. ROOM EXHAUST	1303 ELEC. ROOM L13	1303 ELEC. ROOM L13	ARTSCAPE	510	0.05	677	-	-	-	-	-	-	-	-	-	GREENHECK	BDF-90-4	-	0.20	115	1	2ERRAP	YES	-	DIV 15	DIV 15	MAN CW RELAY	-	YES	YES		YES	-	-	-	-	
EFA-11	GEN. ROOM EXHAUST	1304 GEN. ROOM L13	1304 GEN. ROOM L13	ARTSCAPE	370	0.05	980	-	-	-	-	-	-	-	-	-	GREENHECK	BDF-90-4	-	0.30	115	1	2ERRAP	YES	-	DIV 15	DIV 15	MAN CW RELAY	-	YES	YES		YES	-	-	-	-	
EFA-12	BOILER ROOM EXHAUST	P401 ROOM P4	P401 ROOM P4	ARTSCAPE	590	0.12	853	-	-	-	-	-	-	-	-	-	GREENHECK	BDF-90-3	-	0.30	115	1	-	-	-	YES	DIV 15	DIV 15	MAN CW RELAY	-	YES	YES		YES	-	-	-	c/w INTERLOCK WITH SUPPLY FAN SFC-04	
SFA-01	BOILER ROOM SUPPLY	P401 PARKING P4	P401 PARKING P4	ARTSCAPE	590	0.07	695	-	-	-	-	-	-	-	-	-	GREENHECK	BDF-90-4	-	0.20	115	1	2PARAM	-	-	YES	DIV 15	DIV 15	MAN CW RELAY-	-	YES	YES		YES	-	-	-	-	
EF-A	KITCHEN BOOSTER	TYPICAL	KITCHEN	ARTSCAPE	70	0.10	2500	-	-	-	-	-	-	-	-	-	REVERSOMATIC	RI-200	-	0.08	115	1	SUITE PANEL	-	-	DIV 15	DIV 15	FVNR	-	YES	YES		YES	-	-	-	BOOSTER RELAY - SEE SCHEMATIC IN ELECTRICAL SINGLE LINE DIAGRAM DRAWING	
EF-B	LAUNDRY EXHAUST	TYPICAL	LAUNDRY	ARTSCAPE	74	0.05	1250	-	-	-	-	-	-	-	-	-	REVERSOMATIC	TLD 200	-	0.07	115	1	SUITE PANEL	-	-	DIV 15	DIV 15	FVNR	-	YES	YES		YES	-	-	-	BOOSTER RELAY - SEE SCHEMATIC IN ELECTRICAL SINGLE LINE DIAGRAM DRAWING	
EF-C	WASHROOM EXHAUST	TYPICAL	WASHROOM	ARTSCAPE	56	0.06	1050	-	-	-	-	-	-	-	-	-	REVERSOMATIC	CF 170	-	0.07	115	1	SUITE PANEL	-	-	DIV 15	DIV 15	FVNR	-	YES	YES		YES	-	-	-	MANUAL SWITCH	

NOTES:

1. REFER TO SECTION 15050 REGARDING WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTIONS 15700 FOR FURTHER DETAILS.
3. REFER TO SECTION 15100 FOR VIBRATION ISOLATION.
4. REFER TO DIV. 17 FOR CONTROL, AUTOMATIC SWITCH OVER ON PUMP FAILURE.
5. ALL ROOF MOUNTED FANS C/W EXTEND BASES, C/W 1 HOUR FIRE RATED, MOTORIZED DAMPER AND BIRD SCREEN.
6. ALL IN-LINE CEILING FANS C/W INTAKE GRILLE, BACKDRAFT DAMPER, C/W 1 HOUR FIRE RATED DAMPER & UNIT MOUNTED SPEED CONTROLLER.
7. PROVIDE 6 WIRE LEADS FROM STARTER TO MOTOR.

Contractor Must Check And Verify All Dimensions On The Job.

Do Not Scale The Drawings.

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This Drawing Is Not To Be Used For Construction Until Signed By The Architect.

Date: 04-09-15

S. C. M. BELLAMY

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No.	Revision	Date
1	ADD M-001	2015/10/30

No.	Issued For	Date
	ISSUED FOR CONSTRUCTION	2016-07-07
4	ISSUED FOR CONSTRUCTION	2016-04-21
3	ISSUED FOR TENDER	2015-12-15
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	IAT REVIEW	2015-05-01

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title

ARTSCAPE - EQUIPMENT SCHEDULES #2

Project

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

Scale 1 : 1
Drawn by S.J.
Checked by Checker
Project No. 8489D
Date 04-09-15
Drawing No. ME-22

N

ENTRANCE AND UNIT HEATER SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	OWNERSHIP	HEATING CAPACITY OUTPUT (KW)	WATER FLOW (L/S)	WATER TEMP. (C)	AIR FLOW (L/S)	AIR ENT. TEMP (C)	MANUFACTURER	MODEL	TYPE	PRE. RATING (KPA)	MOTOR AMPS	POWER SUPPLY					STARTER					CONTROLS				OTHER REQUIREMENTS			REMARKS:
														VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:		INSTALLED BY:		TYPE	MANUAL	AUTO.	INTERLOCK BY:		W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT.	
																			DIV. 15	DIV. 16	DIV. 15	DIV.16				DIV. 15	DIV.16				
EHA-01	FORCE-FLO CABINET HEATER	P205 ELEVATOR LOBBY	ARTSCAPE	4	0.07	82.2	90	18.3	TRANE	FFEB030TJ	CEILING HUNG	-	3	115	1	2P/1#RAM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	C/W INTEGRAL T-STAT AND DISCONNECT SWITCH
EHA-02	FORCE-FLO CABINET HEATER	1M01 ELEVATOR LOBBY	ARTSCAPE	4	0.07	82.2	90	18.3	TRANE	FFEB030TJ	CEILING HUNG	-	3	115	1	2P/1#RAM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	C/W INTEGRAL T-STAT AND DISCONNECT SWITCH
EHA-03	FORCE-FLO CABINET HEATER	121 VESTIBULE	ARTSCAPE	6	0.11	82.2	110	18.3	TRANE	FFEB030TJ	CEILING HUNG	-	3	115	1	2P/1#RAM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	C/W INTEGRAL T-STAT AND DISCONNECT SWITCH
EHA-04	FORCE-FLO CABINET HEATER	1M12 MOVING ROOM	ARTSCAPE	6	0.11	82.2	110	18.3	TRANE	FFEB030TJ	CEILING HUNG	-	3	115	1	2P/1#RAM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	C/W INTEGRAL T-STAT AND DISCONNECT SWITCH
UHA-01	HOT WATER UNIT HEATER	P401 BOILER ROOM P4	ARTSCAPE	8	0.17	82.2	400	18.3	TRANE	UHSBA361T	CABINET	-	2	115	1	2P/#RAM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	C/W REMOTE T-STAT AND DISCONNECT SWITCH
UHA-02	HOT WATER UNIT HEATER	P401 BOILER ROOM P4	ARTSCAPE	8	0.17	82.2	400	18.3	TRANE	UHSBA361T	CABINET	-	2	115	1	2P/#RAM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	C/W REMOTE T-STAT AND DISCONNECT SWITCH
UHA-03	HOT WATER UNIT HEATER	P402 CHILLER ROOM P4	ARTSCAPE	10	0.22	82.2	400	18.3	TRANE	UHSBA461T	CABINET	-	2	115	1	2P/#RAM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	C/W REMOTE T-STAT AND DISCONNECT SWITCH
UHA-04	HOT WATER UNIT HEATER	P402 CHILLER ROOM P4	ARTSCAPE	10	0.22	82.2	400	18.3	TRANE	UHSBA461T	CABINET	-	2	115	1	2P/#RAM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	C/W REMOTE T-STAT AND DISCONNECT SWITCH
UHA-05	HOT WATER UNIT HEATER	311 MECH ROOM P3	ARTSCAPE	8	0.17	82.2	240	18.3	TRANE	UHSBA361T	CABINET	-	2	115	1	2P/#RAM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	C/W REMOTE T-STAT AND DISCONNECT SWITCH
UHA-06	HOT WATER UNIT HEATER	207 MECH ROOM P2	ARTSCAPE	10	0.22	82.2	400	18.3	TRANE	UHSBA461T	CABINET	-	2	115	1	2P/1#RAM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	C/W REMOTE T-STAT AND DISCONNECT SWITCH
UHA-07	HOT WATER UNIT HEATER	1M10 GARBAGE RM L1 M	ARTSCAPE	10	0.22	82.2	400	18.3	TRANE	UHSBA461T	CABINET	-	2	115	1	2P/1#RAM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	C/W REMOTE T-STAT AND DISCONNECT SWITCH
UHA-08	HOT WATER UNIT HEATER	1309 MECH ROOM L13	ARTSCAPE	8	0.17	82.2	400	18.3	TRANE	UHSBA361T	CABINET	-	2	115	1	2P/RAM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	C/W REMOTE T-STAT AND DISCONNECT SWITCH
UHA-09	HOT WATER UNIT HEATER	1309 MECH ROOM L13	ARTSCAPE	8	0.17	82.2	400	18.3	TRANE	UHSBA361T	CABINET	-	2	115	1	2P/RAM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	C/W REMOTE T-STAT AND DISCONNECT SWITCH
UHA-10	HOT WATER UNIT HEATER	1304 GEN. ROOM L13	ARTSCAPE	10	0.22	82.2	400	18.3	TRANE	UHSBA461T	CABINET	-	2	115	1	2P/RAM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	C/W REMOTE T-STAT AND DISCONNECT SWITCH

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. ENT WATER TEMPERATURE 82.2°C WATER TEMPERATURE DROP 11°C. ENTERING AIR TEMPERATURE 18.3°C.
5. ALL UNITS C/W INTEGRAL DISCONNECT SWITCH, THERMOSTAT AND 1" THROWAWAY FILTER.
6. WIRING OF THERMOSTATS BY DIVISION 15. REFER TO SECTION 15700 FOR FUTUR DETAILS.

UNITARY DX UNITS SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	OWNERSHIP	SUPPLY AIR (L/S)	COOLING CAP. (KW)		EVAP. ENT. COND. (°C)		HEATING CAP. (KW)	MANUFACTURER	MODEL	FLA AMPS	MAX FUSE SIZE	POWER SUPPLY					STARTER					CONTROLS				OTHER REQUIREMENTS			REMARKS:
					TOTAL	SENS.	DB	WB						VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:		INSTALLED BY:		TYPE	MANUAL	AUTO.	INTERLOCK BY:		W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT.	
																			DIV. 15	DIV. 16	DIV. 15	DIV.16				DIV. 15	DIV.16				
ACA-01	DX FAN COIL UNIT	P1M02 ELEC. RM	ARTSCAPE	1130	22	-	26.7	19.4	-	DAIKIN	LAH005A	2.1	15	575	3	6P1M1RAM	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	
ACA-02	DX FAN COIL UNIT	P1M02 ELEC. RM	ARTSCAPE	1130	22	-	26.7	19.4	-	DAIKIN	LAH005A	2.1	15	575	3	6P1M1RAM	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	
ACA-03	DX FAN COIL UNIT	1310 ELEV. MRM	ARTSCAPE	1130	16.7	-	26.6	19.4	-	IEC INTERNATIONAL	HBD30	2.0	15	575	3	6P1M1RAM	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	
ACA-04	DX FAN COIL UNIT	1M09 GARBAGE	ARTSCAPE	400	11.5	-	26.7	19.4	-	DAIKIN	FHQ42MVJU	1.4	15	208	1	-	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	

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.

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					STARTER					CONTROLS				OTHER REQUIREMENTS			REMARKS:
											VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:		INSTALLED BY:		TYPE	MANUAL	AUTO.	INTERLOCK BY:		W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT.	
																DIV. 15	DIV. 16	DIV. 15	DIV.16				DIV. 15	DIV.16				
ACUA-01	ACA-01 SPLIT AIR-COOLED CONDENSER	P1 PARKING LEVEL	ARTSCAPE	22	R-410A	35	REPLUS	OCZ-060-1H-8	13	20	575	3	6P1M1R/AM	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	AIR-COOLED CONDENSER CONNECTED TO ACA-01
ACUA-02	ACA-02 SPLIT AIR-COOLED CONDENSER	P1 PARKING LEVEL	ARTSCAPE	22	R-410A	35	REPLUS	OCZ-060-1H-8	13	20	575	3	6P1M1R/AM	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	AIR-COOLED CONDENSER CONNECTED TO ACA-02
ACUA-03	ACA-03 SPLIT AIR-COOLED CONDENSER	PH LEVEL	ARTSCAPE	16.7	R-410A	35	REPLUS	OCZ-050-1H-5	13	20	575	3	6P1M1R/AM	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	AIR-COOLED CONDENSER CONNECTED TO ACA-03
ACUA-04	ACA-04 SPLIT AIR-COOLED CONDENSER	PARKING LEVEL	ARTSCAPE	11.5	R-410A	35	DAIKIN	RZQ42PVJU9	27	30	208	1	-	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	AIR-COOLED CONDENSER CONNECTED TO ACA-04
ACUA-05	HFCA-02 SPLIT AIR-COOLED CONDENSER	PH AMENITY	ARTSCAPE	11.3	R-410A	35	AAON	CB-B-048-4	8	15	575	3	-	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	AIR-COOLED CONDENSER CONNECTED TO HFCA-02
ACUA-06	HFCA-03 SPLIT AIR-COOLED CONDENSER	PH AMENITY	ARTSCAPE	11.3	R-410A	35	AAON	CB-B-048-4	8	15	575	3	-	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	AIR-COOLED CONDENSER CONNECTED TO HFCA-03

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	DHWTA # 1					REMARKS
MANUFACTURER	CLEMMER					CEMENT LINED TANK / INSULATED DOUBLE WALL COIL RATED TO 175-200 PSI / TANK FLANGE SIZE TO MATCH TUBE BUNDLE SIZE
STORAGE CAPACITY (LIT)	4057					
OPERATING PRESSURE MAX. (KPA) TANK SHELL	1034					
COIL MODEL (KPA) COPPER TUBE	DW12-48					**DOUBLE WALL COIL TUBES RATED AT 175-200 PSI WORKING PRESSURE. HEATING WATER IS DOMESTIC WATER, SUPPLIER TO CONFIRM COIL MODELS WITH LPH PRIOR TO ORDERING.
CAPACITY (LPH) / TEMP. RISE	4070 / 56 C					
COIL INPUT (KW) BOILER SIDE (82.2C-71.1C)	262					
COIL L/S BOILER SIDE	5.7					
SIZE (DIA X LENGTH)	1370 x 3050					
OWNERSHIP	ARTSCAPE					

EXPANSION TANK SCHEDULE

REF.	SYSTEM	OWNERSHIP	TANK CAPACITY (LIT)	MAX ACCEPT (LIT)	MODEL	MANUFACTURER	REMARKS
ETA-1	HEATING / COOLING SYSTEM	ARTSCAPE	2495	-	2500-L	AMTROL	
ETA-2	MAUA-1 HEATING SYSTEM	ARTSCAPE	82	42	AX-40	AMTROL	
ETA-3	DHW BOILER SYSTEM	ARTSCAPE	168	85	AX-80	AMTROL	
ETA-4	DHWTA-01 SYSTEM	ARTSCAPE	250	-	ST-120V	AMTROL	

Contractor Must Check And Verify All Dimensions On The Job.
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10/08/15
Date

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No.	Revision	Date
1	ADD M-001	2015/10/30

No.	Issued For	Date
4		
3		
2	ISSUED FOR CONSTRUCTION (ELECTRICAL)	2016-04-21
1	ISSUED FOR TENDER	2015-10-15

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
ARTSCAPE - EQUIPMENT SCHEDULES #3

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

Scale 1 : 1
Drawn by S.J.
Checked by Checker
Project No. 8489D
Date 10/08/15
Drawing No. ME-23

Plot Date : 27/10/2016 2:34:11 PM File Path : C:\Users\pwm_h\Documents\8489D - Aquavista - MEP_Block 3.rvt

WATER CHILLER SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	CAPACITY (KW)	COOLER / EVAPORATOR				SAT. DISCHARGE TEMP. (°C)	CONDENSER				SAT. DISCHARGE TEMP. (°C)	INPUT POWER (kW)	IPVL	REFRIGERANT	NO. OF COMPRESSOR	STEPS OF UNLOADING	MANUFACTURER	OPERATING WEIGHT (KG)	MODEL No.	MIN. CIRCUIT AMPS	MAX. FUSE SIZE	POWER SUPPLY				STARTER			CONTROLS			OTHER REQUIREMENTS			OTHERS	REMARKS:
						FLOW (L/S)	EWT (°C)	LWT (°C)	PRE. DROP (KPA)		FLOW (L/S)	EWT (°C)	LWT (°C)	PRE. DROP (KPA)												VOLTS	PHASE	FED FROM	EM.	NORM	SUPPLIED BY:	INSTALLED BY:	TYPE	MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV. 16	DISC. AT MOTOR	W.P. DISC. AT MOTOR	F.A. SHUT DOWN		
CHR-01	SCROLL CHILLER	C/ROOM P1	4 PIPE FCU SYSTEM	RETAIL	430	18.5	11.1	5.6	36	-	25.2	29.4	35.0	45	35.7	96.7	20.2	R-410A	-	-	MCQUAY- DAIKIN	2155	WGZ130D	210	250	575	3	5WBD-8CR	-	YES	DIV. 15	DIV. 15	-	-	YES	YES	-	DIV. 15	-	-	-

NOTES:
1. REFER TO SECTION 15059 FOR WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION AND SPECIFICATION 15700 FOR FURTHER DETAILS.
3. FOULING FACTOR FOR COOLERS AND CONDENSERS: (0.0001) (0.00025).
4. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.
5. MECHANICAL CONTRACTORS SUPPLYING EQUIPMENT MUST COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ANY EQUIPMENT ORDERED OR ELECTRICAL WIRING INSTALLED.

COOLING TOWER SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	CAPACITY (KW)	SUMMER			OUTDOOR TEMP. WB. (°C)	WINTER			TUBES PRESS. DROP (KPA)	MODEL	OPERATING WEIGHT (KG)	MANUFACTURER	PAN HEATER (KW)	FAN MOTOR (KW)	MIN. CIRCUIT AMPS	MAX. FUSE SIZE	POWER SUPPLY				STARTER			CONTROLS				OTHER REQUIREMENTS			OTHERS	REMARKS:
						FLOW (L/S)	EWT (°C)	LWT (°C)		FLOW (L/S)	EWT (°C)	LWT (°C)									VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:	INSTALLED BY:	TYPE	MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV. 16	DISC. AT MOTOR	W.P. DISC. AT MOTOR	F.A. SHUT DOWN		
CTR-01	INDUCED DRAFT	ROOF	CHILLER # 03	RETAIL	430	23.2	35.0	29.4	24.4	-	-	-	-	PT2-0412A-1H1	-	BALTIMORE AIRCOIL	6	2 x 3.7	-	-	575	3	6FROM	-	YES	DIV. 15	DIV. 15	VFD	-	YES	YES	-	-	DIV. 15	-	-	VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS, BASIN HEATER, LOW SOUND FAN. PROVIDE ALL INTERIOR WIRING AND CONTROL BY DIV 15 - CONTRACTOR. PROVIDE SINGLE POWER POINT.

NOTES:
1. REFER TO SECTION 15059 FOR WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION AND SPECIFICATION 15700 FOR FURTHER DETAILS.
3. FOULING FACTOR FOR COOLERS AND CONDENSERS: (0.0001) (0.00025).
4. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.
5. MECHANICAL CONTRACTORS SUPPLYING EQUIPMENT MUST COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ANY EQUIPMENT ORDERED OR ELECTRICAL WIRING INSTALLED.
6. SINGLE ELECTRICAL FEED TO THE EQUIPMENT

BOILER SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	INPUT (KW)	OUTPUT (KW)	GAS TRAIN INLET PRESSURE (KPA)	OPERATING PRESSURE MAX. (KPA)	OPERATING TEMP. MAX. (°C)	MANUFACTURER	MODEL	AMPERE	POWER SUPPLY				STARTER			CONTROLS				OTHER REQUIREMENTS			OTHERS	REMARKS:
													VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:	INSTALLED BY:	TYPE	MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV. 16	DISC. AT MOTOR	W.P. DISC. AT MOTOR	F.A. SHUT DOWN		
HBR-01	HIGH/LOW HEATING BOILER	M/ROOM L1 M	4-PIPE RETAIL	RETAIL	732	674	MIN. 1 / MAX. 3.2	1137	93.3	LOCHINVAR	FBN 2500	11	120	1	2P/1MCRM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	DIV. 15	DIV. 16	DIV. 16	-	-	-	PROVIDE SHUT OFF SWITCH AT ROOM ENTRY (DIV. 16)
HBR-02	HIGH/LOW HEATING BOILER	M/ROOM L1 M	4-PIPE RETAIL	RETAIL	732	674	MIN. 1 / MAX. 3.2	1137	93.3	LOCHINVAR	FBN 2500	11	120	1	2P/1MCRM	-	YES	DIV. 15	DIV. 15	PKG.	-	YES	DIV. 15	DIV. 16	DIV. 16	-	-	-	PROVIDE SHUT OFF SWITCH AT ROOM ENTRY (DIV. 16)

NOTES:
1. REFER TO SECTION 15059 FOR WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION AND SPECIFICATION 15700 FOR FURTHER DETAILS.
3. FOULING FACTOR FOR COOLERS AND CONDENSERS: (0.0001) (0.00025).
4. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.
5. MECHANICAL CONTRACTORS SUPPLYING EQUIPMENT MUST COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ANY EQUIPMENT ORDERED OR ELECTRICAL WIRING INSTALLED.
6. PROVIDE MODULATING CONTRALSED CONTROLLER WITH INDOOR/OUTDOOR RESET FOR BOILERS.
7. PROVIDE FLOW SWITCH, LOW WATER CUT OFF, PRESSURE REDUCING VALVES, AUX. CONTACTS FOR BAS.

MAKE UP AIR UNIT SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	SUPPLY AIR (L/S)	EXHAUST AIR (L/S)	COOLING			HEATING			P.W.L. db RE 10^12 WATTS OCTAVE BAND								E.S.P. (KPA) SA/EA	MANUFACTURER	MODEL	HEAT WHEEL MOTOR (KW)	EXHAUST FAN MOTOR (KW)	SUPPLY FAN MOTOR (KW)	F. LOAD AMPS	MAX. FUSE AMPS	POWER SUPPLY				STARTER		TYPE	CONTOLS				OTHER REQUIREMENTS:			OTHERS	REMARKS:
							TOTAL (KW)	SENS (KW)	WATER FLOW (L/S)	TOTAL (KW)	SENS (KW)	WATER FLOW (L/S)	1	2	3	4	5	6	7	8									VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:	INSTALLED BY:		MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV. 16	W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT		
MAUR-01	RETAIL MUA	LEVEL L1 M2	RETAIL	RETAIL	4248	-	59.8	39.6	2.6	262	-	6.1									0.37/0.25	MCQUAY DAIKIN	CAH0160DAM	0.2	5.0	15.0	19	-	575	3	6YMCRM 2YMCRM	-	YES	DIV. 15	DIV. 15	VFD	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT, FIRE STAT, DUCT STAT & HEAT WHEEL, DUCT MOUNTED SMOKE DETECTOR, VFD, FILTER GAUGES, PRESSURE DIFFERENTIAL & Q REPORT. VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS. COIL BYPASS, INLET MOTORIZED DAMPER,MAGNEHELIC FILTER GAUGES, PRESSURE DIFFERENTIAL SWITCHES TO ALARM WHEN PRESSURE DROP EXCEEDS AS RECOMMENDED BY THE FILTER MANUFACTURER. POWER SUPPLY - 575V/3P/60H - 2 NOS. AND 120V/1P/60H - 1 NO.

NOTES:
1. REFER TO SECTION 15059 FOR WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION AND SPECIFICATION 15700 FOR FURTHER DETAILS.
3. REFER TO SECTION 15100 FOR VIBRATION ISOLATION.
4. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.
5. MECH. CONTRACTORS SUPPLYING EQUIPMENT MUST COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ANY EQUIPMENT ORDERED OR ELECTRICAL WIRING INSTALLED.
6. ANY INCREASE IN ELECT. COSTS DUE TO MECH. EQUIPMENT SUBSTITUTION TO BE CARRIED BY DIVISION 15.

COOLING / HEATING COIL SCHEDULE

REFERENCE	DESCRIPTION	SERVICE	OWNERSHIP	TOTAL AIR FLOW (L/S)	COIL AIR FLOW (L/S)	COOLING CAPACITY (KW)		HEATING CAPACITY (KW)	COOLING						HEATING						FLUID	MANUFACTURER	REMARKS:
						TOTAL	SENSIBLE		EAT (°C)	LAT (°C)	FLOW (L/S)	EWT (°C)	LWT (°C)	PRE. DROP. (KPA)	EAT (°C)	LAT (°C)	FLOW (L/S)	EWT (°C)	LWT (°C)	PRE. DROP. (KPA)			
CC-01	COOLING COIL	MAUR-01 COOLING	RETAIL	4248	2360	59.8	39.6	-	26.7/19.4	12.5/11.3	2.6	5.6	11.2	56	-	-	-	-	-	-	WATER	MCQUAY DAIKIN	
HC-01	HEATING COIL	MAUR-01 HEATING	RETAIL	4248	4248	-	-	262	-	-	-	-	-	-	-20.0	27.2	6.2	71.1	60.0	40	40% P.GLY.	MCQUAY DAIKIN	

NOTES:

HEAT EXCHANGER SCHEDULE

REFERENCE	LOCATION	SERVICE	OWNERSHIP	PRIMARY						SECONDARY						FUNCTION	MANUFACTURER	TYPE	MODEL NUMBER	REMARKS:
				FLUID	FLOW US (L/S)	P.D. (KPA)	EWT (°C)	LWT (°C)	PRE. RATING (KPA)	FLUID	FLOW US (L/S)	P.D. (KPA)	EWT (°C)	LWT (°C)	PRE. RATING (KPA)					
HER-01	MAU ROOM P3	MUA-05 HEATING	RETAIL	WATER	6.2	-	82.2	71.1	1024	40% P.GLY.	6.2	-	60.0	71.1	1024	HEATING	BELL & GOSSETT	PLATE AND FRAME	-	

NOTES:

PUMP SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	OWNERSHIP	WATER FLOW (L/S)	HEAD (KPA)	RPM	MANUFACTURER	TYPE / SIZE	ENERGY REQUIRED (HP)	MOTOR SIZE (KW)	POWER SUPPLY					STARTER						CONTROLS				OTHER REQUIREMENTS			REMARKS:
											VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY: DIV. 15	SUPPLIED BY: DIV. 16	INSTALLED BY: DIV. 15	INSTALLED BY: DIV.16	TYPE	MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV.16	W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT.	
PR-01	CONDENSER WATER PUMP	M/ROOM L1	RETAIL	23.2	235	1800	ARMSTRONG	4300 0406-015.0		11.2	575	3	6YMCRM	-	YES	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT, ONE DUTY / ONE STANDBY,
PR-02	CONDENSER WATER PUMP	M/ROOM L1	RETAIL	23.2	235	1800	ARMSTRONG	4300 0406-015.0		11.2	575	3																	
PR-03	CHILLED WATER PUMP	M/ROOM L1	RETAIL	18.5	250	1800	ARMSTRONG	4300 0310-010.0		7.5	575	3	6YMCRM	-	YES	YES	-	YES	-	VFD	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT, INTEGRATED VFD WITH SENSORLESS CONTROL SOFTWARE. - ONE DUTY / ONE STANDBY PACKAGE UNIT. - VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS.
PR-04	CHILLED WATER PUMP	M/ROOM L1	RETAIL	18.5	250	1800	ARMSTRONG	4300 0310-010.0		7.5	575	3								VFD									
PR-05	BOILER # 1 PUMP	M/ROOM L1	RETAIL	10.9	85	1800	ARMSTRONG	4380 0308-003.0		2.2	575	3	6YMCRM	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT
PR-06	BOILER # 2 PUMP	M/ROOM L1	RETAIL	10.9	85	1800	ARMSTRONG	4380 0308-003.0		2.2	575	3	6YMCRM	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT
PR-07	HIGH TEMP. SEC. PUMP	M/ROOM L1	RETAIL	18.3	230	1800	ARMSTRONG	4300 0308-007.5		5.6	575	3	6YMCRM	-	YES	YES	-	YES	-	VFD	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT, INTEGRATED VFD WITH SENSORLESS CONTROL SOFTWARE. - ONE DUTY / ONE STANDBY PACKAGE UNIT. - VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS.
PR-08	HIGH TEMP. SEC. PUMP	M/ROOM L1	RETAIL	18.3	230	1800	ARMSTRONG	4300 0308-007.5		5.6	575	3								VFD									
PR-09	LOW TEMP. SEC. PUMP	M/ROOM L1	RETAIL	4.7	190	1800	ARMSTRONG	4380 1506-003.0		2.2	575	3	6YMCRM	-	YES	YES	-	YES	-	VFD	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT, INTEGRATED VFD WITH SENSORLESS CONTROL SOFTWARE. - ONE DUTY / ONE STANDBY PACKAGE UNIT. - VFD MUST BE COMPATIBLE WITH SIEMENS FLN BAS.
PR-10	LOW TEMP. SEC. PUMP	M/ROOM L1	RETAIL	4.7	190	1800	ARMSTRONG	4380 1506-003.0		2.2	575	3								VFD									
PR-11	MAUR-01 HEATING PUMP	M/ROOM L1 M2	RETAIL	6.2	130	1800	ARMSTRONG	4380 0208-003.0		2.2	575	3	6YMCRM	-	YES	YES	-	YES	-	PKG	-	YES	YES	-	-	DIV. 15	-	C/W ISOLATION DISCONNECT, ONE DUTY / ONE STANDBY PACKAGE UNIT,
PR-12	MAUR-01 HEATING PUMP	M/ROOM L1 M2	RETAIL	6.2	130	1800	ARMSTRONG	4380 0208-003.0		2.2	575	3																	
PR-13	NOT USED																												
PR-14	NOT USED																												
PR-15	DHW RECIR. PUMP	M/ROOM	CONDO	1.0	90	1800	S.A ARMSTRONG	4360 1.5D-0.75	-	0.56	575	3	6YMCRM	-	YES	YES	-	YES	-	CM FVNR	-	YES	YES	-	-	YES	-	C/W BRONZE & ISOLATION DISCONNECT

NOTES:
1. REFER TO SECTION 15059 FOR WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION 15400 AND 15700 FOR FURTHER DETAILS.
3. REFER TO SECTION 15100 FOR VIBRATION ISOLATION.
4. ALL PUMPS WITH 120% STANDBY UNIT TO BE WITH ISOLATION VALVES AND CHECK VALVE.
5. MECHANICAL CONTRACTORS SUPPLYING EQUIPMENT MUST COORDINATE LOCATIONS AND POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ANY EQUIPMENT ORDERED OR ELECTRICAL WIRING INSTALLED.
6. REFER TO DETAIL SHEET FOR ADDITIONAL INFORMATION.

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Date: 04/08/15

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No.	Revision	Date
1	ADD ME-001	2015/10/26
3	ISSUED FOR SI-E002	2015/06/15
4	ISSUED FOR CONSTRUCTION	2016-07-01
3	ISSUED FOR CONSTRUCTION (ELECTRICAL)	2016-04-01
2	BUILDING PERMIT SUBMISSION	2015-06-12
1	INT REVIEW	2015-05-01

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
RETAIL - EQUIPMENT SCHEDULES #1

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

Scale 1 : 1
Drawn by S.J.
Checked by Checker
Project No. 8489D
Date 04/08/15
Drawing No. ME-31

N

FAN SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	EXHAUST AIR (L/S)	E.S.P. (KPA)	FAN (RPM)	WEIGHT (KG.)	P.W.L. db RE 10^12 WATTS OCTAVE BAND 1	2	3	4	5	6	7	8	MANUFACTURER	MODEL	ENERGY REQUIRED (HP)	MOTOR SIZE (KW)	POWER SUPPLY VOLTS	PHASE	FED FROM	EM.	NORM.	STARTER SUPPLIED BY:	INSTALLED BY:	TYPE	CONTROLS MANUAL	AUTO.	INTERLOCK BY: DIV. 15	DIV. 16	OTHER REQUIREMENTS: DISC. AT MOTOR	W.P. DISC. AT MOTOR	F.A. SHUT	OTHERS	REMARKS:
EFR-01	RETAIL BIC. STG. EXHAUST	P1B BIC. STG. P1	P1B BIC. STG. P1	RETAIL	85	0.05	1550	-	-	-	-	-	-	-	-	-	GREENHECK	SQ-70-D	-	0.12	115	1	21MCRM	-	YES	DIV 15	DIV 15	-	-	-	YES	YES		YES	-	-	-	-
EFR-02	CHILLER ROOM EXHAUST	P1M03 CHILLER ROOM P1	P1M03 CHILLER ROOM P1	RETAIL	260	0.07	1100	-	-	-	-	-	-	-	-	-	GREENHECK	CSP-A700	-	0.3	115	1	21MCRM	-	YES	DIV 15	DIV 15	-	-	-	YES	YES		YES	-	-	-	-
EFR-03	CHILLER REFR EXHAUST	P1M03 CHILLER ROOM P1	P1M03 CHILLER ROOM P1	RETAIL	670	0.07	700	-	-	-	-	-	-	-	-	-	GREENHECK	BDF-90-5	-	0.30	115	1	2E1MCRP2	YES	-	DIV 15	DIV 15	-	-	-	YES	YES		YES	-	-	-	
EFR-04	GARBAGE EXHAUST	12B GARBAGE ROOM L1	12B GARBAGE ROOM L1	RETAIL	240	0.07	1050	-	-	-	-	-	-	-	-	-	GREENHECK	CSP-A700	-	0.3	115	1	21MCRM	-	YES	DIV 15	DIV 15	-	-	-	YES	YES		YES	-	-	-	
EFR-05	LOADING BAY EXHAUST	13D LOADING BAY L1	13D LOADING BAY L1	RETAIL	2120	0.07	393	-	-	-	-	-	-	-	-	-	GREENHECK	BDF-180-10	-	0.75	575	3	61MCRM	-	YES	DIV 15	DIV 15	-	-	-	YES	YES		YES	-	-	-	
EFR-06	MUA ROOM EXHAUST	1M19 MUA ROOM L1 M	1M19 MUA ROOM L1 M	RETAIL	605	0.06	695	-	-	-	-	-	-	-	-	-	GREENHECK	BDF-90-4	-	0.20	115	1	21MCRM	-	YES	DIV 15	DIV 15	-	-	-	YES	YES		YES	-	-	-	
EFR-07	WASHROOM EXHAUST	WASHROOM P1 M	WASHROOM P1 M	RETAIL	70	0.10	970	-	-	-	-	-	-	-	-	-	GREENHECK	CSP-A190	-	0.10	115	1	21MCRM	-	YES	DIV 15	DIV 15	-	-	-	YES	YES		YES	-	-	-	
SFR-01	BOILER ROOM SUPPLY	1M21 BOILER ROOM L1 M	1M21 BOILER ROOM L1 M	RETAIL	330	0.07	1100	-	-	-	-	-	-	-	-	-	GREENHECK	CSP-A700	-	0.3	115	1	21MCRM	-	YES	DIV 15	DIV 15	-	-	-	YES	YES		YES	-	-	-	-
SFR-02	NOT USED																																				

NOTES:
1. REFER TO SECTION 15000 REGARDING WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION 15700 FOR FURTHER DETAIL.
3. REFER TO SECTION 15100 FOR VIBRATION ISOLATION.
4. REFER TO DIV. 17 FOR CONTROL.
5. ALL ROOF MOUNTED FANS C/W EXTEND ROOF CURB OF SUITABLE HEIGHT TO ACCOMMODATE BIRD SCREEN.
6. ALL IN-LINE CEILING FANS C/W INTAKE GRILLE UNLESS OTHERWISE SPECIFIED. BACKDRAFT DAMPER & UNIT MOUNTED SPEED CONTROLLER.
7. PROVIDE 6 WIRE LEADS FROM STARTER TO MOTOR.

ENTRANCE AND UNIT HEATER SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	OWNERSHIP	HEATING CAPACITY OUTPUT (KW)	WATER FLOW (L/S)	WATER TEMP. (C)	AIR FLOW (L/S)	AIR ENT. TEMP. (C)	MANUFACTURER	MODEL	TYPE	PRE RATING (KPA)	MOTOR AMPS	POWER SUPPLY VOLTS	PHASE	FED FROM	EM.	NORM.	STARTER SUPPLIED BY: DIV. 15	DIV. 16	INSTALLED BY: DIV. 15	DIV.16	TYPE	CONTROLS MANUAL	AUTO.	INTERLOCK BY: DIV. 15	DIV.16	OTHER REQUIREMENTS W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT.	REMARKS:
EHR-01	NOT USED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UHR-01	HOT WATER UNIT HEATER	P1M03 CHILLER ROOM P1	RETAIL	10	0.22	82.2	400	18.3	TRANE	UHSBA481T	CABINET	-	2	115	1	21MCRM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	C/W REMOTE T-STAT AND DISCONNECT SWITCH
UHR-02	HOT WATER UNIT HEATER	12B GARBAGE ROOM L1	RETAIL	8	0.17	82.2	400	18.3	TRANE	UHSBA481T	CABINET	-	2	115	1	21MCRM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	C/W REMOTE T-STAT AND DISCONNECT SWITCH
UHR-03	HOT WATER UNIT HEATER	13D LOADING BAY L1	RETAIL	12	0.30	82.2	400	18.3	TRANE	UHSBA481T	CABINET	-	2	115	1	21MCRM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	C/W REMOTE T-STAT AND DISCONNECT SWITCH
UHR-04	HOT WATER UNIT HEATER	13D LOADING BAY L1	RETAIL	12	0.30	82.2	400	18.3	TRANE	UHSBA481T	CABINET	-	2	115	1	21MCRM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	C/W REMOTE T-STAT AND DISCONNECT SWITCH
UHR-05	HOT WATER UNIT HEATER	1M19 MUA ROOM L1 M	RETAIL	10	0.22	82.2	400	18.3	TRANE	UHSBA481T	CABINET	-	2	115	1	21MCRM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	C/W REMOTE T-STAT AND DISCONNECT SWITCH
UHR-06	HOT WATER UNIT HEATER	1M19 MUA ROOM L1 M	RETAIL	10	0.22	82.2	400	18.3	TRANE	UHSBA481T	CABINET	-	2	115	1	21MCRM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	C/W REMOTE T-STAT AND DISCONNECT SWITCH
UHR-07	HOT WATER UNIT HEATER	1M21 BOILER ROOM L1 M	RETAIL	8	0.17	82.2	400	18.3	TRANE	UHSBA361T	CABINET	-	2	115	1	21MCRM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	C/W REMOTE T-STAT AND DISCONNECT SWITCH

NOTES:
1. REFER TO SECTION 15000 REGARDING WIRING AND ELECTRIC MOTORS.
2. REFER TO SECTION 15700 FOR FURTHER DETAILS.
3. REFER TO SECTION 15100 FOR VIBRATION ISOLATION.
4. ENT WATER TEMPERATURE 82.2°C WATER TEMPERATURE DROP 11°C AND MAXIMUM PRESSURE DROP 7 kPa.
5. ALL UNITS C/W INTEGRAL DISCONNECT SWITCH, THERMOSTAT AND 1" THROWAWAY FILTER.
6. WIRING OF THERMOSTATS BY DIVISION 13, REFER TO SECTION 15700 FOR FUTUR DETAILS.

CHIMNEY EXHAUST FANS SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	AIR FLOW (L/S)	INLET PRESSURE (PA)	OPERATING WEIGHT (KG)	MANUFACTURER	MODEL	MOTOR SIZE (kW)	POWER SUPPLY VOLTS	PHASE	FED FROM	EM.	NORM.	STARTER SUPPLIED BY:	INSTALLED BY:	TYPE	CONTROLS MANUAL	AUTO.	INTERLOCK BY: DIV. 15	DIV. 16	OTHER REQUIREMENTS DISC. AT MOTOR	W.P. DISC. AT MOTOR	F.A. SHUT DOWN	OTHERS	REMARKS:
VENTR-01	BOILER VENT	ROOF	BOILER # 1 & 2	RETAIL	-	-	-	EXHAUSTO	RSV400	0.75	208	3	2E1MCRP1	YES	-	DIV. 15	DIV. 15	-	-	YES	YES	-	-	YES	-	-	C/W VFD, MODULATING DRAFT CONTROL WITH KTP SENSOR, PROBE, MODULATING DAMPER, ACTUATOR, BALANCING BAFFLES & DURAVENT FARGREEAL VENTING

NOTES:

UNITARY DX UNIT SCHEDULE

REFERENCE	DESCRIPTION	LOCATION	OWNERSHIP	SUPPLY AIR (L/S)	COOLING CAP. (KW) TOTAL	SENS.	EVAP. ENT. COND. (°C) DB	WB	HEATING CAP. (KW)	MANUFACTURER	MODEL	FLA AMPS	MAX FUSE SIZE	POWER SUPPLY VOLTS	PHASE	FED FROM	EM.	NORM.	STARTER SUPPLIED BY: DIV. 15	DIV. 16	INSTALLED BY: DIV. 15	DIV. 16	TYPE	CONTROLS MANUAL	AUTO.	INTERLOCK BY: DIV. 15	DIV. 16	OTHER REQUIREMENTS W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT.	REMARKS:
ACR-01	DX FAN COIL UNIT	1M18 ELEC. RM	RETAIL	890	14.2	-	26.6	16.1	-	IEC INTERNATIONAL	HB020	3.6		208	3	21MCRM	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	
ACR-02	DX FAN COIL UNIT	1M18 ELEC. RM	RETAIL	890	14.2	-	26.6	16.1	-	IEC INTERNATIONAL	HB020	3.6		208	3	21MCRM	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	
ACR-03	DX FAN COIL UNIT	12B GARBAGE RM	RETAIL	370	6.8	-	26.7	19.4	-	DAIKIN	FHQ24PVJU	1.3	15	208	1	21MCRM	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	

NOTES:
1. REFER TO SECTION 15050 REGARDING WIRING AND ELECTRIC MOTORS.
2. REFER TO 15700 FOR FURTHER DETAILS.
3. REFER TO SECTION 15100 FOR VIBRATION ISOLATION.

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	DIV. 16	INSTALLED BY: DIV. 15	DIV.16	TYPE	CONTROLS MANUAL	AUTO.	INTERLOCK BY: DIV. 15	DIV. 16	OTHER REQUIREMENTS W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT.	REMARKS:
ACUR-01	ACR-01 SPLIT AIR-COOLED CONDENSER	PARKING P1	RETAIL	14.2	R-410A	35	REFPLUS	OCZ-040-IH1-5	25	40	208	3	21MCRM	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	AIR-COOLED CONDENSER CONNECTED TO ACR-01
ACUR-02	ACR-02 SPLIT AIR-COOLED CONDENSER	PARKING P1	RETAIL	14.2	R-410A	35	REFPLUS	OCZ-040-IH1-5	25	40	208	3	21MCRM	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	AIR-COOLED CONDENSER CONNECTED TO ACR-02
ACUR-03	ACR-03 SPLIT AIR-COOLED CONDENSER	P1 PARKING LEVEL	RETAIL	6.8	R-410A	35	DAIKIN	RZQ24PVJU9	16.5	20	208	1	21MCRM	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	AIR-COOLED CONDENSER CONNECTED TO ACR-03

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.

EXPANSION TANK SCHEDULE

REF.	SYSTEM	OWNERSHIP	TANK CAPACITY (LIT)	MAX ACCEPT (LIT)	MODEL	MANUFACTURER	REMARKS
ETR-1	COOLING SYSTEM	RETAIL	210	85	AX-100	AMTROL	
ETR-2	HEATING SYSTEM	RETAIL	767	317	AX-260	AMTROL	
ETR-3	MAUR-1 HEATING SYSTEM	RETAIL	82	42	AX-40	AMTROL	

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Date: 04-13-15

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No.	Revision	Date
1	ADD M-001	2015/10/30
4		
3	ISSUED FOR CONSTRUCTION	2016-07-07
2	ISSUED FOR CONSTRUCTION (ELECTRICAL)	2016-04-21
1	ISSUED FOR TENDER	2015-11-13

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
RETAIL - EQUIPMENT SCHEDULES #2

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

Scale	1 : 1
Drawn by	S.J.
Checked by	Checker
Project No.	8489D
Date	04/13/15
Drawing No.	ME-32

N

ENTRANCE AND UNIT HEATER SCHEDULE - COMMERCIAL

REFERENCE	DESCRIPTION	LOCATION	OWNERSHIP	HEATING CAPACITY OUTPUT (KW)	WATER FLOW (L/S)	WATER TEMP. (C)	AIR FLOW (L/S)	AIR ENT. TEMP. (C)	MANUFACTURER	MODEL	TYPE	PRE-RATING (KPA)	MOTOR AMPS	POWER SUPPLY				STARTER					CONTROLS				OTHER REQUIREMENTS			REMARKS:
														VOLTS	PHASE	FED FROM	EM. NORM.	SUPPLIED BY: DIV. 15	SUPPLIED BY: DIV. 16	INSTALLED BY: DIV. 15	INSTALLED BY: DIV.16	TYPE	MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV.16	W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT.	
EHOM-01	FORCE-FLO CABINET HEATER	P123 ELEV. LOBBY	COMMERCIAL	4	0.07	82.2	90	18.3	TRANE	FFEB0201J	CEILING HUNG	-	3	115	1	2P1CPM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	C/W INTEGRAL T-STAT AND DISCONNECT SWITCH
EHOM-02	FORCE-FLO CABINET HEATER	P124 VESTIBULE	COMMERCIAL	4	0.07	82.2	90	18.3	TRANE	FFEB0201J	CEILING HUNG	-	3	115	1	2P1CPM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	C/W INTEGRAL T-STAT AND DISCONNECT SWITCH
EHOM-03	FORCE-FLO CABINET HEATER	147 ELEV. LOBBY	COMMERCIAL	6	0.11	82.2	110	18.3	TRANE	FFEB0301J	CEILING HUNG	-	3	115	1	2P1CPM	-	YES	YES	-	YES	-	-	-	YES	YES	-	-	-	-	C/W INTEGRAL T-STAT AND DISCONNECT SWITCH

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. ENT WATER TEMPERATURE 82.2°C WATER TEMPERATURE DROP 11°C ENTERING AIR TEMPERATURE 18.3°C.
5. ALL PUMPS WITH 100% STANDBY UNIT TO BE WITH THERMOSTAT AND 1" THROWAWAY FILTER.
6. WIRING OF THERMOSTATS BY DIVISION 15.
REFER TO SECTION 15700 FOR FUTUR DETAILS.

UNITARY DX UNIT SCHEDULE - COMMERCIAL

REFERENCE	DESCRIPTION	LOCATION	OWNERSHIP	SUPPLY AIR (L/S)	COOLING CAP. (KW)		EVAP. ENT. COND. (°C)		HEATING CAP. (KW)	MANUFACTURER	MODEL	FLA AMPS	MAX FUSE SIZE	POWER SUPPLY					STARTER					CONTROLS				OTHER REQUIREMENTS			REMARKS:
					TOTAL	SENS.	DB	WB						VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY: DIV. 15	SUPPLIED BY: DIV. 16	INSTALLED BY: DIV. 15	INSTALLED BY: DIV.16	TYPE	MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV.16	W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT.	
ACOM-01	DX FAN COIL UNIT	P131 ELEC. RM	COMMERCIAL	890	14.2	-	26.6	19.4	-	IEC INTERNATIONAL	HBD20	3.6		208	3	2P1CPM	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	
ACOM-02	DX FAN COIL UNIT	P209 ELEV MRM	COMMERCIAL	372	7.0	-	26.6	19.4	-	DAIKIN	FHQ24NVJU	1.4		208	1	2P1CPM	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV 15	-	

NOTES:
1. REFER TO SECTION 15050 REGARDING WIRING AND ELECTRIC MOTORS
2. REFER TO 15700 FOR FURTHER DETAILS.
3. REFER TO SECTION 15100 FOR VIBRATION ISOLATION.

AIR COOLED CONDENSER SCHEDULE - COMMERCIAL

REFERENCE	DESCRIPTION	LOCATION	OWNERSHIP	COOLING CAPACITY (KW)	REFRIGERANT	AMBIENT TEMP. (°C)	MANUFACTURER	MODEL	MIN. CIRC. AMPS	MAX. FUSE SIZE	POWER SUPPLY					STARTER					CONTROLS				OTHER REQUIREMENTS			REMARKS:
											VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY: DIV. 15	SUPPLIED BY: DIV. 16	INSTALLED BY: DIV. 15	INSTALLED BY: DIV.16	TYPE	MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV.16	W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT.	
ACUCM-01	ACOM-01 SPLIT AIR-COOLED CONDENSER	PARKING P1	COMMERCIAL	14.2	R-410A	35	REFPLUS	OCZ-040-R1-5	25	40	208	3	2P1CPM	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	-	DIV 15	-	AIR COOLED CONDENSER CONNECTED TO ACOM-01
ACUCM-02	ACOM-02 SPLIT AIR-COOLED CONDENSER	PARKING P1	COMMERCIAL	7.0	R-410A	35	DAIKIN	RZQ24PVJU	16.5	20	208	1	2P1CPM	-	YES	YES	-	YES	-	PKG.	-	YES	YES	-	-	-	DIV 15	-	AIR COOLED CONDENSER CONNECTED TO ACOM-01

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. DV 16 TO RUN 20MM C BETWEEN ACC AND RELATED AC UNIT

FOR CONTROL WIRING.

FAN SCHEDULE - COMMERCIAL

REFERENCE	DESCRIPTION	LOCATION	SERVING	OWNERSHIP	EXHAUST AIR (L/S)	E.S.P. (KPA)	FAN (RPM)	WEIGHT (KG.)	P.W.L. db RE 10^12 WATTS OCTAVE BAND								MANUFACTURER	MODEL	ENERGY REQUIRED (HP)	MOTOR SIZE (KW)	POWER SUPPLY					STARTER		TYPE	CONTROLS			OTHER REQUIREMENTS:			OTHERS	REMARKS:
									1	2	3	4	5	6	7	8					VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY:	INSTALLED BY:		MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV. 16	DISC. AT MOTOR	W.P. DISC. AT MOTOR	F.A. SHUT		
SFCM-01	STAIR PRESSURIZATION	STAIR 'D' PRESSURIZATION	STAIR 'D' PRESSURIZATION	COMMERCIAL	1415	0.15	1077	-	-	-	-	-	-	-	-	-	GREENHECK	BDF-100-15	-	1.1	575	3	6EP1CPP1	YES	-	DIV 15	DIV 15	-	-	YES	YES	YES	-	-	-	

NOTES:
1. REFER TO SECTION 15050 REGARDING WIRING AND ELECTRIC MOTORS
2. REFER TO SECTIONS 15700 FOR FURTHER DETAIL.
3. REFER TO SECTION 15100 FOR VIBRATION ISOLATION.
4. REFER TO DIV 17 FOR CONTROL.
5. ALL EXHAUST FAN DUCTWORK TO EXTEND ROOF CURB OF SUITABLE SIZE MOTORIZED DAMPER AND BIRD SCREEN.
6. ALL RETURN AND PRESSURIZING FAN INTAKE GRILLE ALL REQUIRED WITH MOTORIZED DAMPER & UNIT MOUNTED SPRINGS.

PUMP SCHEDULE - COMMERCIAL

REFERENCE	DESCRIPTION	LOCATION	OWNERSHIP	WATER FLOW (L/S)	HEAD (KPA)	RPM	MANUFACTURER	TYPE / SIZE	ENERGY REQUIRED (HP)	MOTOR SIZE (KW)	POWER SUPPLY					STARTER					CONTROLS				OTHER REQUIREMENTS			REMARKS:
											VOLTS	PHASE	FED FROM	EM.	NORM.	SUPPLIED BY: DIV. 15	SUPPLIED BY: DIV. 16	INSTALLED BY: DIV. 15	INSTALLED BY: DIV.16	TYPE	MANUAL	AUTO.	INTERLOCK BY: DIV. 15	INTERLOCK BY: DIV.16	W.P. DISC. AT MOTOR	DISC. AT MOTOR	F.A. SHUT.	
PCM-01	ELEVATOR 7&8 SUMP PUMP	FD LEVEL	COMMERCIAL	6.3	240	1800	BARNES	4SE-7594L	-	5.6	575	3	6EP1CPP2	YES	-	YES	-	YES	-	PKG.	-	YES	YES	-	-	DIV. 15	-	C/W SLIDE AWAY COUPLINGS, GALVANIZED LIFTING CHAINS, DUPLEX CONTROL PANEL, DISCONNECT SWITCH IN CSMA 1 ENCLOSURE, C/W HIGH WATER ALARM PANEL, EXTRA RELAY IN CSMA 1 ENCLOSURE AND MECHANICAL FLOAT SWITCHES.
PCM-02	ELEVATOR 7&8 SUMP PUMP	FD LEVEL	COMMERCIAL	6.3	240	1800	BARNES	4SE-7594L	-	5.6	575	3																

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

Contractor Must Check And Verify All Dimensions On The Job.
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10/30/15
Date:

D. C. M. BELLAMY
REGISTERED ARCHITECT
PROVINCE OF ONTARIO

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Dauphin Kitchener Thief Saint John

No.	Revision	Date
1	ADD M-001	2015/10/30
4		
3		
2	ISSUED FOR CONSTRUCTION	2016-07-07
1	ISSUED FOR CONSTRUCTION	2016-04-01

No.	Issued For	Date

AQUAVISTA
AT BAYSIDE TORONTO

Drawing Title
RETAIL - EQUIPMENT SCHEDULES #3

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

Scale 1 : 1
Drawn by Author
Checked by Checker
Project No. 8489D
Date 10/30/15
Drawing No. ME-33

N