

NOT FOR CONSTRUCTION

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Burke Mountain Community Center:
Burke Mountain, Coquitlam, BC

MECHANICAL DRAWING LIST

DRAWINGS NO.	DESCRIPTION
M000	COVER SHEET
M001	MOTORLIST I
M002	MOTORLIST II
M003	MOTORLIST III
M004	MOTORLIST IV
M005	MECHANICAL SCHEDULE I
M006	MECHANICAL SCHEDULE II
M007	PLUMBING FIXTURE SCHEDULE
M010	POOL MOTORLIST & SCHEDULES
M100	SITE PLAN
M101E	FOUNDATION PLAN - EAST
M101W	FOUNDATION PLAN - WEST
M102E	ROOF PLAN - EAST
M102W	ROOF PLAN - WEST
M200E	PLUMBING - LEVEL P2 - EAST
M200W	PLUMBING - LEVEL P2 - WEST
M201E	PLUMBING - LEVEL P1 - EAST
M201W	PLUMBING - LEVEL P1 - WEST
M202E	PLUMBING - LOWER LEVEL - EAST
M202W	PLUMBING - LOWER LEVEL - WEST
M203E	PLUMBING - UPPER LEVEL - EAST
M203W	PLUMBING - UPPER LEVEL - WEST
M300E	HVAC - LEVEL P2 - EAST
M300W	HVAC - LEVEL P2 - WEST
M301E	HVAC - LEVEL P1 - EAST
M301W	HVAC - LEVEL P1 - WEST
M302E	HVAC - LOWER LEVEL - EAST
M302W	HVAC - LOWER LEVEL - WEST
M303E	HVAC - UPPER LEVEL - EAST
M303W	HVAC - UPPER LEVEL - WEST
M400W	HYDRONIC - LEVEL P2 - WEST
M401W	HYDRONIC - LEVEL P1 - WEST
M402E	HYDRONIC - LOWER LEVEL - EAST
M402W	HYDRONIC - LOWER LEVEL - WEST
M403E	HYDRONIC - UPPER LEVEL - EAST
M403W	HYDRONIC - UPPER LEVEL - WEST
M500	POOL FITTING LAYOUT - LAP POOL
M501	POOL PIPING - LOW LEVEL- LAP POOL
M502	POOL PIPING - HIGH LEVEL- LAP POOL
M503	POOL - LAP POOL SECTIONS
M504	POOL FITTING LAYOUT - LEISURE AND HOT POOL
M505	POOL PIPING - LOW LEVEL- LEISURE AND HOT POOL
M507	POOL - LEISURE AND HOT POOL SECTIONS
M510	POOL MECHANICAL ROOM - EQUIPMENT LEVEL
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M701	SCHEMATICS - VENTILATION
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M800	DETAILS - PLUMBING
M801	DETAILS - HVAC I
M802	DETAILS - HVAC II
M803	DETAILS - HYDRONIC
MC-001	MECHANICAL COORDINATION

MECHANICAL ABBREVIATIONS

AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ARCH	ARCHITECTURAL
BB	BASEBOARD HEATER
BDD	BACKDRAFT DAMPER
BF	BOTTLE FILLER
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BMS	BUILDING MANAGEMENT SYSTEM
BT	BATH TUB
C/W	COMPLETE WITH
CB	CATCH BASIN
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CO	CLEANOUT
CONN	CONNECTION
CONT	CONTINUATION
CTE	CONNECT TO EXISTING
DB	DRY BULB
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DN	DOWN
DuC	DUAL CHECK VALVE
DW	DISH WASHER
DWG	DRAWING
E/A	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
EFF	EFFICIENCY
ELEC	ELECTRICAL
ENT	ENTERING
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
F	FIRE MAIN
FA	FROM ABOVE
FB	FROM BELOW
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FFD	FUNNEL FLOOR DRAIN
FLA	FULL LOAD AMPS
FLR	FLOOR
FPM	FEET PER MINUTE
GWB	GYPSUM WALL BOARD
HB	HOSE BIBB
HD	HUB DRAIN
HP	HORSEPOWER
ID	INSIDE DIAMETER
IN W.G.	WATER GAUGE
INV	INVERT
JS	JANITOR SINK
KS	KITCHEN SINK
LAT	LEAVING AIR TEMPERATURE
LV	LAVATORY
LWT	LEAVING WATER TEMPERATURE
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
NC	NOISE CRITERIANORMALLY CLOSED
NFHB	NON FREEZE HOSE BIB
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O/A	OUTDOOR AIR
OBD	
OD	OUTSIDE DIAMETER
OED	OPEN ENDED DUCT
PICV	PRESSURE INDEPENDENT CONTROL VALVE
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
R/A	RETURN AIR
RF	RETURN FAN
RM	ROOM
RPBA	REDUCED PRESSURE BACKFLOW ASSEMBLY
RWL	RAIN WATER LEADER
S/A	SUPPLY AIR
SF	SUPPLY FAN
SH	SHOWER
SK	SINK DRAIN ABOVE
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SS	STAINLESS STEEL
T/A	TRANSFER AIR
TA	TO ABOVE
TB	TO BELOW
TBC	TO BE CONFIRMED
TBD	TO BE DETERMINED
TD	TRENCH DRAIN
THRU	THROUGH
TS	TAMPER SWITCH
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UR	URINAL
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT THROUGH ROOF
W	WATER MAIN
WB	WET BULB
WC	INCHES WATER CLOSET

SYMBOL SCHEDULE

PIPING

- DOMESTIC COLD WATER (DCW)
- DOMESTIC HOT WATER (DHW)
- DOMESTIC HOT WATER RECIRCULATION (DHWR)
- DOMESTIC TEMPERED WATER (DTW)
- SANITARY VENT
- SANITARY SEWER ABOVE GRADE
- SANITARY SEWER BELOW GRADE
- STORM SEWER ABOVE GRADE
- STORM SEWER BELOW GRADE
- DRAIN TILE
- IRRIGATION LINE
- HEATING WATER SUPPLY
- HEATING WATER RETURN
- CHILLED WATER SUPPLY
- CHILLED WATER RETURN
- CONDENSER WATER SUPPLY
- CONDENSER WATER RETURN
- HEAT PUMP SUPPLY
- HEAT PUMP RETURN
- RADIANT HEATING SUPPLY
- RADIANT HEATING RETURN
- REFRIGERANT SUPPLY
- REFRIGERANT RETURN
- FUEL OIL SUPPLY
- FUEL OIL RETURN
- SOLAR WATER SUPPLY
- SOLAR WATER RETURN
- GAS LINE
- CONDENSATE DRAIN
- NON POTABLE WATER
- GREASE DRAIN
- GREY WATER
- BLACK WATER
- HIGH PRESSURE STEAM
- HIGH PRESSURE CONDENSATE
- LOW PRESSURE STEAM
- LOW PRESSURE CONDENSATE

FITTINGS AND VALVES

- DIRECTION OF FLOW
- PIPE DROP
- PIPE RISE
- PIPE TEE UP
- PIPE TEE DOWN
- PIPE UNION
- PIPE CLEAN-OUT
- PIPE CLEAN-OUT TO GRADE
- PIPE CAP-OFF
- ISOLATION VALVE (NORMALLY OPEN)
- ISOLATION VALVE (NORMALLY CLOSED)
- CHECK VALVE
- 2-WAY CONTROL VALVE
- 3-WAY CONTROL VALVE
- SOLENOID VALVE
- BALANCING VALVE
- STRAINER
- CIRCUIT SETTLER VALVE
- PRESSURE REDUCING VALVE
- PRESSURE INDEPENDENT VALVE
- BACKFLOW PREVENTOR ASSEMBLY
- PRESSURE RELIEF VALVE
- AUTOMATIC AIR VENT
- EMERGENCY GAS SHUTOFF
- SEISMIC GAS SHUTOFF
- PUMP
- HEAT TRACE
- PIPE SLEEVE
- EXPANSION JOINT
- FLEX COUPLING
- PIPE ANCHOR
- BALL VALVE
- GLOBE VALVE
- BUTTERFLY VALVE
- PLUG VALVE
- STEAM TRAP

OUTLETS AND DRAINS

- MANHOLE
- CATCH BASIN
- OPEN DRAIN
- HOSE-BIBB
- FLOOR DRAIN
- FUNNEL FLOOR DRAIN / HUB DRAIN
- ROOF DRAIN
- AREA DRAIN
- P-TRAP
- VENT TO ABOVE

DUCTWORK

- SUPPLY AIR DUCT UP
- SUPPLY AIR DUCT DOWN
- RETURN AIR DUCT UP
- RETURN AIR DUCT DOWN
- EXHAUST AIR DUCT UP
- EXHAUST AIR DUCT DOWN
- OUTSIDE AIR DUCT UP
- OUTSIDE AIR DUCT DOWN
- TURNING VANES
- ACOUSTIC INSULATION
- BALANCING DAMPER
- BDD — BACKDRAFT DAMPER
- MOTORIZED DAMPER
- FIRE DAMPER - VERTICAL
- FIRE DAMPER - HORIZONTAL
- FIRE SMOKE DAMPER
- DUCT CAP-OFF
- UC — UNDER-CUT DOOR

FIRE PROTECTION

- WALL MOUNTED FIRE EXTINGUISHER
- RECESSED FIRE EXTINGUISHER
- FREE STANDING FIRE DEPT. CONNECTION
- RECESSED FIRE DEPT. CONNECTION
- PENDANT SPRINKLER HEAD
- EXT. COVERAGE PENDANT SPRINKLER HEAD
- UPRIGHT SPRINKLER HEAD
- EXT. COVERAGE UPRIGHT SPRINKLER HEAD
- UP & DN SPRINKLER HEAD
- EXT. COVERAGE UP & DN SPRINKLER HEAD
- SIDEWALL SPRINKLER HEAD
- EXT. COVERAGE SIDEWALL SPRINKLER HEAD
- FIRE LINE
- SP — SPRINKLER LINE
- DSP — DRY SPRINKLER LINE

SYSTEM MONITORING

- T — ROOM TEMPERATURE SENSOR
- T — THERMOSTAT WITH COVER
- RT — REVERSE ACTING TEMPERATURE SENSOR
- S — SWITCH
- H — HUMIDISTAT
- HD — HEAT DETECTOR
- OS — OCCUPANCY SENSOR
- SD — SMOKE DETECTOR
- CO_2 — CO_2 SENSOR
- CO — CO SENSOR
- NOX — NITROUS OXIDE SENSOR
- PS — PRESSURE SENSOR
- P — PRESSURE GAUGE
- T — PIPE TEMPERATURE SENSOR
- THERMOMETER
- EM — ENERGY METER
- GM — GAS METER
- WM — WATER METER
- FS — FLOW SWITCH
- CONTROL WIRING

EQUIPMENT TAGS

- EQUIPMENT / FIXTURE TYPE
- QTY
- GRILLE TYPE
- NECK / GRILLE SIZE
- AIR VOLUME (L/S)
- QTY
- LINEAR DIFFUSER TYPE
- DIFFUSER LENGTH
- NECK / GRILLE SIZE
- AIR VOLUME (L/S)
- M- — DETAIL NUMBER / DRAWING NUMBER

RENOVATION

- EXISTING MECHANICAL SERVICE
- DEMOLISH

APPLICABLE CODES AND STANDARDS

1. BRITISH COLUMBIA BUILDING CODE 2024

BUILDING LOADS

SERVICE	LOAD	UNITS	SIZE / NOTES
DOMESTIC WATER SERVICE	192	GPM	COMBINED DOMESTIC LOAD (882.8 FU)
FIRE SERVICE	500	GPM	TOTAL SPRINKLER FLOW REQUIREMENT
COMBINED WATER SERVICE	692	GPM	FIRE & DOMESTIC LOADS
SANITARY	310	FU	
STORM	1,088	GPM	NO FOUNDATION DRAINAGE

WATER METER NOTES AND SPECIFICATIONS:

1. WATER METER TO BE LOCATED WITHIN AN EXTERNAL WATER METER CHAMBER. (REFER TO CIVIL DRAWINGS FOR LOCATION)
2. WATER METER TO BE PER CITY OF COQUITLAM REQUIREMENTS. ACCEPTABLE MANUFACTURER AND MODEL IS NEPTUNE MACH 10. TO BE COMPLETE WITH E-CODER, NON INTEGRATED WITH SINESUS SMARTPOINT MODULE. ALTERNATE METERS MAY BE ACCEPTED ONLY UPON PRIOR APPROVAL OF THE CITY.
3. WATER METER MUST CONFORM TO AWWA C702.
4. FOR ALL METERS WITH BASE PLATES, THE BASE PLATE SHALL BE CAST IRON FOR OUTSIDE INSTALLATIONS AND BRONZE FOR INSIDE INSTALLATIONS. PLASTIC BASE ARE NOT ACCEPTABLE.
5. ALL METERS MUST BE NEW. USED OR REFURBISHED ARE NOT ACCEPTABLE.

GENERAL NOTES - BMCC

1. THESE DRAWINGS ARE TO BE READ WITH CONJUNCTION WITH STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.
2. ALL CONCRETE CUTTING AND CORING TO BE SCANNED PRIOR TO START OF WORK AS OUTLINED IN STRUCTURAL DRAWINGS AND SPECIFICATIONS.
3. REFER TO SURVEY DRAWING FOR ADDITIONAL EXISTING SITE INFORMATION.
4. REFER TO LANDSCAPE DOCUMENTS AND TREE MANAGEMENT REPORT FOR TREE REMOVAL AND PROTECTION.
5. REFER TO CIVIL DOCUMENTS FOR ADDITIONAL OFFSITE WORKS.
6. FOR COMPLETE DOMESTIC WATER PIPE SIZES AND LOADS, REFER TO MXXXXXX
7. FOR DOMESTIC WATER SERVICE PIPE CONNECTION TO FIXTURES, REFER TO PLUMBING ROUGH-IN SCHEDULE
8. CONTRACTOR TO INSTALL CLEANOUTS AS PER BC BC 2.4.7.2. ENSURE LOCATIONS ARE COORDINATED SO THAT THE PLACEMENT WILL NOT IMPACT THE DESIGN AESTHETIC OF THE BUILDING.
9. CONTRACTOR TO NOTE THAT BALANCING VALVES SHOWN ON PLANS ARE FOR BALANCING DHWR SUB-BRANCHES AND ARE DIFFERENT FROM THE BALANCING VALVES SHOWN ON MXXXXX SCHEMATICS. MXXXXX SCHEMATICS INDICATE BALANCING VALVES GOING BACK TO MAIN DHWR LINE. EACH MAIN BRANCH OFF FROM THE MAIN WILL HAVE A BALANCING VALVE AS SHOWN ON SCHEMATICS PLUS BALANCING VALVE ON SUB-LOCATIONS OF ACCESS WITH ARCHITECT.
10. INSTALL BACKFLOW PREVENTION DEVICES TO MEET CLEARANCE REQUIREMENT SET IN CSA B64.10
11. SHUT OFF VALVES TO BE PROVIDED ON MAINS AND BRANCHES AS INDICATED ON DOMESTIC WATER SCHEMATIC MXXXXX
12. P-TRAPS LOCATED IN PARKADE TO BE HEAT TRACED AND INSULATED.
13. CONTRACTOR TO ALLOW FOR FIRE/SMOKE DAMPERS ON EVERY DUCT PENETRATION THROUGH RATED WALLS, SLABS, AND SHAFTS REGARDLESS OF WHAT IS SHOWN ON DRAWINGS. REFER TO CODE REPORT AND ARCHITECTURAL DRAWINGS FOR ALL RATED ASSEMBLIES.

PIPE SIZING TABLE

PIPE MATERIAL	NOM.PIPE SIZE (IN)	NOM PIPE SIZE (MM)	COLD WATER				HOT WATER			
			FU	L/S	GPM	FT/S	FU	L/S	GPM	FT/S
COPPER (TYPE K)	0.5	15	1.0	0.13	2.0	3.0	2.0	0.14	2.3	3.4
COPPER (TYPE K)	0.75	20	6.5	0.33	5.2	3.8	7.0	0.34	5.4	4.0
COPPER (TYPE K)	1	25	16.0	0.73	11.5	4.7	13.0	0.61	9.7	4.0
COPPER (TYPE K)	1.25	30	28.5	1.2	19	5.0	22.0	0.96	15.2	4.0
COPPER (TYPE K)	1.5	40	45.0	1.69	26.8	5.0	33.0	1.36	21.5	4.0
COPPER (TYPE K)	2	50	115.0	2.96	47.0	5.0	78.5	2.37	37.6	4.0
PEX	0.5	15	1.0	0.12	1.9	3.0	1.0	0.13	2.1	3.3
PEX	0.75	20	4.5	0.26	4.1	3.7	5.5	0.29	4.5	4.0
PEX	1	25	10.5	0.51	8.2	4.3	11.5	0.56	8.9	4.7
PEX	1.25	30	19.5	0.87	13.8	4.9	22.0	0.95	15.1	5.4
PEX	1.5	40	33.5	1.37	21.7	5.5	37.5	1.49	23.6	6.0
PEX	2	50	103.5	2.83	44.8	6.7	121.5	3.06	48.5	7.2
STAINLESS STEEL (SCH.10)	2.5	65	563	8.58	136.0	8.0	563.0	8.58	136.0	8.0
STAINLESS STEEL (SCH.10)	3	75	1002	13.13	208.1	8.0	1002.0	13.13	208.1	8.0
STAINLESS STEEL (SCH.10)	4	100	2312.5	22.42	355.4	8.0	2312.5	22.42	355.4	8.0
STAINLESS STEEL (SCH.10)	6	150	11176.5	49.93	791.4	8.0	11176.5	49.93	791.4	8.0

GENERAL NOTES:
1. WHEN NOT CONCEALED IN A WALL OR CONCRETE FLOOR ASSEMBLY, ENSURE PEX PIPING HAS A FLAME-SPREAD RATING NOT MORE THAN 25 PER 3.1.5.19.(10).

POOL DATA

	LAP POOL	LEISURE POOL	HOT TUB
POOL VOLUME	706m³ (186585 USGAL)	230m³ (60760 USGAL)	28m³ (7398 USGAL)
WATER SURFACE AREA	401m² (4316.3ft²)	265m² (2852.44ft²)	40.8m² (439ft²)
OPERATING TEMPERATURE	28°C (82.4°F)	32°C (89.6°F)	40°C (104°F)
BATHER LOAD	295	289	50
TURNOVER RATE	291.5 minutes	84.4 minutes	14.8 minutes
TOTAL FILTRATION FLOW	2423 L/MIN (640 USGPM)	2725 L/MIN (720 USGPM)	1893.3 L/MIN (500 USGPM)
PRIMARY DISINFECTANT	CHLORINE GAS	CHLORINE GAS	CHLORINE GAS
SECONDARY DISINFECTANT	ULTRA VIOLET	ULTRA VIOLET	ULTRA VIOLET
ACID NEUTRALIZER	SODA ASH	SODA ASH	SODA ASH

NOTES:

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Key Plan

Issued for

1	08/08/2025	ISSUED FOR 100% DD
2	10/01/2025	ISSUED FOR 25% CD
3	11/21/2025	ISSUED FOR 50% CD

Project title
Burke Mountain Community Centre (BMCC)

Clien
City of Coquitlam

Site
Burke Mountain, Coquitlam, BC

Sheet title
COVER SHEET

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M000

NOT FOR CONSTRUCTION

MECHANICAL MOTORLIST

SUPPLIER/INSTALL/WIRE CODES:

M - MECHANICAL
E - ELECTRICAL
G - GENERAL CONTRACTOR

STARTER CODES:

MAN - MANUAL STARTER
MAG - MAGNETIC STARTER W/ HOA SWITCH W/ AUX. CONTACTS
MRR - MOTOR RATED RELAY, 24 VAC COIL
PCS - PACKAGED CONTROL SYSTEM
VSD - VARIABLE SPEED DRIVE
RVS - REDUCED VOLTAGE STARTER
WS - WALL SWITCH
CP - CONTROL PANEL

CONTROL DEVICE CODES:

BMS - BLDG MANAGEMENT SYSTEM
ES - END SWITCH
ET - LINE VOLTAGE TSTAT
FA - FIRE ALARM
FS - FLOW SWITCH
GS - GAS SENSOR
H - HUMIDITY SENSOR
I - INTERLOCK, SEE NOTES
LS - LEVEL SWITCH
TC - TIME CLOCK
T - LOW VOLTAGE TSTAT OR SENSOR
TS - TAMPER SWITCH
VS - VARIABLE SPEED SWITCH
WS - WALL SWITCH
FAP - FIRE ALARM PANEL
DDC - DIRECT DIGITAL CONTROL
PCS - PACKAGED CONROL SYSTEM

INT - INTEGRAL MANUAL STARTER

LOCATION CODES:

1 - AT OR NEAR MOTOR
2 - MOTOR CONTROL CENTRE
3 - EQUIPMENT ROOM
4 - ELECTRICAL ROOM
5 - AS SHOWN ON DRAWINGS

MISCELLANEOUS CODES:

FFCP - FIRE FIGHTERS CONTROL PANEL
FRAC = FRACTIONAL HORSEPOWER
INT = INTEGRAL PART OF UNIT

NOTES:

1. SINGLE POINT POWER CONNECTION (EXCEPT FOR LIGHTS)
2. PROVIDE SEPARATE 120V CIRCUIT FOR MARINE LIGHTS AND CONVENIENCE OUTLET
3. 120V TO 240V HARDWIRED TRANSFORMER
4. PROVIDE 120V RECEPTACLE FOR PLUG-IN TRANSFORMER
5. AIR CURTAN TO BE OPERATED BY DOOR SWITCH AND 24V CONTROLS
6. INDOOR UNIT TO BE POWERED BY OUTDOOR UNIT
7. TRAP PRIMERS WILL BE SOLENOID STYLE AND EACH WILL REQUIRE POWER
8. PROVIDE GAS/OIL BOILER/WATER HEATER EMERGENCY STOP BUTTON AT MECH ROOM DOOR
9. REFER TO ALTERNATE SOLUTION REPORT FOR DETAILS
10. FAN TO BE INTERLOCKED WITH DISHWASHER
11. UNIT TO SHUT DOWN ON CALL FROM KITCHEN HOOD FIRE SUPPRESSION SYSTEM
12. REQUIRES RECEPTACLE
13. SPRINKLER ZONE VALVES AND FLOW SWITCHES TO BE MONITORED BY THE FIRE ALARM SYSTEM
14. FIRE ALARM PANEL TO HAVE DRY CONTACT FOR BMS
15. SMOKE DETECTOR REQUIRED IN RETURN DUCT MAIN
16. POWER 2 BMS PANELS PER FLOOR & 2 PANELS IN PENTHOUSE
17. LENGTH AND QUANTITY OF HEAT TRACING TO BE PROVIDED BY OTHERS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LENGTH AND LOCATION AND NUMBER OF CONTROLLERS WITH THE PIPEWORK THAT HAS BEEN SHOWN OF THE MECHANICAL DRAWINGS.

EQUIPMENT TAG	QUANTITY	LOCATION	DESCRIPTION	EMERGENCY POWER		SHELTER USE		STANDBY EQ. & POWER	NORMAL POWER USE		ELECTRICAL LOAD				V	PH	Hz	EQUIPMENT			STARTER				DISCONNECT			CONTROL				FFCP				NOTES
				SUMMER	WINTER	SUMMER	WINTER		SUMMER	WINTER	MCA	FLA	KW	HP				S	I	C	S	I	C	TYPE	S	I	C	S	I	C	TYPE	AUTO ON	AUTO OFF	PNL SWITCH	STATUS	
AHU																																			
AHU-FIT-1		ROOF LEVEL SOUTH	AHU WITH HEAT RECLAIM WHEEL FOR FITNESS						YES	YES				20	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
AHU-GYM-1		ROOF LEVEL SOUTH	AHU WITH HEAT RECLAIM WHEEL FOR GYM (FOR SHELTER)	YES	YES	YES	YES		YES	YES				40	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
AHU-POOL-1		P2 MECH. RM	AHU WITH HEAT RECLAIM WHEEL FOR POOL						YES	YES				80	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
AHU-SMPR-1		ROOF LEVEL SOUTH	AHU WITH HEAT RECLAIM WHEEL FOR L2 SOUITH MPR						YES	YES				20	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
ASHP																																			
ASHP-1		ROOF MECH. AREA	AIR SOURCE HEAT PUMP- 2 PIPES	YES	YES	YES	YES		YES	YES	300		168		575	3	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
ASHP-2		ROOF MECH. AREA	AIR SOURCE HEAT PUMP- 2 PIPES	YES	YES	YES	YES		YES	YES	300		168		575	3	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
BBH																																			
BBH-750W		STAIR ST4-P2	ELECTRIC BASEBOARD HEATER		YES	YES	YES		-	YES			0.75					E	E	E	-	-	-	-	E	E	E	E	E	E	T					
BBH-750W		STAIR D-P2	ELECTRIC BASEBOARD HEATER		YES	YES	YES		-	YES			0.75					E	E	E	-	-	-	-	E	E	E	E	E	E	T					
BBH-750W		STAIR C-P2	ELECTRIC BASEBOARD HEATER		YES	YES	YES		-	YES			0.75					E	E	E	-	-	-	-	E	E	E	E	E	E	T					
BBH-1000W		VEST P215	ELECTRIC BASEBOARD HEATER		YES	YES	YES		-	YES			1					E	E	E	-	-	-	-	E	E	E	E	E	E	T					
BBH-1000W		VEST P106	ELECTRIC BASEBOARD HEATER		YES	YES	YES		-	YES			1					E	E	E	-	-	-	-	E	E	E	E	E	E	T					
BBH-1000W		VEST P105	ELECTRIC BASEBOARD HEATER		YES	YES	YES		-	YES			1					E	E	E	-	-	-	-	E	E	E	E	E	E	T					
BBH-1000W		VEST P215	ELECTRIC BASEBOARD HEATER		YES	YES	YES		-	YES			1					E	E	E	-	-	-	-	E	E	E	E	E	E	T					
BBH-1000W		EXIT CORR P216	ELECTRIC BASEBOARD HEATER		YES	YES	YES		-	YES			1					E	E	E	-	-	-	-	E	E	E	E	E	E	T					
BBH-1000W		EXIT CORR P216	ELECTRIC BASEBOARD HEATER		YES	YES	YES		-	YES			1					E	E	E	-	-	-	-	E	E	E	E	E	E	T					
BBH-1000W		VEST P213	ELECTRIC BASEBOARD HEATER						-	YES			1					E	E	E	-	-	-	-	E	E	E	E	E	E	T					
BBH-1500W		VEST P201	ELECTRIC BASEBOARD HEATER		YES	YES	YES		-	YES			1.5					E	E	E	-	-	-	-	E	E	E	E	E	E	T					
BBH-1500W		VEST P108	ELECTRIC BASEBOARD HEATER		YES	YES	YES		-	YES			1.5					E	E	E	-	-	-	-	E	E	E	E	E	E	T					
BBH-1500W		VEST P101	ELECTRIC BASEBOARD HEATER		YES	YES	YES		-	YES			1.5					E	E	E	-	-	-	-	E	E	E	E	E	E	T					
BOILER ELECTRIC																																			
B-1		P2 MECH. RM	ELECTRIC HEATING BOILER	YES	YES	YES	YES		YES	YES			300 KW		575	3	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
B-2		P2 MECH. RM	ELECTRIC HEATING BOILER						YES	YES			300 KW		575	3	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
B-3		P2 MECH. RM	ELECTRIC HEATING BOILER					STANDBY	YES	YES			300 KW		575	3	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
CONDENSER																																			
AC-P1-1		P1 ELEV. MACHINE RM	INDOOR AIR CONDITION FOR P1 ELEV. MACHINE RM	YES	YES	-	-		YES	YES				0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	R.STAT					
AC-P2-1		P2 PARKADE	INDOOR AIR CONDITION FOR ELEC. RM	YES	YES				YES	YES				0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	R.STAT					
AC-P2-2		P2 PARKADE	INDOOR AIR CONDITION FOR ELEC. RM	YES	YES				YES	YES				0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	R.STAT					
AC-P2-3		P2 PARKADE	INDOOR AIR CONDITION FOR P2 ELEV. MACHINE RM	YES	YES				YES	YES				0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	R.STAT					
CU-P1-1		P1 PARKADE	CONDENSING UNIT FOR P1 ELEV. MACHINE RM	YES	YES				YES	YES			4 KW		208	3	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	R.STAT					
CU-P2-1		P2 PARKADE	CONDENSING UNIT FOR ELEC. RM	YES	YES				YES	YES			4 KW		208	3	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	R.STAT					
CU-P2-2		P2 PARKADE	CONDENSING UNIT FOR ELEC. RM	YES	YES				YES	YES			4 KW		208	3	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	R.STAT					
CU-P2-3		P2 PARKADE	CONDENSING UNIT FOR P2 ELEV. MACHINE RM	YES	YES				YES	YES			4 KW		208	3	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	R.STAT					
FAN COIL																																			
FCU-L1-01		MPR DRY	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)						YES	YES			0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L1-02		MPR WET	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)						YES	YES			0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L1-03		ACTIVE STUDIO	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)						YES	YES			0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L1-04		ACTIVE STUDIO	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)										0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L1-05		SUB ELEC	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)	YES	YES	YES	YES		YES	YES			0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L1-06		SUB COMM	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)	YES	YES	YES	YES		YES	YES			0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L1-07			FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)	YES	YES	YES	YES		YES	YES			0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L1-08		SERVE L1 LOBBY	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)	YES	YES	YES	YES		YES	YES			0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L1-09		SERVE L1 LOBBY	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)	YES	YES	YES	YES		YES	YES			0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L1-10		SERVE L1 LOBBY	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)	YES	YES	YES	YES		YES	YES			0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L1-11		SERVE L1 LOBBY	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)	YES	YES	YES	YES		YES	YES			0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L1-12		SERVE L1 LOBBY	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)	YES	YES	YES	YES		YES	YES			0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L1-13		SERVE L1 LOBBY	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)	YES	YES	YES	YES		YES	YES			0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L1-14		SERVE L1 LOBBY	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)	YES	YES	YES	YES		YES	YES			0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L1-15		SERVE L1 LOBBY	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)	YES	YES	YES	YES		YES	YES			0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L1-16		SERVE L1 LOBBY	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)	YES	YES	YES	YES		YES	YES			0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L1-17		SERVE L1 LOBBY	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)	YES	YES	YES	YES		YES	YES			0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L1-18		ADMIN	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)	YES	YES	YES	YES		YES	YES			0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L1-19		ADMIN	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)	YES	YES	YES	YES		YES	YES			0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L1-20		ADMIN	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)	YES	YES	YES	YES		YES	YES			0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L2-01		UPPER LOBBY	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)						YES	YES			0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L2-02		UPPER LOBBY	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)						YES	YES			0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L2-03		ADMIN OFFICE	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)										0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L2-04		PROGRAMMING OFFICE	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)										0.2	0.3	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L2-05		SUPERVISOR OFFICE	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)						YES	YES			0.2	0.3	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					

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Key Plan

Issued for

1	08/08/2025	ISSUED FOR 100% DD
2	10/01/2025	ISSUED FOR 25% CD
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Project title
Burke Mountain Community Centre (BMCC)

Clien
City of Coquitlam

Site
Burke Mountain, Coquitlam, BC

Sheet title
MOTORLIST I

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M001

NOT FOR CONSTRUCTION

MECHANICAL MOTORLIST

SUPPLIER/INSTALL/WIRE CODES:

M - MECHANICAL
E - ELECTRICAL
G - GENERAL CONTRACTOR

STARTER CODES:

MAN - MANUAL STARTER
MAG - MAGNETIC STARTER W/ HOA SWITCH W/ AUX. CONTACTS
MRR - MOTOR RATED RELAY, 24 VAC COIL
PCS - PACKAGED CONTROL SYSTEM
VSD - VARIABLE SPEED DRIVE
RVS - REDUCED VOLTAGE STARTER
WS - WALL SWITCH
CP - CONTROL PANEL

CONTROL DEVICE CODES:

BMS - BLDG MANAGEMENT SYSTEM
ES - END SWITCH
ET - LINE VOLTAGE T'STAT
FA - FIRE ALARM
FS - FLOW SWITCH
GS - GAS SENSOR
H - HUMIDITY SENSOR
I - INTERLOCK, SEE NOTES
LS - LEVEL SWITCH
TC - TIME CLOCK
T - LOW VOLTAGE T'STAT OR SENSOR
TS - TAMPER SWITCH
VS - VARIABLE SPEED SWITCH
WS - WALL SWITCH
FAP - FIRE ALARM PANEL
DDC - DIRECT DIGITAL CONTROL
PCS - PACKAGED CONROL SYSTEM

INT - INTEGRAL MANUAL STARTER

LOCATION CODES:

1 - AT OR NEAR MOTOR
2 - MOTOR CONTROL CENTRE
3 - EQUIPMENT ROOM
4 - ELECTRICAL ROOM
5 - AS SHOWN ON DRAWINGS

MISCELLANEOUS CODES:

FFCP - FIRE FIGHTERS CONTROL PANEL
FRAC = FRACTIONAL HORSEPOWER
INT = INTEGRAL PART OF UNIT

NOTES:

1. SINGLE POINT POWER CONNECTION (EXCEPT FOR LIGHTS)
2. PROVIDE SEPARATE 120V CIRCUIT FOR MARINE LIGHTS AND CONVENIENCE OUTLET
3. 120V TO 240V HARDWIRED TRANSFORMER
4. PROVIDE 120V RECEPTACLE FOR PLUG-IN TRANSFORMER
5. AIR CURTAN TO BE OPERATED BY DOOR SWITCH AND 24V CONTROLS
6. INDOOR UNIT TO BE POWERED BY OUTDOOR UNIT
7. TRAP PRIMERS WILL BE SOLENOID STYLE AND EACH WILL REQUIRE POWER
8. PROVIDE GAS/OIL BOILER/WATER HEATER EMERGENCY STOP BUTTON AT MECH ROOM DOOR
9. REFER TO ALTERNATE SOLUTION REPORT FOR DETAILS
10. FAN TO BE INTERLOCKED WITH DISHWASHER
11. UNIT TO SHUT DOWN ON CALL FROM KITCHEN HOOD FIRE SUPPRESSION SYSTEM
12. REQUIRES RECEPTACLE
13. SPRINKLER ZONE VALVES AND FLOW SWITCHES TO BE MONITORED BY THE FIRE ALARM SYSTEM
14. FIRE ALARM PANEL TO HAVE DRY CONTACT FOR BMS
15. SMOKE DETECTOR REQUIRED IN RETURN DUCT MAIN
16. POWER 2 BMS PANELS PER FLOOR & 2 PANELS IN PENTHOUSE
17. LENGTH AND QUANTITY OF HEAT TRACING TO BE PROVIDED BY OTHERS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LENGTH AND LOCATION AND NUMBER OF CONTROLLERS WITH THE PIPEWORK THAT HAS BEEN SHOWN OF THE MECHANICAL DRAWINGS.

				EMERGENCY POWER		SHELTER USE		STANDBY EQ. & POWER	NORMAL POWER USE		ELECTRICAL LOAD							EQUIPMENT			STARTER				DISCONNECT			CONTROL				FFCP				
EQUIPMENT TAG	QUANTITY	LOCATION	DESCRIPTION	SUMMER	WINTER	SUMMER	WINTER		SUMMER	WINTER	MCA	FLA	KW	HP	V	PH	Hz	S	I	C	S	I	C	TYPE	S	I	C	S	I	C	TYPE	AUTO ON	AUTO OFF	PNL SWITCH	STATUS	NOTES
FCU-L2-06		LIBRARY MPR	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)						YES	YES			0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L2-07		COMM RM	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)										0.2	0.3	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L2-08		MPR (S)	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)						YES	YES			0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L2-09		TEEN ROOOM	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)						YES	YES			0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L2-10		LIBRARY (N)	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)						YES	YES			0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L2-11		LIBRARY (N)	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)										0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L2-12		LIBRARY (N)	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)										0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L2-13		LIBRARY (S)	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)						YES	YES			0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L2-14		LIBRARY (S)	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)						YES	YES			0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L2-15		LIBRARY (S)	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)										0.25	0.5	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-L2-16		SUB ELEC	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)										0.2	0.3	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-P1-01		REFER TO FLOOR PLAN	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)						YES	YES					208			M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-P1-02		REFER TO FLOOR PLAN	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)						YES	YES					208			M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-P2-01		REFER TO FLOOR PLAN	FAN COIL UNIT (2 PIPE)						YES	YES			0.2	0.3	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-P2-02		REFER TO FLOOR PLAN	FAN COIL UNIT (2 PIPE)						YES	YES			0.2	0.3	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FCU-P2-03		REFER TO FLOOR PLAN	FAN COIL UNIT (2 PIPE, C/W 6-WAYS VALVE)						YES	YES			0.2	0.3	208	1	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
FANS																																				
CF-FIT-1		FITNESS AND WEIGHTS	CEILING FAN						YES	YES				2	208	3		M	M	M	M	M	E	ECM	E	E	E	M	M	M	BMS					
CF-FIT-2		FITNESS AND WEIGHTS	CEILING FAN						YES	YES				2	208	3		M	M	M	M	M	E	ECM	E	E	E	M	M	M	BMS					
CF-FIT-3		FITNESS AND WEIGHTS	CEILING FAN						YES	YES				5	208	3		M	M	M	M	M	E	ECM	E	E	E	M	M	M	BMS					
CF-FIT-4		FITNESS AND WEIGHTS	CEILING FAN						YES	YES				2	208	3		M	M	M	M	M	E	ECM	E	E	E	M	M	M	BMS					
CF-FIT-5		FITNESS AND WEIGHTS	CEILING FAN						YES	YES				2	208	3		M	M	M	M	M	E	ECM	E	E	E	M	M	M	BMS					
CF-GYM-1		GYMNASIUM	CEILING FAN	YES		YES			YES	YES				2	208	3		M	M	M	M	M	E	ECM	E	E	E	M	M	M	BMS					
CF-GYM-2		GYMNASIUM	CEILING FAN	YES		YES			YES	YES				2	208	3		M	M	M	M	M	E	ECM	E	E	E	M	M	M	BMS					
CF-GYM-3		GYMNASIUM	CEILING FAN	YES		YES			YES	YES				2	208	3		M	M	M	M	M	E	ECM	E	E	E	M	M	M	BMS					
CF-GYM-4		GYMNASIUM	CEILING FAN	YES		YES			YES	YES				2	208	3		M	M	M	M	M	E	ECM	E	E	E	M	M	M	BMS					
EF-P1-1		P1 STORAGE RM	CABINET EXHAUST FAN SQ-FAN DIRECT DRIVE						YES	YES				2	208	3		M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
EF-P1-2		P1 STORAGE RM	CABINET EXHAUST FAN SQ-FAN DIRECT DRIVE						YES	YES				2	208	3		M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
EF-P1-3		P1 COMM RM	CABINET EXHAUST FAN	YES	YES				YES	YES				0.25	208	1		M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
EF-P1-4		P1 ELEV. CONTROL ROOM	CABINET EXHAUST FAN	YES	YES				YES	YES				0.25	208	1		M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
EF-P2-1		P2 WATER ENTRY ROOM	CABINET EXHAUST FAN						YES	YES				0.5	208	1		M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
EF-P2-2		P2 BIKE STORAGE RM	CABINET EXHAUST FAN						YES	YES				0.5	208	1		M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
EF-P2-3		P2 ELEV. CONTROL ROOM	CABINET EXHAUST FAN	YES	YES				YES	YES				0.25	208	1		M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
EF-P2-4		P2 MECHANICAL RM	CABINET EXHAUST FAN SQ-FAN DIRECT DRIVE						YES	YES				2	208	3		M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
EF-P2-5		P2 COMM RM	CABINET EXHAUST FAN						YES	YES				0.25	208	1		M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
EF-P2-6		CHEMICALS P211	ACID PH BALANCE EXHAUST FAN	YES	YES				YES	YES				0.5	208	1		M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
EF-P2-7		CHEMICALS P211	CO2 ROOM EXHAUST FAN	YES	YES				YES	YES				3	208	3		M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
EF-R-1		CL2 ROOM	GAS CHLORINE EXHAUST FAN	YES	YES				YES	YES				0.5	208	1		M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
EF-SA-01		SAUNA	SAUNA PURGE FAN																																	
EF-ST-01		STEAM ROOM	STEAM ROOM PURGE FAN																																	
KEF-R-1		ROOF-NORTH	KITCHEN EXHAUST FAN						YES	YES				5	208	3		M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
SF-P2-01		P2-POOL MECH. RM	CABINET SUPPLY FAN FOR STAIR #1 CO VESTIBULE	YES	YES				YES	YES				1	575	3		M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
SF-P2-02		P2-POOL MECH. RM	CABINET SUPPLY FAN FOR STAIR #2 CO VESTIBULE	YES	YES				YES	YES				1	575	3		M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
SF-P2-03		P2-PARKADE SOUTH	CABINET SUPPLY FAN FOR STAIR #3 CO VESTIBULE	YES	YES				YES	YES				1	575	3		M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
SF-P2-03		P2-PARKADE SOUTH	CABINET SUPPLY FAN FOR STAIR #3 CO VESTIBULE	YES	YES				YES	YES				1	575	3		M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
SF-P2-04		P2-PARKADE-NE	CABINET SUPPLY FAN FOR STAIR #4 CO VESTIBULE	YES	YES				YES	YES				1	575	3		M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
TF-L1-01		MPR DRY STORAGE																																		
TF-L1-02		COMM KITCHEN STORAGE																																		
TF-L1-03		ACTIVE STUDIO																																		
TF-L1-04		GYM STORAGE																																		
TF-L2-01		MPR DRY STORAGE																																		
FANS PARKADE																																				
PEF-P1-1		PARKADE P1	PARKADE EXHAUST FAN FOR P1	YES	YES				YES	YES				7.5	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
PEF-P2-1		PARKADE P1	PARKADE EXHAUST FAN FOR P1	YES	YES				YES	YES				7.5	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
PTF-P1-1		PARKADE P1	PARKADE TRANSFER FAN (MIXED FLOW JET FAN)						YES	YES				1	208	1		M	M	M	M	M	E	ECM	E	E	E	M	M	M	BMS					
PTF-P1-2		PARKADE P1	PARKADE TRANSFER FAN (MIXED FLOW JET FAN)						YES	YES				1	208	1		M	M	M	M	M	E	ECM	E	E	E	M	M	M	BMS					
PTF-P1-3		PARKADE P1	PARKADE TRANSFER FAN (MIXED FLOW JET FAN)						YES	YES				1	208	1		M	M	M	M	M	E	ECM	E	E	E	M	M	M	BMS					
PTF-P1-4		PARKADE P1	PARKADE TRANSFER FAN (MIXED FLOW JET FAN)						YES	YES				1	208	1		M	M	M	M	M	E	ECM	E	E	E	M	M	M	BMS					
PTF-P2-1		PARKADE P2	PARKADE TRANSFER FAN (MIXED FLOW JET FAN)						YES	YES				1	208	1		M	M	M	M	M	E	ECM	E	E	E	M	M	M	BMS					
PTF-P2-2		PARKADE P2	PARKADE TRANSFER FAN (MIXED FLOW JET FAN)						YES	YES				1	208	1		M	M	M	M	M	E	ECM	E	E	E	M	M	M	BMS					
PTF-P2-3		PARKADE P2	PARKADE TRANSFER FAN (MIXED FLOW JET FAN)						YES	YES				1	208	1		M	M	M	M	M	E	ECM	E	E	E	M	M	M	BMS					
PTF-P2-4		PARKADE P2	PARKADE TRANSFER FAN (MIXED FLOW JET FAN)						YES	YES				1	208	1		M	M	M	M	M	E	ECM	E	E	E	M	M	M	BMS					
PTF-P2-5		PARKADE P2	PARKADE TRANSFER FAN (MIXED FLOW JET FAN)						YES	YES				1	208	1		M	M	M	M	M	E	ECM	E	E	E	M	M	M	BMS					
FORCEFLOW HEATER (HYDRONIC)																																				
FFH-P2-1		P2 WATER ENTRY ROOM	FORCE FLOW HEATER (HYDRONIC)						-	YES				0.3	208	1		M	M	M	M	M	E	ECM	E	E	E	M	M	M	BMS					
FFH-P2-2		P2 MECH. RM	FORCE FLOW HEATER (HYDRONIC)						-	YES				0.3	208	1		M	M	M	M	M	E	ECM	E	E	E	M	M	M	BMS					
FFH-P2-3		P2 MECH. RM	FORCE FLOW HEATER (HYDRONIC)						-	YES				0.3	208	1		M	M	M	M	M	E	ECM	E	E	E	M	M	M	BMS					
HRV																																				
HRV-CHAN-1		ROOF-SOUTH	HEAT RECOVERY UNIT FOR CHANGE ROOMS						YES	YES				20	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
HRV-LOBBY-1		ROOF LEVEL NORTHWEST	HEAT RECOVERY UNIT FOR LOBBY (FOR SHELTER)	YES	YES	YES	YES		YES	YES				20	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
HRV-NMPR-LIB-1		ROOF LEVEL NORTHWEST	HEAT RECOVERY UNIT FOR LIBRARY & MPR (FOR SHELTER)	YES	YES	YES	YES		YES	YES				32	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
HRV-POOL-M-1		P2-POOL MECH. RM	HEAT RECOVERY UNIT FOR POOL MECH. RM						YES	YES				20	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
PUMP - HVAC																																				
P-ASHP-1		P2 MECH. RM	CHILLED WATER- PRIMARY EVAP PUMP -ASHP	YES	-	YES	-		YES	YES				10	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-ASHP-2		P2 MECH. RM	CHILLED WATER- PRIMARY EVAP PUMP -ASHP	YES	-	YES	-		YES	-				10	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-ASHP-3		P2 MECH. RM	CHILLED WATER- PRIMARY EVAP PUMP -ASHP					STANDBY	-	-				10	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-ASHP-4		P2 MECH. RM	HEATING WATER- LOW GRADE-PRIMARY COND PUMP -ASHP	-	YES	-	YES		YES	YES				10	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-ASHP-5		P2 MECH. RM	HEATING WATER-LOW GRADE- PRIMARY COND PUMP -ASHP	-	YES	-	YES		-	YES				10	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-ASHP-6		P2 MECH. RM	HEATING WATER-LOW GRADE- PRIMARY COND PUMP -ASHP					STANDBY	-	-				10	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-B-1		P2 MECH. RM	HEATING WATER- HIGH GRADE ELEC BOILER CIRCULATION PUMP	YES	YES	YES	YES		YES	YES				2.	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-B-2		P2 MECH. RM	HEATING WATER- HIGH GRADE ELEC BOILER CIRCULATION PUMP	-	-	-	-	-	-	YES				2.	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					

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Key Plan

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Burke Mountain Community Centre (BMCC)

Clien
City of Coquitlam

Site
Burke Mountain, Coquitlam, BC

Sheet title
MOTORLIST II

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M002

NOT FOR CONSTRUCTION

MECHANICAL MOTORLIST

SUPPLIER/INSTALL/WIRE CODES:

M - MECHANICAL
E - ELECTRICAL
G - GENERAL CONTRACTOR

STARTER CODES:

MAN - MANUAL STARTER
MAG - MAGNETIC STARTER W/ HOA SWITCH W/ AUX. CONTACTS
MRR - MOTOR RATED RELAY, 24 VAC COIL
PCS - PACKAGED CONTROL SYSTEM
VSD - VARIABLE SPEED DRIVE
RVS - REDUCED VOLTAGE STARTER
WS - WALL SWITCH
CP - CONTROL PANEL

CONTROL DEVICE CODES:

BMS - BLDG MANAGEMENT SYSTEM
ES - END SWITCH
ET - LINE VOLTAGE T'STAT
FA - FIRE ALARM
FS - FLOW SWITCH
GS - GAS SENSOR
H - HUMIDITY SENSOR
I - INTERLOCK, SEE NOTES
LS - LEVEL SWITCH
TC - TIME CLOCK
T - LOW VOLTAGE T'STAT OR SENSOR
TS - TAMPER SWITCH
VS - VARIABLE SPEED SWITCH
WS - WALL SWITCH
FAP - FIRE ALARM PANEL
DDC - DIRECT DIGITAL CONTROL
PCS - PACKAGED CONROL SYSTEM

INT - INTEGRAL MANUAL STARTER

LOCATION CODES:

1 - AT OR NEAR MOTOR
2 - MOTOR CONTROL CENTRE
3 - EQUIPMENT ROOM
4 - ELECTRICAL ROOM
5 - AS SHOWN ON DRAWINGS

MISCELLANEOUS CODES:

FFCP - FIRE FIGHTERS CONTROL PANEL
FRAC = FRACTIONAL HORSEPOWER
INT = INTEGRAL PART OF UNIT

NOTES:

1. SINGLE POINT POWER CONNECTION (EXCEPT FOR LIGHTS)
2. PROVIDE SEPARATE 120V CIRCUIT FOR MARINE LIGHTS AND CONVENIENCE OUTLET
3. 120V TO 240V HARDWIRED TRANSFORMER
4. PROVIDE 120V RECEPTACLE FOR PLUG-IN TRANSFORMER
5. AIR CURTAIN TO BE OPERATED BY DOOR SWITCH AND 24V CONTROLS
6. INDOOR UNIT TO BE POWERED BY OUTDOOR UNIT
7. TRAP PRIMERS WILL BE SOLENOID STYLE AND EACH WILL REQUIRE POWER
8. PROVIDE GASKOL BOILER/WATER HEATER EMERGENCY STOP BUTTON AT MECH ROOM DOOR
9. REFER TO ALTERNATE SOLUTION REPORT FOR DETAILS
10. FAN TO BE INTERLOCKED WITH DISHWASHER
11. UNIT TO SHUT DOWN ON CALL FROM KITCHEN HOOD FIRE SUPPRESSION SYSTEM
12. REQUIRES RECEPTACLE
13. SPRINKLER ZONE VALVES AND FLOW SWITCHES TO BE MONITORED BY THE FIRE ALARM SYSTEM
14. FIRE ALARM PANEL TO HAVE DRY CONTACT FOR BMS
15. SMOKE DETECTOR REQUIRED IN RETURN DUCT MAIN
16. POWER 2 BMS PANELS PER FLOOR & 2 PANELS IN PENTHOUSE
17. LENGTH AND QUANTITY OF HEAT TRACING TO BE PROVIDED BY OTHERS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LENGTH AND LOCATION AND NUMBER OF CONTROLLERS WITH THE PIPEWORK THAT HAS BEEN SHOWN OF THE MECHANICAL DRAWINGS.

				EMERGENCY POWER		SHELTER USE		STANDBY EQ. & POWER	NORMAL POWER USE		ELECTRICAL LOAD							EQUIPMENT			STARTER				DISCONNECT			CONTROL				FFCP					
EQUIPMENT TAG	QUANTITY	LOCATION	DESCRIPTION	SUMMER	WINTER	SUMMER	WINTER		SUMMER	WINTER	MCA	FLA	KW	HP	V	PH	Hz	S	I	C	S	I	C	TYPE	S	I	C	S	I	C	TYPE	AUTO ON	AUTO OFF	PNL SWITCH	STATUS	NOTES
P-B-3		P2 MECH. RM	HEATING WATER- HIGH GRADE ELEC BOILER CIRCULATION PUMP						-	YES				2.	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-CHW-P-1		P2 MECH. RM	CHILLED WATER- SECONDARY PUMP	YES	-	YES	-		YES	YES				15	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-CHW-P-2		P2 MECH. RM	CHILLED WATER- SECONDARY PUMP					STANDBY	-	-				15	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-CHW-S-1		P2 MECH. RM	CHILLED WATER- SECONDARY PUMP	YES	-	YES	-		YES	YES				30	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-CHW-S-2		P2 MECH. RM	CHILLED WATER- SECONDARY PUMP						YES	-				30	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-CHW-S-3		P2 MECH. RM	CHILLED WATER- SECONDARY PUMP					STANDBY	-	-				30	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-GLY-1		P2 MECH. RM	GLYCOL TANK PUMP						YES	YES				1	208	1	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-HHW-S-1		P2 MECH. RM	HEATING WATER- HIGH GRADE SECONDARY PUMP						YES	YES				5	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-HHW-S-2		P2 MECH. RM	HEATING WATER- HIGH GRADE SECONDARY PUMP					STANDBY	-	-				5	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-HHW-S-3		P2 MECH. RM	HEATING WATER- HIGH GRADE SECONDARY PUMP	YES	YES	YES	YES		YES	YES				5	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-LHW-P-1		P2 MECH. RM	HEATING WATER- PRIMARYCOND PUMP -LOW GRADE	YES	YES	YES	YES		YES	YES				10	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-LHW-P-2		P2 MECH. RM	HEATING WATER- PRIMARYCOND PUMP -LOW GRADE					STANDBY						10	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-LHW-S-1		P2 MECH. RM	HEATING WATER- SECONDARY PUMP -LOW GRADE	YES	YES	YES	YES		YES	YES				10	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-LHW-S-2		P2 MECH. RM	HEATING WATER- SECONDARY PUMP -LOW GRADE						-	YES				10	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-LHW-S-3		P2 MECH. RM	HEATING WATER- SECONDARY PUMP -LOW GRADE					STANDBY	-	-				10	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-LHW-S-4		P2 MECH. RM	HEATING WATER- SECONDARY PUMP -LOW GRADE - FOR POOL & DCW	YES	YES	YES	YES		YES	YES				5	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-LHW-S-5		P2 MECH. RM	HEATING WATER- SECONDARY PUMP -LOW GRADE - FOR POOL & DCW					STANDBY	-	-				5	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-WWHP-H1		P2 MECH. RM	HEATING WATER- HIGH GRADE WWHP EVAP PUMP						YES	YES				5	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-WWHP-H2		P2 MECH. RM	HEATING WATER- HIGH GRADE WWHP EVAP PUMP						YES	YES				5	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-WWHP-H3		P2 MECH. RM	HEATING WATER- HIGH GRADE WWHP EVAP PUMP						YES	YES				5	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-WWHP-H4		P2 MECH. RM	HEATING WATER- HIGH GRADE WWHP EVAP PUMP						YES	YES				5	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-WWHP-H5		P2 MECH. RM	HEATING WATER- HIGH GRADE WWHP COND PUMP						YES	YES				5	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-WWHP-H6		P2 MECH. RM	HEATING WATER- HIGH GRADE WWHP COND PUMP						YES	YES				5	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-WWHP-H7		P2 MECH. RM	HEATING WATER- HIGH GRADE WWHP COND PUMP						YES	YES				5	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-WWHP-H8		P2 MECH. RM	HEATING WATER- HIGH GRADE WWHP COND PUMP						YES	YES				5	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-WWHP-L1		P2 MECH. RM	CHILLED WATER- WWHP-LOW-GRADE EVAP PUMP						YES	YES				7.5	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-WWHP-L2		P2 MECH. RM	CHILLED WATER- WWHP-LOW-GRADE EVAP PUMP						YES	YES				7.5	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-WWHP-L3		P2 MECH. RM	CHILLED WATER- WWHP-LOW-GRADE EVAP PUMP					STANDBY						7.5	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-WWHP-L4		P2 MECH. RM	CHILLED WATER- WWHP-LOW-GRADE COND PUMP						YES	YES				7.5	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-WWHP-L5		P2 MECH. RM	CHILLED WATER- WWHP-LOW-GRADE COND PUMP						YES	YES				7.5	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-WWHP-L6		P2 MECH. RM	CHILLED WATER- WWHP-LOW-GRADE COND PUMP					STANDBY						7.5	575	3	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
PUMP - PLUMBING																																				
P-DHW-1		P2 MECH. RM	DCW PREHEAT CIRCULATION PUMP	YES	YES	YES	YES		YES	YES				2.	208	1	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-DHW-2		P2 MECH. RM	DCW PREHEAT CIRCULATION PUMP					STANDBY	YES	YES				2.	208	1	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-DHW-3		P2 MECH. RM	DHW FINAL HEAT CIRCULATION PUMP	YES	YES	YES	YES		YES	YES				2.	208	1	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-DHW-4		P2 MECH. RM	DHW FINAL HEAT CIRCULATION PUMP					STANDBY	YES	YES				2.	208	1	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
P-DHWR-1		P2 MECH. RM	DHW RE-CIRCULATION PUMP	YES	YES	YES	YES		YES	YES				1	208	1	60	M	M	M	M	M	E	VFD	E	E	E	M	M	M	BMS					
VAV SUPPLY WITHOUT COIL																																				
VAV-L1-R-01		MPR DRY	VAV FOR SPACE											0.1	120	1	60	M	M	M	M	M	M	PCS	E	E	E	M	M	M	BMS					
VAV-L1-R-02		COMM KITCHEN	VAV FOR SPACE											0.1	120	1	60	M	M	M	M	M	M	PCS	E	E	E	M	M	M	BMS					
VAV-L1-R-03		MPR WET	VAV FOR SPACE											0.1	120	1	60	M	M	M	M	M	M	PCS	E	E	E	M	M	M	BMS					
VAV-L1-R-04		ACTIVE STUDIO	VAV FOR SPACE											0.1	120	1	60	M	M	M	M	M	M	PCS	E	E	E	M	M	M	BMS					
VAV-L1-R-05		ACTIVE STUDIO	VAV FOR SPACE											0.1	120	1	60	M	M	M	M	M	M	PCS	E	E	E	M	M	M	BMS					
VAV-L1-S-01		MPR DRY	VAV FOR SPACE											0.1	120	1	60	M	M	M	M	M	M	PCS	E	E	E	M	M	M	BMS					
VAV-L1-S-02		COMM KITCHEN	VAV FOR SPACE											0.1	120	1	60	M	M	M	M	M	M	PCS	E	E	E	M	M	M	BMS					
VAV-L1-S-03		MPR WET	VAV FOR SPACE											0.1	120	1	60	M	M	M	M	M	M	PCS	E	E	E	M	M	M	BMS					
VAV-L1-S-04		ACTIVE STUDIO	VAV FOR SPACE						YES	YES				0.1	120	1	60	M	M	M	M	M	M	PCS	E	E	E	M	M	M	BMS					
VAV-L2-R-01		UPPER LOBBY																																		
VAV-L2-R-02		UPPER LOBBY																																		
VAV-L2-R-03		ADMIN AREA	VAV FOR SPACE											0.1	120	1	60	M	M	M	M	M	M	PCS	E	E	E	M	M	M	BMS					
VAV-L2-R-04		LIBRARY MPR	VAV FOR SPACE											0.1	120	1	60	M	M	M	M	M	M	PCS	E	E	E	M	M	M	BMS					
VAV-L2-R-05		GROUP STUDY	VAV FOR SPACE											0.1	120	1	60	M	M	M	M	M	M	PCS	E	E	E	M	M	M	BMS					
VAV-L2-R-06		GROUP STUDY	VAV FOR SPACE											0.1	120	1	60	M	M	M	M	M	M	PCS	E	E	E	M	M	M	BMS					
VAV-L2-R-07		GROUP STUDY	VAV FOR SPACE											0.1	120	1	60	M	M	M	M	M	M	PCS	E	E	E	M	M	M	BMS					
VAV-L2-R-08		MPR (S)	VAV FOR SPACE											0.1	120	1	60	M	M	M	M	M	M	PCS	E	E	E	M	M	M	BMS					
VAV-L2-R-09		TEEN ROOM	VAV FOR SPACE											0.1	120	1	60	M	M	M	M	M	M	PCS	E	E	E	M	M	M	BMS					
VAV-L2-R-10		LIBRARY (N)	VAV FOR SPACE											0.1	120	1	60	M	M	M	M	M	M	PCS	E	E	E	M	M	M	BMS					
VAV-L2-R-11		LIBRARY (S)	VAV FOR SPACE											0.1	120	1	60	M	M	M	M	M	M	PCS	E	E	E	M	M	M	BMS					
VAV-L2-S-01		UPPER LOBBY																																		
VAV-L2-S-02		UPPER LOBBY																																		
VAV-L2-S-03		ADMIN AREA	VAV FOR SPACE											0.1	120	1	60	M	M	M	M	M	M	PCS	E	E	E	M	M	M	BMS					
VAV-L2-S-04		LIBRARY MPR	VAV FOR SPACE						YES	YES				0.1	120	1	60	M	M	M	M	M	M	PCS	E	E	E	M	M	M	BMS					
VAV-L2-S-05		GROUP STUDY	VAV FOR SPACE											0.1	120	1	60	M	M	M	M	M	M	PCS	E	E	E	M	M	M	BMS					
VAV-L2-S-06		GROUP STUDY	VAV FOR SPACE											0.1	120	1	60	M	M	M	M	M	M	PCS	E	E	E	M	M	M	BMS					
VAV-L2-S-07		GROUP STUDY	VAV FOR SPACE											0.1	120	1	60	M	M	M	M	M	M	PCS	E	E	E	M	M	M	BMS					
VAV-L2-S-08		MPR (S)	VAV FOR SPACE											0.1	120	1	60	M	M	M	M	M	M	PCS	E	E	E	M	M	M	BMS					
VAV-L2-S-09		TEEN ROOM	VAV FOR SPACE						YES	YES				0.1	120	1	60	M	M	M	M	M	M	PCS	E	E	E	M	M	M	BMS					
VAV-L2-S-10		LIBRARY (N)	VAV FOR SPACE											0.1	120	1	60	M	M	M	M	M	M	PCS	E	E	E	M	M	M	BMS					
VAV-L2-S-11		LIBRARY (S)	VAV FOR SPACE											0.1	120	1	60	M	M	M	M	M	M	PCS	E	E	E	M	M	M	BMS					
WWHP																																				
WWHP-H-1		P2 MECH. RM	WATER TO WATER HEAT PUMP - HIGH GRADE						YES	YES	-	-	32		460	3	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
WWHP-H-2		P2 MECH. RM	WATER TO WATER HEAT PUMP - HIGH GRADE						YES	YES	-	-	32		460	3	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
WWHP-H-3		P2 MECH. RM	WATER TO WATER HEAT PUMP - HIGH GRADE						YES	YES	-	-	32		460	3	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
WWHP-H-4		P2 MECH. RM	WATER TO WATER HEAT PUMP - HIGH GRADE						YES	YES	-	-	32		460	3	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
WWHP-L-1		P2 MECH. RM	WATER TO WATER HEAT PUMP - LOW GRADE						YES	YES	219	174	166		575	3	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
WWHP-L-2		P2 MECH. RM	WATER TO WATER HEAT PUMP - LOW GRADE						YES	YES	219	174	166		575	3	60	M	M	M	M	M	E	PCS	E	E	E	M	M	M	BMS					
MISCELLANEOUS																																				
COMP-P2-1	-	P2 WATER ENTRY ROOM	FIRE- AIR COMPRESSOR	YES	YES	YES	YES		YES	YES	-	-	-	2	208	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DDC-P2-1	-	P2 MECH. RM	DDC POWER	YES	YES				YES	YES	-	-	-	-	120	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DDC-RF-1		ROOF LEVLE NW	DDC POWER	YES	YES				YES	YES	-	-	-	-	120	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DDC-RF-2	-	ROOF LEVEL S	DDC POWER	YES	YES				YES	YES	-	-	-	-	120	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Key Plan

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Burke Mountain Community Centre (BMCC)

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City of Coquitlam

Site
Burke Mountain, Coquitlam, BC

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MOTORLIST III

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MECHANICAL MOTORLIST

SUPPLIER/INSTALL/WIRE CODES:

M - MECHANICAL
E - ELECTRICAL
G - GENERAL CONTRACTOR

STARTER CODES:

MAN - MANUAL STARTER
MAG - MAGNETIC STARTER W/ HOA SWITCH W/ AUX. CONTACTS
MRR - MOTOR RATED RELAY, 24 VAC COIL
PCS - PACKAGED CONTROL SYSTEM
VSD - VARIABLE SPEED DRIVE
RVS - REDUCED VOLTAGE STARTER
WS - WALL SWITCH
CP - CONTROL PANEL

CONTROL DEVICE CODES:

BMS - BLDG MANAGEMENT SYSTEM
ES - END SWITCH
ET - LINE VOLTAGE T'STAT
FA - FIRE ALARM
FS - FLOW SWITCH
GS - GAS SENSOR
H - HUMIDITY SENSOR
I - INTERLOCK, SEE NOTES
LS - LEVEL SWITCH
TC - TIME CLOCK
T - LOW VOLTAGE T'STAT OR SENSOR
TS - TAMPER SWITCH
VS - VARIABLE SPEED SWITCH
WS - WALL SWITCH
FAP - FIRE ALARM PANEL
DDC - DIRECT DIGITAL CONTROL
PCS - PACKAGED CONROL SYSTEM

INT - INTEGRAL MANUAL STARTER

LOCATION CODES:

1 - AT OR NEAR MOTOR
2 - MOTOR CONTROL CENTRE
3 - EQUIPMENT ROOM
4 - ELECTRICAL ROOM
5 - AS SHOWN ON DRAWINGS

MISCELLANEOUS CODES:

FFCP - FIRE FIGHTERS CONTROL PANEL
FRAC = FRACTIONAL HORSEPOWER
INT = INTEGRAL PART OF UNIT

NOTES:

1. SINGLE POINT POWER CONNECTION (EXCEPT FOR LIGHTS)
2. PROVIDE SEPARATE 120V CIRCUIT FOR MARINE LIGHTS AND CONVENIENCE OUTLET
3. 120V TO 240V HARDWIRED TRANSFORMER
4. PROVIDE 120V RECEPTACLE FOR PLUG-IN TRANSFORMER
5. AIR CURTAIN TO BE OPERATED BY DOOR SWITCH AND 24V CONTROLS
6. INDOOR UNIT TO BE POWERED BY OUTDOOR UNIT
7. TRAP PRIMERS WILL BE SOLENOID STYLE AND EACH WILL REQUIRE POWER
8. PROVIDE GASOIL BOILER/WATER HEATER EMERGENCY STOP BUTTON AT MECH ROOM DOOR
9. REFER TO ALTERNATE SOLUTION REPORT FOR DETAILS
10. FAN TO BE INTERLOCKED WITH DISHWASHER
11. UNIT TO SHUT DOWN ON CALL FROM KITCHEN HOOD FIRE SUPPRESSION SYSTEM
12. REQUIRES RECEPTACLE
13. SPRINKLER ZONE VALVES AND FLOW SWITCHES TO BE MONITORED BY THE FIRE ALARM SYSTEM
14. FIRE ALARM PANEL TO HAVE DRY CONTACT FOR BMS
15. SMOKE DETECTOR REQUIRED IN RETURN DUCT MAIN
16. POWER 2 BMS PANELS PER FLOOR & 2 PANELS IN PENTHOUSE
17. LENGTH AND QUANTITY OF HEAT TRACING TO BE PROVIDED BY OTHERS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LENGTH AND LOCATION AND NUMBER OF CONTROLLERS WITH THE PIPEWORK THAT HAS BEEN SHOWN OF THE MECHANICAL DRAWINGS.

EQUIPMENT TAG	QUANTITY	LOCATION	DESCRIPTION	EMERGENCY POWER		SHELTER USE		STANDBY EQ. & POWER	NORMAL POWER USE		ELECTRICAL LOAD				V	PH	Hz	EQUIPMENT			STARTER				DISCONNECT			CONTROL				FFCP					NOTES
				SUMMER	WINTER	SUMMER	WINTER		SUMMER	WINTER	MCA	FLA	KW	HP				S	I	C	S	I	C	TYPE	S	I	C	S	I	C	TYPE	AUTO ON	AUTO OFF	PNL SWITCH	STATUS	
DZ-XX	-	VARIES	DRY ZONE CONTROL VALVE	YES	YES	YES	YES		YES	YES	-	-	-	2	208	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F-L1-1	-	REFER TO FLOOR PLAN	POWER FOR LAV AND FLUSH VALVES	YES	YES				YES	YES	-	-	-	-	120	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F-L1-2	-	REFER TO FLOOR PLAN	POWER FOR LAV AND FLUSH VALVES	YES	YES				YES	YES	-	-	-	-	120	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F-L1-3	-	REFER TO FLOOR PLAN	POWER FOR LAV AND FLUSH VALVES	YES	YES				YES	YES	-	-	-	-	120	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F-L1-4	-	REFER TO FLOOR PLAN	POWER FOR LAV AND FLUSH VALVES	YES	YES				YES	YES	-	-	-	-	120	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F-L1-5	-	REFER TO FLOOR PLAN	POWER FOR LAV AND FLUSH VALVES	YES	YES				YES	YES	-	-	-	-	120	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F-L1-6	-	REFER TO FLOOR PLAN	POWER FOR LAV AND FLUSH VALVES	YES	YES				YES	YES	-	-	-	-	120	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F-L1-7	-	REFER TO FLOOR PLAN	POWER FOR LAV AND FLUSH VALVES	YES	YES				YES	YES	-	-	-	-	120	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F-L1-8	-	REFER TO FLOOR PLAN	POWER FOR LAV AND FLUSH VALVES	YES	YES				YES	YES	-	-	-	-	120	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F-L2-1	-	REFER TO FLOOR PLAN	POWER FOR LAV AND FLUSH VALVES	YES	YES				YES	YES	-	-	-	-	120	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F-L2-2	-	REFER TO FLOOR PLAN	POWER FOR LAV AND FLUSH VALVES	YES	YES				YES	YES	-	-	-	-	120	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FS-XX	-	P2 WATER ENTRY ROOM	FIRE- AIR COMPRESSOR	YES	YES	YES	YES		YES	YES	-	-	-	2	208	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HT-P1-1	-	P2 PARKADE	HEAT TRACE	-	YES				YES	YES	-	-	-	-	120	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17
HT-P1-2	-	P2 PARKADE	HEAT TRACE	-	YES				YES	YES	-	-	-	-	120	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17
HT-P2-1	-	P2 PARKADE	HEAT TRACE	-	YES				YES	YES	-	-	-	-	120	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17
HT-P2-2	-	P2 PARKADE	HEAT TRACE	-	YES				YES	YES	-	-	-	-	120	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17
HT-RF-1	-	ROOF LEVLE NW	HEAT TRACE	-	YES				YES	YES	-	-	-	-	120	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17
HT-RF-2	-	ROOF LEVEL S	HEAT TRACE	-	YES				YES	YES	-	-	-	-	120	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17
MD-XX	-	VARIES	MOTORIZED DAMPER	YES	YES	YES	YES		YES	YES	-	-	-	-	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P-FCU-COND	41	REFER TO FCU ON FLOOR PLAN	CONDENSATE PUMP FOR EACH FCU						YES	YES	-	-	0.1 KW	-	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SERV-RF-1		ROOF LEVLE NW	SERVICE POWER						YES	YES	-	-	-	-	120	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SERV-RF-2	-	ROOF LEVEL S	SERVICE POWER						YES	YES	-	-	-	-	120	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP-XX	-	VARIOUS	ELECTRIC TRAP PRIMER	-	-	-	-		YES	YES	-	-	-	-	120	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TS-XX	-	P2 WATER ENTRY ROOM	TAMPER SWITCH	YES	YES	YES	YES		YES	YES	-	-	-	FRAC	120	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WZ-XX	-	VARIOUS	WET ZONE CONTROL VALVE	YES	YES	YES	YES		YES	YES	-	-	-	FRAC	120	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Project title
Burke Mountain Community Centre (BMCC)

Clien
City of Coquitlam

Site
Burke Mountain, Coquitlam, BC

Sheet title
MOTORLIST IV

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BASEBOARD HEATERS

NOTES:
1. REFER TO MOTORLIST FOR ELECTRICAL REQUIREMENTS

EQUIPMENT TAG	DESCRIPTION	LOCATION	MANUFACTURER	MODEL	TYPE	MOUNTING TYPE	CAPACITY (KW)	POWER V	PH	HZ	NOTES
BBH-750W	ELECTRIC BASEBOARD HEATER	STAIR ST4-P2					0.75				
BBH-750W	ELECTRIC BASEBOARD HEATER	STAIR D-P2					0.75				
BBH-750W	ELECTRIC BASEBOARD HEATER	STAIR C-P2					0.75				
BBH-1000W	ELECTRIC BASEBOARD HEATER	VEST P215					1				
BBH-1000W	ELECTRIC BASEBOARD HEATER	VEST P106					1				
BBH-1000W	ELECTRIC BASEBOARD HEATER	VEST P105					1				
BBH-1000W	ELECTRIC BASEBOARD HEATER	VEST P213					1				
BBH-1000W	ELECTRIC BASEBOARD HEATER	EXIT CORR P216					1				
BBH-1000W	ELECTRIC BASEBOARD HEATER	EXIT CORR P216					1				
BBH-1000W	ELECTRIC BASEBOARD HEATER	VEST P213					1				
BBH-1500W	ELECTRIC BASEBOARD HEATER	VEST P201					1.5				
BBH-1500W	ELECTRIC BASEBOARD HEATER	VEST P108					1.5				
BBH-1500W	ELECTRIC BASEBOARD HEATER	VEST P101					1.5				

FANS

NOTES:
1. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION
2. REFER TO MOTORLIST FOR ELECTRICAL REQUIREMENTS
3. PRODUCT COLOUR TO BE SELECTED BY THE ARCHITECT DURING SHOP DRAWING SUBMITTAL PROCESS
4. C/W GAS DETECTION SYSTEM
5. FACTORY ALUMINUM GRAVITY DAMPER
6. FACTORY MOUNSTED SPEED CONTROL DIAL ON FAN FOR BALANCING
7. ECM MOTOR, 0-10 VDC INPUT SIGNAL W/ FACTORY MOUNTED TRANSFORMER C/W LOW VOLTAGE RELAY FOR CONNECTION TO BMS
8. PROVIDE MIN. 14" SEISMIC ROOF CURB
9. MOTOR SIDE GUARD
10. UC/CUL 762 OPTION
11. DRAIN CONNECTION
12. FLANGED INLET & OUTLET
13. ACOUSTICALLY LINED CABINET
14. COMPLETE WITH CUSTOM GUARD RATED FOR GYMNASIUM

co	DESCRIPTION	LOCATION	MANUFACTURER	MODEL	AIRFLOW L/S (CFM)	BHP	E.S.P. (''WC)	DRIVE TYPE	FAN RPM	FAN TYPE	SOUND LEVEL	WEIGHT (KG)	NOTES
CF-FIT-1	CEILING FAN	FITNESS AND WEIGHTS	BIG ASS FANS	ESSENCE 10FT	---	---	---	DIRECT DRIVE	---	CEILING FAN	---	37	3,14
CF-FIT-2	CEILING FAN	FITNESS AND WEIGHTS	BIG ASS FANS	ESSENCE 10FT	---	---	---	DIRECT DRIVE	---	CEILING FAN	---	37	3,14
CF-FIT-3	CEILING FAN	FITNESS AND WEIGHTS	BIG ASS FANS	ESSENCE 10FT	---	---	---	DIRECT DRIVE	---	CEILING FAN	---	37	3,14
CF-FIT-4	CEILING FAN	FITNESS AND WEIGHTS	BIG ASS FANS	ESSENCE 10FT	---	---	---	DIRECT DRIVE	---	CEILING FAN	---	37	3,14
CF-FIT-5	CEILING FAN	FITNESS AND WEIGHTS	BIG ASS FANS	ESSENCE 10FT	---	---	---	DIRECT DRIVE	---	CEILING FAN	---	37	3,14
CF-GYM-1	CEILING FAN	GYMNASIUM	BIG ASS FANS	ESSENCE 12FT	---	---	---	DIRECT DRIVE	---	CEILING FAN	---	40	3,14
CF-GYM-2	CEILING FAN	GYMNASIUM	BIG ASS FANS	ESSENCE 12FT	---	---	---	DIRECT DRIVE	---	CEILING FAN	---	40	3,14
CF-GYM-3	CEILING FAN	GYMNASIUM	BIG ASS FANS	ESSENCE 12FT	---	---	---	DIRECT DRIVE	---	CEILING FAN	---	40	3,14
CF-GYM-4	CEILING FAN	GYMNASIUM	BIG ASS FANS	ESSENCE 12FT	---	---	---	DIRECT DRIVE	---	CEILING FAN	---	40	3,14
EF-P1-1	CABINET EXHAUST FAN SQ-FAN DIRECT DRIVE	P1 STORAGE RM			800		0.25						
EF-P1-2	CABINET EXHAUST FAN SQ-FAN DIRECT DRIVE	P1 STORAGE RM			800		0.25						
EF-P1-3	CABINET EXHAUST FAN	P1 COMM RM			100		0.25						
EF-P1-4	CABINET EXHAUST FAN	P1 ELEV. CONTROL ROOM			100		0.25						
EF-P2-1	CABINET EXHAUST FAN	P2 WATER ENTRY ROOM			400		0.25						
EF-P2-2	CABINET EXHAUST FAN	P2 BIKE STORAGE RM			400		0.25						
EF-P2-3	CABINET EXHAUST FAN	P2 ELEV. CONTROL ROOM			100		0.25						
EF-P2-4	CABINET EXHAUST FAN SQ-FAN DIRECT DRIVE	P2 MECHANICAL RM			2000		0.25						
EF-P2-5	CABINET EXHAUST FAN	P2 COMM RM			100		0.25						
EF-P2-6	ACID PH BALANCE EXHAUST FAN	CHEMICALS P211	GREENHECK	USF	948		1	DIRECT	1385			86	
EF-P2-7	CO2 ROOM EXHAUST FAN	CHEMICALS P211	GREENHECK	USF	948		1	DIRECT	1385			86	
EF-R-1	GAS CHLORINE EXHAUST FAN	CL2 ROOM	GREENHECK	USF	427		2.5	DIRECT	2566			61	
EF-SA-01	SAUNA PURGE FAN	SAUNA			71 (150)		0.25			INLINE			
EF-ST-01	STEAM ROOM PURGE FAN	STEAM ROOM			71 (150)		0.25			INLINE			
KEF-R-1	KITCHEN EXHAUST FAN	ROOF-NORTH											
SF-P2-01	CABINET SUPPLY FAN FOR STAIR #1 CO VESTIBULE	P2-POOL MECH. RM											
SF-P2-02	CABINET SUPPLY FAN FOR STAIR #2 CO VESTIBULE	P2-POOL MECH. RM											
SF-P2-03	CABINET SUPPLY FAN FOR STAIR #3 CO VESTIBULE	P2-PARKADE SOUTH											
SF-P2-03	CABINET SUPPLY FAN FOR STAIR #3 CO VESTIBULE	P2-PARKADE SOUTH											
SF-P2-04	CABINET SUPPLY FAN FOR STAIR #4 CO VESTIBULE	P2-PARKADE-NE											
TF-L1-01		MPR DRY STORAGE			47 (100)								
TF-L1-02		COMM KITCHEN STORAGE			24 (50)								
TF-L1-03		ACTIVE STUDIO			236 (500)								
TF-L1-04		GYM STORAGE			283 (600)								
TF-L2-01		MPR DRY STORAGE			24 (50)								

FANS (PARKADE)

NOTES:
1. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION
2. REFER TO MOTORLIST FOR ELECTRICAL REQUIREMENTS
3. PRODUCT COLOUR TO BE SELECTED BY THE ARCHITECT DURING SHOP DRAWING SUBMITTAL PROCESS
4. COORDINATED WITH GAS DETECTION SYSTEM WHICH PROVIDE BY MECH. CONTRACTOR
5. ECM MOTOR, 0-10 VDC INPUT SIGNAL W/ FACTORY MOUNTED TRANSFORMER C/W LOW VOLTAGE RELAY FOR CONNECTION TO BMS
6. FACTORY MOUNSTED SPEED CONTROL DIAL ON FAN FOR BALANCING
7. C/W VFD, TEFC MOTOR, INLET GUARD, BELT AND MOTOR GUARD.
8. FLANGED INLET & OUTLET
9. C/W ACCOUSTIC SILENCER AS INDICATED ON DRAWING
10. FAN & DISCHARGE SILENCER TO BE LESS THAN 55 dBA AT FULL AIR FLOW.
11. FAN & DISCHARGE SILENCER TO BE < 45 dBA AT 50% AIR FLOW DURING NIGHT...
12. C/W RETURN SILENCER & DISCHARGE SILENCER AS INDICATED ON FLOOR PLAN

EQUIPMENT TAG	DESCRIPTION	LOCATION	MANUFACTURER	MODEL	AIRFLOW L/S (CFM)	BHP	E.S.P. Pa ("WC)	DRIVE TYPE	FAN RPM	FAN TYPE	SOUND LEVEL	WEIGHT	NOTES
PEF-P1-1	PARKADE EXHAUST FAN FOR P1	PARKADE P1	GREENHECK	QEI-44	11800 L/S (25,000 CFM)	4.7	187 (0.75")	BELT	<475	MIXED FLOW	<70 dBA		1, 2, 3, 4, 7, 8, 9, 10, 11, 12
PEF-P2-1	PARKADE EXHAUST FAN FOR P1	PARKADE P1	GREENHECK	QEI-44	11800 L/S (25,000 CFM)	4.7	187 (0.75")	BELT	<475	MIXED FLOW	<70 dBA		1, 2, 3, 4, 7, 8, 9, 10, 11, 12
PTF-P1-1	PARKADE TRANSFER FAN (MIXED FLOW JET FAN)	PARKADE P1	GREENHECK	GJI-26	1000 (2130 CFM)	1	0	DIRECT		MIXED FLOW JET FAN			1, 2, 3, 4, 5, 6
PTF-P1-2	PARKADE TRANSFER FAN (MIXED FLOW JET FAN)	PARKADE P1	GREENHECK	GJI-26	1000 (2130 CFM)	1	0	DIRECT		MIXED FLOW JET FAN			1, 2, 3, 4, 5, 6
PTF-P1-3	PARKADE TRANSFER FAN (MIXED FLOW JET FAN)	PARKADE P1	GREENHECK	GJI-26	1000 (2130 CFM)	1	0	DIRECT		MIXED FLOW JET FAN			1, 2, 3, 4, 5, 6
PTF-P1-4	PARKADE TRANSFER FAN (MIXED FLOW JET FAN)	PARKADE P1	GREENHECK	GJI-26	1000 (2130 CFM)	1	0	DIRECT		MIXED FLOW JET FAN			1, 2, 3, 4, 5, 6
PTF-P2-1	PARKADE TRANSFER FAN (MIXED FLOW JET FAN)	PARKADE P2	GREENHECK	GJI-26	1000 (2130 CFM)	1	0	DIRECT		MIXED FLOW JET FAN			1, 2, 3, 4, 5, 6
PTF-P2-2	PARKADE TRANSFER FAN (MIXED FLOW JET FAN)	PARKADE P2	GREENHECK	GJI-26	1000 (2130 CFM)	1	0	DIRECT		MIXED FLOW JET FAN			1, 2, 3, 4, 5, 6
PTF-P2-3	PARKADE TRANSFER FAN (MIXED FLOW JET FAN)	PARKADE P2	GREENHECK	GJI-26	1000 (2130 CFM)	1	0	DIRECT		MIXED FLOW JET FAN			1, 2, 3, 4, 5, 6
PTF-P2-4	PARKADE TRANSFER FAN (MIXED FLOW JET FAN)	PARKADE P2	GREENHECK	GJI-26	1000 (2130 CFM)	1	0	DIRECT		MIXED FLOW JET FAN			1, 2, 3, 4, 5, 6
PTF-P2-5	PARKADE TRANSFER FAN (MIXED FLOW JET FAN)	PARKADE P2	GREENHECK	GJI-26	1000 (2130 CFM)	1	0	DIRECT		MIXED FLOW JET FAN			1, 2, 3, 4, 5, 6

PUMPS - HVAC

NOTES:
1. DUPLEX SUMP PUMP PACKAGE C.W CONTROL PANEL, FLOAT SWITCHES, NEMA PANEL, ALL STARTERS, DISCONNECTS, ALTERNATOR, AND ALAMRS. PANEL TO HAVE CONTROLS INTERFACED WITH BMS
2. SIMPLEX SUMP PUMP PACKAGE C.W CONTROL PANEL, FLOAT SWITCHES, NEMA PANEL, ALL STARTERS, DISCONNECTS, ALTERNATOR, AND ALAMRS. PANEL TO HAVE CONTROLS INTERFACED WITH BMS
3. PROVIDE WITH FULL SIZE IMPELLER
4. SCH 40 STAINLESS STEEL T-OUT RAIL ASSEMBLY
5. ALL STAINLESS STEEL CONSTRUCTION
6. PROVIDE VFD TO CONTROL PUMP
7. PUMP TO BE COMPLETE WITH INTEGRATED VFD
8. BMS CONTROLLED
9. C/W BACNET INTERFACE
10. HIGH EFFICIENCY MOTOR. SEE MOTORLIST FOR STARTER / VFD
11. REFER TO MOTORLIST FOR ELECTRICAL REQUIREMENTS

EQUIPMENT TAG	DESCRIPTION	LOCATION	MANUFACTURER	MODEL	PUMP TYPE	FLUID FLOW LPS (GPM)	FLUID TEMP C(F)	FLUID TYPE	PUMP - HEAD (FT)	IMPELLER SIZE (IN)	POWER HP	V	PH	HZ	MOTOR (RPM)	WEIGHT	NOTES
P-ASHP-1	CHILLED WATER- PRIMARY EVAP PUMP -ASHP	P2 MECH. RM				21.2 (336)	7 (45)	WATER	60		10	575	3	60	< 1800		
P-ASHP-2	CHILLED WATER- PRIMARY EVAP PUMP -ASHP	P2 MECH. RM				21.2 (336)	7 (45)	WATER	60		10	575	3	60	< 1800		
P-ASHP-3	CHILLED WATER- PRIMARY EVAP PUMP -ASHP	P2 MECH. RM				21.2 (336)	7 (45)	WATER	60		10	575	3	60	< 1800		
P-ASHP-4	HEATING WATER- LOW GRADE-PRIMARY COND PUMP -ASHP	P2 MECH. RM				21.2 (336)	46 (115)	WATER	60		10	575	3	60	< 1800		
P-ASHP-5	HEATING WATER-LOW GRADE- PRIMARY COND PUMP -ASHP	P2 MECH. RM				21.2 (336)	46 (115)	WATER	60		10	575	3	60	< 1800		
P-ASHP-6	HEATING WATER-LOW GRADE- PRIMARY COND PUMP -ASHP	P2 MECH. RM				21.2 (336)	46 (115)	WATER	60		10	575	3	60	< 1800		
P-B-1	HEATING WATER- HIGH GRADE ELEC BOILER CIRCULATION PUMP	P2 MECH. RM				3.22 (50)	71 (160)	WATER	40		2	575	3	60	< 1800		
P-B-2	HEATING WATER- HIGH GRADE ELEC BOILER CIRCULATION PUMP	P2 MECH. RM				3.22 (50)	71 (160)	WATER	40		2	575	3	60	< 1800		
P-B-3	HEATING WATER- HIGH GRADE ELEC BOILER CIRCULATION PUMP	P2 MECH. RM				3.22 (50)	71 (160)	WATER	40		2	575	3	60	< 1800		
P-CHW-P-1	CHILLED WATER- SECONDARY PUMP	P2 MECH. RM				42.4 (672)	7 (45)	WATER	50		15	575	3	60	< 1800		
P-CHW-P-2	CHILLED WATER- SECONDARY PUMP	P2 MECH. RM				42.4 (672)	7 (45)	WATER	50		15	575	3	60	< 1800		
P-CHW-S-1	CHILLED WATER- SECONDARY PUMP	P2 MECH. RM				37.9 (600)	7 (45)	WATER	100		30	575	3	60	< 1800		
P-CHW-S-2	CHILLED WATER- SECONDARY PUMP	P2 MECH. RM				37.9 (600)	7 (45)	WATER	100		30	575	3	60	< 1800		
P-CHW-S-3	CHILLED WATER- SECONDARY PUMP	P2 MECH. RM				37.9 (600)	7 (45)	WATER	100		30	575	3	60	< 1800		
P-GLY-1	GLYCOL TANK PUMP	P2 MECH. RM				8.2 (130)	7 (160)	WATER	40		1	208	1	60	< 1800		
P-HHW-S-1	HEATING WATER- HIGH GRADE SECONDARY PUMP	P2 MECH. RM				18.9 (150)	71 (160)	WATER	50		5	575	3	60	< 1800		
P-HHW-S-2	HEATING WATER- HIGH GRADE SECONDARY PUMP	P2 MECH. RM				18.9 (150)	71 (160)	WATER	50		5	575	3	60	< 1800		
P-HHW-S-3	HEATING WATER- HIGH GRADE SECONDARY PUMP	P2 MECH. RM				18.9 (150)	71 (160)	WATER	50		5	575	3	60	< 1800		
P-LHW-P-1	HEATING WATER- PRIMARYCOND PUMP -LOW GRADE	P2 MECH. RM				42.4 (672)	46 (115)	WATER	35		10	575	3	60	< 1800		
P-LHW-P-2	HEATING WATER- PRIMARYCOND PUMP -LOW GRADE	P2 MECH. RM				42.4 (672)	46 (115)	WATER	35		10	575	3	60	< 1800		
P-LHW-S-1	HEATING WATER- SECONDARY PUMP -LOW GRADE	P2 MECH. RM				12.6 (200)	46 (115)	WATER	100		10	575	3	60	< 1800		
P-LHW-S-2	HEATING WATER- SECONDARY PUMP -LOW GRADE	P2 MECH. RM				12.6 (200)	46 (115)	WATER	100		10	575	3	60	< 1800		
P-LHW-S-3	HEATING WATER- SECONDARY PUMP -LOW GRADE	P2 MECH. RM				12.6 (200)	46 (115)	WATER	100		10	575	3	60	< 1800		
P-LHW-S-4	HEATING WATER- SECONDARY PUMP -LOW GRADE - FOR POOL & DCW	P2 MECH. RM				12.6 (200)	46 (115)	WATER	40		5	575	3	60	< 1800		
P-LHW-S-5	HEATING WATER- SECONDARY PUMP -LOW GRADE - FOR POOL & DCW	P2 MECH. RM				12.6 (200)	46 (115)	WATER	40		5	575	3	60	< 1800		
P-WWHP-H1	HEATING WATER- HIGH GRADE WWHP EVAP PUMP	P2 MECH. RM				3.8 (60)	46 (115)	WATER	40		5	575	3	60	< 1800		
P-WWHP-H2	HEATING WATER- HIGH GRADE WWHP EVAP PUMP	P2 MECH. RM				3.8 (60)	46 (115)	WATER	40		5	575	3	60	< 1800		
P-WWHP-H3	HEATING WATER- HIGH GRADE WWHP EVAP PUMP	P2 MECH. RM				3.8 (60)	46 (115)	WATER	40		5	575	3	60	< 1800		
P-WWHP-H4	HEATING WATER- HIGH GRADE WWHP EVAP PUMP	P2 MECH. RM				3.8 (60)	46 (115)	WATER	40		5	575	3	60	< 1800		
P-WWHP-H5	HEATING WATER- HIGH GRADE WWHP COND PUMP	P2 MECH. RM				3.8 (60)	71 (160)	WATER	40		5	575	3	60	< 1800		
P-WWHP-H6	HEATING WATER- HIGH GRADE WWHP COND PUMP	P2 MECH. RM				3.8 (60)	71 (160)	WATER	40		5	575	3	60	< 1800		
P-WWHP-H7	HEATING WATER- HIGH GRADE WWHP COND PUMP	P2 MECH. RM				3.8 (60)	71 (160)	WATER	40		5	575	3	60	< 1800		
P-WWHP-H8	HEATING WATER- HIGH GRADE WWHP COND PUMP	P2 MECH. RM				3.8 (60)	71 (160)	WATER	40		5	575	3	60	< 1800		
P-WWHP-L1	CHILLED WATER- WWHP-LOW-GRADE EVAP PUMP	P2 MECH. RM				27.3 (432)	7 (45)	WATER	35		7.5	575	3	60	< 1800		
P-WWHP-L2	CHILLED WATER- WWHP-LOW-GRADE EVAP PUMP	P2 MECH. RM				27.3 (432)	7 (45)	WATER	35		7.5	575	3	60	< 1800		
P-WWHP-L3	CHILLED WATER- WWHP-LOW-GRADE EVAP PUMP	P2 MECH. RM				27.3 (432)	7 (45)	WATER	35		7.5	575	3	60	< 1800		
P-WWHP-L4	CHILLED WATER- WWHP-LOW-GRADE COND PUMP	P2 MECH. RM				24.56 (388)	7 (45)	WATER	35		7.5	575	3	60	< 1800		
P-WWHP-L5	CHILLED WATER- WWHP-LOW-GRADE COND PUMP	P2 MECH. RM				24.56 (388)	7 (45)	WATER	35		7.5	575	3	60	< 1800		
P-WWHP-L6	CHILLED WATER- WWHP-LOW-GRADE COND PUMP	P2 MECH. RM				24.56 (388)	7 (45)	WATER	35		7.5	575	3	60	< 1800		

AIR HANDLING UNITS

NOTES:
1. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION
2. REFER TO MOTORLIST FOR ELECTRICAL REQUIREMENTS
3. ALL FAN MOTOR TO BE HI-EFF. TFFC MOTOR WITH VFD DRIVER
4. 4" (100mm) INSULATED PANELS FOR OUTDOOR UNITS AND POOL AHU, MAX. 12 FPI
5. AHU-FIT-1, AHU-SMPR-1, SUPPLY & RETURN FAN SECTIONS, C/W PERFORATED PANEL AND ACOUSTIC LINEAR.

| EQUIPMENT TAG | LOCATION | DESCRIPTION | MANUFACTURER | MODEL | SYSTEM TYPE | POWER V | PH | HZ | MCA | SUPPLY FAN: NORMAL VOLUME LPS (CFM) | OUTDOOR AIR LPS (CFM) | EXT. STATIC Pa (IN. WG) | TOTAL STATIC Pa (IN. WG) | FAN TYPE | FAN SPEED (RPM) | MOTOR (HP) | BRAKE HORSE POWER (HP) | VFD (VARIABLE SPEED DRIVE) | RETURN FAN: NORMAL VOLUME LPS (CFM) | EXT. STATIC Pa (IN. WG) | TOTAL STATIC Pa (IN. WG) | FAN TYPE | FAN SPEED (RPM) | MOTOR (HP) | BRAKE HORSE POWER (HP) | VFD (VARIABLE SPEED DRIVE) | HEATING COIL PERFORMANCE (100% WATER): SEN. CAP KW (MBH) | HWS - EWT °C (°F) | HWR - LWT °C (°F) | HW FLOW L/S (GPM) | HW MAX. P. DROP kPa (FT) | COOLING COIL PERFORMANCE (100% WATER): HEAT. COIL - EAT °C (°F) | HEAT. COIL - LAT °C (°F) | TOTAL CAP KW(MBH) | SEN. CAP KW (MBH) | AIR P. DROP Pa (IN. WG) | HEAT WHEEL PERFORMANCE: MAX. AIR VEL. M/S (FT/MIN) | EAT DB °C (°F) | EAT WB °C (°F) | LAT DB °C (°F) | CHWS EWT °C (°F) | CHWR - LWT °C (°F) | CHW FLOW (L/PS / GPM) | CHW MAX. P. DROP (kPa/FT) | ECONO MIZER - BY-PASS | HRV - AIR FLOW (L/PS/CFM) | SEN. CAP (KW/BMH) | WINTER EXH. LAT °C(°F) | WINTER SUP. LAT °C(°F) | WINTER R/A EAT °C(°F) | WINTER O/A EAT °C(°F) | WINTER HEAT WHEEL EFF. (%) | HEAT RECOVERY COIL: TOTAL CAPACITY KW (MBH) | AIR P. DROP Pa (IN WG) | MAX AIR VELOCITY M/S (FT/MIN) | EAT DB °C(°F) | LAT DB °C(°F) | EWT °C(°F) | LWT °C(°F) | WATER P. DROP KPA (FT. WPG) | WATER FLOW (GPM) | FILTERS: R/A FILTER | O/A FILTER | S/A SILENCERS: LENGTH (IN) | FREE AREA (%) | R/A SILENCERS: LENGTH (IN) | FREE AREA (%) | DIMENSIONS: H | L | W | WEIGHT | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---

NOT FOR CONSTRUCTION

DIFFUSERS AND GRILLES

NOTES:
1. PROVIDE DIFFUSERS AND GRILLES WITH BORDER STYLES THAT ARE COMPATIBLE WITH ADJACENT WALLS AND CEILING SYSTEMS. REFER TO...
2. NC LEVELS BASED ON OCTAVE BANDS 2-7 SOUND POWER LEVELS MINUS A ROOM ABSORPTION OF 10 DB, MEASURED PER ASHRAE 70-91.
3. CUSTOM COLOUR OF PRODUCT TO BE SELECTED BY THE ARCHITECT DURING THE SHOP DRAWINGS SUBMITTAL PROCESS.
4. MATERIAL TO BE STAINLESS STEEL CONSTRUCTION
5. CONTRACTOR TO REFER TO MECHANICAL AND ARCHITECTURAL DETAILS FOR SUPPLY AND INSTALLATION OF LINEAR GRILLE.
6. C/W GALVANIZED STEEL FACE OPERATED OPPOSED BLADE BALANCE DAMPER
7. ALUMINUM CONSTRUCTION

m	DESCRIPTION/TYPE	MANUFACTURER	SERVICE	MODEL NUMBER	NOTES
DG-1	HEAVY DUTY SIGHT-PROOF DOOR GRILLE	PRICE		STG1	
E-1	LOUVERED EXHAUST AIR GRILLE	E.H. PRICE		635D	
E-2			NATATORIUM		1,2,3,7
E-3	ALUMINUM, EGG CRATE RETURN, 45° ANGLED, SIGHT RESISTANT CORE	E.H. PRICE		85	
E-4	ALUMINUM LOUVRED EXHAUST GRILLE, 0	E.H. PRICE	STEAM / SAUNA	610Z	1,7
L-1		E.H. PRICE			
R-1	LINEAR SLOT RETURN AIR DIFFUSER	E.H. PRICE		SDS100	
R-3	LOUVERED RETURN AIR GRILLE	E.H. PRICE		530	
S-1	STEEL, DOUBLE DEFLECTION, 3/4" SPACING, BLADES PARALLEL LONG DIMENSION	E.H. PRICE		520	
S-2	HEAVY DUTY LOUVERED SUPPLY AIR GRILLE	E.H. PRICE		93L	
S-3	SQUARE PLAQUE DIFFUSER, REFER DIMENSION ON FLOOR PLAN	E.H. PRICE		SPD	
S-4		E.H. PRICE			
S-5	ALUMINUM, HEAVY DUTY LINEAR BAR GRILLE, 1/2" SPACING, 3/32" BARS	E.H. PRICE		LBPH-15B	
S-6		E.H. PRICE			
S-8	LINEAR SLOT DIFFUSER, 1 SLOT, T-BAR MOUNTED, C/W SDA	E.H. PRICE		SDS-100	
S-9	LINEAR SLOT DIFFUSER, 2 SLOTS, T-BAR MOUNTED, C/W SDA	E.H. PRICE		SDS-100	
S-10	HIGH CAPACITY DRUM LOUVERS	E.H. PRICE			
S-11	HIGH CAPACITY DRUM LOUVERS	PRICE		HCD	
T-1	LOUVERED EXHAUST AIR GRILLE	E.H. PRICE			

BACKFLOW PREVENTER

NOTES:
1. ALL BACKFLOW PREVENTERS TO BE INSTALLED AS PER CSA B64.10 REQUIREMENTS
2. ONE PER FIXTURE

EQUIPMENT TAG	LOCATION	SERVICE	BACKFLOW PREVENTER TYPE	MANUFACTURER	MODEL NO.	SIZE (mm)	MAX WORKING P. (kPa)	NOTES
BFP-01	WATER ENTRY P208	WATER ENTRY LINE	DCVA					ALL
BFP-02	MPR/KITCHEN STORAGE CLOSET	JANITOR SINK - COLD	RPBP	WATTS	009M3QT	20	1206	ALL
BFP-03	MPR/KITCHEN STORAGE CLOSET	JANITOR SINK - HOT	RPBP	WATTS	009M3QT	20	1206	ALL
BFP-04	JANITOR CLOSET 108	JANITOR SINK - COLD	RPBP	WATTS	009M3QT	20	1206	ALL
BFP-05	JANITOR CLOSET 108	JANITOR SINK - HOT	RPBP	WATTS	009M3QT	20	1206	ALL
BFP-06	JANITOR CLOSET 119	JANITOR SINK - COLD	RPBP	WATTS	009M3QT	20	1206	ALL
BFP-07	JANITOR CLOSET 113B	JANITOR SINK - HOT	RPBP	WATTS	009M3QT	20	1206	ALL
BFP-08	JANITORIAL 108	BOTTLE FILLER	RPBP	WATTS	009M3QT	20	1206	ALL
BFP-09	JANITOR CLOSET 222	JANITOR SINK - COLD	RPBP	WATTS	009M3QT	20	1206	ALL
BFP-10	LAUNDRY 124A	HOSE BIB - HOT	RPBP	WATTS	009M3QT	20	1206	ALL
BFP-11	JANITOR CLOSET 222	JANITOR SINK - HOT	RPBP	WATTS	009M3QT	20	1206	ALL
BFP-12	JANITOR CLOSET 113B	HOSE BIB - HOT	RPBP	WATTS	009M3QT	20	1206	ALL
BFP-13	LAUNDRY 124A	BOTTLE FILLER	RPBP	WATTS	009M3QT	20	1206	ALL

OIL INTERCEPTER

NOTES:
1. ACID RESISTANT COATED FABRICATED STEEL
2. FILL WITH CLEAN WATER PRIOR TO START-UP OF SYSTEM
3. HEAVY DUTY REINFORCED COVER WITH H20 LOADING
4. DURA-COATED EXTENSIONS SECTION. FILED VERIFY EXTENSION HEIGHT PRIOR TO ORDERING. COVER TO BE FLUSH WITH THE SLAB
5. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS

EQUIPMENT TAG	DESCRIPTION	LOCATION	MANUFACTURER	MODEL	SIZE (mm) (LxWxH)	INLET SIZE (mm)	WATER CAPACITY (L)	FLOW RATE (LPS)	NOTES
OI-001	OIL INTERCEPTOR	FOUNDATION	ZURN	OMC 1500 SGM/3 CDA	2400x1550x2500	200	5678	9.46	ALL

HEATING BOILER - ELECTRIC

NOTES:
1. LOW WATER CUT-OFF
2. TEMPERATURE AND PRESSURE GAUGE
3. RELIEF VALVES
4. UL APPROVED
5. BOILER TO BE SUPPLIED WITH PACKAGED CONTROLS SYSTEM FOR BOILER AND CIRC PUMP VFD MODULATION, OUTDOOR AIR...

EQUIPMENT TAG	DESCRIPTION	LOCATION	MANUFACTURER	MODEL	VOLUME (L)	HEIGHT (mm)	DIAMETER (mm)	INPUT (KW)	POWER V	PH	HZ	OPERATING WEIGHT (KG)	NOTES
B-1	ELECTRIC HEATING BOILER	P2 MECH. RM			-	-	-	300 KW	575	3	60	-	-
B-2	ELECTRIC HEATING BOILER	P2 MECH. RM			-	-	-	300 KW	575	3	60	-	-
B-3	ELECTRIC HEATING BOILER	P2 MECH. RM			-	-	-	300 KW	575	3	60	-	-

FORCEFLOW HEATERS - HYDRONIC

NOTES:
1. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION
2. REFER TO MOTORLIST FOR ELECTRICAL REQUIREMENTS

EQUIPMENT TAG	DESCRIPTION	LOCATION	MANUFACTURER	MODEL	MOUNTING TYPE	HEATING CAPACITY (MBH)	COIL FLOW (GPM)	EWT (F)	LWT (F)	WATER P. DROP (FT WC)	POWER V	PH	HZ	NOTES
FFH-P2-1	FORCE FLOW HEATER (HYDRONIC)	P2 WATER ENTRY ROOM									208	1		
FFH-P2-2	FORCE FLOW HEATER (HYDRONIC)	P2 MECH. RM									208	1		
FFH-P2-3	FORCE FLOW HEATER (HYDRONIC)	P2 MECH. RM									208	1		

DOMESTIC HOT WATER TANKS

Notes:
1. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION
2. RATED FOR POTABLE WATER
3. ASME RATED
4. MEETS OR EXCEEDS INSULATION REQUIREMENTS AS PER ASHRAE 90.1
5. STORAGE CAPACITY TO BE WITHIN 80% OF TANK CAPACITY

EQUIPMENT TAG	DESCRIPTION	LOCATION	MANUFACTURER	MODEL	SERVICE	VOLUME (L)	OPERATING WEIGHT (kg)	NOTES
DHWT-001	DOMESTIC HOT WATER PRE-HEAT TANK	WATER ENTRY P208	PVI INDUSTRIES	L 400A-TR	PRE-HEAT	1515	486	ALL
DHWT-002	DOMESTIC HOT WATER PRE-HEAT TANK	WATER ENTRY P208	PVI INDUSTRIES	L 400A-TR	PRE-HEAT	1515	486	ALL
DHWT-003	DOMESTIC HOT WATER FINAL-HEAT TANK	WATER ENTRY P208	PVI INDUSTRIES	L 400A-TR	FINAL-HEAT	1515	486	ALL
DHWT-004	DOMESTIC HOT WATER FINAL-HEAT TANK	WATER ENTRY P208	PVI INDUSTRIES	L 400A-TR	FINAL-HEAT	1515	486	ALL

GREASE INTERCEPTOR

NOTES:
1. DUAL 100MM INLETS
2. ACID RESISTANT FABRICATED STEEL
3. FILL WITH CLEAN WATER PRIOR TO START-UP OF SYSTEM
4. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS

EQUIPMENT TAG	DESCRIPTION	LOCATION	MANUFACTURER	MODEL	SIZE (LxWxH mm)	NOTES
GI-001	GREASE INTERCEPTOR	FOUNDATION	ZURN	GMC-500	2438x1575x1194	ALL

PLUMBING FIXTURE SCHEDULE

NOTES:

FIXTURE TAG	DESCRIPTION/TYPE	MANUFACTURER/MODEL
AD-1	AREA DRAIN	WATTS / FD320
CW-1	WASHER/DRYER	
DF-1	DRINKING FOUNTAIN/DUAL BOWL	HAWS / 1311
DF-2	DRINKING FOUNTAIN/DUAL BOWL	ELKAY SPECIFICATIONS / EZSTLDDWS
DF-3	DRINKING FOUNTAIN/DUAL BOWL	ELKAY SPECIFICATIONS / LK4405FRK
EW-1	EMERGENCY EYEWASH	HAWS / 7309ST
FD-1	CORROSION RESISTANT DRAIN	WATTS / FD-1160
FD-2	FLOOR DRAIN	WATTS / FD-100-C
FD-3	CAST IRON GRATE DRAIN	WATTS / FD-200-A
FD-4	ELEVATOR PIT DRAIN	JAY R. SMITH / 6040T-NB
FFD-1	FUNNEL FLOOR DRAIN	JAY R. SMITH / 6040T-NO-HUB-NB
HB-1	NATATORIUM HOSEBIB	ACORN / 8141-SSLF-316
HB-2	CHANGEROOM HOSEBIB	ACORN / 8116-SSLF
HB-3	MECHANICAL ROOM HOSEBIB	ACORN / 8121CP-LF
HB-4	NATATORIUM HOSEBIB	WATTS / HY-725
HB-5	STEAM ROOM HOSEBIB	ACORN / 8170-SSLF
JS-1	JANITOR SINK/FLOOR MOUNTED	E.L. MUSTEE / 63.600A
LAV-1	DROP IN CHANGEROOM LAVATORY	FRANKE / OVT4200-5
LAV-2	STANDARD ADA LAVATORY	AMERICAN STANDARD / 9024.001EC
LAV-3	TROUGH LAVATORY	
RD-1	ROOF DRAIN	JAY R. SMITH / 1310Y-E-CL-C2-R-C-RBD
SH-1	SHOWER TRIM	DELTA / 063214A
SH-2	SHOWER TRIM (BARRIER FREE DESIGN)	DELTA / 063214A
SH-3	POOL DECK SHOWER	DELTA / 063214A
SH-4	POOL DECK SHOWER	BLU / QOS-0014
SK-1	SINK/SINGLE COMPARTMENT	KINDRED / QSA 1820-8
SK-2	SINK/DOUBLE COMPARTMENT	FRANKE / LBOX408F-1
TD-1	TRENCH DRAIN	
TD-2	CHANGEROOM TRENCH DRAIN	ACO DRAIN / SLABDRAIN H100-8
TD-3		<varies>
TMV-1	SHOWER TRIM	
UR-1	URINAL/WALL HUNG	TOTO / UT445UV
WC-1	NON-ADA WATER CLOSET/WALL HUNG OR FLOOR MOUNTED	TOTO / CT708EG
WC-2	ACCESSIBLE WATER CLOSET/WALL HUNG OR FLOOR MOUNTED	TOTO / CT708EG

PLUMBING ROUGH-IN SCHEDULE

NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR INSTALLATION DETAILS.
2. USE THIS SIZE FOR FLOOR DRAIN CONNECTIONS UNLESS NOTED OTHERWISE ON SAN / VENT SCHEMATIC

FIXTURE TAG	DESCRIPTION/TYPE	ROUGH-IN CONNECTIONS (MM) WASTE	VENT	COLD WATER	HOT WATER	STORM WATER	NOTES
AD-1	AREA DRAIN	-	-	-	-	100	ALL
CW-1	WASHER/DRYER	75	50	40	-	-	ALL
DF-1	DRINKING FOUNTAIN/DUAL BOWL	30	40	15	-	-	ALL
DF-2	DRINKING FOUNTAIN/DUAL BOWL	30	40	15	-	-	ALL
DF-3	DRINKING FOUNTAIN/DUAL BOWL	30	40	15	-	-	ALL
EW-1	EMERGENCY EYEWASH	65	40	20	20	-	ALL
FD-1	CORROSION RESISTANT DRAIN	100	50	-	-	-	ALL
FD-2	FLOOR DRAIN	100	50	-	-	-	ALL
FD-3	CAST IRON GRATE DRAIN	100	50	-	-	-	ALL
FD-4	ELEVATOR PIT DRAIN	150	50	-	-	-	ALL
FFD-1	FUNNEL FLOOR DRAIN	100	50	-	-	-	ALL
HB-1	NATATORIUM HOSEBIB	-	-	20	-	-	ALL
HB-2	CHANGEROOM HOSEBIB	-	-	20	-	-	ALL
HB-3	MECHANICAL ROOM HOSEBIB	-	-	20	-	-	ALL
HB-4	NATATORIUM HOSEBIB	-	-	20	-	-	ALL
HB-5	STEAM ROOM HOSEBIB	-	-	20	-	-	ALL
JS-1	JANITOR SINK/FLOOR MOUNTED	100	50	15	15	-	ALL
LAV-1	DROP IN CHANGEROOM LAVATORY	50	40	20	20	-	ALL
LAV-2	STANDARD ADA LAVATORY	50	40	20	20	-	ALL
LAV-3	TROUGH LAVATORY	50	40	20	20	-	ALL
RD-1	ROOF DRAIN	-	-	-	-	100	ALL
SH-1	SHOWER TRIM	65	40	20	20	-	ALL
SH-2	SHOWER TRIM (BARRIER FREE DESIGN)	65	40	20	20	-	ALL
SH-3	POOL DECK SHOWER	65	40	20	20	-	ALL
SH-4	POOL DECK SHOWER	65	40	20	20	-	ALL
SK-1	SINK/SINGLE COMPARTMENT	50	40	20	20	-	ALL
SK-2	SINK/DOUBLE COMPARTMENT	50	40	20	20	-	ALL
TD-1	TRENCH DRAIN	100	50	-	-	-	ALL
TD-2	CHANGEROOM TRENCH DRAIN	100	50	-	-	-	ALL
TD-3	PARKADE TRENCH DRAIN	100	50	-	-	-	ALL
TMV-1	SHOWER TRIM	65	40	20	20	-	ALL
UR-1	URINAL/WALL HUNG	50	40	40	-	-	ALL
WC-1	NON-ADA WATER CLOSET/WALL HUNG OR FLOOR MOUNTED	75	50	40	-	-	ALL
WC-2	ACCESSIBLE WATER CLOSET/WALL HUNG OR FLOOR MOUNTED	75	50	40	-	-	ALL

VAV SUPPLY

NOTES:
1. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION
2. REFER TO MOTORLIST FOR ELECTRICAL REQUIREMENTS
3. ALL VAV BOXES ARE TO BE POWERED AND CONTROLLED BY THE DDC SYSTEM (24V)
4. UNIT TO COME WITH 30" INTEGRAL DAMPER
5. UNIT TO COME WITH FIBER FREE LINER

EQUIPMENT TAG	DESCRIPTION	LOCATION	MANUFACTURER	MODEL	SERVICE	SYSTEM	UNIT SIZE	MAX AIRFLOW (CFM)	MIN AIRFLOW (CFM)	PRESSURE DROP (IN. WG)	NOTES
VAV-L1-R-01	VAV FOR SPACE	MPR DRY									
VAV-L1-R-02	VAV FOR SPACE	COMM KITCHEN									
VAV-L1-R-03	VAV FOR SPACE	MPR WET									
VAV-L1-R-04	VAV FOR SPACE	ACTIVE STUDIO									
VAV-L1-R-05	VAV FOR SPACE	ACTIVE STUDIO									
VAV-L1-S-01	VAV FOR SPACE	MPR DRY									
VAV-L1-S-02	VAV FOR SPACE	COMM KITCHEN									
VAV-L1-S-03	VAV FOR SPACE	MPR WET									
VAV-L1-S-04	VAV FOR SPACE	ACTIVE STUDIO									
VAV-L2-R-01		UPPER LOBBY									
VAV-L2-R-02		UPPER LOBBY									
VAV-L2-R-03	VAV FOR SPACE	ADMIN AREA									
VAV-L2-R-04	VAV FOR SPACE	LIBRARY MPR									
VAV-L2-R-05	VAV FOR SPACE	GROUP STUDY									
VAV-L2-R-06	VAV FOR SPACE	GROUP STUDY									
VAV-L2-R-07	VAV FOR SPACE	GROUP STUDY									
VAV-L2-R-08	VAV FOR SPACE	MPR (S)									
VAV-L2-R-09	VAV FOR SPACE	TEEN ROOM									
VAV-L2-R-10	VAV FOR SPACE	LIBRARY (N)									
VAV-L2-R-11	VAV FOR SPACE	LIBRARY (S)									
VAV-L2-S-01		UPPER LOBBY									
VAV-L2-S-02		UPPER LOBBY									
VAV-L2-S-03	VAV FOR SPACE	ADMIN AREA									
VAV-L2-S-04	VAV FOR SPACE	LIBRARY MPR									
VAV-L2-S-05	VAV FOR SPACE	GROUP STUDY									
VAV-L2-S-06	VAV FOR SPACE	GROUP STUDY									
VAV-L2-S-07	VAV FOR SPACE	GROUP STUDY									
VAV-L2-S-08	VAV FOR SPACE	MPR (S)									
VAV-L2-S-09	VAV FOR SPACE	TEEN ROOM									
VAV-L2-S-10	VAV FOR SPACE	LIBRARY (N)									
VAV-L2-S-11	VAV FOR SPACE	LIBRARY (S)									

PUMPS - PLUMBING

NOTES:
1. DUPLEX SUMP PUMP PACKAGE C.W CONTROL PANEL, FLOAT SWITCHES, NEMA PANEL, ALL STARTERS, DISCONNECTS, ALTERNATOR, AND ALAMRS. PANEL TO HAVE CONTROLS INTERFACED WITH BMS
2. SIMPLEX SUMP PUMP PACKAGE C.W CONTROL PANEL, FLOAT SWITCHES, NEMA PANEL, ALL STARTERS, DISCONNECTS, ALTERNATOR, AND ALAMRS. PANEL TO HAVE CONTROLS INTERFACED WITH BMS
3. PROVIDE WITH FULL SIZE IMPELLER
4. SCH 40 STAINLESS STEEL LIFT-OUT RAIL ASSEMBLY
5. ALL STAINLESS STEEL CONSTRUCTION
6. PROVIDE VFD TO CONTROL PUMP
7. PUMP TO BE COMPLETE WITH INTEGRATED VFD
8. BMS CONTROLLED
9. C/W BACNET INTERFACE
10. HIGH EFFICIENCY MOTOR. SEE MOTORLIST FOR STARTER / VFD
11. REFER TO MOTORLIST FOR ELECTRICAL REQUIREMENTS

EQUIPMENT TAG	DESCRIPTION	LOCATION	MANUFACTURER	MODEL	PUMP TYPE	FLUID FLOW (L/PS)	FLUID TEMP (°C)	FLUID TYPE	PUMP - HEAD (kPa)	IMPELLER SIZE (mm)	MOTOR (HP)	POWER V	PH	HZ	MOTOR (RPM)	WEIGHT	NOTES
P-DHW-1	DOW PREHEAT CIRCULATION PUMP	P2 MECH. RM				3.22	60	WATER	120		2	208			< 1800		
P-DHW-2	DOW PREHEAT CIRCULATION PUMP	P2 MECH. RM				3.22	60	WATER	120		2	208			< 1800		
P-DHW-3	DHW FINAL HEAT CIRCULATION PUMP	P2 MECH. RM				3.22	60	WATER	120		2	208			< 1800		
P-DHW-4	DHW FINAL HEAT CIRCULATION PUMP	P2 MECH. RM				3.22	60	WATER	120		2	208			< 1800		
P-DHWR-1	DHW RE-CIRCULATION PUMP	P2 MECH. RM				0.62	60	WATER	75		1	208			< 1800		

UNIT HEATER - HYDRONIC

Notes:
1. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION
2. REFER TO MOTORLIST FOR ELECTRICAL REQUIREMENTS

EQUIPMENT TAG	DESCRIPTION	LOCATION	MANUFACTURER	MODEL	MOUNTING TYPE	AIR COIL EAT (F)	AIR COIL LAT (F)	AIR FLOW (CFM)	HEATING CAPACITY (KW)	COIL FLOW	UNIT EWT (F)	LWT (F)	WATER P. DROP (FT WC)	WEIGHT	NOTES
UH-L1-01		CUSTODIAL MPR STORAGE													
UH-L1-02		CUSTODIAL STORAGE													

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Key Plan

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MECHANICAL SCHEDULE II

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NOT FOR CONSTRUCTION

PLUMBING FIXTURE SCHEDULE

EQUIPMENT TAG	DESCRIPTION	MANUFACTURER / MODEL	DESCRIPTION/TYPE	NOTES
WC-1	STANDARD NON-ADA WALL MOUNT TOILET CHANGEROOMS AND NON-ADA PUBLIC WASHROOM STALLS	BOWL: TOTO CT728CU(G)	WALL MOUNTED WATER CLOSET WITH 1-1/2" TOP SPUT INLET, 9-1/4" x 7" WATER SURFACE, ADA COMPLIANT	1,2
		FLUSH VALVE: TOTO TET6GA32#CP	TOTO ECOPOWER HIGH EFFICIENCY TOILET FLUSH VALVE. 1.6 GPF. SELF-POWERED HYDROELECTRIC SYSTEM, 1-1/2" TOP SPUD INLET USING 24-1/2" VACUUM BREAKER TUBE	
		SEAT: BEMIS 1955SSCT	OPEN FRONT LESS COVER, HEAVY DUTY, WHITE SOLID PLASITC, LESS COVER	
		CARRIER: WATTS ISCA-101-L/R	SINGLE HORIZONTAL ADJUSTABLE WATER CLOSET CARRIER, EPOXY COATED CAST IRON FITTING, 102mm (4") NO HUB WATE AND 51mm (2") NO HUB VENT	
WC-2	ADA COMPLIANT WALL MOUNT TOILET ADA CHANGEROOMS AND ADA PUBLIC WASHROOM STALLS	BOWL: TOTO CT728CU(G)	WALL MOUNTED WATER CLOSET WITH 1-1/2" TOP SPUT INLET, 9-1/4" x 7" WATER SURFACE, ADA COMPLIANT	1,2
		FLUSH VALVE: TOTO TET6GA32#CP	TOTO ECOPOWER HIGH EFFICIENCY TOILET FLUSH VALVE. 1.6 GPF. SELF-POWERED HYDROELECTRIC SYSTEM, 1-1/2" TOP SPUD INLET USING 24-1/2" VACUUM BREAKER TUBE	
		SEAT: BEMIS 1955SSCT	OPEN FRONT LESS COVER, HEAVY DUTY, WHITE SOLID PLASITC, LESS COVER	
		CARRIER: WATTS ISCA-101-L/R	SINGLE HORIZONTAL ADJUSTABLE WATER CLOSET CARRIER, EPOXY COATED CAST IRON FITTING, 102mm (4") NO HUB WATE AND 51mm (2") NO HUB VENT	
UR-1	WALL HUNG URINAL MEN'S WC AND CHANGE ROOM	BOWL: TOTO UT445U	WALL HUNG URINAL WITH 3/4" TOP SPUD INLET, CONCEALED INTEGRAL TRAP, WASHOUT FLUSH ACTION, RIM HEIGHT MOUNTED 400mm ABOVE FINISHED FLOOR	1,2
		FLUSH VALVE: TOTO TEU1LA12#CP	TOTO ECOPOWER HIGH EFFICIENCY TOILET FLUSH VALVE. 0.5 GPF. SELF-POWERED HYDROELECTRIC SYSTEM, 3/4" TOP SPUD INLET USING 3/4" VACUUM BREAKER TUBE	
UR-2	CHILD URINAL	BOWL: TOTO UT445U	WALL HUNG URINAL WITH 3/4" TOP SPUD INLET, CONCEALED INTEGRAL TRAP, WASHOUT FLUSH ACTION	1,2
		FLUSH VALVE: TOTO TEU1LA12#CP	TOTO ECOPOWER HIGH EFFICIENCY TOILET FLUSH VALVE. 0.5 GPF. SELF-POWERED HYDROELECTRIC SYSTEM, 3/4" TOP SPUD INLET USING 3/4" VACUUM BREAKER TUBE	
LAV-1	STANDARD LAVATORY W/ SINGLE TEMPERATURE DECK MOUNTED AUTOMATIC FAUCET	BASIN: FRANKE OV1420U-5	SINGLE COMPARTMENT UNDERMOUNT VANITY BASIN. 18 GAUGE, TYPE 304 STAINLESS STEEL.	1,2
		FAUCET: THE SPLASH LAB TSL.R.020	SENSOR TOUCHLESS FAUCET, 0.5 GPM FLOW REGULARTOR, ADA COMPLIANT, 100-240V INPUT POWER NEEDED	
		P-TRAP: MCGUIRE 8872CB	1-1/4" INLET AND OUTLET, CAST BRASS BODY, CLEANOUT AT THE BOTTOM, 18 GAUGE SEAMLESS RUBULAR WALL BEND AND FLANGE	
		LAVATORY SUPPLY: MCGUIRE H170LK	1/2" SWEAT X 3/8" O.D.CHROME PLATED, CSA CERTIFIED	
		DRAIN OFFSET : MCGUIRE 155WC	CAST BRASS CHROME PLATED OFFSET WHEELCHAIR STRAINER WITH POLISHED CHROME CAST BRASS ELBOW, HEAVY RUBBER WASHER, ADA COMPLIANT	
		THERMOSTATIC MIXING VALVE: BRADLEY S59-4007	ADJUSTABLE SET POINT, 1/2" COPPER & 1/2" NPT TAILPIECE	
		LAVATORY SUPPORT: JAY R. SMITH 0700	FLOOR MOUNTED WITH "PRO-SET" UPRIGHTS, 4" STEEL PLATE BASE WELDED TO UPRIGHT	
LAV-2	STANDARD ADA COMPLIANT WALL MOUNT LAVATORY SINGLE TEMPERATURE (TEMPERED) PRIVATE WASHROOM STALL ONLY	BASIN: AMERICAN STANDARD 9024.001EC	WALL HUNG VITREOUS CHINA LAVATORY, RECESSED SELF-DRAINING DECK, ADA COMPLIANT, SINGLE CENTERE MOUNT HOLE, 354mm WIDE, 325mm FRONT TO BACK, 127mm DEEP	1,2
		FAUCET: TOTO TEL105-D10ET	SINGLE HANDLE ADA METERING LAVATORY FAUCET, CHROME PLATED CONSTRUCTION, SINGLE HOLE MOUNT, VANDAL RESISTANT, 0.5 GPM, TMV TLT10R INCLUDED	
		P-TRAP: MCGUIRE 8872CB	1-1/4" INLET AND OUTLET, CAST BRASS BODY, CLEANOUT AT THE BOTTOM, 18 GAUGE SEAMLESS RUBULAR WALL BEND AND FLANGE	
		LAVATORY SUPPLY: MCGUIRE H170LK	1/2" SWEAT X 3/8" O.D.CHROME PLATED, CSA CERTIFIED	
		DRAIN OFFSET : MCGUIRE 155WC	CAST BRASS CHROME PLATED OFFSET WHEELCHAIR STRAINER WITH POLISHED CHROME CAST BRASS ELBOW, HEAVY RUBBER WASHER, ADA COMPLIANT	
		LAVATORY SUPPORT: JAY R. SMITH 0700	FLOOR MOUNTED WITH "PRO-SET" UPRIGHTS, 4" STEEL PLATE BASE WELDED TO UPRIGHT	
		P-TRAP INSULATION: MCGUIRE PW2000WC	SEAMLESS RISER TUBE COVERS, SUPPLY ANGLE STOP COVERS, DRAIN TAILPIECE COVER, ANGLE STOP WHEEL HANDLE COVERS, ADA COMPLIANT	
LAV-3	STANDARD LAVATORY (TROUGH SINK) DECK MOUNTED FAUCET	BASIN: CUSTOM BASIN BY OTHERS		1,2
		FAUCET: THE SPLASH LAB TSL.R.020	SENSOR TOUCHLESS FAUCET, 0.5 GPM FLOW REGULARTOR, ADA COMPLIANT, 100-240V INPUT POWER NEEDED	
		P-TRAP: MCGUIRE 8872CB	1-1/4" INLET AND OUTLET, CAST BRASS BODY, CLEANOUT AT THE BOTTOM, 18 GAUGE SEAMLESS RUBULAR WALL BEND AND FLANGE	
		LAVATORY SUPPLY: MCGUIRE H170LK	1/2" SWEAT X 3/8" O.D.CHROME PLATED, CSA CERTIFIED	
		DRAIN OFFSET : MCGUIRE 155WC	CAST BRASS CHROME PLATED OFFSET WHEELCHAIR STRAINER WITH POLISHED CHROME CAST BRASS ELBOW, HEAVY RUBBER WASHER, ADA COMPLIANT	
		THERMOSTATIC MIXING VALVE: BRADLEY S59-4007	ADJUSTABLE SET POINT, 1/2" COPPER & 1/2" NPT TAILPIECE	
		LAVATORY SUPPORT: JAY R. SMITH 0700	FLOOR MOUNTED WITH "PRO-SET" UPRIGHTS, 4" STEEL PLATE BASE WELDED TO UPRIGHT	
SH-1	STANDARD NON-ADA WALL MOUNT SHOWER SINGLE TEMPERATURE (TEMPERED) PUSH BUTTON CONTROL	SHOWERHEAD: DELTA 063214A	SHOWERHEAD WITH MOUNTING BRACKET AND FASTENERS, VANDAL-RESISTANT, 2.0 GPM, ADA COMPLIANT	1,2
		SHOWER VALVE: DELTA 860T103	SHOWEROFF SHOWER VALVE, BRASS VALVE BODY, 1/2" SWEAT CONNECTION, VANDAL RESISTANT MOUNTING FASTENER, 80 PSI MAXIMUM OPERATING PRESSURE, STAINLESS STEEL COVER	
		THERMOSTATIC MIXING VALVE: BRADLEY S59-4007	ADJUSTABLE SET POINT, 1/2" COPPER & 1/2" NPT TAILPIECE	
SH-2	STANDARD ADA WALL MOUNT SHOWER SINGLE TEMPERATURE PUSH BUTTION CONTROL C/W HAND SHOWER	SHOWERHEAD: DELTA 063214A	SHOWERHEAD WITH MOUNTING BRACKET AND FASTENERS, VANDAL-RESISTANT, 2.0 GPM, ADA COMPLIANT 36" SLIDE BAR AND MIN. 70" HOSE LENGTH	1,2
		SHOWER VALVE AND WAND: DELTA 860T153	SHOWEROFF SHOWER VALVE, BRASS VALVE BODY, 1/2" SWEAT CONNECTION, VANDAL RESISTANT MOUNTING FASTENER, 80 PSI MAXIMUM OPERATING PRESSURE, STAINLESS STEEL COVER, ADA COMPLIANT	
		THERMOSTATIC MIXING VALVE: BRADLEY S59-4007	ADJUSTABLE SET POINT, 1/2" COPPER & 1/2" NPT TAILPIECE	
		DIVERTER VALVE: SYMMONS 2DIV-BODY	DUAL OUTLET DIVERTER, 1/2" MALE IPS & 1/2" FEMALE SWEAT, ADA COMPLIANT	
SH-3	COMMUNAL SHOWERS SINGLE TEMPERATURE (TEMPERED) PUSH BUTTON CONTROL	SHOWERHEAD: DELTA 063214A	SHOWERHEAD WITH MOUNTING BRACKET AND FASTENERS, VANDAL-RESISTANT, 2.0 GPM, ADA COMPLIANT 36" SLIDE BAR AND MIN. 70" HOSE LENGTH	1,2
		THERMOSTATIC MIXING VALVE: BRADLEY S59-4007	ADJUSTABLE SET POINT, 1/2" COPPER & 1/2" NPT TAILPIECE	
		SHOWER VALVE: DELTA 860T103	SHOWEROFF SHOWER VALVE, BRASS VALVE BODY, 1/2" SWEAT CONNECTION, VANDAL RESISTANT MOUNTING FASTENER, 80 PSI MAXIMUM OPERATING PRESSURE, STAINLESS STEEL COVER	
SH-4	POOL DECK SHOWERS SINGLE TEMPERATURE (TEMPERED) PUSH BUTTON CONTROL	SHOWER HEAD: BLU QOS-0014	FREESTANDING HYDROPROGESSIVE POWER, 316L STAINLESS STEEL OVERHEAD SHOWER, SINGLE LEVER MIXER	1,2
		THERMOSTATIC MIXING VALVE: BRADLEY S59-4007	ADJUSTABLE SET POINT, 1/2" COPPER & 1/2" NPT TAILPIECE	
		SHOWER VALVE: DELTA 860T103	SHOWEROFF SHOWER VALVE, BRASS VALVE BODY, 1/2" SWEAT CONNECTION, VANDAL RESISTANT MOUNTING FASTENER, 80 PSI MAXIMUM OPERATING PRESSURE, STAINLESS STEEL COVER	
SK-1	STANDARD SINGLE BOWL KITCHEN SINK DUAL TEMPERATURE (COLD AND TEMPERED)	BOWL: KINDRED QSA1820-8	UNDERMOUNT SINGLE POT SINK, 20 GAUGE STAINLESS STEEL CONSTRUCTION, 18" WIDTH x 20" LENGTH x 8" DEPTH	1,2,3
		FAUCET: MOEN 7622EW	1 HOLE SINK APPLICATION, SINGLE HANDLE, MAXIMUM 1.5 GPM @ 60 PSI, ADA COMPLIANT	
		P-TRAP: MCGUIRE 8872CB	1-1/4" INLET AND OUTLET, CAST BRASS BODY, CLEANOUT AT THE BOTTOM, 18 GAUGE SEAMLESS RUBULAR WALL BEND AND FLANGE	
		DRAIN OFFSET : MCGUIRE 155WC	CAST BRASS CHROME PLATED OFFSET WHEELCHAIR STRAINER WITH POLISHED CHROME CAST BRASS ELBOW, HEAVY RUBBER WASHER, ADA COMPLIANT	
		THERMOSTATIC MIXING VALVE: BRADLEY S59-4007	ADJUSTABLE SET POINT, 1/2" COPPER & 1/2" NPT TAILPIECE	
		P-TRAP INSULATION: MCGUIRE PW2000WC	SEAMLESS RISER TUBE COVERS, SUPPLY ANGLE STOP COVERS, DRAIN TAILPIECE COVER, ANGLE STOP WHEEL HANDLE COVERS, ADA COMPLIANT	
SK-2	STANDARD DOUBLE POT SINK DUAL TEMPERATURE (COLD AND TEMPERED)	BOWL: KINDRED LBD6408P-1	UNDERMOUNT DOUBLE POT SINK, 20 GAUGE STAINLESS STEEL CONSTRUCTION	1,2,3
		FAUCET: MOEN 7622EW	1 HOLE SINK APPLICATION, SINGLE HANDLE, MAXIMUM 1.5 GPM @ 60 PSI, ADA COMPLIANT	
		P-TRAP: MCGUIRE 8872CB	1-1/4" INLET AND OUTLET, CAST BRASS BODY, CLEANOUT AT THE BOTTOM, 18 GAUGE SEAMLESS RUBULAR WALL BEND AND FLANGE	
		DRAIN OFFSET : MCGUIRE 155WC	CAST BRASS CHROME PLATED OFFSET WHEELCHAIR STRAINER WITH POLISHED CHROME CAST BRASS ELBOW, HEAVY RUBBER WASHER, ADA COMPLIANT	
		THERMOSTATIC MIXING VALVE: BRADLEY S59-4007	THERMOSTATIC MIXING VALVE, MAX 32.9GPM, 3/4" INLET AND 1" OUTLET PORT, ASSE 1071 CERTIFIED	
		P-TRAP INSULATION: MCGUIRE PW2000WC	SEAMLESS RISER TUBE COVERS, SUPPLY ANGLE STOP COVERS, DRAIN TAILPIECE COVER, ANGLE STOP WHEEL HANDLE COVERS, ADA COMPLIANT	
SK-3	SINGLE BOWL CHEMICAL SINK DUAL TEMPERATURE (COLD AND TEMPERED)	BOWL: KINDRED LBS6808/316-1	SINGLE POT SINK, 20 GAUGE, TYPE 316 STAINLESS STEEL CONSTRUCTION	1,2,3
		FAUCET: CHICAGO FAUCETS 1100-GN8BVBE2-2CP	1 HOLE SINK APPLICATION, SINGLE HANDLE, MAXIMUM 1.5 GPM @ 60 PSI, ADA COMPLIANT	
		P-TRAP: MCGUIRE 8872CB	DECK MOUNTED 8" FIXED CENTERS HOT AND COLD WATER SINK FAUCET.	
		DRAIN OFFSET : MCGUIRE 155WC	CAST BRASS CHROME PLATED OFFSET WHEELCHAIR STRAINER WITH POLISHED CHROME CAST BRASS ELBOW, HEAVY RUBBER WASHER, ADA COMPLIANT	
		THERMOSTATIC MIXING VALVE: BRADLEY S59-4007	ADJUSTABLE SET POINT, 1/2" COPPER & 1/2" NPT TAILPIECE	
		P-TRAP INSULATION: MCGUIRE PW2000WC	SEAMLESS RISER TUBE COVERS, SUPPLY ANGLE STOP COVERS, DRAIN TAILPIECE COVER, ANGLE STOP WHEEL HANDLE COVERS, ADA COMPLIANT	
		ACCESSORY: CHICAGO FAUCETS E7JKCP	FULL FLOW NOZZLE LABORATORY SERRATED	
HS-1	HAND SINK	BOWL: T&S BRASS AND BRONZE WORKS BKHS-ADA-S SS3	WALL MOUNTED, 18 GAUGE STAINLESS STEEL CONSTRUCTION, 20" WIDTH x 22" LENGTH	1,2,3
		FAUCET: T&S BRASS AND BRONZE WORKS B-1146-04-WS SS3	2 HOLE SINK APPLICATION, DOUBLE HANDLE, 5 3/4" SWIVEL GOOSENECK, ADA COMPLIANT	
		P-TRAP: MCGUIRE 8872CB	1-1/4" INLET AND OUTLET, CAST BRASS BODY, CLEANOUT AT THE BOTTOM, 18 GAUGE SEAMLESS RUBULAR WALL BEND AND FLANGE	
		DRAIN OFFSET : MCGUIRE 155WC	CAST BRASS CHROME PLATED OFFSET WHEELCHAIR STRAINER WITH POLISHED CHROME CAST BRASS ELBOW, HEAVY RUBBER WASHER, ADA COMPLIANT	
		THERMOSTATIC MIXING VALVE: BRADLEY S59-4007	ADJUSTABLE SET POINT, 1/2" COPPER & 1/2" NPT TAILPIECE	
		P-TRAP INSULATION: MCGUIRE PW2000WC	SEAMLESS RISER TUBE COVERS, SUPPLY ANGLE STOP COVERS, DRAIN TAILPIECE COVER, ANGLE STOP WHEEL HANDLE COVERS, ADA COMPLIANT	
JS-1	STANDARD MOP SINK W/ DUAL TEMPERATURE	BASIN: MUSTEE 63M	MOP SERVICE BASIN, 24"x24"x10" BASIN, WHITE, C/W 65.700 HOSE/HOSE HOLDER, 65.600 MOP HANGER, 63.403 SS BUMPER GUARDS, 67.2424 WALL GUARDS	1,2
		FAUCET: DELTA 28T9 AC	CAST BRASS WALLMOUNT SERVICE SINK FAUCET, TWO HANDLES, INTEGRAL STOPS, ROUGH CHROME PLATED FINISH	
		THERMOSTATIC MIXING VALVE: BRADLEY S59-4007	ADJUSTABLE SET POINT, 1/2" COPPER & 1/2" NPT TAILPIECE	
		P-TRAP: MCGUIRE 8872CB	1-1/4" INLET AND OUTLET, CAST BRASS BODY, CLEANOUT AT THE BOTTOM, 18 GAUGE SEAMLESS RUBULAR WALL BEND AND FLANGE	
		BACKFLOW PREVENTER: WATTS SERIES 009	REDUCED PRESSURE ZONE ASSEMBLY, 1/4" TO 2" INLET AND OUTLET, BRONZE BODY, WATER OUTLET AT THE BOTTOM, SENSOR ON THE RELIEF VALVE FOR FLOOD PREVENTION (1/2" - 2"), MAXIMUM PRESSURE OF 175 PSI	
HB-1	SINGLE TEMPERATURE (COLD) HOSE BIB 316 STAIINLESS STEEL	ACORN 8141-SSLF-316	316 STAINLESS STEEL RECESSED HOSE BOX WITH WALL FLANGE, SINGLE TEMPERATURE WITH VACUUM BREAKER, SCREWDRIVER STOPS, VANDAL RESISTANT LOCK SHIELD, 3/4" MALE, 125 PSI MAXIMUM OPERATING PRESSURE.	-
HB-2	CHANGEROOM DUAL TEMERATURE HOSE BIB	ACORN 8186-SSLF	STAINLESS STEEL RECESSED HOSE BOX, DUAL TEMPERATURE WITH VACUUM BREAKER, SCREWDRIVER STOPS, VANDAL RESISTANT LOCK SHIELD, 3/4" MALE, 125 PSI MAXIMUM OPERATING PRESSURE.	-
HB-3	MECHANICAL ROOM SINGLE TEMPERATURE HOSE BIB	ACORN 8121CP-LF	POLISHED CHROME PLATED WITH VAUUM BREAKER, BENT NOSE WITH FLANGE, CARTRIDGE OPERATED HOSE VBALVE WITH LOCKSHIELD BONNET AND REMOVABLE LOOSE KEY HANDLE, MAX OPERATING PRESSURE 125 PSI	-
HB-4	EXTERIOR NON-FREEZE HOSE BIB	WATTS HY-725	CONCEALED NON-FREEZE KEY OPEATED WALL HYDRANT, NICKEL BRONZE BOX AND DOOR, CHROME PLATED HYDRANT FACE, INTEGRAL 3/4" VACUUM BREAKER, MAX OPERATING PRESSURE 125 PSI	-
HB-5	FLOOR MOUNTED NATATORIUM HOSEBIB	ACORN 8170-SSLF	3/4" HOSE CONNECTION, ENCASED, NON-FREEZE GROUND HYDRANT, 304 SS, SINGLE TEMPERATURE WITH VACUUM BREAKER	4
DF-1	DRINKING FOUNTAIN NATATORIUM	DRINKING FOUNTAIN: ELKAY EDFP210RC	WHITE GRANITE, FRONT PUSH BUTTON, LEAD-FREE, NON-FILTERED, NON-REFRIGERATED	1,2
		ADA DRINKING FOUNTAIN: ELKAY EDFP214RC	WHITE GRANITE, FRONT PUSH BUTTON, LEAD-FREE, NON-FILTERED, NON-REFRIGERATED, ADA COMPLIANT	
DF-2	BI LEVEL DRINKING FOUNTAIN WITH BOTTLE FILLER FILTERED AND REFRIGERATED	DRINKING FOUNTAIN: ELKAY LZSTL8WSLK	BOTTLE FILLING STATION, FILTERED (3,000 GALLON CAPACITY), REFRIGERATED (8 GPH), WALL MOUNTED, 36-3/4" x 19" x 39-1/2", C/W MLP200 IN-WALL CARRIER 38-1/2"x 2-11/16" x 44-1/8"	1,2
		BACKFLOW PREVENTER: WATTS SERIES 009	REDUCED PRESSURE ZONE ASSEMBLY, 1/4" TO 2" INLET AND OUTLET, BRONZE BODY, WATER OUTLET AT THE BOTTOM, SENSOR ON THE RELIEF VALVE FOR FLOOD PREVENTION (1/2" - 2"), MAXIMUM PRESSURE OF 175 PSI	
DF-3	OUTDOOR WALL MOUNTED DRINKING FOUNTAIN	DRINKING FOUNTAIN: ELKAY LK4405FRK	OUTDOOR WALL MOUNTED DRINKING FOUTAIN, NON-FILTERED, FREEZE RESISTANT. HEAVY DUTY VANDAL RESISTANT, 300 SERIES STAINLESS STEEL.	1,2
EWS-1	FREE STANDING EMERGENCY SHOWER AND EYE WASH	EMERGENCY SHOWER AND EYEWASH COMBINATION: 8330/SP220SS	FREE STANDING, STAINLESS STEEL SHOWER HEAD W/ 20GPM FLOW CONTROL, EYEWASH HEAD, DUST COVER, HAND AND FOOT OPERATED, 1-1/4" COLD WATER CONNECTION C/W 2005A FLOOR DRAIN	1,2
		P-TRAP: MCGUIRE 8872CB	1-1/4" INLET AND OUTLET, CAST BRASS BODY, CLEANOUT AT THE BOTTOM, 18 GAUGE SEAMLESS RUBULAR WALL BEND AND FLANGE	
		TMV: HAWS 9201E	THERMOSTAIC MIXING VALVE, MAX 31GPM, 1-1/4" INLET AND OUTLET PORT, ASSE 1071 CERTIFIED TO BE C/W SURFACE MOUNTED 316 SS CABINET	
EW-1	EMERGENCY EYEWASH	EYEWASH: HAWS 7360BT	WALL MOUNTED, STAINLESS STEEL EYE WASH W/ 3.7 GPM FLOW CONTROL, EYEWASH HEAD, HAND OPERATED, 1/2" COLD WATER CONNECTION C/W HAWS MODEL 9102 DUST COVER	1,2
		TMV: HAWS 9201EW	THERMOSTATIC MIXING VALVE, MAX 10 GPM, 1/2" INLET AND 1/2" OUTLET PORT, ASSE 1071 CERTIFIED	
TD-1	POOL DECK AND CHANGEROOM TRENCH DRAIN	CHANNEL: ACO DRAIN SLABDRAIN H100-8	PVC CONSTRUCTION, 2" SCHEDULE 40 PIPE, 3" AND 4" DRAIN PIPE, C/W 248 CHANNEL COUPLING	3
		GRATE: ACO DRAIN TYPE 495Q	ADA COMPLIANT LONGITUDINAL GRAY POLYPROPYLENE GRATE	
FD-1	POOL DECK AND CHANGEROOM SPOT DRAIN	WATTS FD-1160	CHEMICAL RESISTANT PVC FLOOR DRAIN, ANCHOR FLANGE, REVERSIBLE CLMAPING COLLAR, PVC STRAINER WITH SS SCREWS, SOCKET OUTLET	-
FD-2	STANDARD SPOT DRAIN - DRY SPACE	WATTS FD-100-C	WATTS FD-104NH-C-6-3-60, EPOXY COATED CAST IRON FLOOR DRAIN, ANCHOR FLANGE, REVERSIBLE MEMBRANE CLAMP	-
FD-3	SPOT DRAIN - MECHANICAL ROOM	FD-200-A	EPOXY COATED CAST IRON FLOOR DRAIN, ANCHOR FLANGE, NO HUB, 4" PIPE, 5" DIA. NICKEL BRONZE	-
FD-4	SIDE WALL ELEVATOR PIT DRAIN	JAY R SMITH 6040T-NO-HUB-NB	DUCO CAST IRON BODY, NO-HUB, ROUND TOP, NICKEL BRONZE FACE	-
FFD-1	STANDARD FUNNEL FLOOR DRAIN	JAY R SMITH 2006Y-B-P050-U-NB	DUCO CAST IRON BODY, FLASHING COLLAR AND ADJUSTABLE STRAINER HEAD, NO-HUB, ROUND TOP, 6" DIA NICKEL BRONZE STRAINER, SEDIMENT BUCKET, TRAP PRIMER 1/2" CONNECTION, VANDAL PROOF SCREWS	-
AD-1	AREA DRAIN	WATTS FD320	8" BY 8" ADJUSTABLE TOP AREA DRAIN. EPOXY COATED, CAST IRON AREA DRAIN, ANCHOR FLANGE, ROUND ADJUSTABLE TOP, HEEL PROOF DUCTILE IRON GRATE, NO HUB OUTLET, SEDIMENT BUCKET.	-
RD-1	FLOW CONTROL ROOF DRAIN	JAY R SMITH 1310Y-E-CL-C2-R-C-RBD	DUCO CAST IRON BODY, COMBINED FLASHING CLAMP AND GRAVEL STOP, ROUGH BRONZE DOME, "L" SHAPED UNDERDECK CLAMP, SECONDARY FLASHING CLAMP, EXTENSION, SUMP RECEIVER	-
RD-2	ROOF DRAIN W/ OVERFLOW	JAY R SMITH 1800Y-E-C2-U-RBD	CAST IRON COMBINATION ROOF DRAIN/OVERFLOW, FLASHING CLAMP W/ INTEGRAL GRAVEL GUARDS, OVERFLOW STANDPIPE, NO HUB, 4" PIPE SIZE, VANDAL PROOF ROUGH BRONZE DOME, SECONDARY FLASHING CLAMP	-
CW-1	CLOTHES WASHER BOX	OATEY 2X4 WASHING MACHINE BOX	1/4 TURN, COPPER, WATER HAMMER ARRESTOR	-

NOTES:
1. PROVIDE TEE, ADAPTORS AND FLEX FOR FITTINGS.
2. PROVIDE FLOOR FLANGES FOR CONNECTING PIPE DRAINS OFF FIXTURES
3. ARCH TO SPECIFY COLOR
4. TO BE MARINE GRADE EPOXY COATED

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Key Plan

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City of Coquitlam

Site
Burke Mountain, Coquitlam, BC

Sheet title
PLUMBING FIXTURE SCHEDULE

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NOT FOR CONSTRUCTION

POOL FILTER

NOTES:
1. BACKWASH RATE = 20GPM/FT2, FACE PIPING SIZE FOR BACKWASH RATE
2. FILTERS TO BE SEISMICALLY RATED
3. FILTERS PROVIDED WITH MEDIA, REFER TO SEPCIFICATIONS SECTIONS 22 51 19
4. DRUM FILTER PLC CONTROL PANEL TO INTERFACE TO BMS
5. SAND FILTER TO C/W FACE PIPING

EQUIPMENT TAG	DESCRIPTION	LOCATION	MANUFACTURER	MODEL	FILTER AREA (M^2)	DESIGN FLOW (LPS)	DESIGN LOAD (LPS/M^2)	BACKWASH FLOW (LPS)	DIAMETER X HEIGHT (MM)	NOTES
PF-101	LAP POOL SAND FILTER	P2 POOL MECH. RM	WATERCO	SMDD-1400	1.53	10.09	6.66	20.8	1450 X 2308.9	-
PF-102	LAP POOL SAND FILTER	P2 POOL MECH. RM	WATERCO	SMDD-1400	1.53	10.09	6.66	20.8	1450 X 2308.9	-
PF-103	LAP POOL SAND FILTER	P2 POOL MECH. RM	WATERCO	SMDD-1400	1.53	10.09	6.66	20.8	1450 X 2308.9	-
PF-104	LAP POOL SAND FILTER	P2 POOL MECH. RM	WATERCO	SMDD-1400	1.53	10.09	6.66	20.8	1450 X 2308.9	-
PF-201	LEISURE POOL SAND FILTER	P2 POOL MECH. RM	WATERCO	SMDD-1400	1.53	10.09	6.66	20.8	1450 X 2308.9	-
PF-202	LEISURE POOL SAND FILTER	P2 POOL MECH. RM	WATERCO	SMDD-1400	1.53	10.09	6.66	20.8	1450 X 2308.9	-
PF-203	LEISURE POOL SAND FILTER	P2 POOL MECH. RM	WATERCO	SMDD-1400	1.53	10.09	6.66	20.8	1450 X 2308.9	-
PF-204	LEISURE POOL SAND FILTER	P2 POOL MECH. RM	WATERCO	SMDD-1400	1.53	10.09	6.66	20.8	1450 X 2308.9	-
PF-301	HOT POOL SAND FILTER	P2 POOL MECH. RM	WATERCO	SMDD-1400	1.53	10.09	6.66	20.8	1450 X 2308.9	-
PF-302	HOT POOL SAND FILTER	P2 POOL MECH. RM	WATERCO	SMDD-1400	1.53	10.09	6.66	20.8	1450 X 2308.9	-
PF-303	HOT POOL SAND FILTER	P2 POOL MECH. RM	WATERCO	SMDD-1400	1.53	10.09	6.66	20.8	1450 X 2308.9	-
PF-304	HOT POOL SAND FILTER	P2 POOL MECH. RM	WATERCO	SMDD-1400	1.53	10.09	6.66	20.8	1450 X 2308.9	-

POOL UV

NOTES:
1. STRAIGHT FLOW THROUGH DESIGN
2. C/W ETS EZ STRAINER TO MATCH PIPE SIZE
3. WIRE FROM CONTROL PANEL TO UNIT
4. C/W INFINITE POWER CONTROL TO MAINTAIN DOSE
5. LIQUID TEMPERATURE AS NOTED ON POOL DATA

EQUIPMENT TAG	DESCRIPTION	LOCATION	MANUFACTURER	MODEL	FLOW (GPM)	TRANSMITTANCE (%T10)	POWER VOLTAGE	PHASE	FREQUENCY	KW	DOSE (mJ/CM^2)	NOTES
UV-101	LAP POOL UV	P2 POOL MECH. RM	ETS	WF-215-6	500	-	208	3	60	2@1.5	60	-
UV-201	LEISURE POOL UV	P2 POOL MECH. RM	ETS	WF-215-6	700	-	208	3	60	2@1.5	60	-
UV-301	HOT POOL UV	P2 POOL MECH. RM	ETS	WF-215-6	700	-	208	3	60	2@2.5	60	-

POOL GAS STRIPPER

NOTES:
1. MOUNTED ON 100MM HIGH HOUSEKEEPING PAD

EQUIPMENT TAG	DESCRIPTION	LOCATION	MANUFACTURER	MODEL	AIR COLUMN (LPS)	DESIGN FLOW (LPS)	NOTES
PGS-101	LAP POOL GAS STRIPPER	P2 POOL MECH. RM	ULTRA AQUA	UAQ1	-	-	-
PGS-201	LEISURE POOL GAS STRIPPER	P2 POOL MECH. RM	ULTRA AQUA	UAQ1	-	-	-
PGS-201	HOT POOL GAS STRIPPER	P2 POOL MECH. RM	ULTRA AQUA	UAQ1	-	-	-

POOL HEAT EXCHANGER

NOTES:
1. MATERIALS TO BE SUITABLE FOR CHLORINATED POOL AND SPA WATER, TO BE CORROSION RESISTANT AND CONSTRUCTED OF TITANIUM (0.5 mm. SINGLE WALL).
2. PROVIDE 15% EXTRA HEAT EXCHANGER AREA IN EVAP MODE FOR FUTURE FOULING.
3. PROVIDE ABILITY TO ALLOW MINIMUM 15% ADDITIONAL CAPACITY BY ADDING PLATES
4. C/ W VITON SEALS
5. LWT (LEAVING WATER TEMPERATURE) FOR REFERENCE ONLY

					HEAT UP MODE										EVAP MODE									
						HOT SIDE (SOURCE)				COLD SIDE (LOAD, POOL WATER)						HOT SIDE (SOURCE)				COLD SIDE (LOAD SIDE, POOL WATER)				
EQUIPMENT TAG	DESCRIPTION	LOCATION	MANUFACTURER	MODEL	MIN. CAPACITY KW (MBH)	FLOW RATE (L/S)	P. DROP (KPA)	EWT (C)	LWT (C)	FLUID	FLOW RATE (L/S)	P. DROP (KPA)	EWT (C)	LWT (C)	FLUID	MIN. CAPACITY KW(MBH)	FLOW RATE (L/S)	P. DROP (KPA)	EWT (C)	LWT (C)	FLUID	FLOW RATE (L/S)	P. DROP (KPA)	EWT (C)	LWT (C)	NOTES
PHE-101	LAP POOL HEAT EXCHANGER	P2 POOL MECH. RM	ALFA LAVAL	AG2T-PFG	293 KW (1000 MBH)	4.2 L/S (66 GPM)	< 30 KPA (10 FT)	65.5°C(150°F)	-	HIGH GRADE HW	6.3L/S (100 GPM)	< 30 KPA (10 FT)	28°C(82.4°F)	-		59 KW (200 MBH)	1.7 L/S (27 GPM)	< 30 KPA (10 FT)	43.3°C(110°F)	-	LOW GRADE HW	6.3L/S (100 GPM)	< 30 KPA (10 FT)	28°C(82.4°F)	-	1, 2, 3, 4, 5
PHE-201	LEISURE POOL HEAT EXCHANGER	P2 POOL MECH. RM	ALFA LAVAL	AG2T-PFG	366 KW (1250 MBH)	5.2 L/S (83 GPM)	< 30 KPA (10 FT)	65.5°C(150°F)	-	HIGH GRADE HW	7.6L/S (120 GPM)	< 30 KPA (10 FT)	32°C(89.6°F)	-		190KW (650MBH)	5.5 L/S (86 GPM)	< 30 KPA (10 FT)	43.3°C(110°F)	-	LOW GRADE HW	7.6L/S (120 GPM)	< 30 KPA (10 FT)	32°C(89.6°F)	-	1, 2, 3, 4, 5
PHE-301	HOT TUB POOL HEAT EXCHANGER	P2 POOL MECH. RM	ALFA LAVAL	AG4T-PFG	293 KW (1000 MBH)	4.2 L/S (67 GPM)	< 30 KPA (10 FT)	65.5°C(150°F)	-	HIGH GRADE HW	4.7L/S (75 GPM)	< 30 KPA (10 FT)	40°C(104°F)	-		59 KW (200 MBH)	0.84 L/S (13.3 GPM)	< 30 KPA (10 FT)	65.5°C(150°F)	-	HIGH GRADE HW	4.7L/S (75 GPM)	< 30 KPA (10 FT)	40°C(104°F)	-	1, 2, 3, 4, 5

POOL PUMPS

NOTES:
1. C/W CIMXX FOR COMMS COMMUNICATION - PROTOCOL TO BE VERIFIED PRIOR TO ORDERING
2. C/W EXTERNAL ABB VFD: ACH580 W/ HORSEPOWER & VOLTAGE SUITABLE TO PUMP SELECTION (C/W DISCONNECT)
3. ALL SS CONSTRUCTION SUITABLE FOR USE IN POTABLE SYSTEMS
4. PREFABRICATED BOOSTER SKID C/W CONTROLS, VALVES, HEADERS, PRESSURE GAUGES, VFD - SINGLE POINT DISCONNECT
5. ULTRA-PREMIUM EFFICIENCY IE5 ECM MOTOR C/W INTEGRATED VSD
6. C/W INTERNAL PRESSURE SENSOR
7. C/W INTERNAL TEMPERATURE SENSOR
8.C/W SUMP ACCESSORIES: AUTOCOUPLE, LIFT CHAIN, COMMS CAPABLE CONTROL PANEL, FLOATS, FLOAT HANGER, HATCH COVER
9. 575V/3P CAPABLE FROM FACTORY
10. HORIZONTAL END SUCTION PUMP
11. C/W SUCTION DIFFUSER
12. C/W TRIPLE-DUTY VALVE
13. EPOXY COATED HOUSING SUITABLE FOR POOL ENVIRONMENT
14. 3-SPEED PUMP
15. BASE MOUNTED PUMP
16. IN-LINE CIRCULATOR
17. HIGH PRESSURE CAPABLE
18. TEFC MOTOR
19. TEFC MOTOR W/ SHAFT GROUND RING

EQUIPMENT TAG	DESCRIPTION	LOCATION	MANUFACTURER	MODEL	HEAD (FT)	FLUID FLOW (GPM)	FLUID TEMP (F)	MOTOR (HP)	NOTES
PP-001	BULK FEED PUMP	POOL CHEMICAL ROOM	GRUNDFOS	20705	25	50	-	2	2,13
PP-101	LAP POOL FILTER PUMP	P2 POOL MECH. RM	GRUNDFOS	NBS 40-095-4P	70	640	85	-	2,9,10,13,15,19
PP-102	LAP POOL GAS STRIPPER PUMP	P2 POOL MECH. RM	GRUNDFOS	NBS 025-070-4P	20	130	-	1.5	2,13
PP-103	WATERSLIDE PUMP	P2 POOL MECH. RM	GRUNDFOS	NBS 030-095-4P	50	300	85	10	2,9,10,13,15,19
PP-110	CL2 GAS BOOSTER PUMP	CHLORINE GAS ROOM	GRUNDFOS	CRN 3-15	-	-	-	3	2
PP-111	SODA ASH PUMPS	POOL CHEMICAL ROOM	STENNER	85M5	-	-	-	2	-
PP-112	CHEMICAL BYPASS PUMP	P2 POOL MECH. RM	GRUNDFOS	20705 VL	50	50	85	2	13,18
PP-201	LEISURE POOL FILTER PUMP	P2 POOL MECH. RM	GRUNDFOS	NBS 40-095-4P	70	720	85		2,9,10,13,15,19
PP-202	LEISURE POOL GAS STRIPPER PUMP	P2 POOL MECH. RM	GRUNDFOS	NBS 025-070-4P	20	130	-	1.5	2,13
PP-203	LAZY RIVER JET PUMP	P2 POOL MECH. RM	GRUNDFOS	NBS 050-095-4P	50	1080	85		2,9,10,13,15,19
PP-204	LEISURE FEATURE PUMP	P2 POOL MECH. RM	GRUNDFOS	NBS 025-095-4P	50	194	85		2,9,10,13,15,19
PP-210	CL2 GAS BOOSTER PUMP	CHLORINE GAS ROOM	GRUNDFOS	CRN 3-15	-	-	-	3	2, 13
PP-211	SODA ASH PUMP	CHLORINE CHEMICAL ROOM	STENNER	85M5	-	-	-	2	-
PP-212	CHEMICAL BYPASS PUMP	P2 POOL MECH. RM	GRUNDFOS	20705 VL	50	50	85	2	13,18
PP-301	HOT POOL FILTER PUMP	P2 POOL MECH. RM	GRUNDFOS	NBS 030-095-4P	70	500	102		2,9,10,13,15,19
PP-302	HOT POOL JET PUMP	P2 POOL MECH. RM	GRUNDFOS	NBS 030-095-4P	50	360	102		2,9,10,13,15,19
PP-303	HOT POOL GAS STRIPPER PUMP	P2 POOL MECH. RM	GRUNDFOS	NBS 025-070-4P	20	130	-	1.5	2,13
PP-310	CL2 GAS BOOSTER PUMP	CHLORINE GAS ROOM	GRUNDFOS	CRN 3-15	-	-	-	3	2
PP-311	SODA ASH PUMP	POOL CHEMICAL ROOM	STENNER	85M5	-	-	-	2	-
PP-312	CHEMICAL BYPASS PUMP	P2 POOL MECH. RM	GRUNDFOS	20705 VL	50	50	102	2	13,18

POOL FANS

NOTES:
1. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION
2. REFER TO MOTORLIST FOR ELECTRICAL REQUIREMENTS
3. PRODUCT COLOUR TO BE SELECTED BY THE ARCHITECT DURING SHOP DRAWING SUBMITTAL PROCESS
4. C/W GAS DETECTION SYSTEM
5. FACTORY ALUMINUM GRAVITY DAMPER
6. FACTORY MOUNTED SPEED CONTROL DIAL ON FAN FOR BALANCING
7. ECM MOTOR, 0-10 VDC INPUT SIGNAL W/ FACTORY MOUNTED TRANSFORMER C/W LOW VOLTAGE RELAY FOR CONNECTION TO BMS
8. PROVIDE MIN. 14" SEISMIC ROOF CURB
9. MOTOR SIDE GUARD
10. UC/CUL 762 OPTION
11. DRAIN CONNECTION
12. FLANGED INLET & OUTLET
13. ACOUSTICALLY LINED CABINET
14. COMPLETE WITH CUSTOM GUARD RATED FOR GYMNASIUM

CD	DESCRIPTION	LOCATION	MANUFACTURER	MODEL	AIRFLOW (L/S)	BHP	MAX E.S.P (PA)	DRIVE TYPE	FAN RPM	FAN TYPE	SOUND LEVEL	WEIGHT (KG)	NOTES
GSF-01	LAP POOL GAS STRIPPER BLOWER FAN	P2 POOL MECH. RM	PLASTEC	P20S56P025	11		156.8	DIRECT	1120	CENTRIFUGAL		10.6	
GSF-02	LEISURE POOL GAS STRIPPER BLOWER FAN	P2 POOL MECH. RM	PLASTEC	P20S56P025	11		156.8	DIRECT	1120	CENTRIFUGAL		10.6	
GSF-03	HOT POOL GAS STRIPPER BLOWER FAN	P2 POOL MECH. RM	PLASTEC	P20S56P025	11		156.8	DIRECT	1120	CENTRIFUGAL		10.6	

POOL CHEMICAL TANK

NOTES:
1. TANKS TO BE SEISMICALLY RATED
2. TANKS TO COME WITH MOUNTING...
3. CHEMICALLY RESISTANT FOR SODIUM...
4. TANKS TO COME WITH ALL APPLICABLE CONNECTIONS FOR POOL SYSTEMS REFER TO...
5. ALL FLANGE CONNECTIONS TO BE ON THE VANSONE FLANGE CONNECTIONS
6. PROVIDE HINGED LID, REFER TO DETAILS

EQUIPMENT TAG	DESCRIPTION	LOCATION	MANUFACTURER	MODEL	DESIGN CAPACITY (L)	DIMENSIONS (D x H) (MM)	NOTES
PTK-001	BULK FEED PUMP	POOL CHEMICAL ROOM	-	-	500 USG	-	-
PTK-002	SODA ASH TANK	POOL CHEMICAL ROOM	-	-	300 USG	-	-

POOL MOTORLIST

SUPPLIER/INSTALL/WIRE CODES:

M - MECHANICAL
E - ELECTRICAL
G - GENERAL CONTRACTOR

STARTER CODES:

MAN - MANUAL STARTER
MAG - MAGNETIC STARTER W/ HOA SWITCH W/ AUX. CONTACTS
MRR - MOTOR RATED RELAY, 24 VAC COIL
PCS - PACKAGED CONTROL SYSTEM
VSD - VARIABLE SPEED DRIVE
RVS - REDUCED VOLTAGE STARTER
WS - WALL SWITCH
CP - CONTROL PANEL

CONTROL DEVICE CODES:

BMS - BLDG MANAGEMENT SYSTEM
ES - END SWITCH
ET - LINE VOLTAGE T'STAT
FA - FIRE ALARM
FS - FLOW SWITCH
GS - GAS SENSOR
H - HUMIDITY SENSOR
I - INTERLOCK, SEE NOTES
LS - LEVEL SWITCH
TC - TIME CLOCK
T - LOW VOLTAGE T'STAT OR SENSOR
TS - TAMPER SWITCH
VS - VARIABLE SPEED SWITCH
WS - WALL SWITCH
FAP - FIRE ALARM PANEL
DDC - DIRECT DIGITAL CONTROL
PCS - PACKAGED CONROL SYSTEM

INT - INTEGRAL MANUAL STARTER

LOCATION CODES:

1 - AT OR NEAR MOTOR
2 - MOTOR CONTROL CENTRE
3 - EQUIPMENT ROOM
4 - ELECTRICAL ROOM
5 - AS SHOWN ON DRAWINGS

MISCELLANEOUS CODES:

FFCP - FIRE FIGHTERS CONTROL PANEL
FRAC = FRACTIONAL HORSEPOWER
INT = INTEGRAL PART OF UNIT

NOTES:

1. SINGLE POINT POWER CONNECTION (EXCEPT FOR LIGHTS)
2. PROVIDE SEPARATE 120V CIRCUIT FOR MARINE LIGHTS AND CONVENIENCE OUTLET
3. 120V TO 240V HARDWIRED TRANSFORMER
4. PROVIDE 120V RECEPTACLE FOR PLUG-IN TRANSFORMER
5. AIR CURTAIN TO BE OPERATED BY DOOR SWITCH AND 24V CONTROLS
6. INDOOR UNIT TO BE POWERED BY OUTDOOR UNIT
7. TRAP PRIMERS WILL BE SOLENOID STYLE AND EACH WILL REQUIRE POWER
8. PROVIDE GAS/OIL BOILER/WATER HEATER EMERGENCY STOP BUTTON AT MECH ROOM DOOR
9. REFER TO ALTERNATE SOLUTION REPORT FOR DETAILS
10. FAN TO BE INTERLOCKED WITH DISHWASHER
11. UNIT TO SHUT DOWN ON CALL FROM KITCHEN HOOD FIRE SUPPRESSION SYSTEM
12. REQUIRES RECEPTACLE
13. SPRINKLER ZONE VALVES AND FLOW SWITCHES TO BE MONITORED BY THE FIRE ALARM SYSTEM
14. FIRE ALARM PANEL TO HAVE DRY CONTACT FOR BMS
15. SMOKE DETECTOR REQUIRED IN RETURN DUCT MAIN
16. POWER 2 BMS PANELS PER FLOOR & 2 PANELS IN PENTHOUSE

EQUIPMENT TAG	QUANTITY	LOCATION	DESCRIPTION	EMERGENCY POWER SUMMER	EMERGENCY POWER WINTER	SHELTER USE SUMMER	SHELTER USE WINTER	STANDBY EQ. & POWER	NORMAL POWER USE SUMMER	NORMAL POWER USE WINTER	ELECTRICAL LOAD MCA	FLA	KW	HP	V	PH	Hz	EQUIPMENT S	EQUIPMENT I	EQUIPMENT C	STARTER S	STARTER I	STARTER C	STARTER TYPE	DISCONNECT S	DISCONNECT I	DISCONNECT C	CONTROL S	CONTROL I	CONTROL C	CONTROL TYPE	FFCP AUTO ON	FFCP AUTO OFF	FFCP PNL SWITCH	FFCP STATUS	NOTES
CONTROLLER POOL																																				
CC-101		P2-POOL MECH. RM	LAP POOL CHEMICAL CONTROLLER						YES	YES	-	-			120	1	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-
CC-101		P2-POOL MECH. RM	LAP POOL CHEMICAL CONTROLLER	YES	YES				YES	YES	-	-			120	1	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-
CC-102		P2-POOL MECH. RM	LAP POOL UV CONTROL PANEL						YES	YES	-	-			120	1	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-
CC-201		P2-POOL MECH. RM	LEISURE POOL CHEMICAL CONTROLLER						YES	YES	-	-			120	1	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-
CC-202		P2-POOL MECH. RM	LEISURE POOL UV CONTROL PANEL						YES	YES	-	-			120	1	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-
CC-301		P2-POOL MECH. RM	HOT POOL CHEMICAL CONTROLLER						YES	YES	-	-			120	1	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-
CC-302		P2-POOL MECH. RM	POOL UV CONTROL PANEL						YES	YES	-	-			120	1	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-
CO2-101		POOL CHEMICAL ROOM	LAP POOL CO2 CONTROLLER						YES	YES	-	-			120	1	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-
CO2-201		POOL CHEMICAL ROOM	LEISURE POOL CO2 CONTROLLER						YES	YES	-	-			120	1	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-
CO2-301		POOL CHEMICAL ROOM	HOT LAP POOL CO2 CONTROLLER						YES	YES	-	-			120	1	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-
FAN - POOL																																				
GSF-01	1	P2 POOL MECH. RM	LAP POOL GAS STRIPPER BLOWER FAN						YES	YES				FRAC	120	1	60																			-
GSF-02	1	P2 POOL MECH. RM	LEISURE POOL GAS STRIPPER BLOWER FAN						YES	YES				FRAC	120	1	60																			-
GSF-03	1	P2 POOL MECH. RM	HOT POOL GAS STRIPPER BLOWER FAN						YES	YES				FRAC	120	1	60																			-
POOL GENERIC PLUMBING																																				
POOL HEX																																				
PHE-101		P2 POOL MECH. RM	LAP POOL HEAT EXCHANGER						YES	YES																										
PHE-201		P2 POOL MECH. RM	LEISURE POOL HEAT EXCHANGER						YES	YES																										
PHE-301		P2 POOL MECH. RM	HOT TUB POOL HEAT EXCHANGER						YES	YES																										
POOL UV																																				
UV-101	-	P2 POOL MECH. RM	LAP POOL UV						YES	YES	-	-	2@1.5	-	208	3	60	M	M	E	E	E	E	PCS	E	E	E	M	M	M	BMS	-	-	-	-	-
UV-201	-	P2 POOL MECH. RM	LEISURE POOL UV						YES	YES	-	-	2@1.5	-	208	3	60	M	M	E	E	E	E	PCS	E	E	E	M	M	M	BMS	-	-	-	-	-
UV-301	-	P2 POOL MECH. RM	HOT POOL UV						YES	YES	-	-	2@2.5	-	208	3	60	M	M	E	E	E	E	PCS	E	E	E	M	M	M	BMS	-	-	-	-	-
PUMP - POOL																																				
PP-001	1	POOL CHEMICAL ROOM	BULK FEED PUMP						YES	YES	-	-	-	2	208	3	60	M	M	E	M	M	E	HOA	E	E	E	M	M	M	BMS	-	-	-	-	
PP-101	1	P2 POOL MECH. RM	LAP POOL FILTER PUMP						YES	YES	-	-	-			3	60	M	M	E	M	M	E	VFD	E	E	E	M	M	M	BMS	-	-		-	
PP-102	1	P2 POOL MECH. RM	LAP POOL GAS STRIPPER PUMP						YES	YES	-	-	-	1.5	208	3	60	M	M	E	M	M	E	VFD	E	E	E	M	M	M	BMS					
PP-103	1	P2 POOL MECH. RM	WATERSLIDE PUMP						YES	YES	-	-	-	10	575	3	60	M	M	E	M	M	E	VFD	E	E	E	M	M	M	BMS					
PP-110	1	CHLORINE GAS ROOM	CL2 GAS BOOSTER PUMP						YES	YES	-	-	-	3	208	3	60	M	M	E	M	M	E	HOA	E	E	E	M	M	M	BMS					
PP-111	1	POOL CHEMICAL ROOM	SODA ASH PUMPS						YES	YES	-	-	-	2	575	3	60	M	M	E	M	M	E	VFD	E	E	E	M	M	M	BMS					
PP-112	1	P2 POOL MECH. RM	CHEMICAL BYPASS PUMP						YES	YES	-	-	-	2	208	3	60	M	M	E	M	M	E	HOA	E	E	E	M	M	M	BMS					
PP-201	1	P2 POOL MECH. RM	LEISURE POOL FILTER PUMP						YES	YES	-	-	-			3	60	M	M	E	M	M	E	VFD	E	E	E	M	M	M	BMS	-	-		-	
PP-202	1	P2 POOL MECH. RM	LEISURE POOL GAS STRIPPER PUMP						YES	YES	-	-	-	1.5	208	3	60	M	M	E	M	M	E	VFD	E	E	E	M	M	M	BMS					
PP-203	1	P2 POOL MECH. RM	LAZY RIVER JET PUMP						YES	YES	-	-	-			3	60	M	M	E	M	M	E	VFD	E	E	E	M	M	M	BMS	-	-		-	
PP-204	1	P2 POOL MECH. RM	LEISURE FEATURE PUMP						YES	YES	-	-	-			3	60	M	M	E	M	M	E	VFD	E	E	E	M	M	M	BMS	-	-		-	
PP-210	1	CHLORINE GAS ROOM	CL2 GAS BOOSTER PUMP						YES	YES	-	-	-	3	208	3	60	M	M	E	M	M	E	HOA	E	E	E	M	M	M	BMS					
PP-211	1	CHLORINE CHEMICAL ROOM	SODA ASH PUMP						YES	YES	-	-	-	2	575	3	60	M	M	E	M	M		VFD	E	E	E	M	M	M	BMS					
PP-212	1	P2 POOL MECH. RM	CHEMICAL BYPASS PUMP						YES	YES	-	-	-	2	208	3	60	M	M	E	M	M	E	HOA	E	E	E	M	M	M	BMS					
PP-301	1	P2 POOL MECH. RM	HOT POOL FILTER PUMP						YES	YES	-	-	-			3	60	M	M	E	M	M	E	VFD	E	E	E	M	M	M	BMS	-	-		-	
PP-302	1	P2 POOL MECH. RM	HOT POOL JET PUMP						YES	YES	-	-	-			3	60	M	M	E	M	M	E	VFD	E	E	E	M	M	M	BMS	-	-		-	
PP-303	1	P2 POOL MECH. RM	HOT POOL GAS STRIPPER PUMP						YES	YES	-	-	-	1.5	208	3	60	M	M	E	M	M	E	VFD	E	E	E	M	M	M	BMS					
PP-310	1	CHLORINE GAS ROOM	CL2 GAS BOOSTER PUMP						YES	YES	-	-	-	3	208	3	60	M	M	E	M	M	E	HOA	E	E	E	M	M	M	BMS					
PP-311	1	POOL CHEMICAL ROOM	SODA ASH PUMP						YES	YES	-	-	-	2	575	3	60	M	M	E	M	M	E	VFD	E	E	E	M	M	M	BMS					
PP-312	1	P2 POOL MECH. RM	CHEMICAL BYPASS PUMP						YES	YES	-	-	-	2	208	3	60	M	M	E	M	M	E	HOA	E	E	E	M	M	M	BMS					

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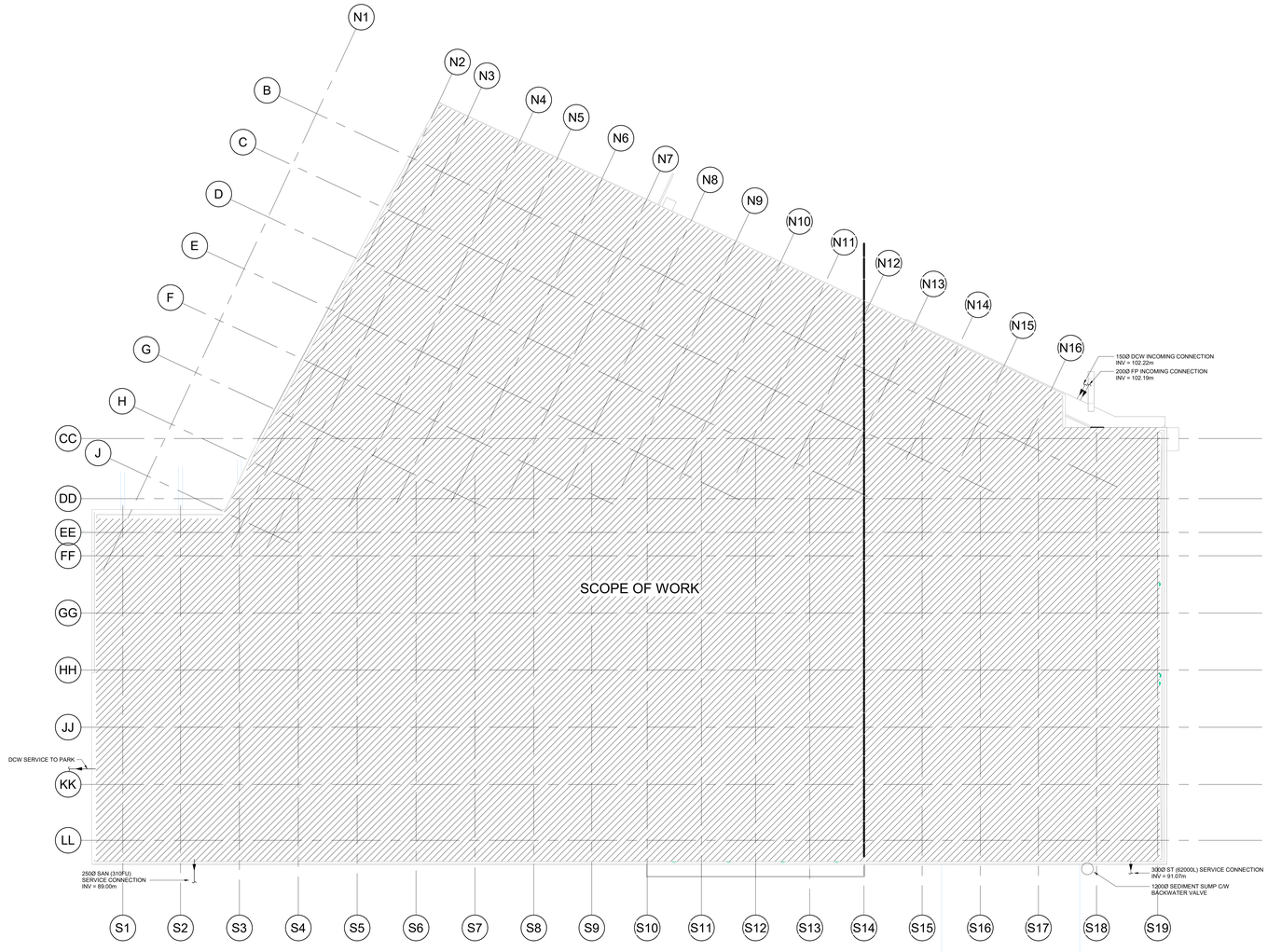
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Sheet title
POOL MOTORLIST & SCHEDULES

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M010

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1 / M100 SITE PLAN
SCALE: 1 : 200

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SITE PLAN

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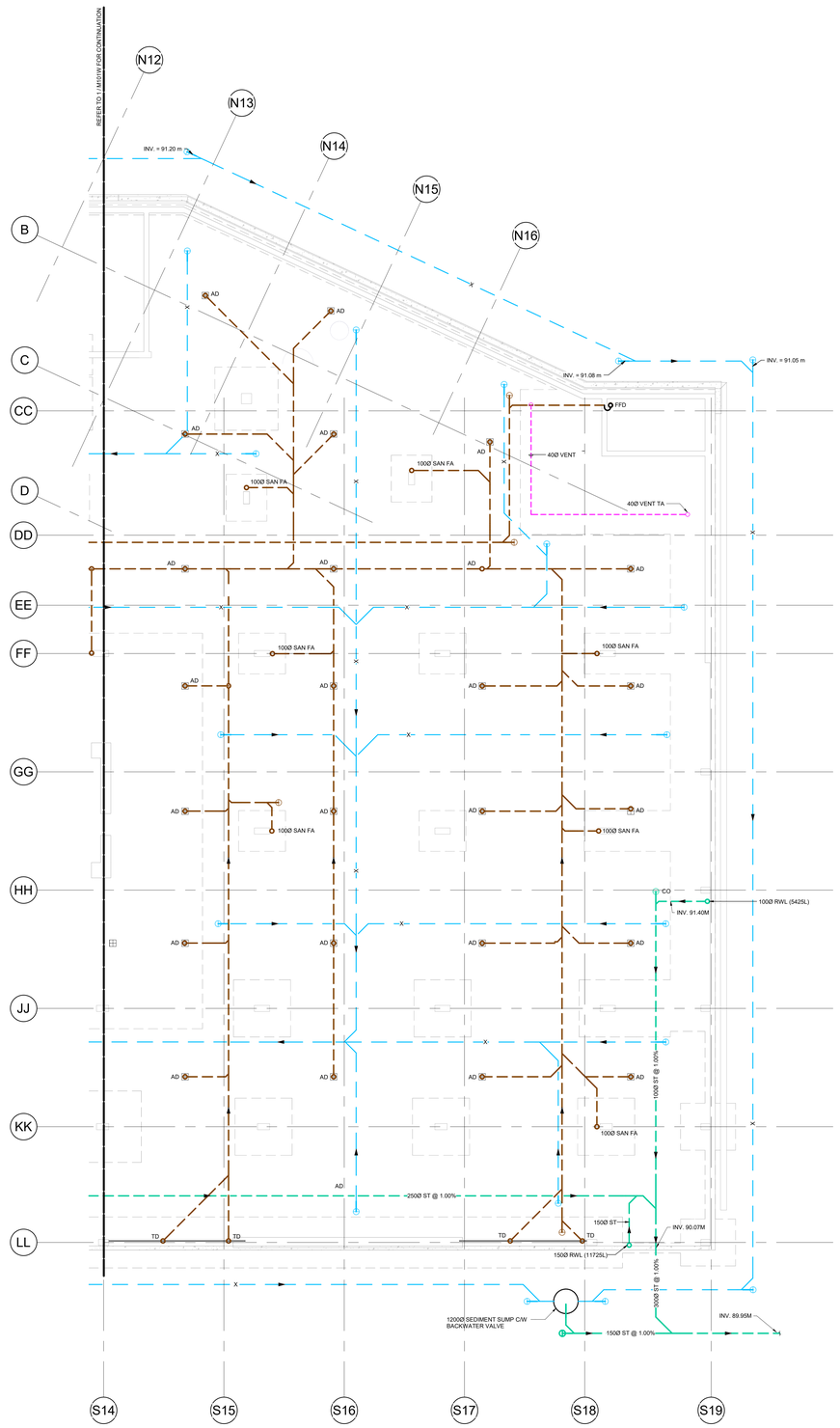
GENERAL NOTES

1. ALL DRAIN TILE IS 150Ø @0.5%

2. PROVIDE CLEANOUTS EVERY 15 METERS ON STRAIGHT LENGTHS OF DRAINAGE PIPING AS PER MMCD 2020.

KEY NOTES

1. ELEVATOR INSPECTION CHAMBER C/W
   BACKWATER VALVE
   RIM DIAMETER : 1200 Ø
   RIM ELEVATION : 92.0 m
   NE INLET INV. : 90.33 m
   E INLET INV. : 90.30 m
   SE INLET INV. : 90.57 m
   OUTLET INV. : 90.25 m
   SUMP BOTTOM : 90.05 m
   REFER TO DETAIL X ON DRAWING MXXX FOR
   ELEVATOR INSPECTION CHAMBER DETAIL



1 M101E FOUNDATION PLAN - EAST
SCALE: 1 : 100

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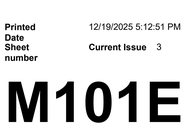
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FOUNDATION PLAN - EAST

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M101E

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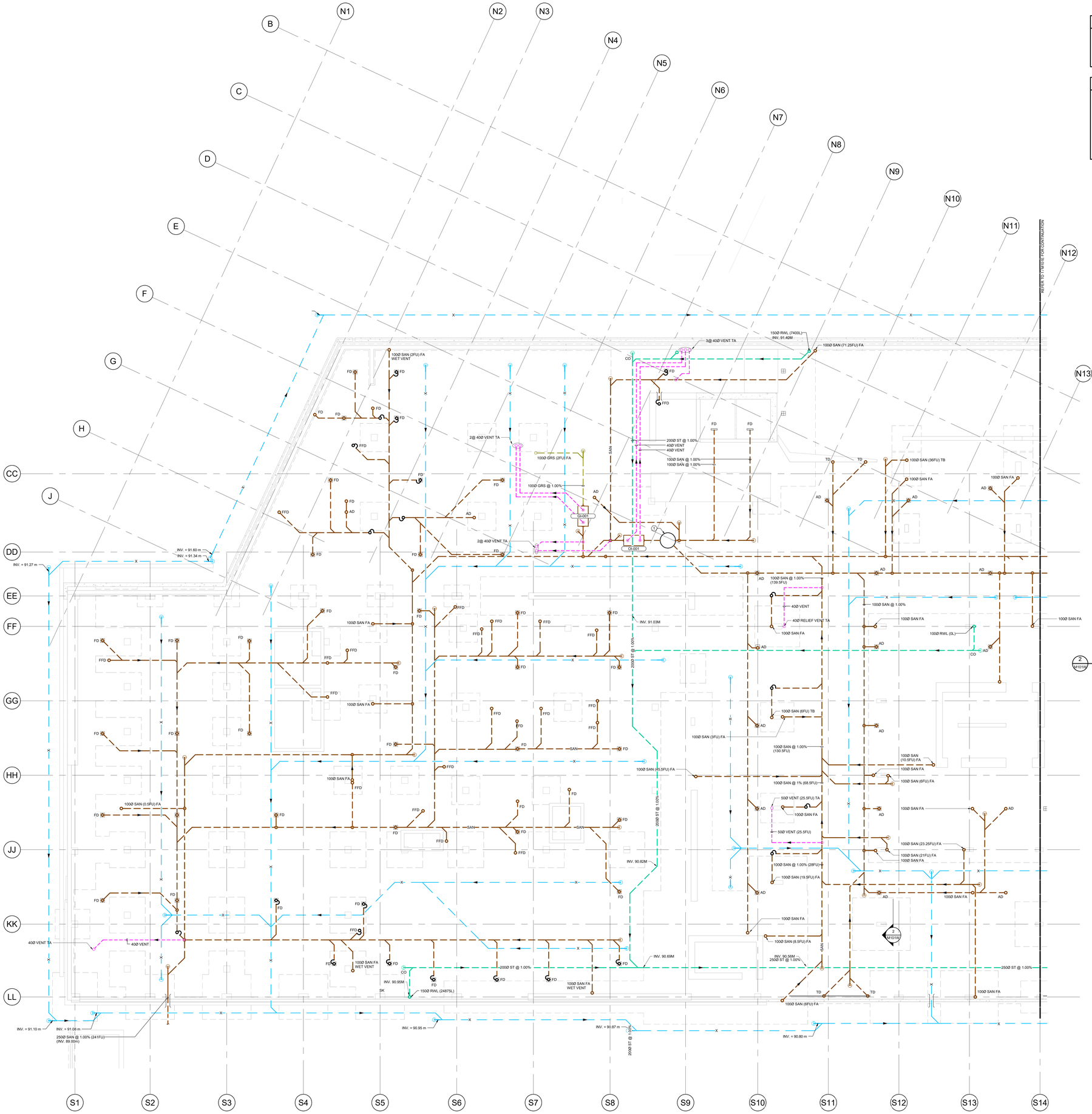
GENERAL NOTES

1. ALL DRAIN TILE IS 150Ø @0.5%

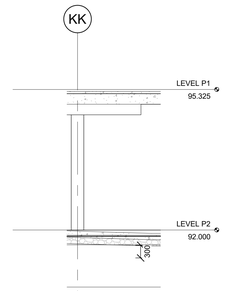
2. PROVIDE CLEANOUTS EVERY 15 METERS ON STRAIGHT LENGTHS OF DRAINAGE PIPING AS PER NBC 2020.

KEY NOTES

1. ELEVATOR INSPECTION CHAMBER C/W
   BACKWATER VALVE
   RIM DIAMETER : 1200 Ø
   RIM ELEVATION : 92.0 m
   NE INLET INV. : 90.33 m
   E INLET INV. : 90.30 m
   SE INLET INV. : 90.57 m
   OUTLET INV. : 90.25 m
   SUMP BOTTOM : 90.05 m
   REFER TO DETAIL X ON DRAWING MXXX FOR ELEVATOR INSPECTION CHAMBER DETAIL



1 M101W FOUNDATION PLAN - WEST
SCALE: 1 : 100



2 M101W TYPICAL PIPE DROP ON TOP OF FOOTING
SCALE: 1 : 50

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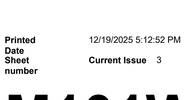
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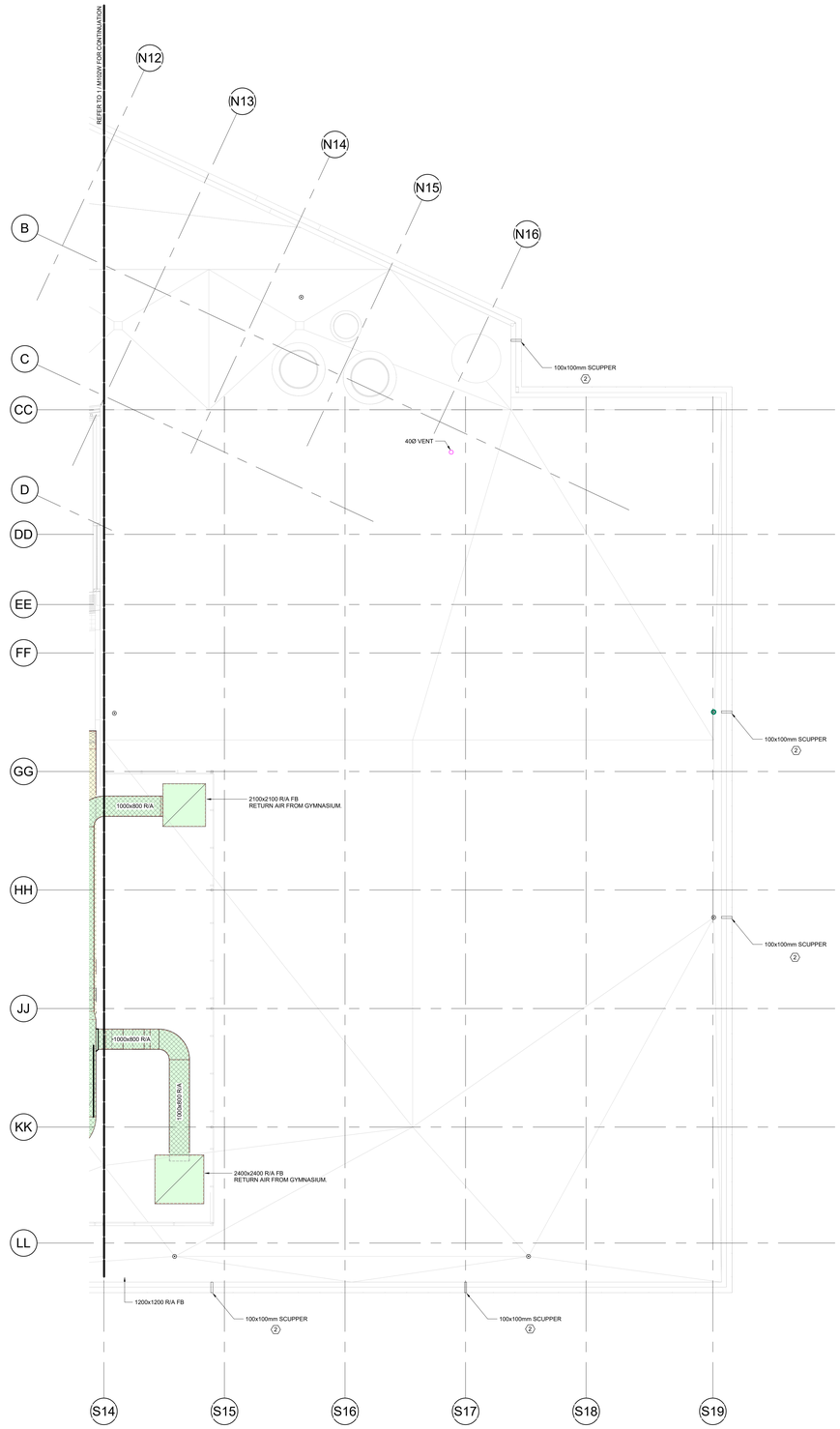
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1 M102E ROOF PLAN - EAST
SCALE: 1 : 100

KEY NOTES	
1	FOR ROOF SCUPPERS; REFER TO ARCHITECTURAL DRAWINGS FOR FURTHER DETAILS.

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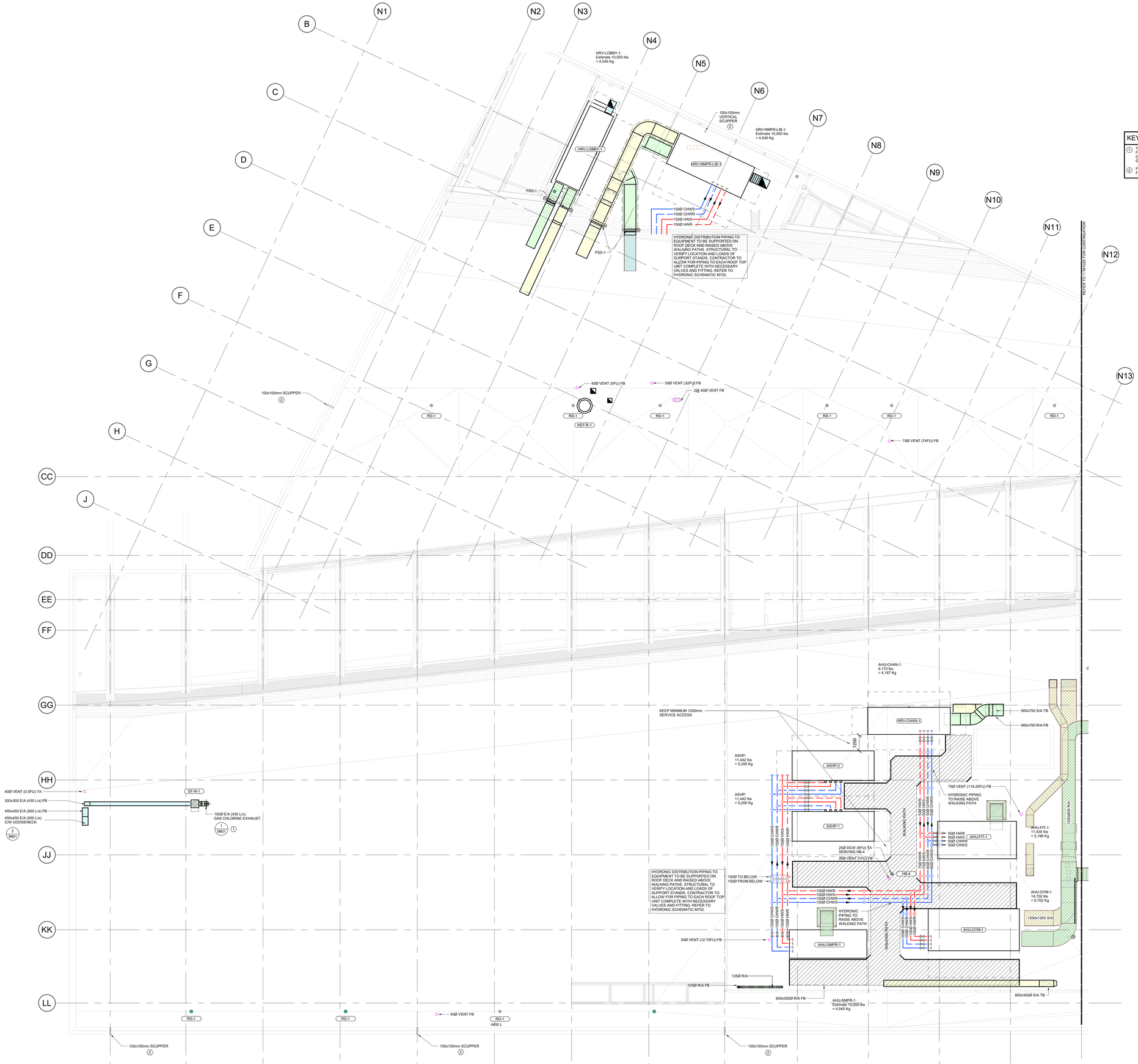
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ROOF PLAN - EAST

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1 M102W ROOF PLAN - WEST
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KEY NOTES

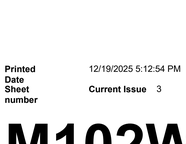
1. THE TERMINATION OF THE EXHAUST DUCT MUST BE A MINIMUM 3000mm FROM THE HIGHEST POINT OF THE ROOF AND ANY EQUIPMENT LOCATED ON IT. CONTRACTOR SHALL ALLOW IN COST A WINDSOCK TO SHOW WIND DIRECTIONS FOR EMERGENCY CHLORINE GAS DISCHARGE SITUATIONS.
2. FOR ROOF SCUPPERS, REFER TO ARCHITECTURAL DRAWINGS FOR FURTHER DETAILS.

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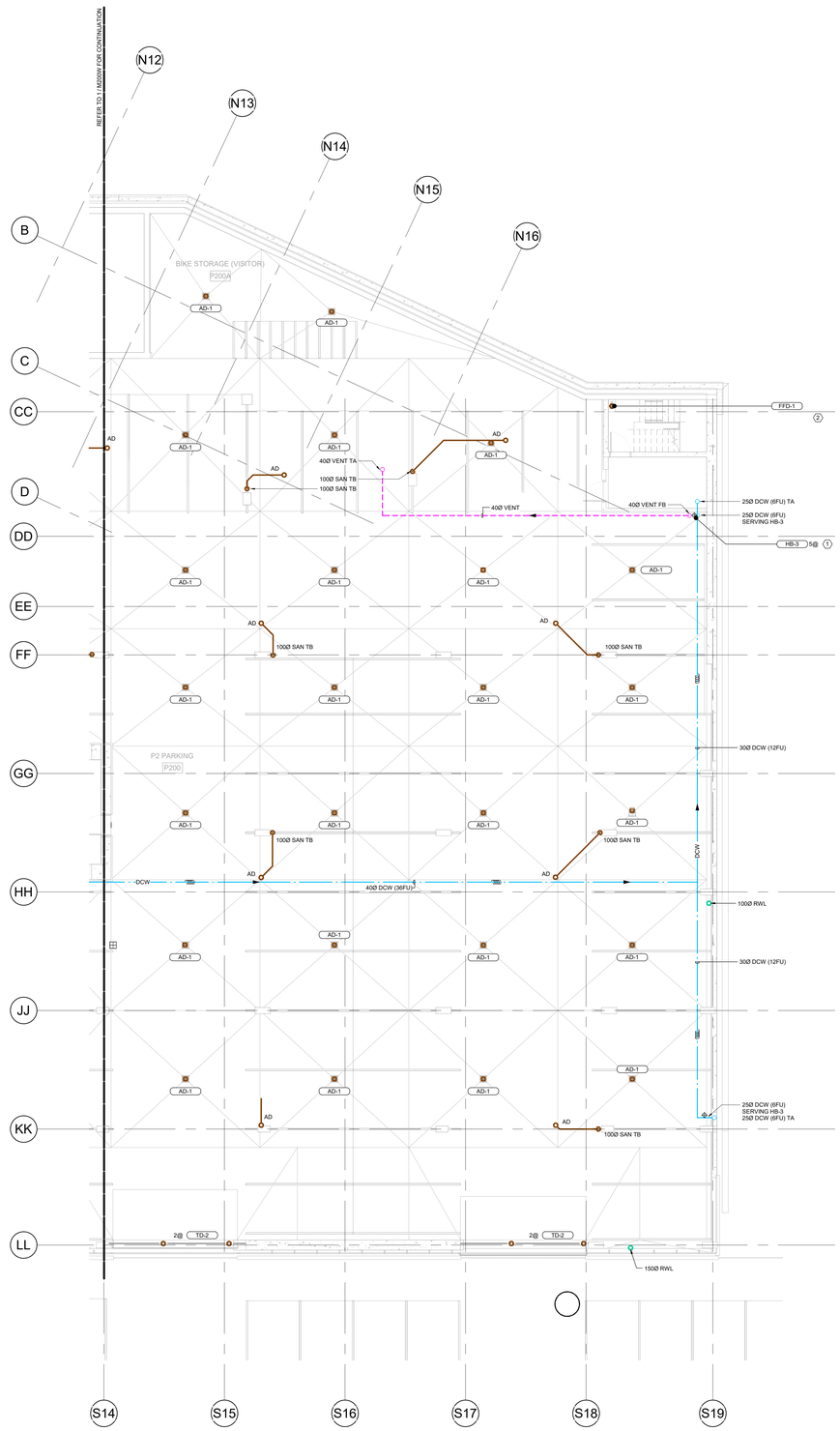
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ROOF PLAN - WEST

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M102W



1 M200E PLUMBING - LEVEL P2 - EAST
SCALE: 1 : 100

GENERAL NOTES - BMCC

1. CONTRACTOR SHALL PROVIDE PIPING GUARDS FOR ALL EXPOSED LINES RUN DOWN WALLS OR COLUMNS ON PARKADE LEVEL. ALL PIPING SHALL ENSURE THAT IT DOES NOT IMPEDE DRIVE ISLE OR PARKING STALL. CONTRACTOR TO PROVIDE THEIR OWN BOLLARDS OR EQUIVALENT PROTECTION. PIPE WORK NOT MEETING CLEARANCE REQUIREMENTS WILL BE REQUESTED TO BE RE/RE AT NO COST TO THE OWNER.
2. ALL SANITARY AND STORM LINES TO BE INSULATED.
3. CONTRACTOR TO ENSURE THAT ALL PIPING PENETRATING FIRE RATED ASSEMBLIES ARE PROPERLY FIRE STOPPED. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING A PROFESSIONAL ENGINEER TO REVIEW ALL INSTALLATIONS FOR CONFORMANCE WITH REQUIRED LISTINGS - SEE SPECS FOR FURTHER INFORMATION.
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2. FFD TO BE PROVIDED FOR STANDPIPE LOCATED IN STAIRWELL. CONNECTION SIZE TO BE 100mm CONNECTED TO A 150mm SANITARY MAIN WITHIN FOUNDATION.
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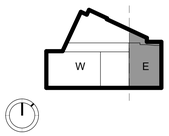
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Key Plan



Issued for

1	08/08/2025	ISSUED FOR 100% DD
2	10/01/2025	ISSUED FOR 25% CD
3	11/21/2025	ISSUED FOR 50% CD

Project title
Burke Mountain Community Centre (BMCC)

Clien
City of Coquitlam

Site
Burke Mountain, Coquitlam, BC

Sheet title
PLUMBING - LEVEL P2 - EAST

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Sheet number **Current Issue** 3

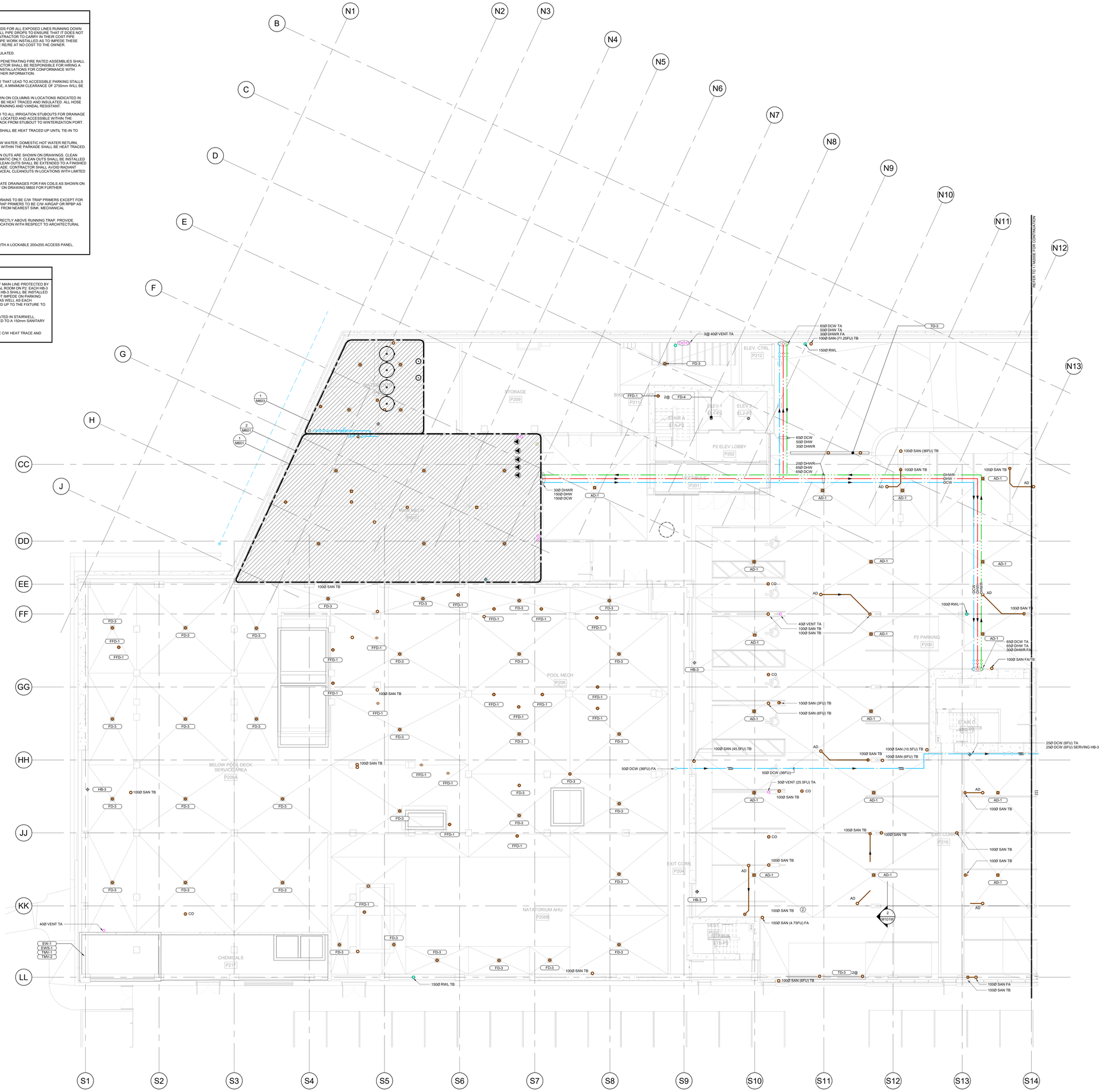
M200E

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1 M200W PLUMBING - LEVEL P2 - WEST
SCALE: 1 : 100

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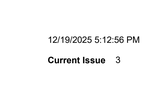
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Key Plan



Issued for

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3	11/21/2025	ISSUED FOR 50% CD

Project title
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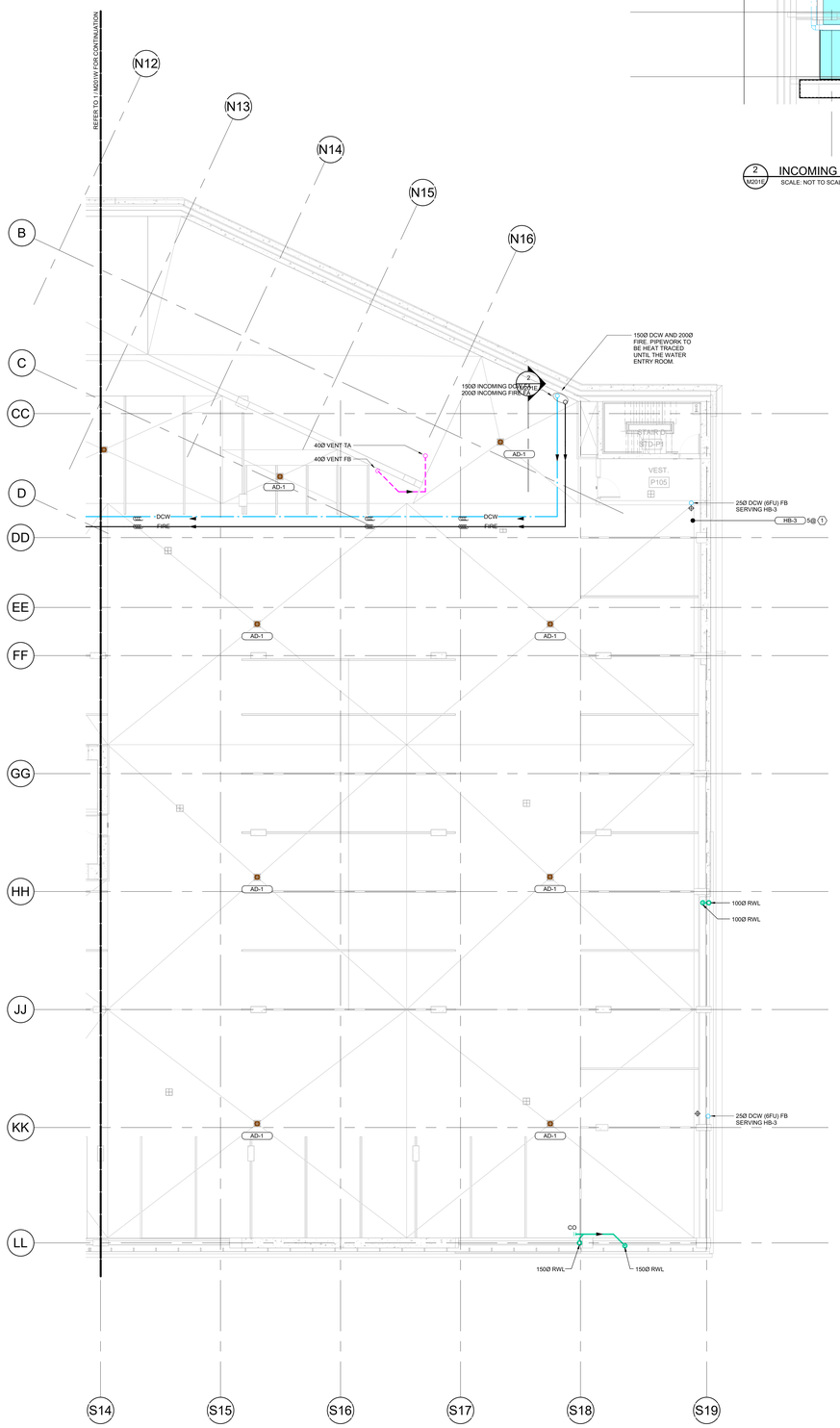
Clien
City of Coquitlam

Site
Burke Mountain, Coquitlam, BC

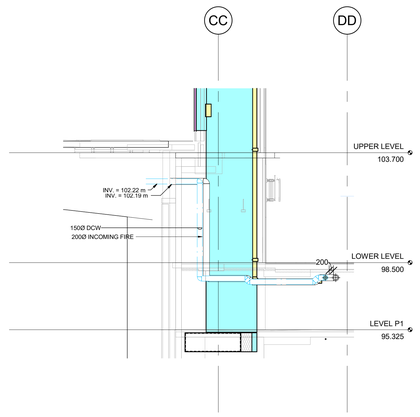
Sheet title
PLUMBING - LEVEL P2 - WEST

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Sheet number **Current Issue** 3

M200W



1 M201E PLUMBING - LEVEL P1 - EAST
SCALE: 1 : 100



2 M201E INCOMING WATER LINES
SCALE: NOT TO SCALE

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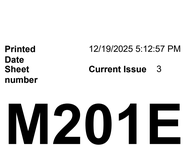
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1	08/08/2025	ISSUED FOR 100% DD
2	10/01/2025	ISSUED FOR 25% CD
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Project title
Burke Mountain Community Centre (BMCC)

Clien
City of Coquitlam

Site
Burke Mountain, Coquitlam, BC

Sheet title
PLUMBING - LEVEL P1 - EAST

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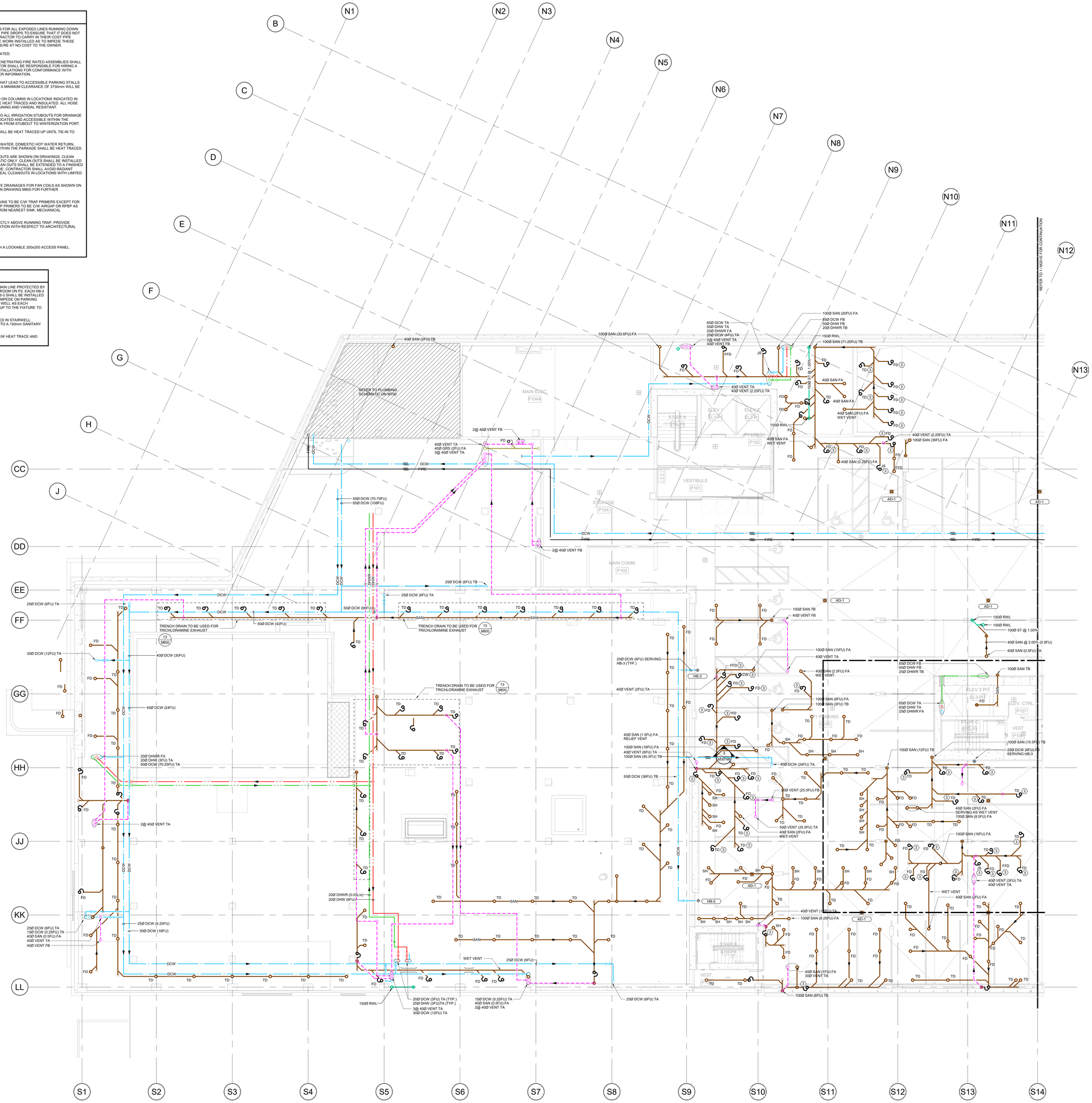
M201E

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1 M200 P1 — PLUMBING - LEVEL P1 - WEST
SCALE: 1 : 100

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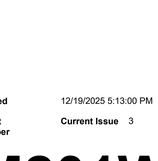
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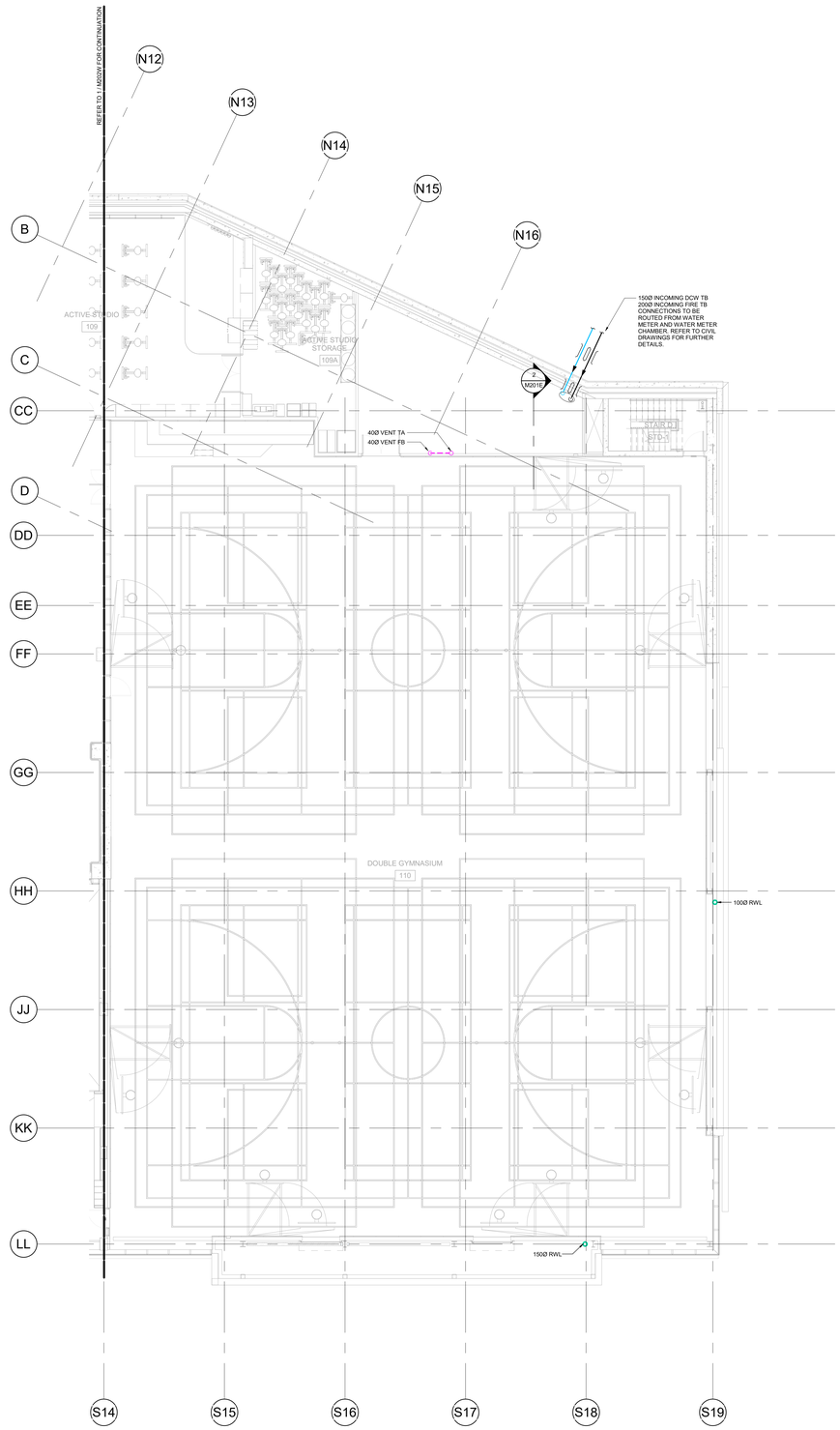
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City of Coquitlam

Site
Burke Mountain, Coquitlam, BC

Sheet title
PLUMBING - LEVEL P1 - WEST

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M201W



1 M202E PLUMBING - LOWER LEVEL - EAST
SCALE: 1 : 100

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2. PROVIDE MAIN ISOLATION VALVES OFF OF RISERS AND INTO EACH PLUMBING FIXTURE TO HAVE THEIR OWN INDIVIDUAL SHUT OFF VALVE.
3. COORDINATE EXACT MOUNTING HEIGHTS AND LOCATIONS OF ALL PLUMBING FIXTURES WITH THE CASEWORK, KITCHEN CONSULTANT, AND ARCHITECTURAL DRAWINGS.
4. ALL OUTDOOR DRAIN LOCATIONS AND NUMBER OF DRAINS TO BE AS PER ARCHITECTURAL AND LANDSCAPE DRAWINGS.
5. TRAP PRIMERS ARE REQUIRED ON ALL FLOOR DRAINS TRAPS. THE PIPING AND TRAP PRIMERS ARE NOT SHOWN ON THE DRAWINGS AND ARE FIELD ROUTED AND INSTALLED BY THE CONTRACTOR. TRAP PRIMERS TO COME W/ INTEGRAL BACKFLOW PREVENTERS AS APPROVED BY CSA STANDARDS.
6. ALL PIPEWORK TO RUN CONCEALED EITHER IN WALL OR IN CEILING SPACES. CONFIRM ALL INVERTS FOR SERVICES PRIOR TO INSTALLATION AND ADJUST AS REQUIRED TO MEET DESIGN INTENT.
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13. NO FLAT VENTING.
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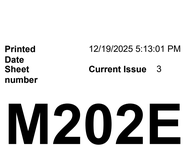
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1	08/08/2025	ISSUED FOR 100% DD
2	10/01/2025	ISSUED FOR 25% CD
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Project title
Burke Mountain Community Centre (BMCC)

Clien
City of Coquitlam

Site
Burke Mountain, Coquitlam, BC

Sheet title
PLUMBING - LOWER LEVEL - EAST

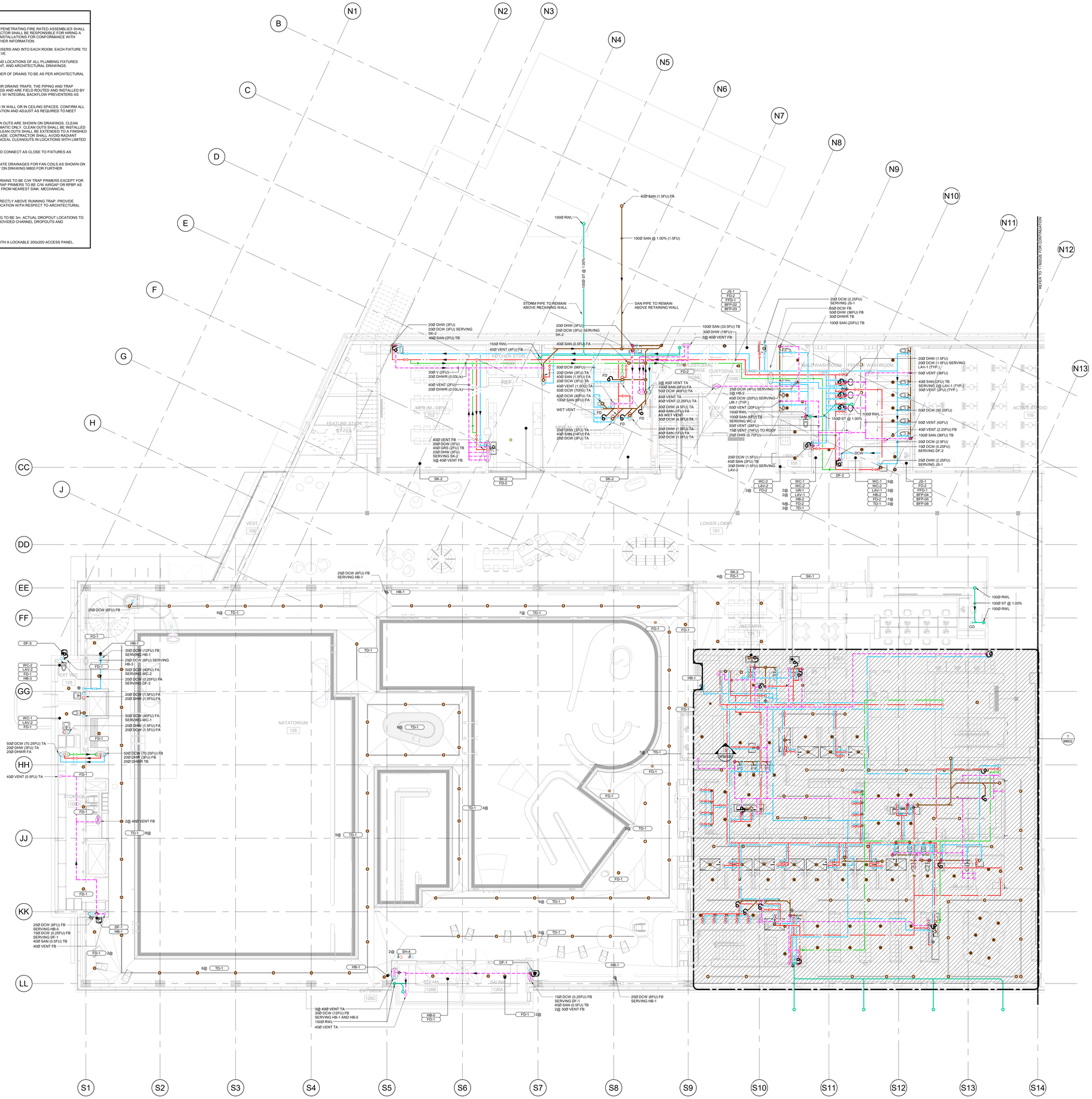
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M202E

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1 PLUMBING - LOWER LEVEL - WEST
M202W SCALE: 1 : 100

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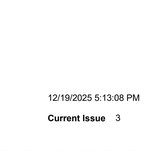
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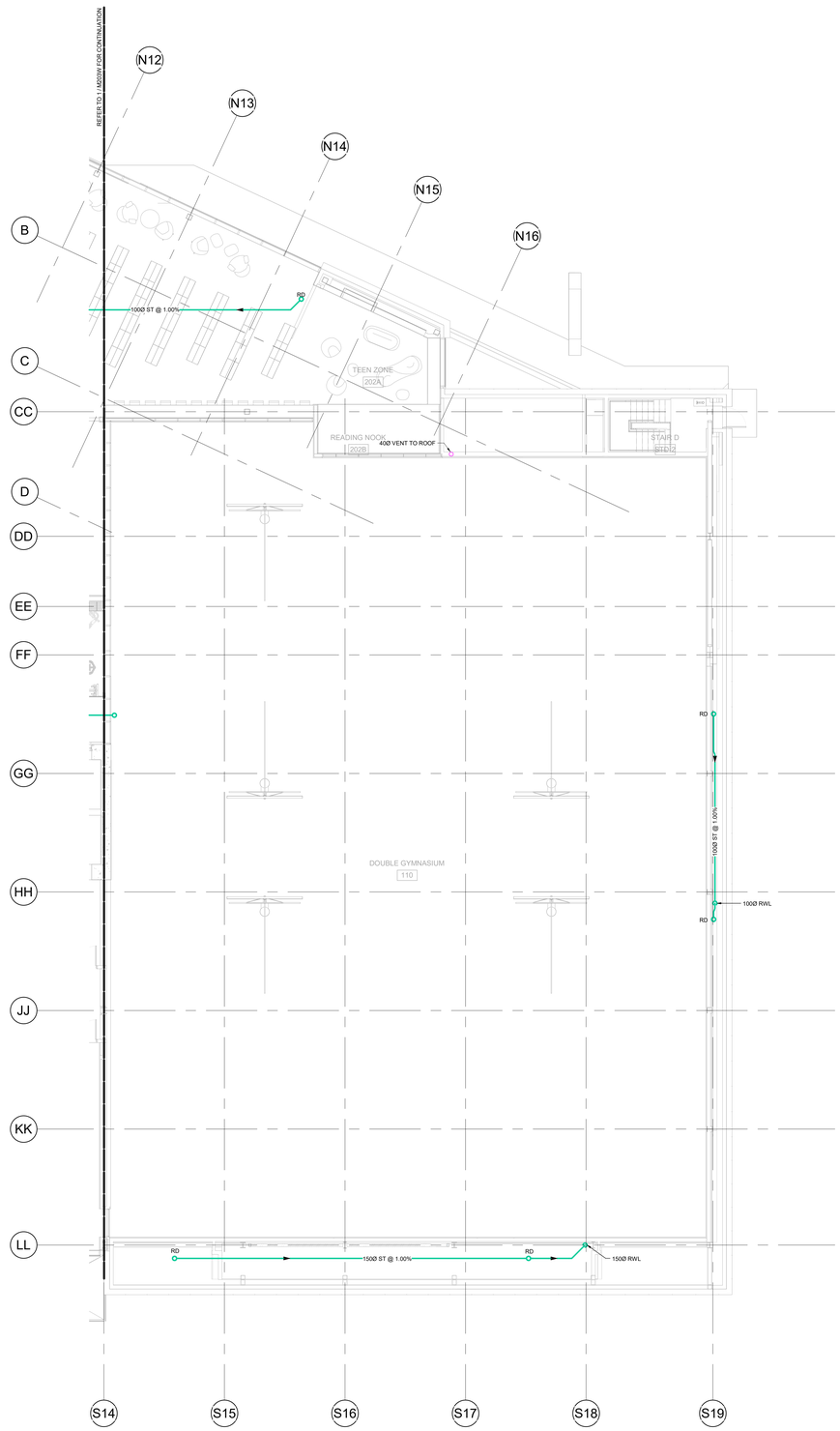
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1 / M203E PLUMBING - UPPER LEVEL - EAST
SCALE: 1 : 100

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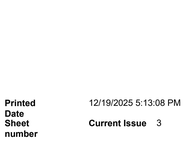
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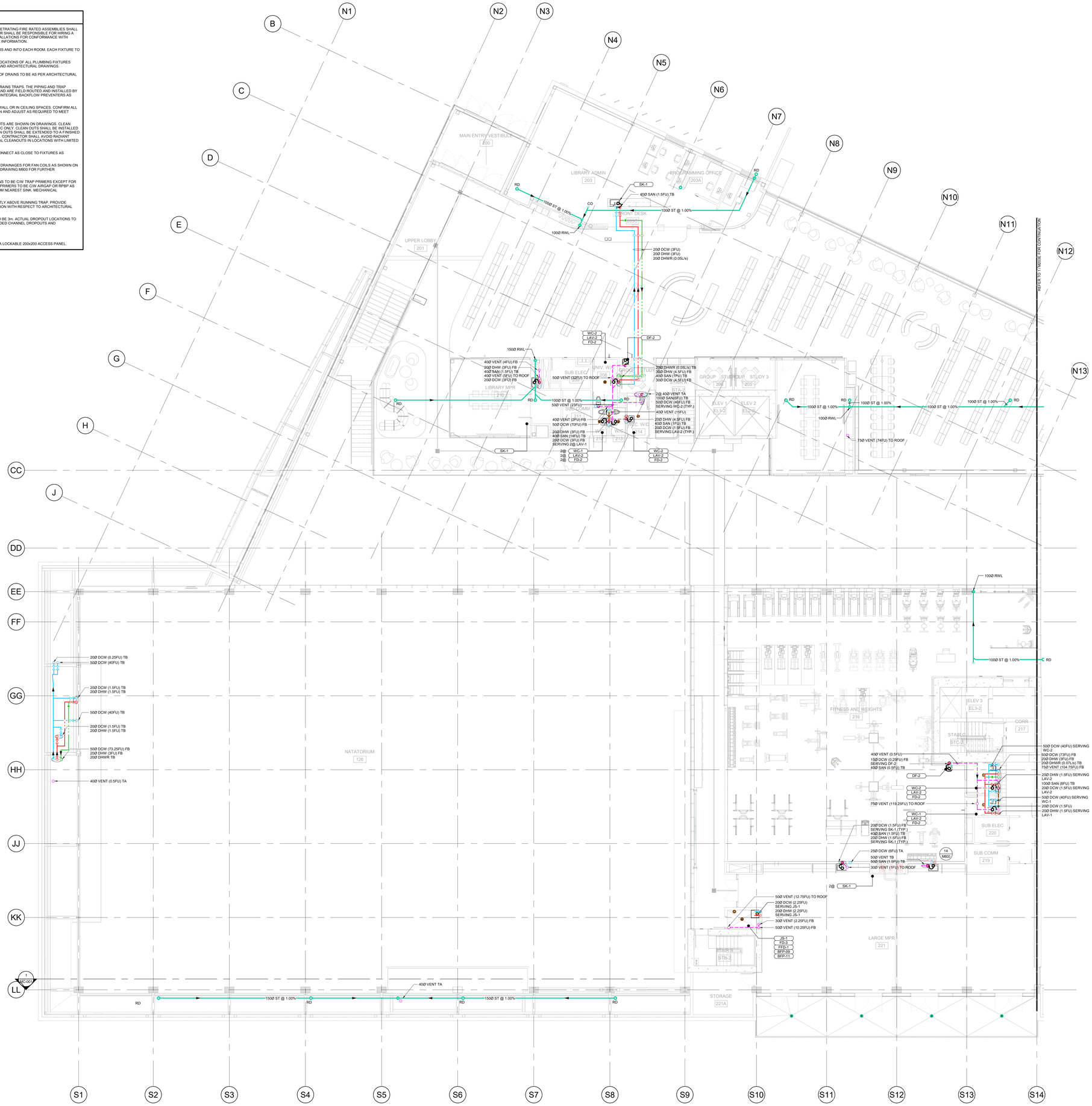
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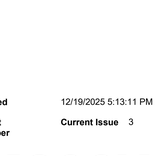
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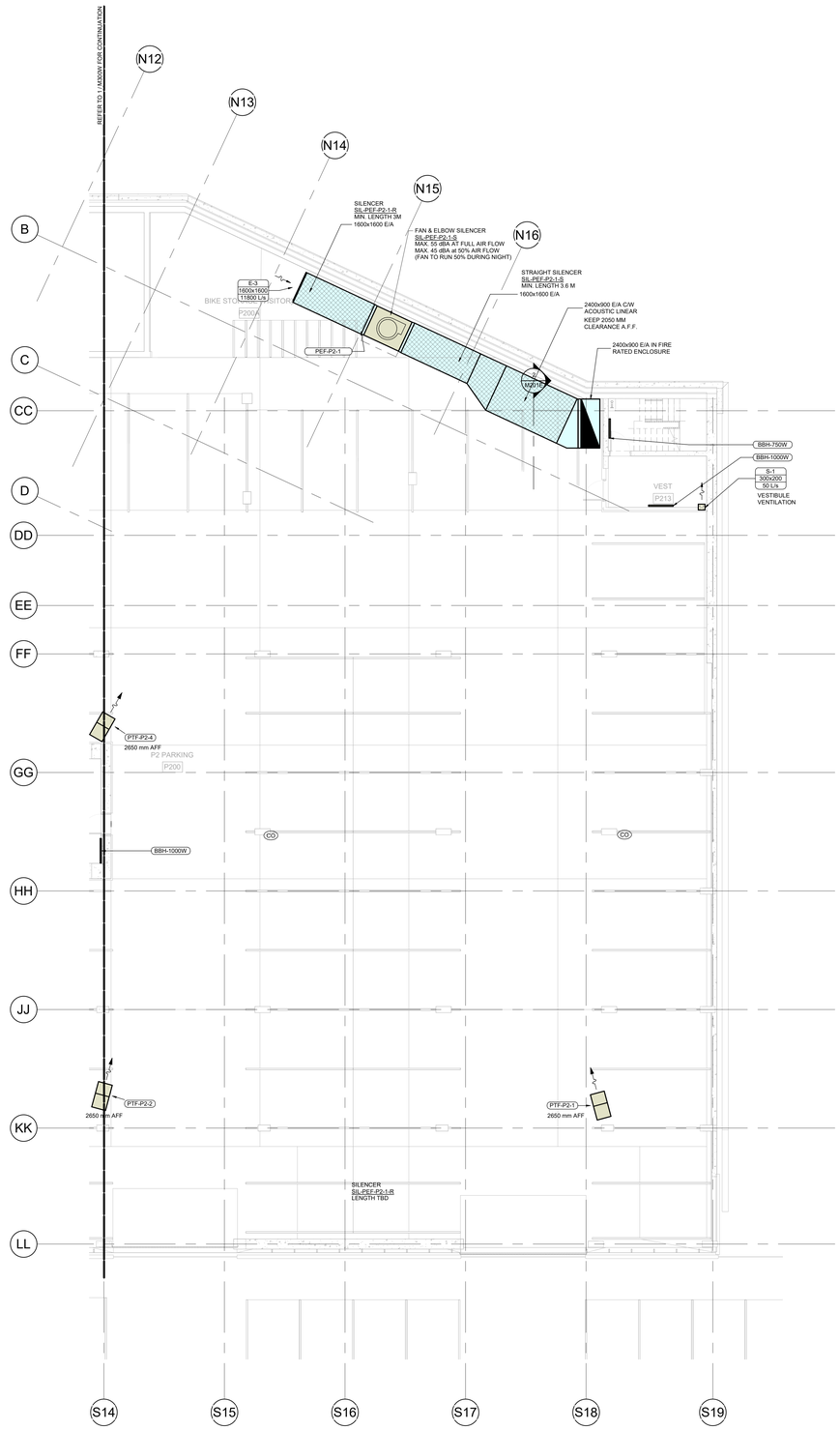
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PLUMBING - UPPER LEVEL - WEST

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M203W

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1 HVAC - LEVEL P2 - EAST
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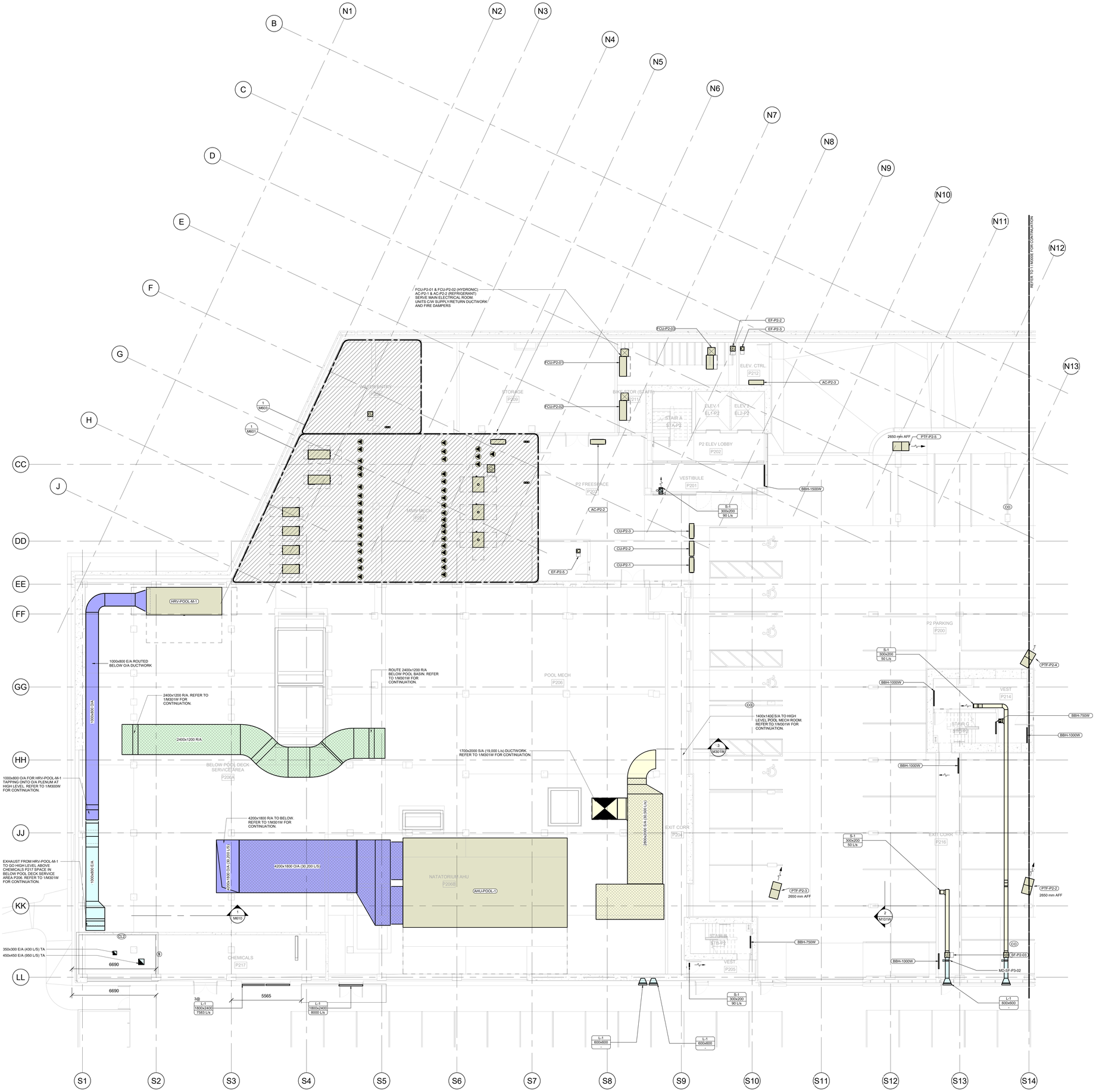
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Sheet title
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M300E

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1 M300W HVAC - LEVEL P2 - WEST
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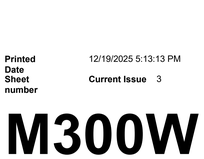
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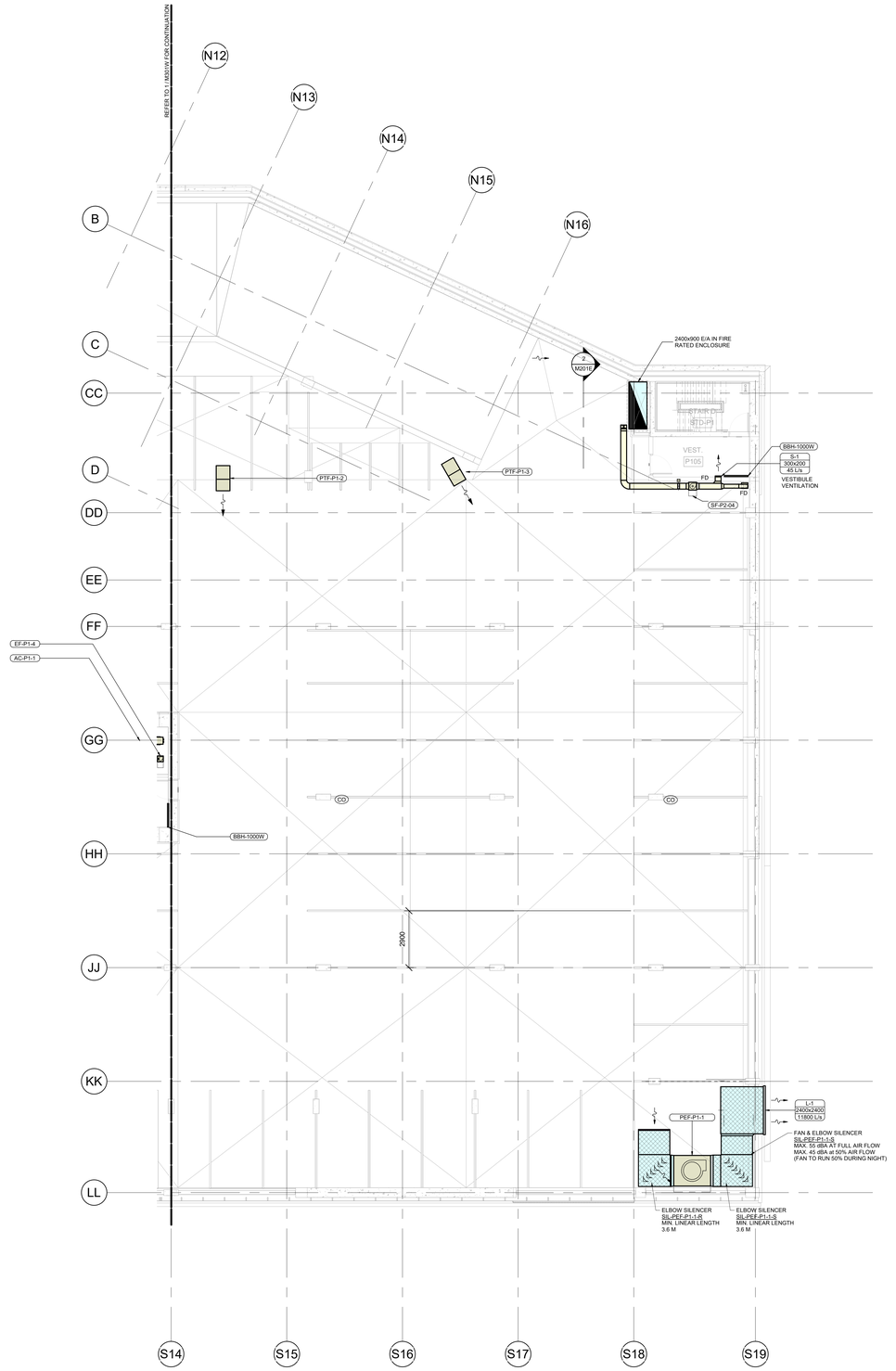
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1 M301E HVAC - LEVEL P1 - EAST
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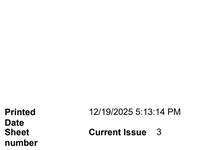
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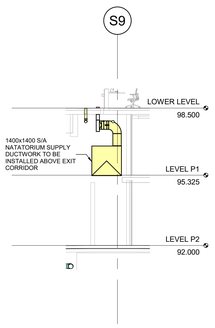
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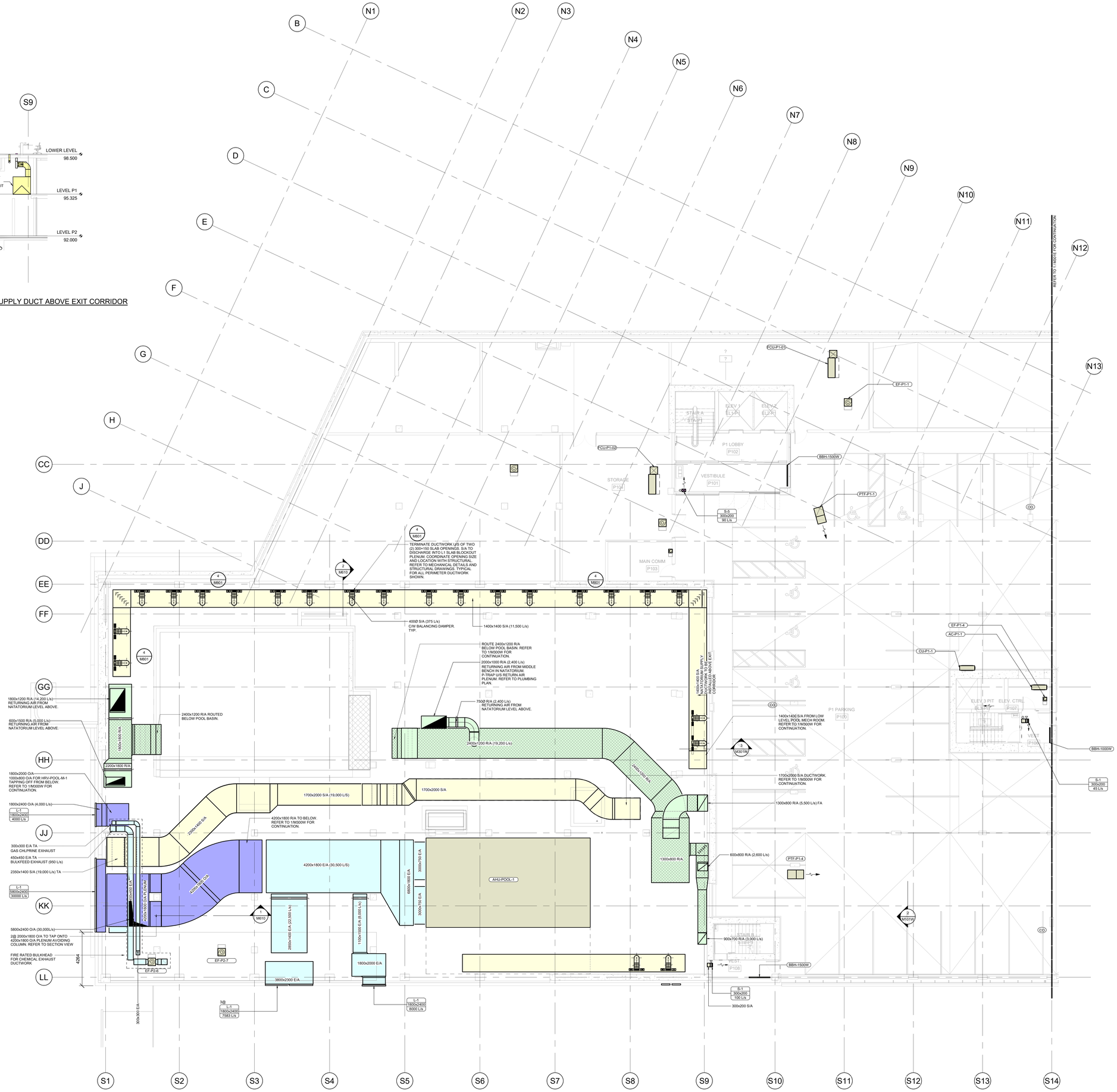
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HVAC - LEVEL P1 - EAST

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M301E



3 M301W — NATATORIUM SUPPLY DUCT ABOVE EXIT CORRIDOR
SCALE: 1 : 100



1 M301W — HVAC - LEVEL P1 - WEST
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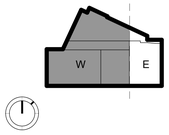
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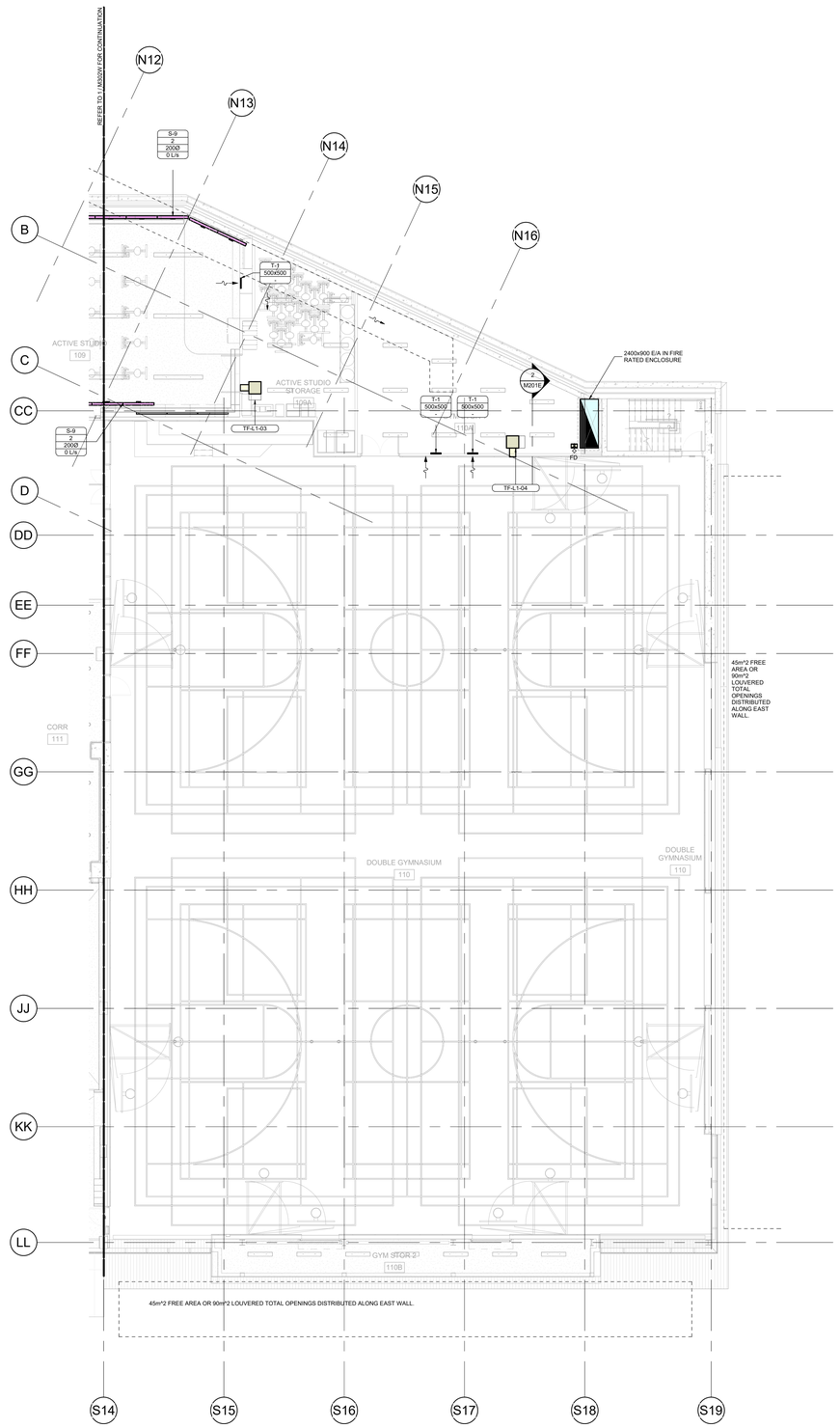
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M301W

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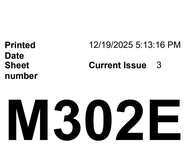
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GENERAL NOTES - BMCC

1. FIRE DAMPERS AND FIRE/SMOKE DAMPERS TO BE INSTALLED WITH RECTANGULAR SLEEVE IRON FRAME ON FULL PERIMETER AND ON BOTH SIDES OF PENETRATION THROUGH FIRE SEPARATION. FIRE DAMPER TO BE ACCESSIBLE FOR OPERATING. FIRE DAMPERS TO BE INSTALLED AT ALL LOCATIONS WHERE DUCTWORK PENETRATES A FIRE RATED ASSEMBLY WHETHER SHOWN ON LAYOUT PLANS OR NOT. SEE ARCHITURAL PLANS FOR LOCATIONS OF RATED ASSEMBLIES.
2. DUCT SIZES ARE INSIDE CLEAR DIMENSIONS. FOR ACOUSTICALLY LINED OR EXTERNALLY INSULATED DUCTS, MAINTAIN SIZE INDICATED INSIDE DUCTS.
3. PROVIDE ISOLATION VALVES ON HYDRONIC PIPING TEE-OFFS TO EACH PIECE OF EQUIPMENT
4. HVAC ROUTING IS DIAGRAMMATICAL IN NATURE, CONTRACTOR TO PROVIDE ADDITIONAL DUCT AND PIPE ELBOWS AS REQUIRED TO MEET DESIGN INTENT. ADDITIONAL FITTINGS AND ELBOWS TO WHAT IS SHOWN WILL NOT BE CONSIDERED A CHANGE IN CONTRACT AMOUNT.
5. PROVIDE ACCESS PANELS FOR ALL EQUIPMENT LOCATED ABOVE INACCESSIBLE CEILING TO MEET SPECIFICATION REQUIREMENTS. COORDINATE LOCATIONS WITH ELECTRICAL AND ARCHITECTURAL CEILING LAYOUTS.
6. BALANCING DAMPERS ARE TO BE INSTALLED ON ALL TEE-OFFS AND BRANCHES WHERE REQUIRED TO MEET DESIGN FLOW RATES WHETHER SPECIFICALLY SHOWN OR NOT.
7. DUCTWORK TO BE INSTALLED TIGHT TO UNDERSIDE OF SLAB WITH ALLOWANCE FOR INSTALLATION OF REQUIRED INSULATION.
8. VAV BOXES TO BE INSTALLED WITH A MINIMUM 4D STRAIGHT DUCT TO INLET.
9. MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE NO LONGER THAT 1.2 M (4 FT). DO NOT USE FLEXIBLE DUCT FOR CHANGES IN DIRECTION GREATER THAN 60 DEGREES. ENSURE FLEXIBLE DUCTWORK IS SUPPORTED WITHOUT SAGGING.
10. ALL RETURN AIR AND SUPPLY AIR PLENUMS OF FAN COILS TO BE C/W 1" ACOUSTIC INSULATION.
11. ALL FAN COILS TO COME WITH A RETURN AIR BOOT LINED WITH 1" ACOUSTIC INSULATION.
12. ALL DUCT PENETRATIONS THROUGH ELECTRICAL ROOMS AND BETWEEN COMMS ROOMS WILL REQUIRE FIRE DAMPERS.
13. CONTRACTOR TO ALLOW FOR FIRE/SMOKE DAMPERS ON EVERY DUCT PENETRATION THROUGH RATED WALLS, SLABS AND SHAFTS REGARDLESS OF WHAT IS SHOWN ON DRAWINGS. REFER TO CODE REPORT AND ARCHITECTURAL DRAWINGS FOR ALL RATED ASSEMBLIES.

4 PIPE TRENCH FAN COILS FOR HEATING AND COOLING LOCATED IN LIBRARY ABOVE. HYDRONIC PEX PIPING TO BE ROUTED THROUGH SLAB TO DISCHARGE INTO WASHROOM SPACE

WASHROOM EXHAUST DUCT TO RUN IN/A SEPARATED DUCT RISER TO 2ND FLOOR LEVEL. ALL WASHROOM EHAUST DUCTWORK WILL CONNECT WITH HRV RETURN DUCT PRIOR LEAVING UPPER FLOOR BACK TO THE UNIT

CONTRACTOR TO INCLUDE 12 LINEAR DIFFUSERS FOR DUCTED SUPPLY AND 12 FOR DUCTED RETURN

PROVIDE RATED ENCLOSURE AROUND DUCT RUNNING THROUGH RATED SHAFT

REFER TO 1/M005 FOR CONTINUATION

CONTRACTOR TO INCLUDE 4 LINEAR DIFFUSERS FOR DUCTED SUPPLY AND 4 FOR DUCTED RETURN

CONTRACTOR TO INCLUDE DUCTED LINEAR DIFFUSERS FOR BOTH SUPPLY AND RETURN FOR ADMINISTRATIVE AND STAFF AREA. ALLOW FOR TOTAL OF 10 SUPPLY AND 10 RETURN

LINEAR BAR GRILLE DIFFUSERS CONNECTED TO SUPPLY AIR TO BE INSTALLED AROUND THE PERIMETER OF THE NATATORIUM. REFER TO 4/M801 FOR DETAIL DRAWING.

CURVED LINEAR BAR GRILLES TO INSTALL ON SIDEWALL OF BENCH.

1500x600 R/A CONNECTING TO E-2

600x1500 R/A (5,000 L/s) FB. TAPPING ONTO 1500x600 R/A HORIZONTAL DUCTWORK.

450x450 E/A (950 L/s) TA

350x300 E/A (440 L/s) TA

CHEMICAL EXHAUST TO RUN IN RATED BULKHEAD AND SHAFT SPACE

350x300 E/A (427 L/S) FB

450x450 E/A (948 L/S) FB

2350x1400 S/A (19,000 L/s) TA

2350x1400 S/A (19,000 L/s) FB WITHIN SHAFT

LINEAR BAR GRILLE DIFFUSERS CONNECTED TO SUPPLY AIR TO BE INSTALLED AROUND THE PERIMETER OF THE NATATORIUM. REFER TO 4/M801 FOR DETAIL DRAWING.

200Ø E/A CPVC TO EXTEND PAST NOTCH AT BUILDING EDGE ABOVE. PROVISE EXHAUST CAP AT END OF DUCT. (TYP. 2)

100Ø E/A CPVC C/W EXHAUST CAP AT WALL (TYP. 2)

200Ø E/A CONNECTED TO ALUMINUM PLENUM BOX (TYP. 2)

1 M005W HVAC - LOWER LEVEL - WEST
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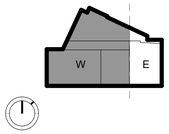
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Burke Mountain Community Centre (BMCC)

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Site Burke Mountain, Coquitlam, BC

Sheet title

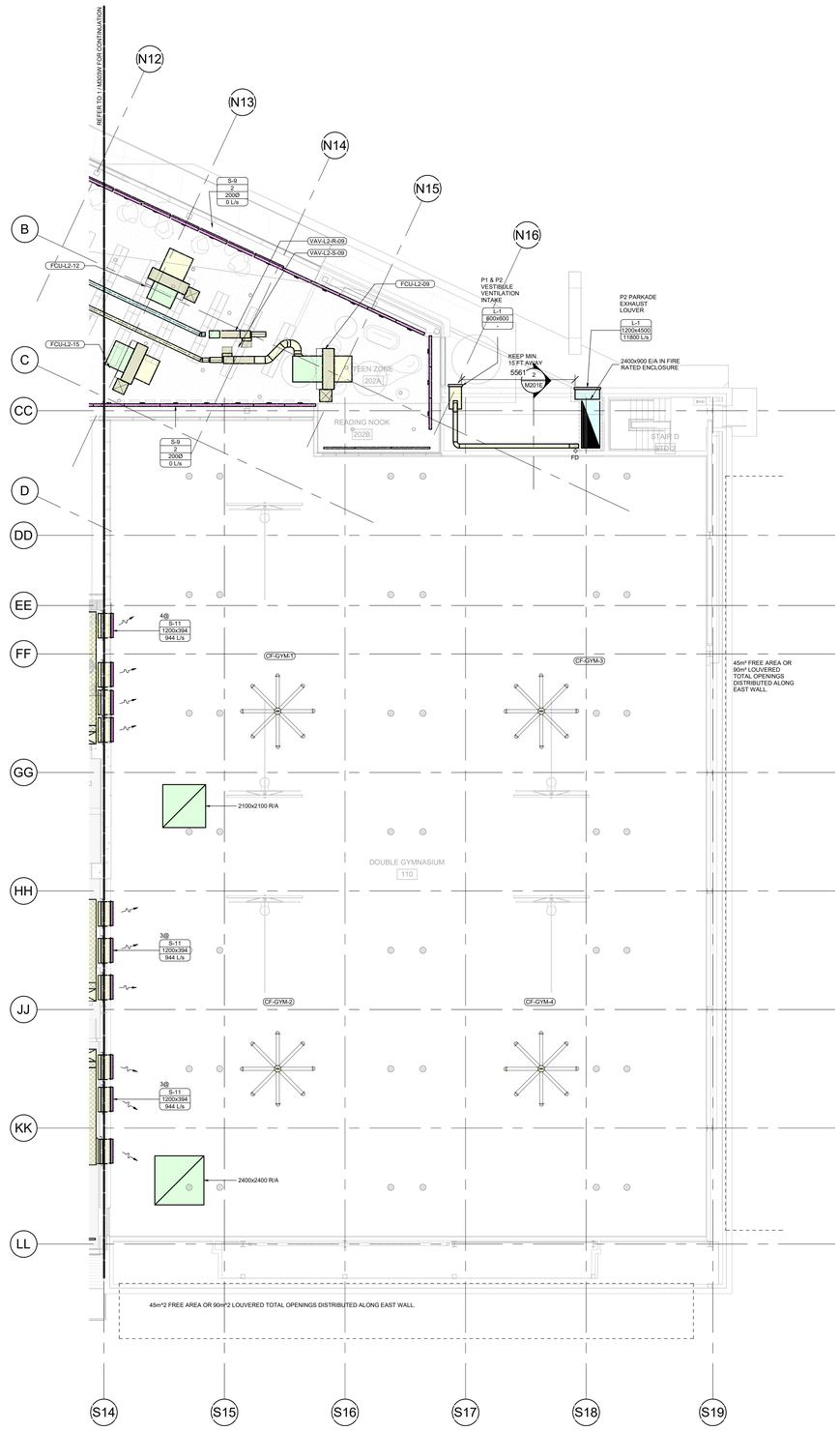
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1 M303E HVAC - UPPER LEVEL - EAST
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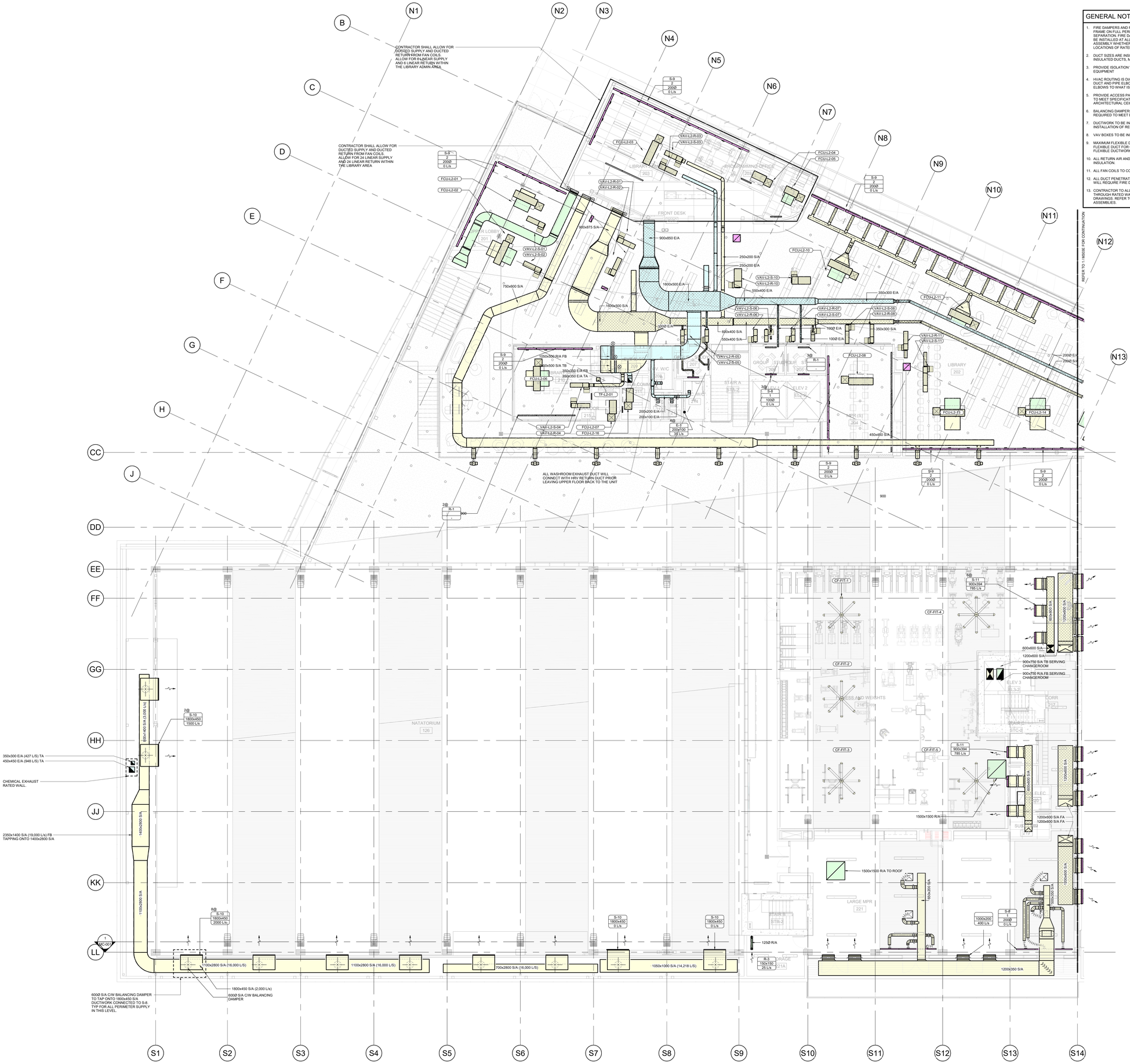
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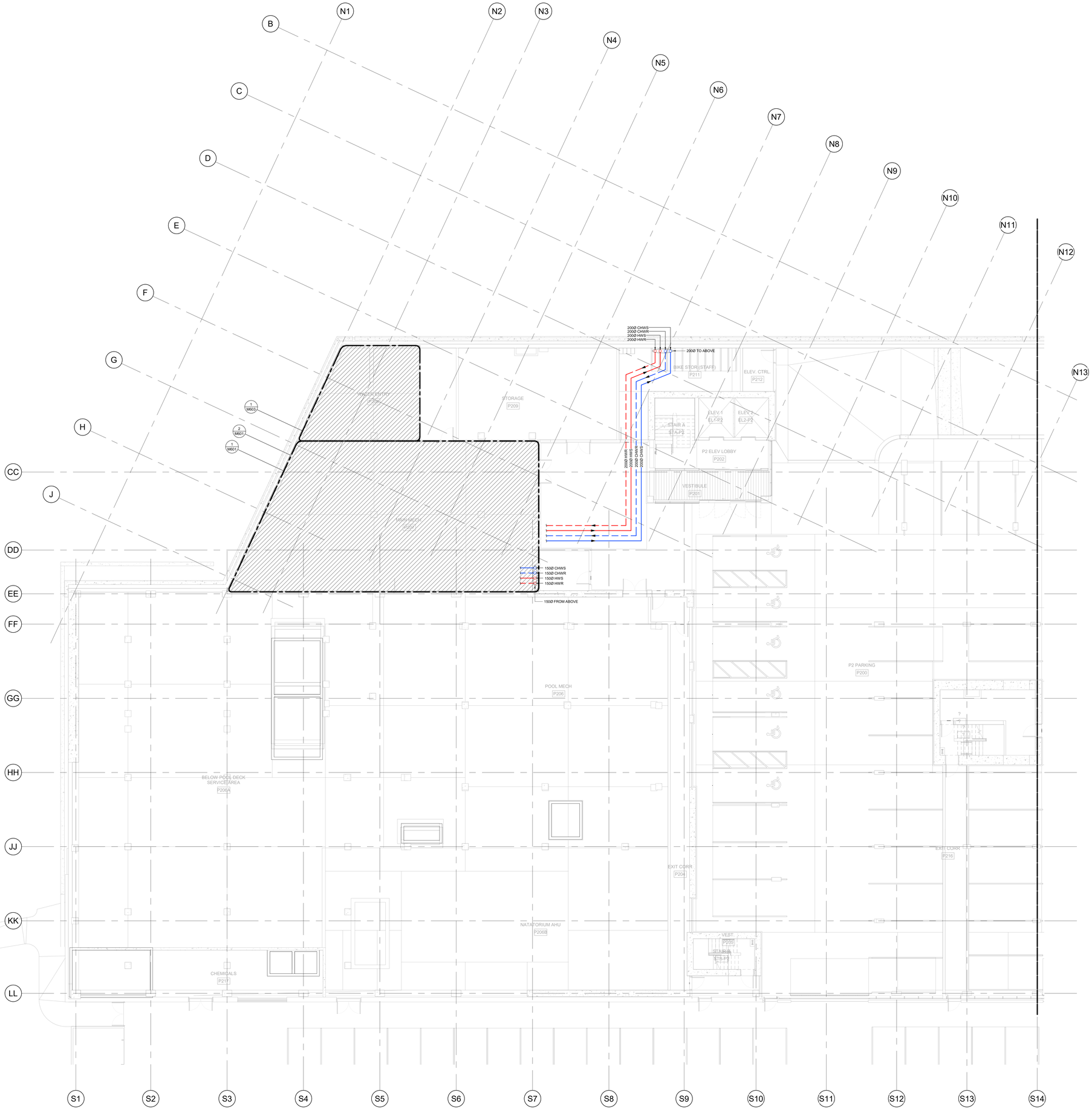
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CONTRACTOR SHALL ALLOW FOR DUCTED SUPPLY AND DUCTED RETURN FROM FAN COILS. ALLOW FOR 6 LINEAR SUPPLY AND 6 LINEAR RETURN WITHIN THE LIBRARY ADMIN AREA
CONTRACTOR SHALL ALLOW FOR DUCTED SUPPLY AND DUCTED RETURN FROM FAN COILS. ALLOW FOR 24 LINEAR SUPPLY AND 24 LINEAR RETURN WITHIN THE LIBRARY AREA
ALL WASHROOM EXHAUST DUCT WILL CONNECT WITH HRV RETURN DUCT PRIOR LEAVING UPPER FLOOR BACK TO THE UNIT
REFER TO 1 / M303E FOR CONTINUATION
350x300 E/A (427 L/S) TA
450x450 E/A (948 L/S) TA
CHEMICAL EXHAUST RATED WALL.
2350x1400 S/A (19,000 L/s) FB TAPPING ONTO 1400x2800 S/A
600ØD S/A C/W BALANCING DAMPER TO TAP ONTO 1800x450 S/A DUCTWORK CONNECTED TO S-8. TYP FOR ALL PERIMETER SUPPLY IN THIS LEVEL.
1800x450 S/A (2,000 L/s)
600ØD S/A C/W BALANCING DAMPER
1500x1500 R/A TO ROOF
1200x350 S/A
1100x2800 S/A (16,000 L/S)
1100x2800 S/A (16,000 L/S)
700x2800 S/A (16,000 L/S)
1050x1000 S/A (14,218 L/S)
125ØD R/A
LIBRARY ADMIN 203
PROGRAMMING OFFICE 208
FRONT DESK 200
LOBBY 201
LIBRARY 202
GROUP STUDY 205
STUDY 206
W. W/C 208
W/C 209
COMM 210
STAIR A STA-2
ELEV 2 ELEV-2
ELEV (S) 204
FLOOR 215
STAIR B STB-2
LARGE MPR 221
STORAGE 221A
NATATORIUM 126
ELEV 3 ELV-2
CORR 217
BOARD STC-3
ELEC 220
SUP 218
CF-FIT-1
CF-FIT-2
CF-FIT-3
CF-FIT-4
CF-FIT-5
GRILLE
S-9 2 200Ø 0 L/s
S-10 1800x450 1500 L/s
S-10 1800x450 2000 L/s
S-10 1800x450 0 L/s
S-11 900x394 785 L/s
S-8 1 100Ø 0 L/s
S-8 1 200Ø 0 L/s
R-1 -
R-3 150x150 25 L/s
E-7 200x100 37 L/s
1000x200 400 L/s
FCU-L2-01
FCU-L2-02
FCU-L2-03
FCU-L2-04
FCU-L2-05
FCU-L2-06
FCU-L2-07
FCU-L2-08
FCU-L2-10
FCU-L2-11
FCU-L2-16
FCU-L2-17
FCU-L2-18
TF-L2-01
VAV-L2-R-01
VAV-L2-R-02
VAV-L2-R-03
VAV-L2-R-04
VAV-L2-R-05
VAV-L2-R-06
VAV-L2-R-07
VAV-L2-R-08
VAV-L2-R-10
VAV-L2-R-11
VAV-L2-S-01
VAV-L2-S-02
VAV-L2-S-03
VAV-L2-S-04
VAV-L2-S-05
VAV-L2-S-06
VAV-L2-S-07
VAV-L2-S-08
VAV-L2-S-10
VAV-L2-S-11
900x850 E/A
250x200 S/A
250x200 E/A
1600x500 E/A
550x400 E/A
1600x500 S/A
750x600 S/A
900x875 S/A
600x400 S/A
550x400 S/A
350x300 E/A
350x300 S/A
100Ø E/A
2000 E/A
2000 S/A
450x450 S/A
1200x600 S/A
900x750 S/A TB SERVING CHANGEROOM
900x750 R/A FB SERVING CHANGEROOM
1500x1500 R/A
1200x600 S/A FA
1200x600 S/A FA
1650x200 S/A
1300x600 S/A
1400x2800 S/A
1100x2800 S/A
1050x1000 S/A
1200x600 S/A
1200x600 S/A
1200x600

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1 M400W HYDRONIC - LEVEL P2 - WEST
SCALE: 1 : 100

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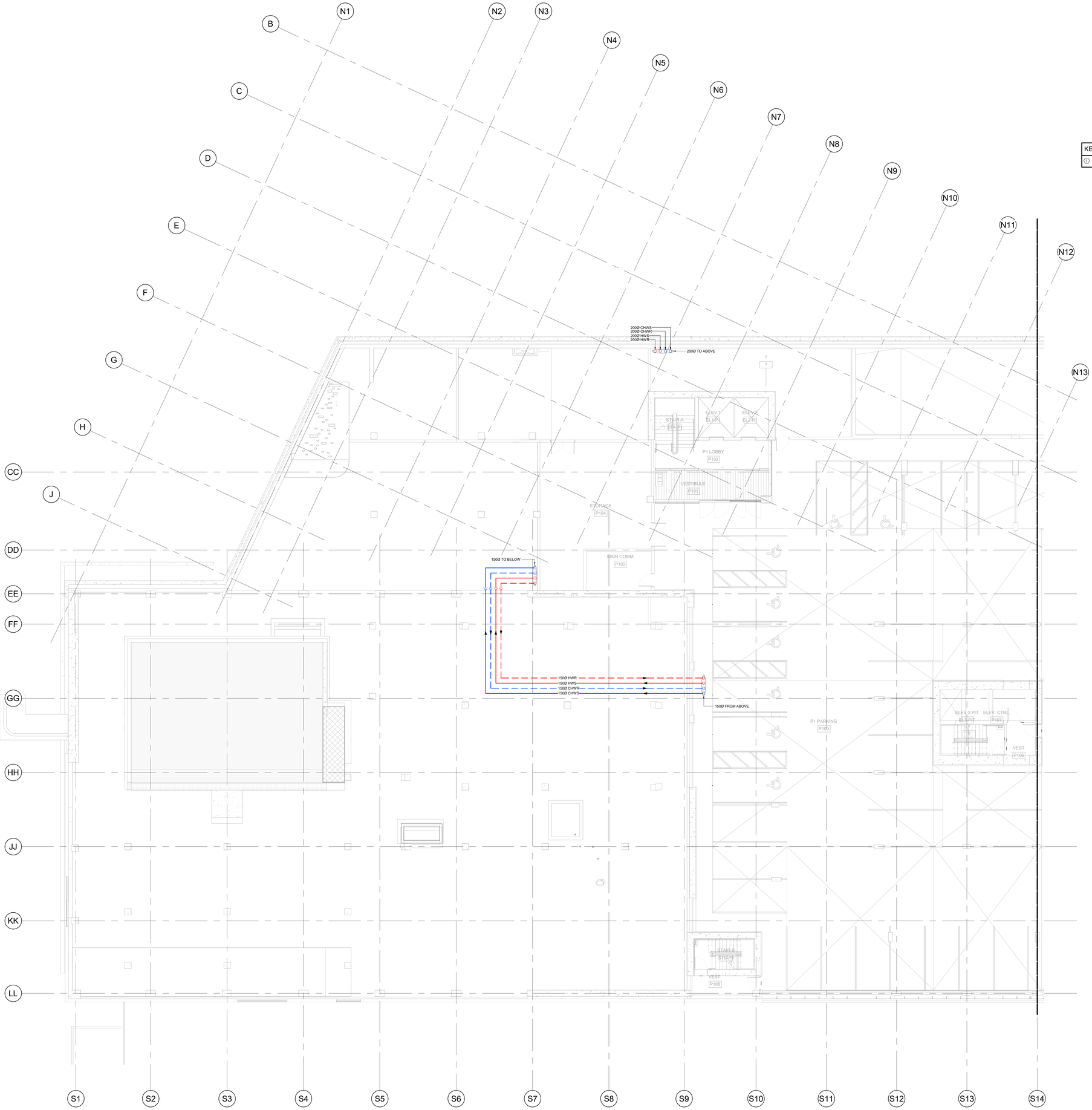
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1 HYDRONIC - LEVEL P1 - WEST
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KEY NOTES

1. HYDRONIC PIPES OVERLAPPED

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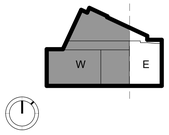
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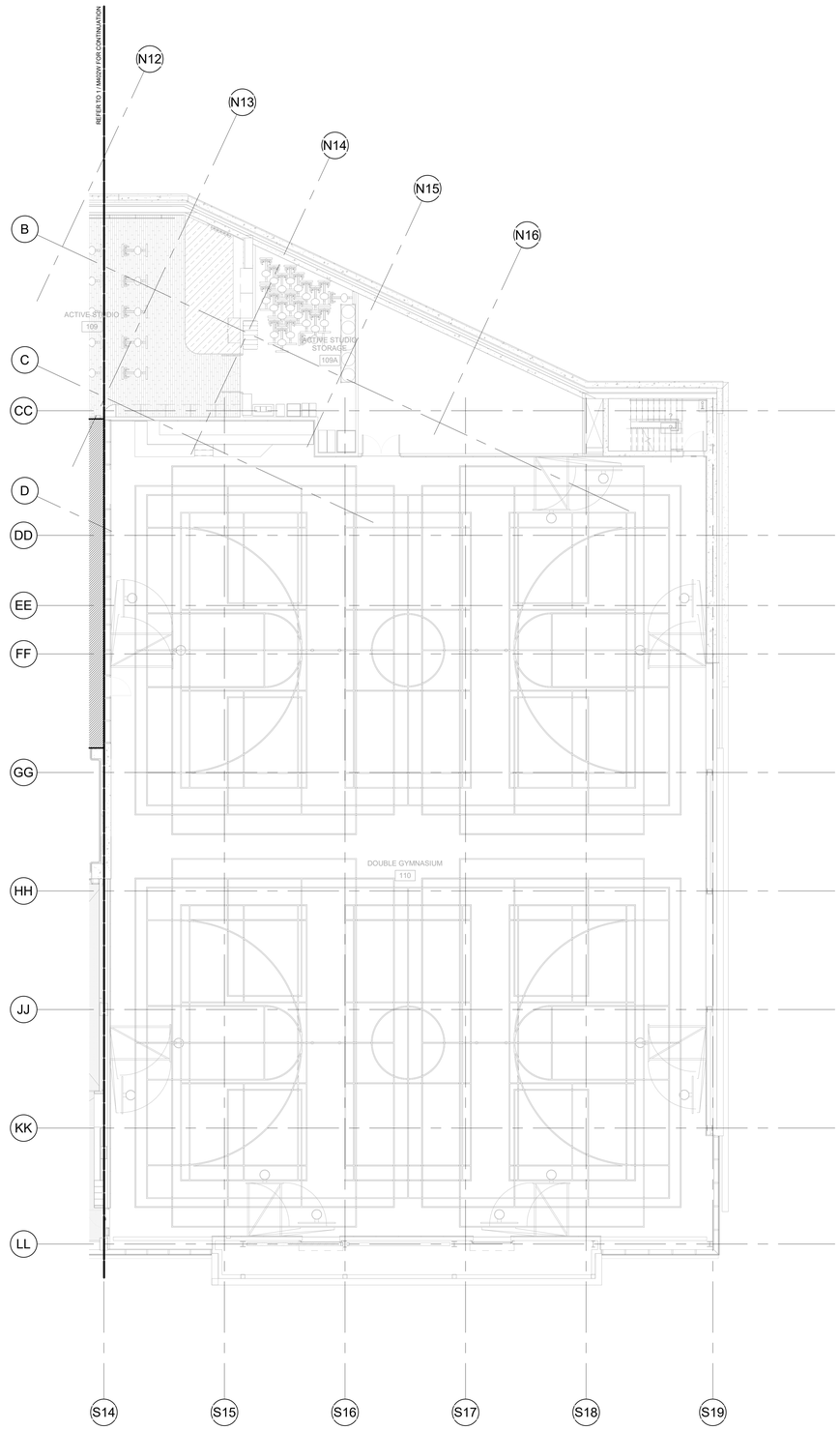
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1 / M402E HYDRONIC - LOWER LEVEL - EAST
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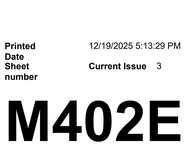
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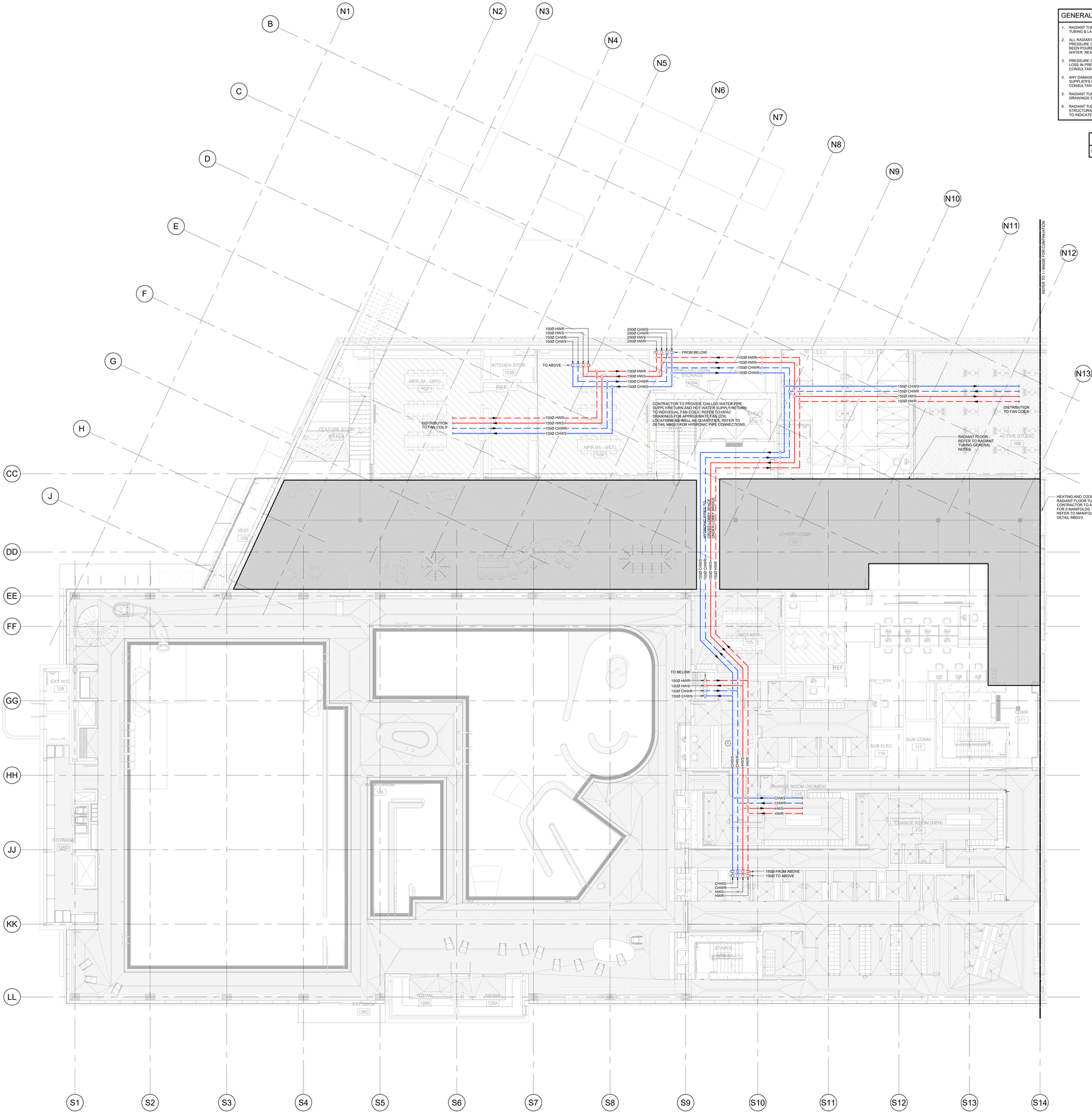
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M402E



1 HYDRONIC - LOWER LEVEL - WEST
SCALE: 1 : 100

GENERAL NOTE - RADIANT TUBING

1. RADIANT TUBING LAYOUT SHOWN SHALL BE COORDINATED WITH THE MANUFACTURER'S RADIANT TUBING & LAYOUT SHOP DRAWINGS SUPPLIED BY THE HYDRONIC MANUFACTURER.
2. ALL RADIANT TUBING IS TO REMAIN UNDER PRESSURE AND CAREFULLY MONITORED BY PRESSURE GAUGES ON MANIFOLDS BEFORE, DURING AND AFTER THE CONCRETE HAS BEEN POURED AND UNTIL SUCH TIME THAT THE SYSTEM IS FINALLY COMMISSURCED WITH WATER. READ IN CONJUNCTION WITH MECHANICAL SECTION 23 82 13.
3. PRESSURE GAUGES ARE TO BE MONITORED DAILY BY THE MECHANICAL CONTRACTOR. ANY LOSS IN PRESSURE IS TO BE IMMEDIATELY INVESTIGATED, REPORTED TO THE OWNER'S CONSULTANT AND REPAIRED.
4. ANY DAMAGE TO BURIED RADIANT TUBING SHALL BE REPAIRED ACCORDING TO THE TUBING SUPPLIER'S RECOMMENDATIONS AND TO THE SATISFACTION OF THE MECHANICAL CONSULTANT, AT THE EXPENSE OF THE CONTRACTOR.
5. RADIANT TUBING SUPPLIER IS TO PROVIDE A COMPLETE SET OF RADIANT TUBE SHOP DRAWINGS SHOWING ALL LOOP PIPING LAYOUTS ON 1:100 SCALE PLANS.
6. RADIANT TUBING SUPPLIER TO COORDINATE LAYOUT WITH MECHANICAL, ELECTRICAL AND STRUCTURAL TRADES PRIOR TO FINALIZING SHOP DRAWINGS. PROVIDE SECTION DETAILS TO INDICATE TUBE LOCATIONS IN FLOORS.

KEY NOTES

1. HYDRONIC PIPES OVERLAPPED

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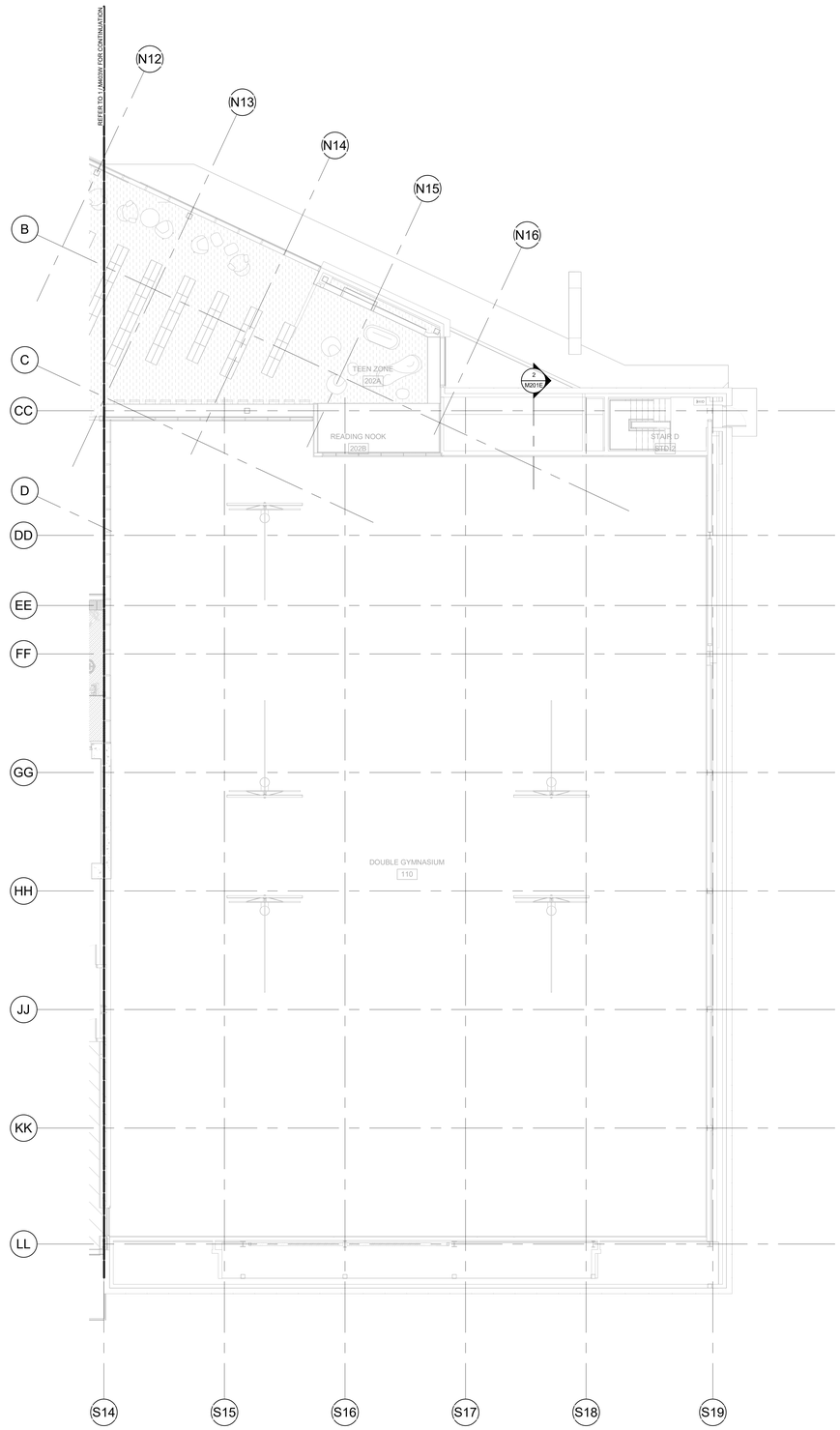
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1 HYDRONIC - UPPER LEVEL - EAST
M403E
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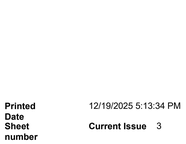
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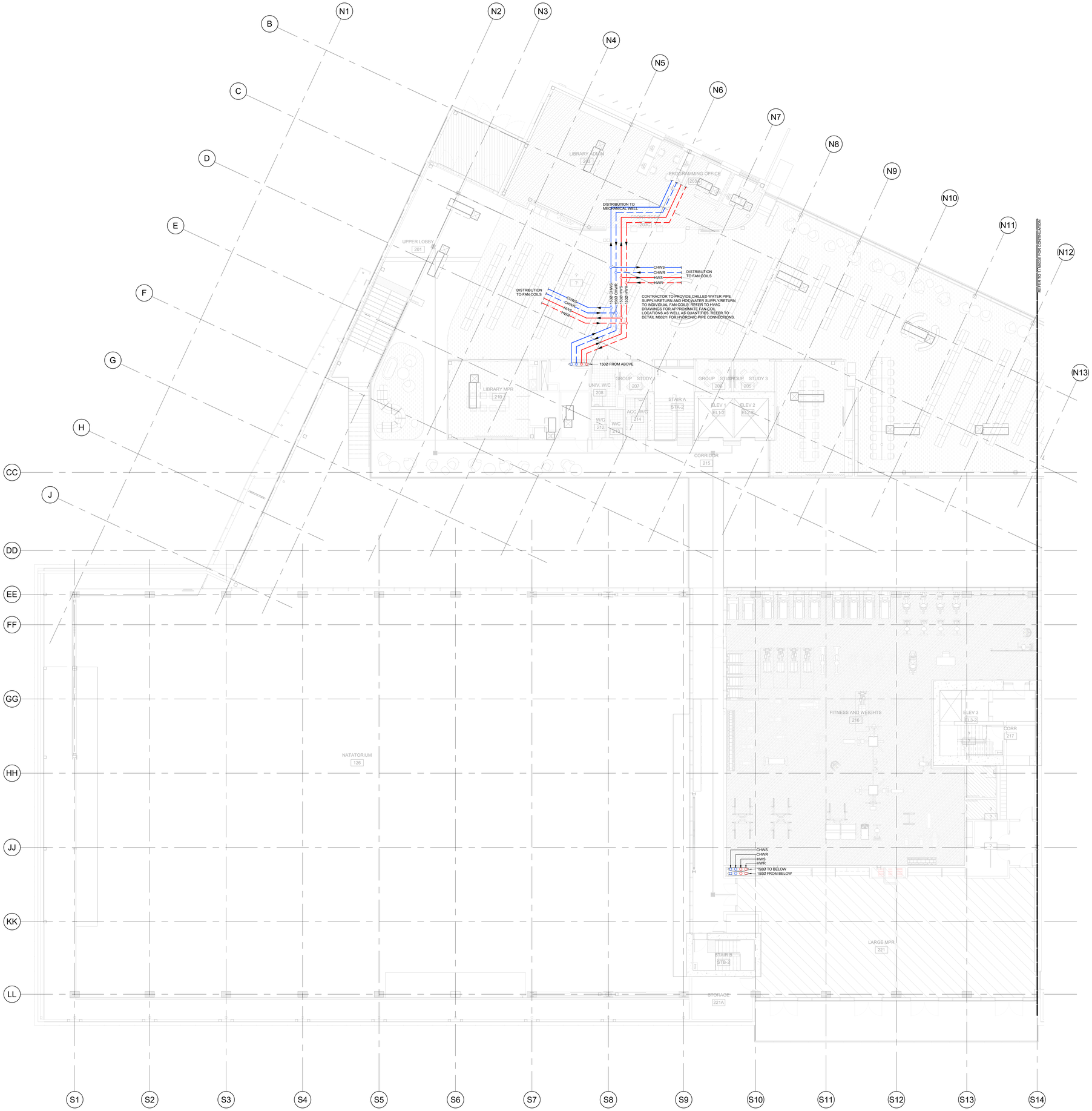
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1 M403W HYDRONIC - UPPER LEVEL - WEST
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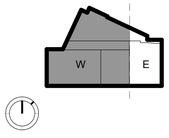
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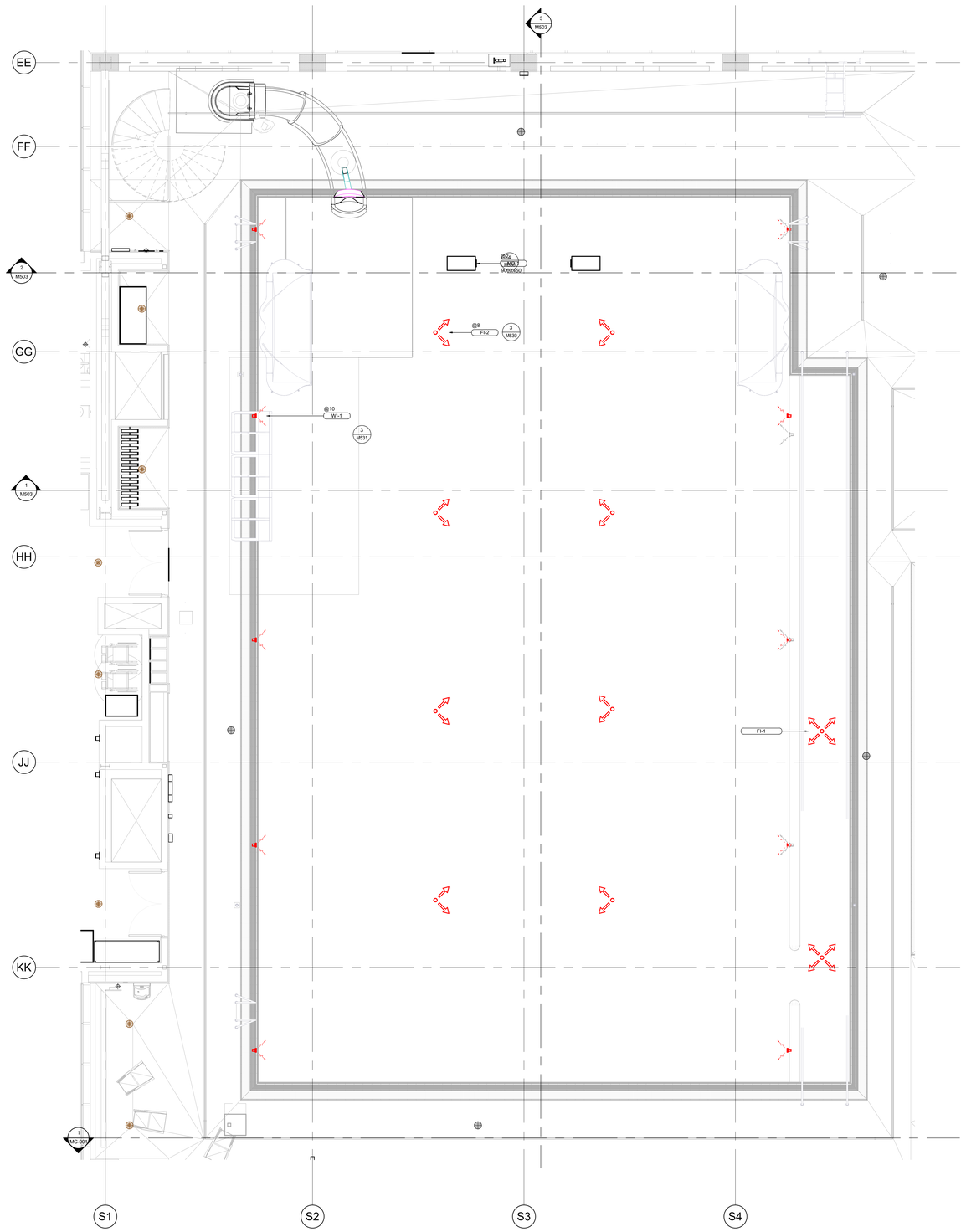
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1 M500 POOL FITTING LAYOUT - LAP POOL
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1	08/08/2025	ISSUED FOR 100% DD
2	10/01/2025	ISSUED FOR 25% CD
3	11/21/2025	ISSUED FOR 50% CD

Project title
Burke Mountain Community Centre (BMCC)

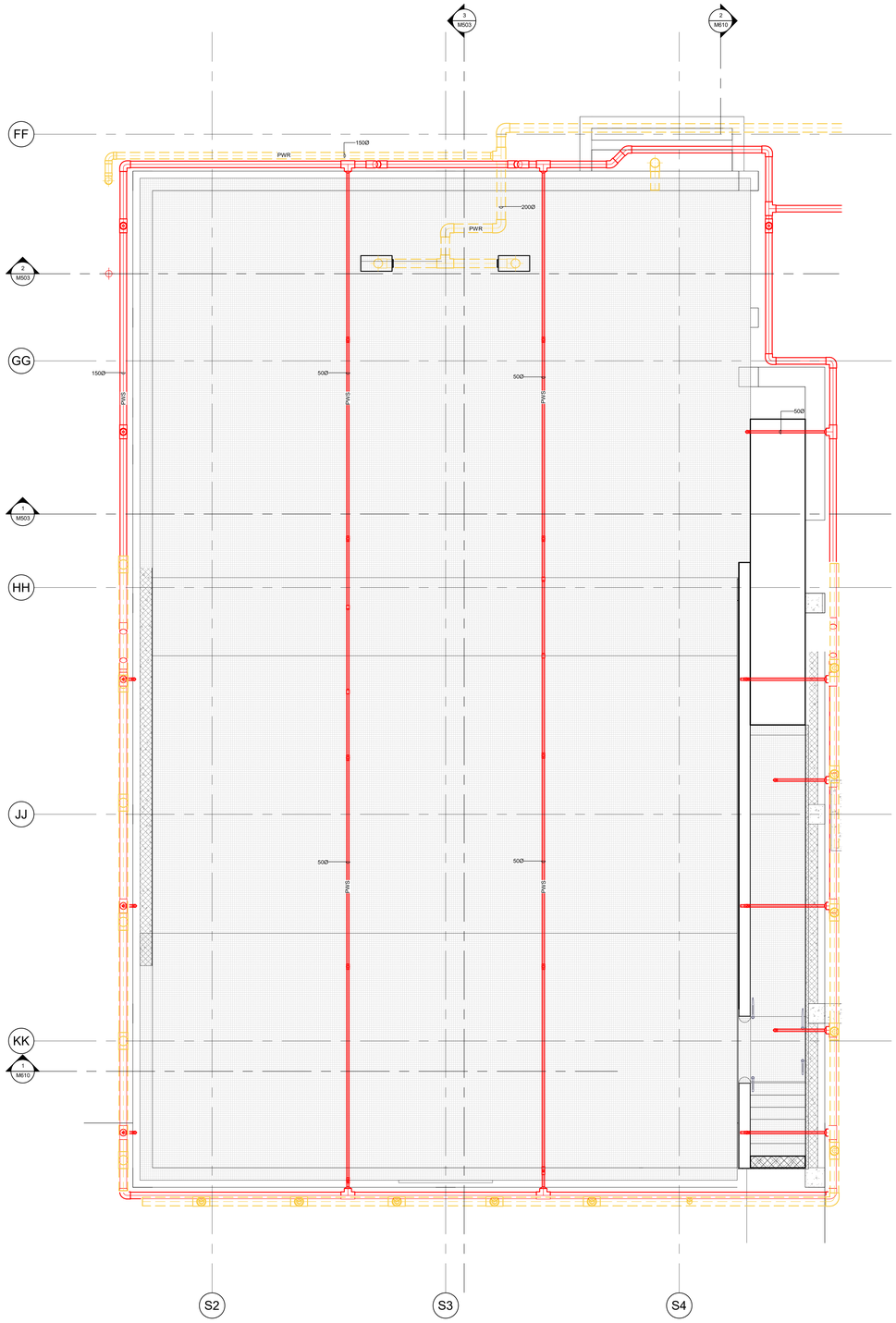
Clien
City of Coquitlam

Site
Burke Mountain, Coquitlam, BC

Sheet title
POOL FITTING LAYOUT - LAP POOL

Printed Date 12/19/2025 5:13:38 PM
Sheet number **Current Issue** 3

M500



1 M501 POOL PIPING - LOW LEVEL- LAP POOL
SCALE: 1 : 50

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City of Coquitlam

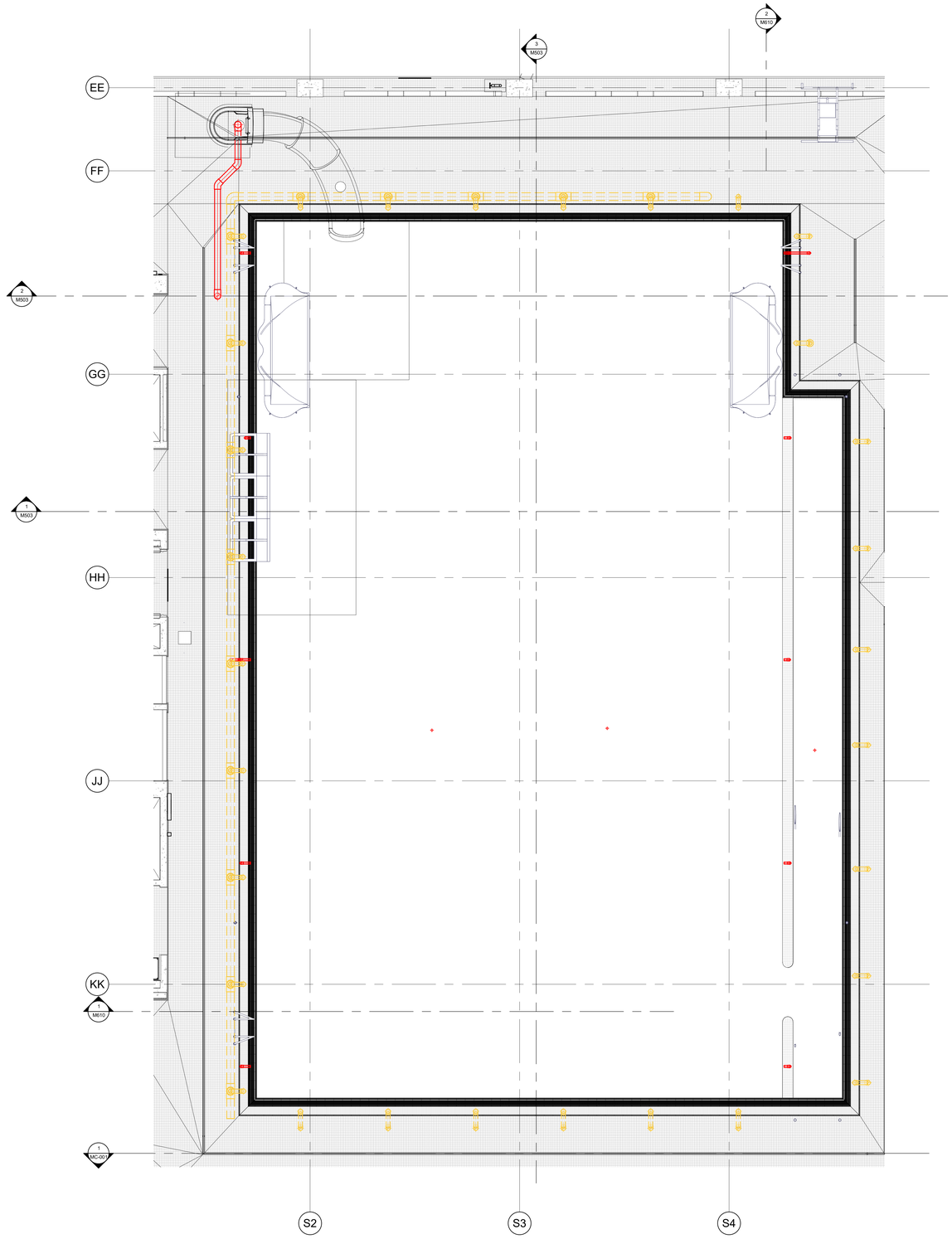
Site
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Sheet title
POOL PIPING - LOW LEVEL- LAP POOL

Printed Date 12/19/2025 5:13:39 PM
Sheet number **Current Issue** 3

M501

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1 M502 POOL PIPING - HIGH LEVEL- LAP POOL
SCALE: 1 : 50

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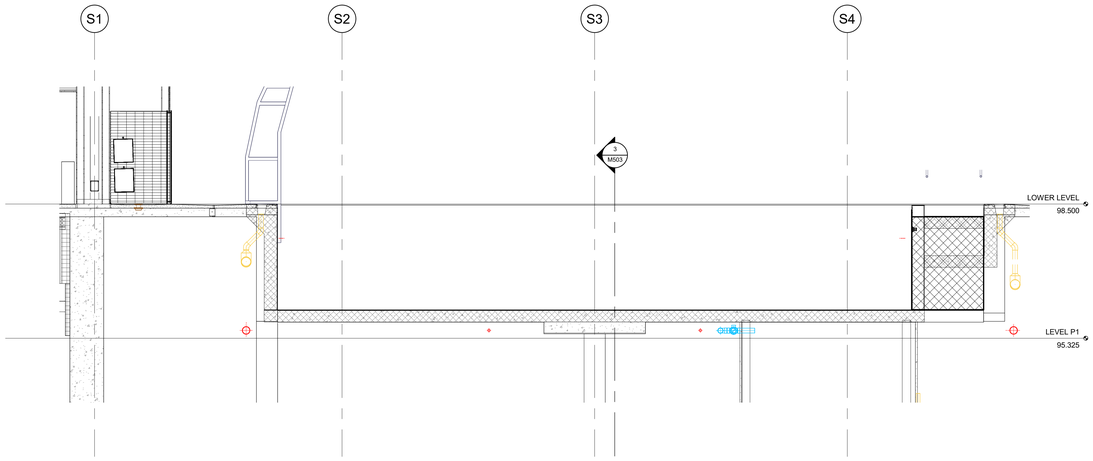
Clien
City of Coquitlam

Site
Burke Mountain, Coquitlam, BC

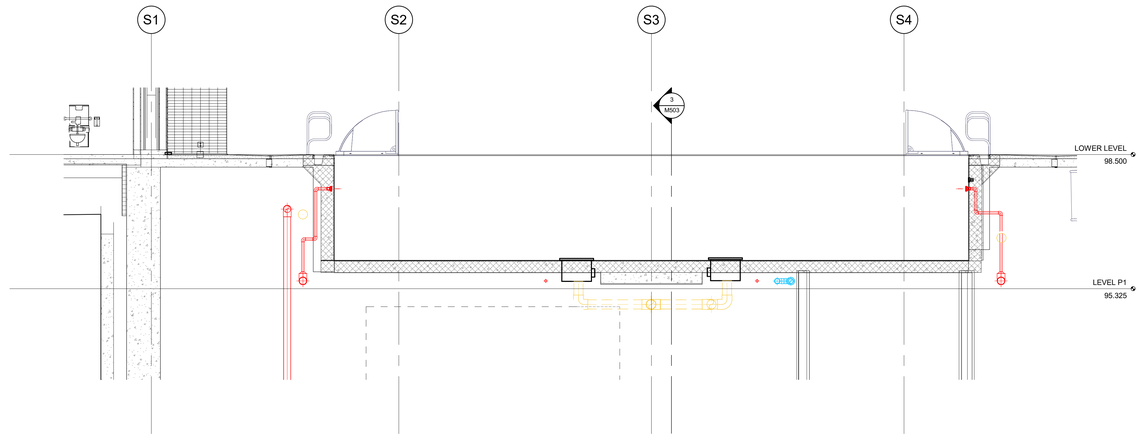
Sheet title
POOL PIPING - HIGH LEVEL- LAP POOL

Printed Date 12/19/2025 5:13:41 PM
Sheet number **Current Issue** 3

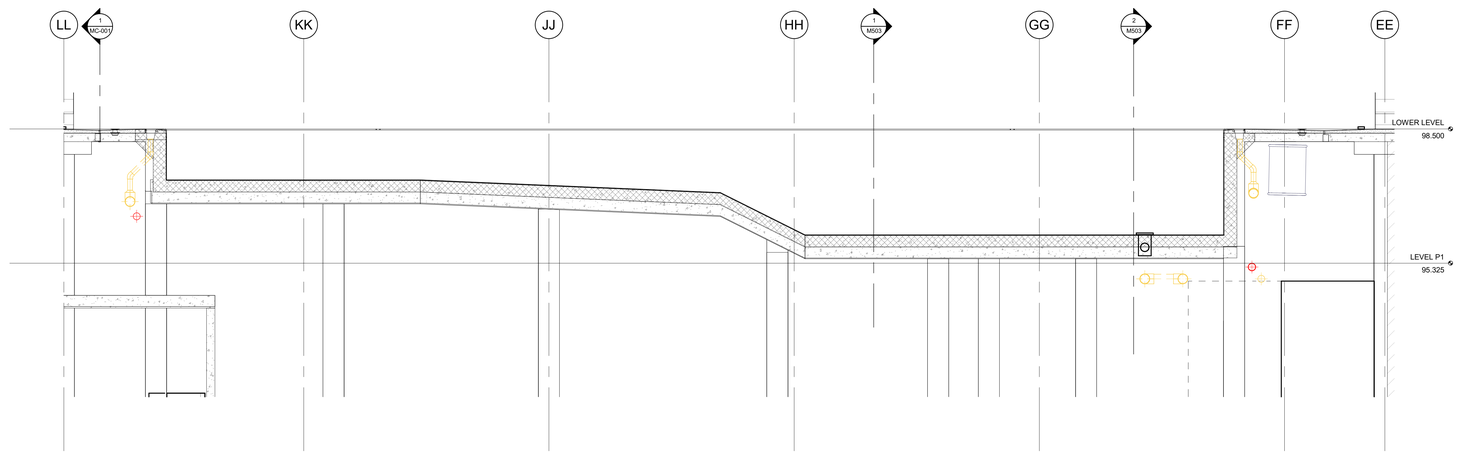
M502



1 M503 POOL - LAP POOL W/E SECTION
SCALE: 1 : 50



2 M503 POOL - LAP POOL W/E SECTION 2
SCALE: 1 : 50



3 M503 POOL - LAP POOL N/S SECTION
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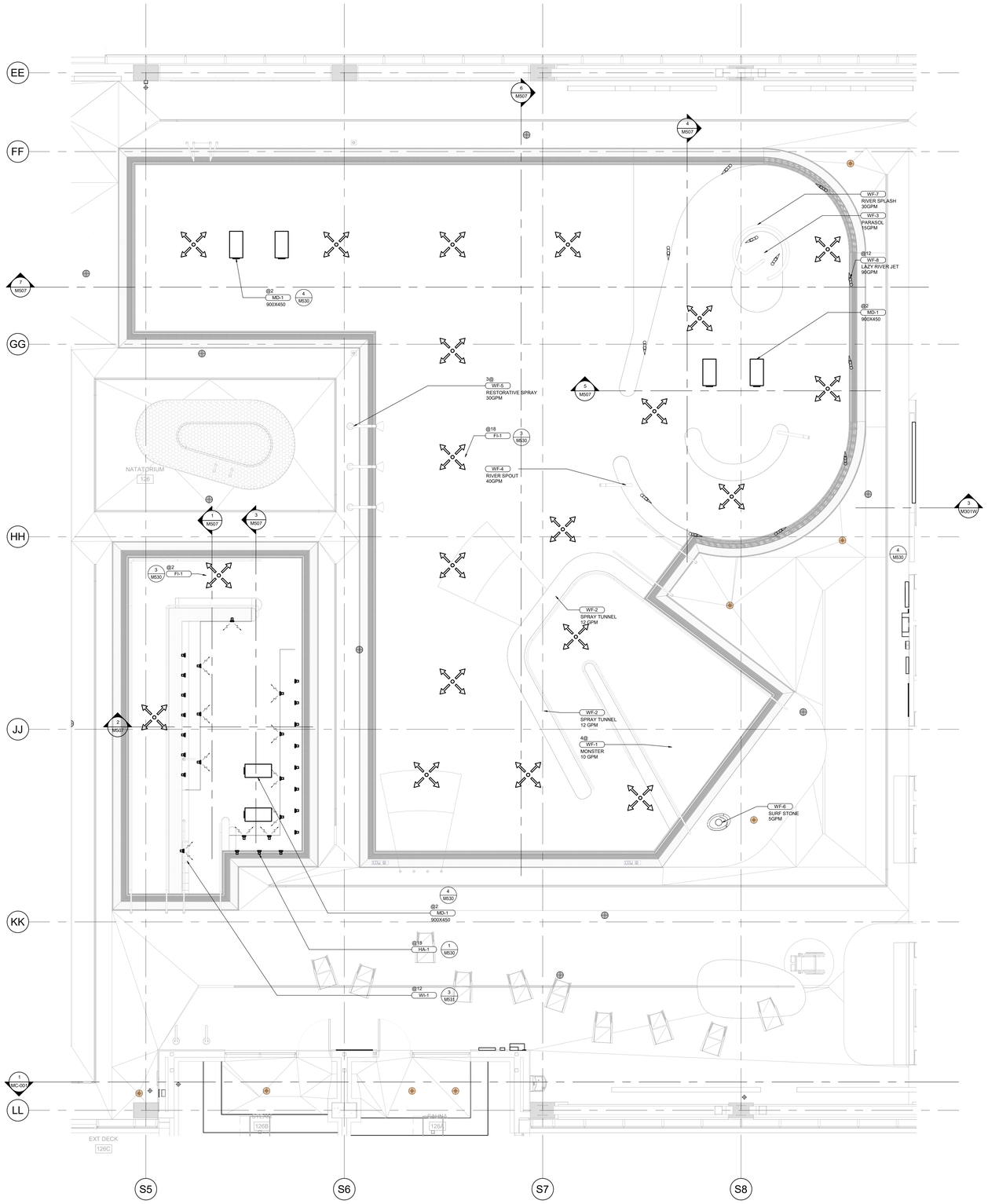
Site
Burke Mountain, Coquitlam, BC

Sheet title
POOL - LAP POOL SECTIONS

Printed Date 12/19/2025 5:13:42 PM
Sheet number **Current Issue** 3

M503

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1 M504 POOL FITTING LAYOUT - LEISURE AND HOT POOL
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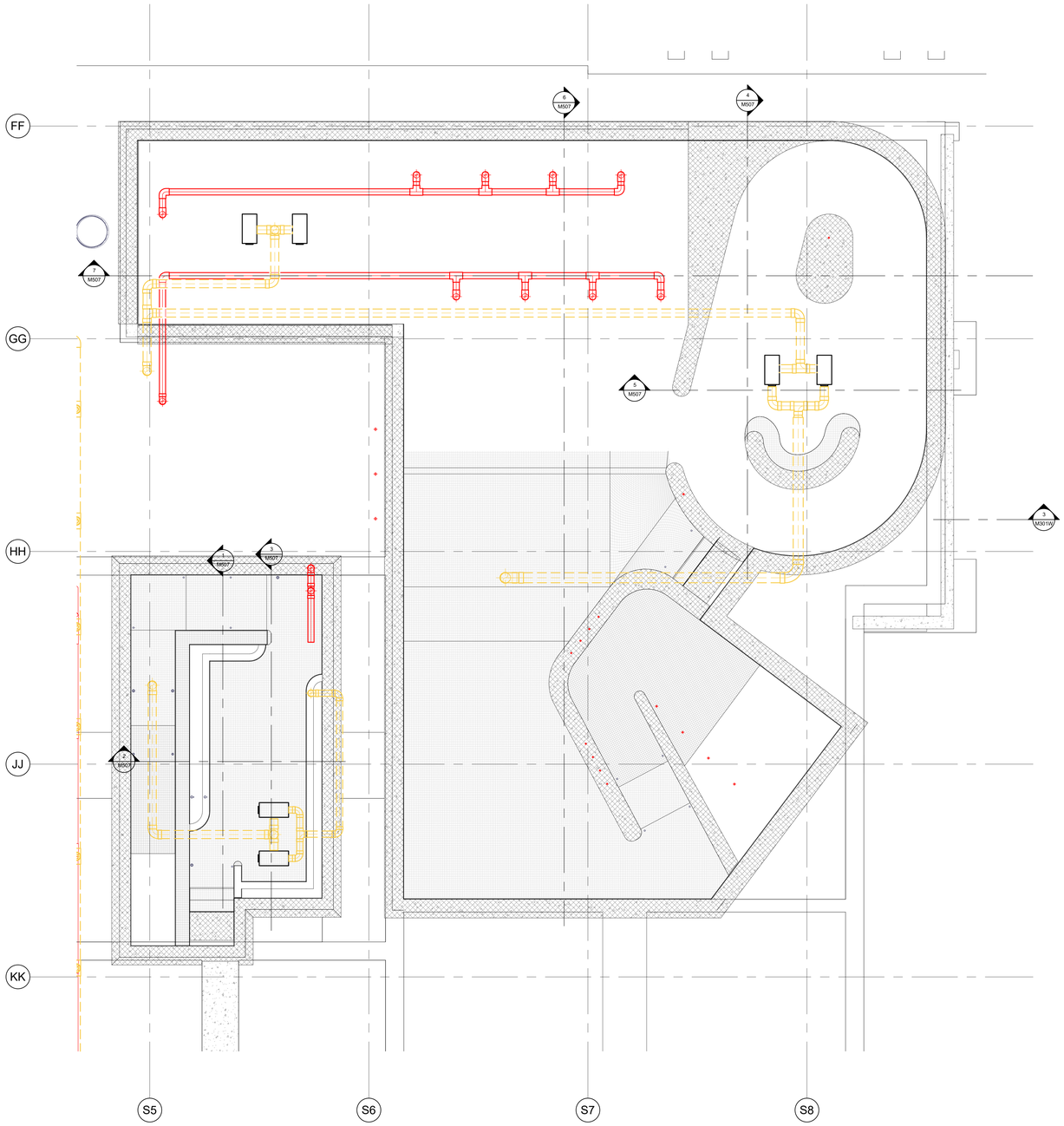
Site
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Sheet title
POOL FITTING LAYOUT - LEISURE AND HOT POOL

Printed Date 12/19/2025 5:13:46 PM
Sheet number **Current Issue** 3

M504

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1 M505 POOL PIPING - LOW LEVEL- LEISURE AND HOT POOL
SCALE: 1 : 50

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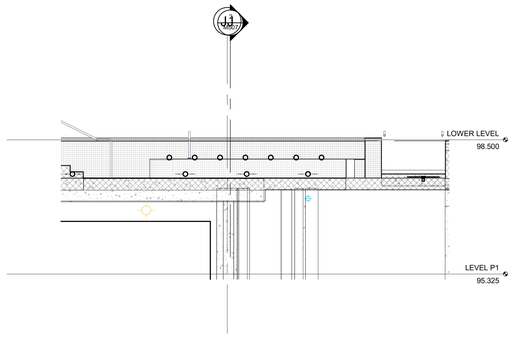
Site
Burke Mountain, Coquitlam, BC

Sheet title
POOL PIPING - LOW LEVEL- LEISURE AND HOT POOL

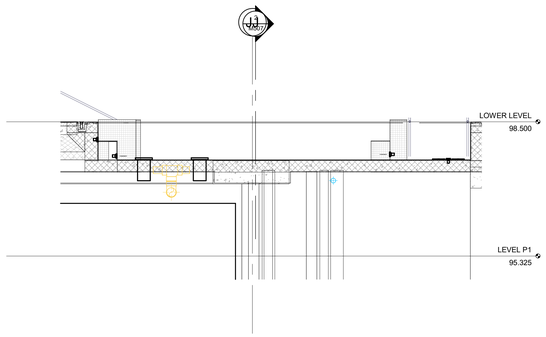
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Sheet number **Current Issue** 3

M505

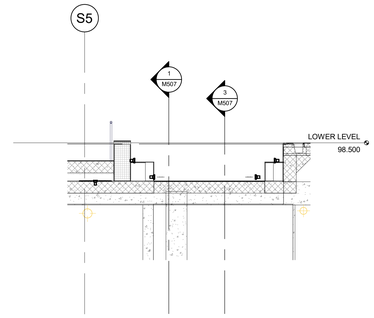
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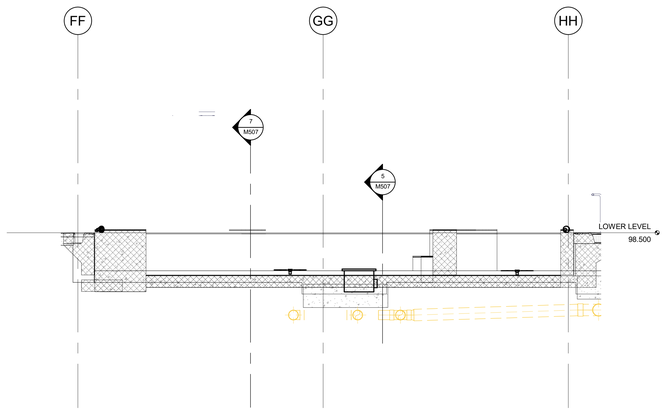
1 M507 POOL - HOT POOL N/S SECTION
SCALE: 1 : 50



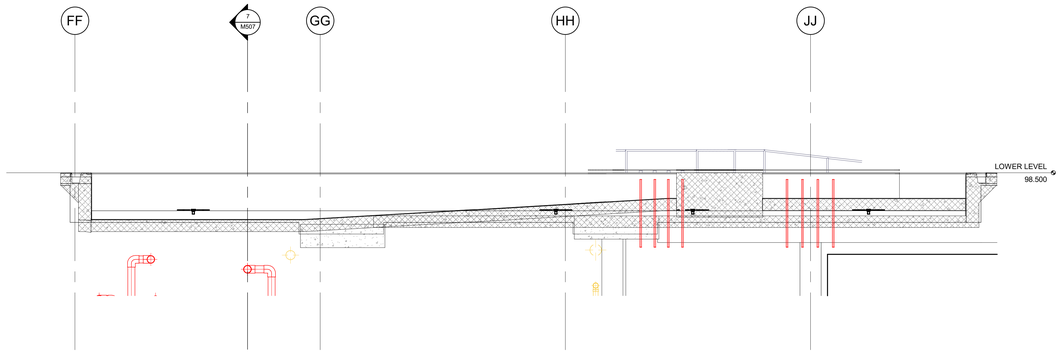
3 M507 POOL - HOT TUB N/S SECTION 2
SCALE: 1 : 50



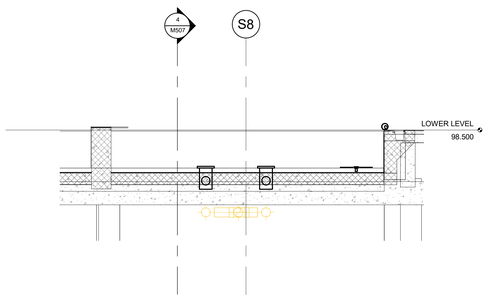
2 M507 POOL - HOT POOL W/E SECTION
SCALE: 1 : 50



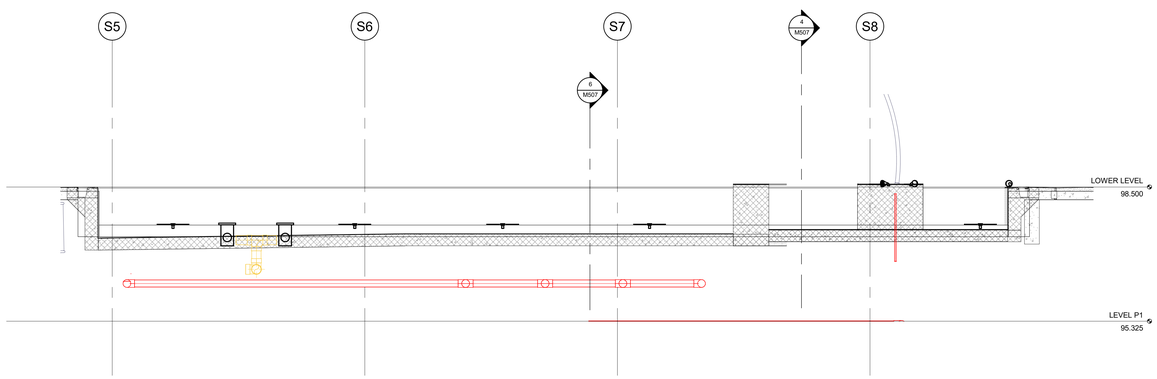
4 M507 POOL - LAZY RIVER N/S SECTION
SCALE: 1 : 50



6 M507 POOL - LEISURE POOL N/S SECTION
SCALE: 1 : 50



5 M507 POOL - LAZY RIVER W/E SECTION
SCALE: 1 : 50



7 M507 POOL - LEISURE POOL W/E SECTION
SCALE: 1 : 50

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Clien
City of Coquitlam

Site
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Sheet title
POOL - LEISURE AND HOT POOL SECTIONS

Printed Date 12/19/2025 5:13:49 PM
Sheet number **Current Issue** 3

M507

NOT FOR CONSTRUCTION

N1 J N2 N3 N4 N5 G N6

EE FF GG HH JJ KK LL

S1 S2 S3 S4 S5 S6 S7 S8

FROM WATER ENTRY ROOM

100Ø DCW POOL FILL

12 M530 LAP POOL SURGE: 3.60M X 4.20M X 3.75M TALL

LAP POOL GAS STRIPPER, BOOSTER PUMP AND BLOWER

PP-103 WATERSLIDE PUMP

PP-101

ULTRASONIC LEVEL SENSOR 3 M530

11 M531 SUBMARINE TANK ACCESS HATCH AT BASE (TYPICAL EACH SURGE TANK)

LEISURE POOL GAS STRIPPER, BOOSTER PUMP AND BLOWER

13 M530 LEISURE POOL SURGE: 3.60M X 4.70M X 3.75M TALL

PP-201

ULTRASONIC LEVEL SENSOR 2 M530

PF-101 PF-102 PF-103 PF-104

UV CONTROL PANEL TYP. 3

UV-101 PHE-101

5 M531 FROM LAP POOL PUMP TO UV / CHEMICALS THEN POOL TO BACKWASH TANK

PF-201 PF-202 PF-203 PF-204

UV-201 PHE-201

PF-301 PF-302 PF-303 PF-304

UV-301 PHE-301

PP-301 PP-302

200Ø CROSS ON SUCTION FROM SURGE TANK

HOT POOL GAS STRIPPER, 200Ø PVR FROM HOT BLOWER POOL MAIN DRAIN

11 M531 SUBMARINE TANK ACCESS HATCH AT BASE

14 M530 HOT POOL SURGE: 1.32M X 3.00M X 5.35M TALL

PP-203 PP-204

BACKWASH ACCESS HATCH 11 M531

BACKWASH TANK: 2.6M X 2.2M X 2.4M TALL (ACCESS THROUGH SIDE) 5 M530 11 M530

10 M531 SODA ASH TANK

4 M532 BULK FEED TANK

13 M531 DESK / CHEM CONTROLLERS

CL2 GAS SENSOR

CL2 TANKS ON SCALES / AUTO SWITCH-OVER

CL2

SPARE CL CYLINDERS

1 M532 CL GAS 20' X 11.5' X 8' HIGH

CL2 GAS MONITOR / OVERRIDE SWITCH

CHEMICAL STORAGE PALLETS

PP-001 BULKFEED PUMP

PTK-001 PTK-002

1½" FLUSH LINE

PP-111 PP-211 PP-311 PP-112 PP-212 PP-312

CHEMICAL BY-PASS

2 M532 CO2 CYLINDERS

CL2 BOOSTER PUMPS

DOOR REQUIRED OPENING OUT WITH PANIC HARDWARE

VIEWING WINDOW, REFER TO ARCH

1 M510 POOL MECHANICAL ROOM - EQUIPMENT LEVEL
SCALE: 1 : 50

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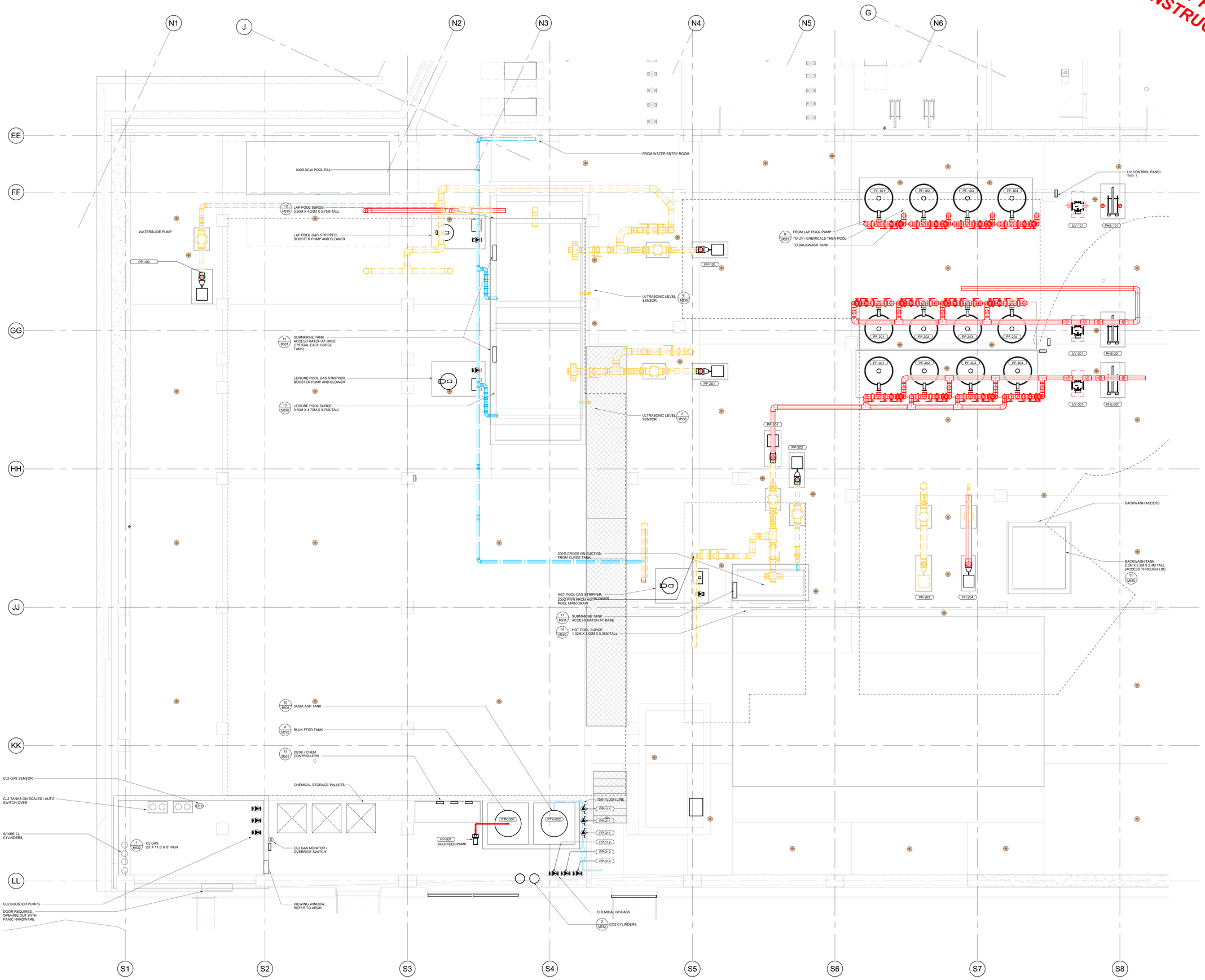
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Sheet title
POOL MECHANICAL ROOM - EQUIPMENT LEVEL

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Sheet number **Current Issue** 3

M510

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1 M511 POOL MECHANICAL ROOM - PIPING LEVEL
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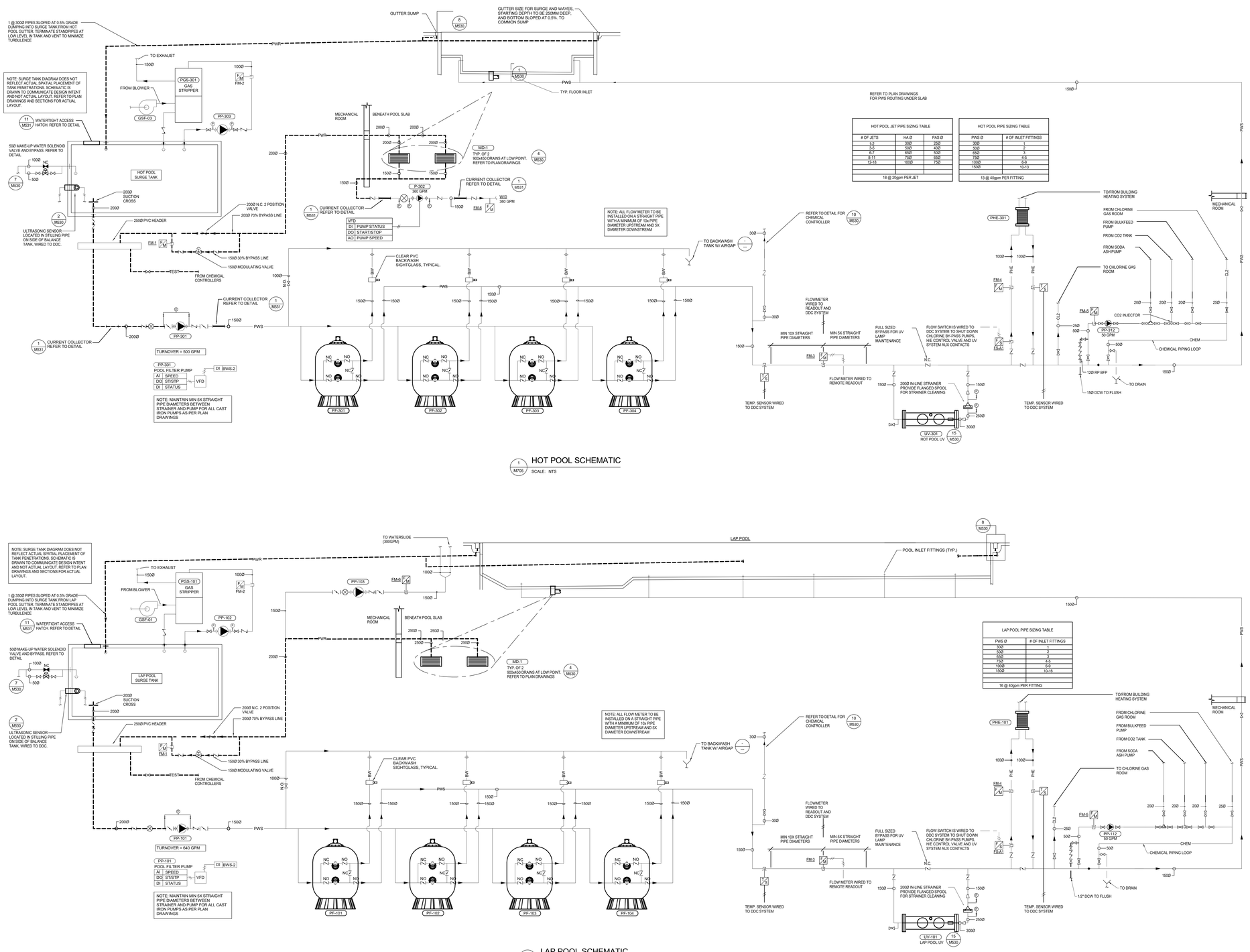
Site
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Sheet title
POOL MECHANICAL ROOM - PIPING LEVEL

Printed Date 12/19/2025 5:14:00 PM
Sheet number **Current Issue** 3

M511

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1 M705 HOT POOL SCHEMATIC
SCALE: NTS

2 M705 LAP POOL SCHEMATIC
SCALE: NTS

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Site
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Sheet title
SCHEMATICS - HOT AND LAP POOL

Printed Date 12/19/2025 5:14:00 PM
Sheet number **Current Issue** 3

M520

NOT FOR CONSTRUCTION

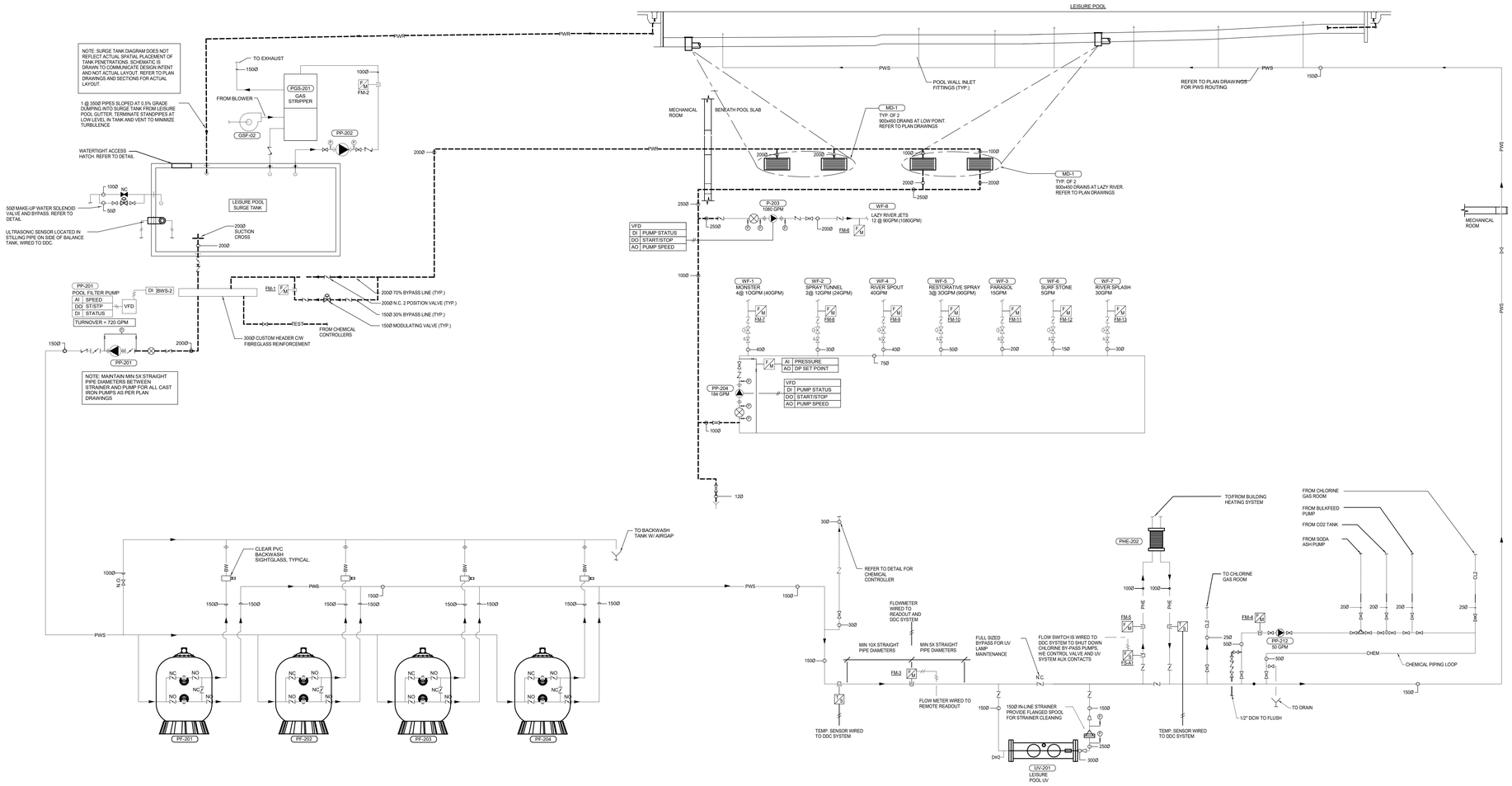
LAZY RIVER JET PIPE SIZING TABLE		
# OF JETS	HA Ø	PAS Ø
1-2	30Ø	25Ø
3-5	50Ø	40Ø
6-7	65Ø	50Ø
8-11	75Ø	65Ø
12	100Ø	75Ø
12 @ 20gpm PER JET		

LAZY RIVER VORTEX JET PIPE SIZING TABLE		
# OF JETS	HA Ø	PAS Ø
1	30Ø	REF. 7/M620
2	75Ø	REF. 7/M620
3-4	100Ø	REF. 7/M620
5-10	150Ø	REF. 7/M620
11-16	200Ø	REF. 7/M620
16 @ 90gpm PER JET		

LEISURE POOL PIPE SIZING TABLE	
PWS Ø	# OF INLET FITTINGS
30Ø	1
50Ø	2
65Ø	3
75Ø	4-5
100Ø	6-9
150Ø	10-16
18 @ 40gpm PER FITTING	

POOL WATER FEATURES	
WF-1	TBD
WF-2	TBD
WF-3	TBD
WF-4	TBD
WF-5	TBD

NOTE: BALANCE/ECO TANK DIAGRAM DOES NOT REFLECT ACTUAL SPATIAL PLACEMENT OF TANK PENETRATIONS. SCHEMATIC IS DRAWN TO COMMUNICATE DESIGN INTENT AND NOT ACTUAL LAYOUT. REFER TO PLAN DRAWINGS AND SECTIONS FOR ACTUAL LAYOUT.



1 M706 LEISURE POOL SCHEMATIC

SCALE: NTS

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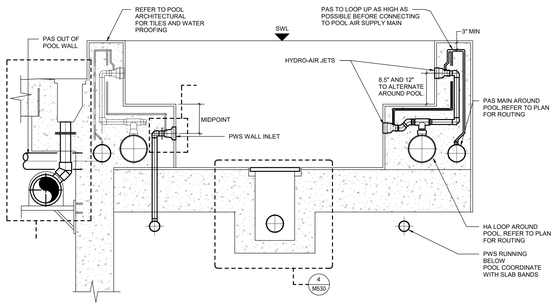
Site
Burke Mountain, Coquitlam, BC

Sheet title
SCHEMATICS - LEISURE POOL

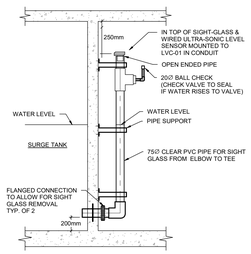
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Sheet number **Current Issue** 3

M521

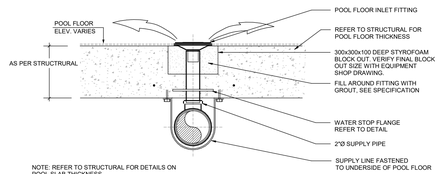
NOT FOR CONSTRUCTION



1 M530 HOT TUB WALL SECTION
SCALE: NOT TO SCALE



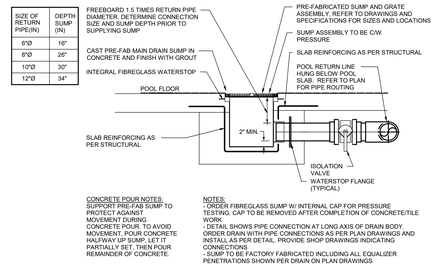
2 M530 SURGE TANK LEVEL CONTROL DETAIL
SCALE: NOT TO SCALE



NOTE: REFER TO STRUCTURAL FOR DETAILS ON POOL SLAB THICKNESS

3 M530 FLOOR INLET IN SUSPENDED SLAB DETAIL
SCALE: NOT TO SCALE

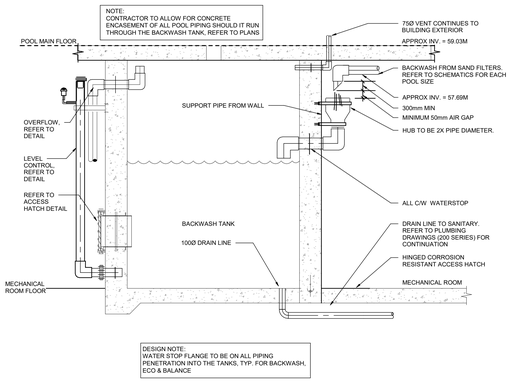
SIZE OF RETURN PIPE(IN)	DEPTH SUMP (IN)
6"Ø	16"
8"Ø	26"
10"Ø	30"
12"Ø	34"



CONCRETE POUR NOTES:
SUPPORT PRE-FAB SUMP TO PROTECT AGAINST MOVEMENT DURING CONCRETE POUR. TO AVOID MOVEMENT, POUR CONCRETE HALFWAY UP SUMP, LET IT PARTIALLY SET. THEN POUR REMAINDER OF CONCRETE.

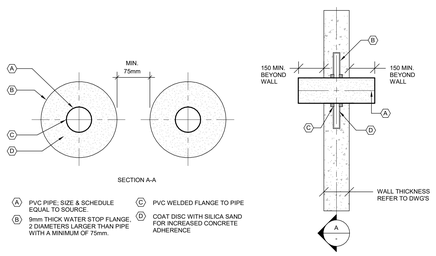
NOTES:
- ORDER FIBREGLASS SUMP W/ INTERNAL CAP FOR PRESSURE TESTING. CAP TO BE REMOVED AFTER COMPLETION OF CONCRETE/TILE WORK.
- DETAIL SHOWS PIPE CONNECTION AT LONG AXIS OF DRAIN BODY. ORDER DRAIN WITH PIPE CONNECTIONS AS PER PLAN DRAWINGS AND INSTALL AS PER DETAIL. PROVIDE SHOP DRAWINGS INDICATING CONNECTIONS.
- SUMP TO BE FACTORY FABRICATED INCLUDING ALL EQUALIZER PENETRATIONS SHOWN PER DRAIN ON PLAN DRAWINGS

4 M530 PRE-FABRICATED MAIN DRAIN
SCALE: NOT TO SCALE



DESIGN NOTE:
WATER STOP FLANGE TO BE ON ALL PIPING PENETRATION INTO THE TANKS, TYP. FOR BACKWASH, ECO & BALANCE

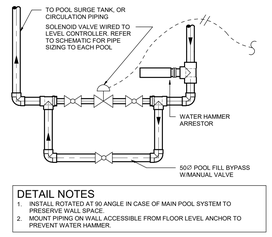
5 M530 BACKWASH TANK DETAIL
SCALE: 1 : 1



A PVC PIPE; SIZE & SCHEDULE EQUAL TO SOURCE.
B 9mm THICK WATER STOP FLANGE, 2 DIAMETERS LARGER THAN PIPE WITH A MINIMUM OF 75mm.
C PVC WELDED FLANGE TO PIPE
D COAT DISC WITH SILICA SAND FOR INCREASED CONCRETE ADHERENCE

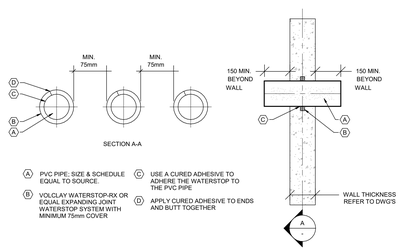
DETAIL NOTES
1. REQUIRED IN POOL WALL, POOL FLOOR PIPES PENETRATING WALLS & SURGE TANK

6 M530 WATER STOP FLANGE DETAIL
SCALE: NOT TO SCALE



DETAIL NOTES
1. INSTALL ROTATED AT 90 ANGLE IN CASE OF MAIN POOL SYSTEM TO PRESERVE WALL SPACE.
2. MOUNT PIPING ON WALL ACCESSIBLE FROM FLOOR LEVEL ANCHOR TO PREVENT WATER HAMMER.

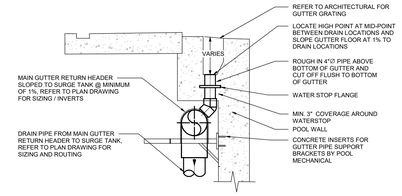
7 M530 POOL QUICKFILL
SCALE: NOT TO SCALE



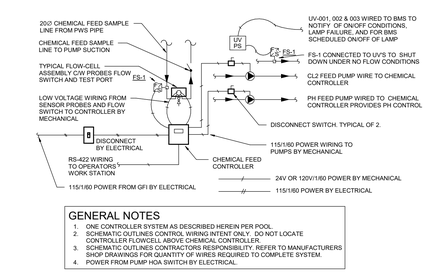
A PVC PIPE; SIZE & SCHEDULE EQUAL TO SOURCE.
B VOLCLAY WATERSTOP-RX OR EQUAL EXPANDING JOINT WATERSTOP SYSTEM WITH MINIMUM 75mm COVER
C USE A CURED ADHESIVE TO ADHERE THE WATERSTOP TO THE PVC PIPE
D APPLY CURED ADHESIVE TO ENDS AND BUTT TOGETHER

DETAIL NOTES
1. REQUIRED IN POOL WALL, POOL FLOOR PIPES PENETRATING WALLS & SURGE TANKS.
2. FOLLOW MANUFACTURER/S INSTALLATION INSTRUCTIONS.
3. ONLY USE THIS DETAILS WITH APPROVAL OF ENGINEER IN LOCATIONS WHERE THIS IS NOT ADEQUATE SPACE FOR FLANGED WATERSTOP DETAIL.

9 M530 SPECIAL WATER STOP FLANGE
SCALE: NOT TO SCALE

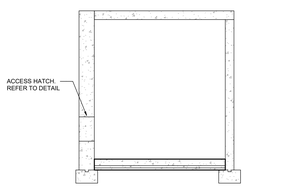


8 M530 GUTTER DETAIL
SCALE: NOT TO SCALE



GENERAL NOTES
1. ONE CONTROLLER SYSTEM AS DESCRIBED HEREIN PER POOL.
2. SCHEMATIC OUTLINES CONTROL WIRING INTENT ONLY. DO NOT LOCATE CONTROLLER FLOWCELL ABOVE CHEMICAL CONTROLLER.
3. SCHEMATIC OUTLINES CONTRACTORS RESPONSIBILITY. REFER TO MANUFACTURERS SHOP DRAWINGS FOR QUANTITY OF WIRES REQUIRED TO COMPLETE SYSTEM.
4. POWER FROM PUMP HOA SWITCH BY ELECTRICAL.

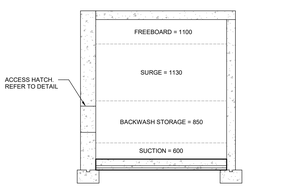
10 M530 CHEMICAL CONTROLLER DETAIL
SCALE: NOT TO SCALE



BACKWASH REQUIREMENT	SAND FILTER AREA = 16.5FT² (1.53M²) = 16.5FT² X 20 GPM/MIN X 10 MIN = 12.48M³
TANK DIMENSIONS	= 2600Lx2200Wx2400DP (APROX 13.7M³)

DETAIL NOTES
1. REFER TO DETAILS FOR LEVEL SENSORS & OVERFLOW DESIGN

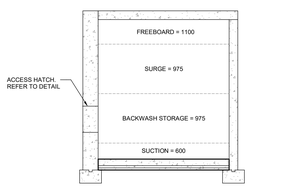
11 M530 BACKWASH TANK
SCALE: NOT TO SCALE



SURGE REQUIREMENT	= 295 BATHERS AT 2 FT² PER BATHER = 590 FT² = 4,414 USG
TANK DIMENSIONS	= 3600Lx4200Wx3750DP (APROX 15.12m³)

DETAIL NOTES
1. REFER TO DETAILS FOR LEVEL SENSORS & OVERFLOW DESIGN

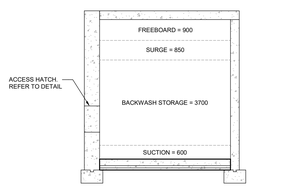
12 M530 LAP POOL SURGE TANK
SCALE: NOT TO SCALE



SURGE REQUIREMENT	= 298 BATHERS AT 2 FT² PER BATHER = 596 FT² = 4,458 USG
TANK DIMENSIONS	= 3600Lx4700Wx3750DP (APROX 16.9m³)

DETAIL NOTES
1. REFER TO DETAILS FOR LEVEL SENSORS & OVERFLOW DESIGN

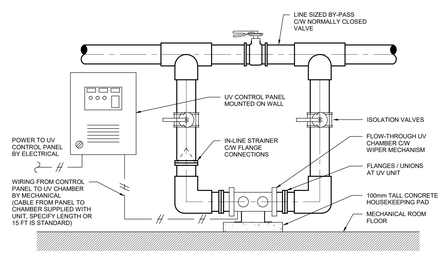
13 M530 LEISURE POOL SURGE TANK
SCALE: NOT TO SCALE



SURGE REQUIREMENT	= 50 BATHERS AT 2 FT² PER BATHER = 100 FT² = 748 USG
TANK DIMENSIONS	= 1320Lx3000Wx5350DP (APROX 21.2m³)

DETAIL NOTES
1. REFER TO DETAILS FOR LEVEL SENSORS & OVERFLOW DESIGN

14 M530 HOT POOL SURGE TANK
SCALE: NOT TO SCALE



15 M530 TYPICAL UV INSTALLATION DETAIL
SCALE: NOT TO SCALE

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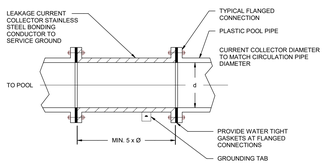
Site
Burke Mountain, Coquitlam, BC

Sheet title
POOL DETAILS I

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Sheet number **Current Issue** 3

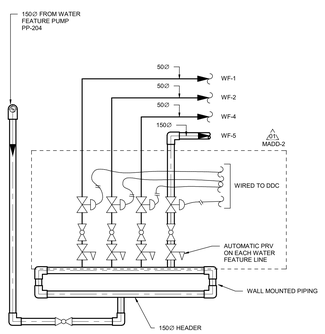
M530

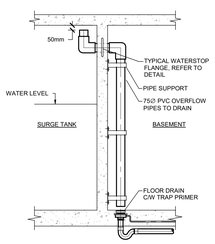
NOT FOR CONSTRUCTION



1 M531 STRAY CURRENT COLLECTOR DETAIL

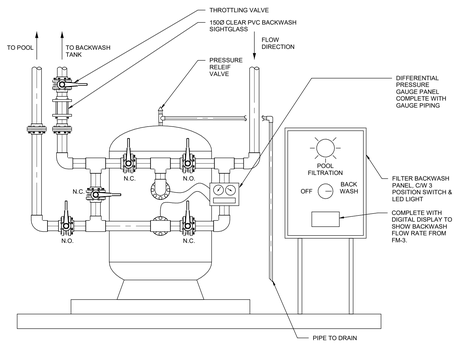
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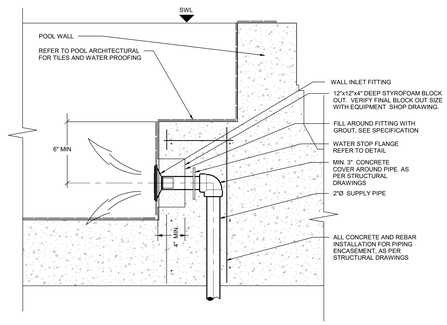




2 M531 SURGE TANK OVERFLOW DETAIL

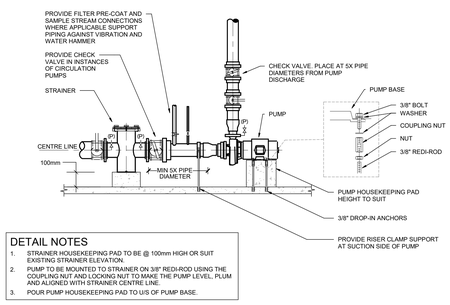
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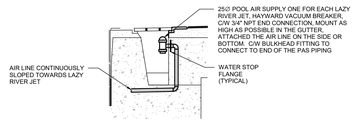
3 M531 WALL INLET IN SUSPENDED SLAB DETAIL

SCALE: NOT TO SCALE



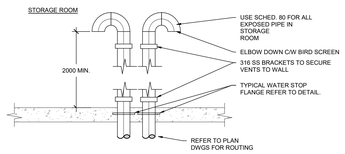
DETAIL NOTES

1. STRAINER HOUSEKEEPING PAD TO BE @ 100mm HIGH OR SUIT EXISTING STRAINER ELEVATION.
2. PUMP TO BE MOUNTED TO STRAINER ON 3/8" REDI-ROD USING THE COUPLING NUT AND LOCKING NUT TO MAKE THE PUMP LEVEL, PLUM AND ALIGNED WITH STRAINER CENTRE LINE.
3. POUR PUMP HOUSEKEEPING PAD TO U/S OF PUMP BASE.



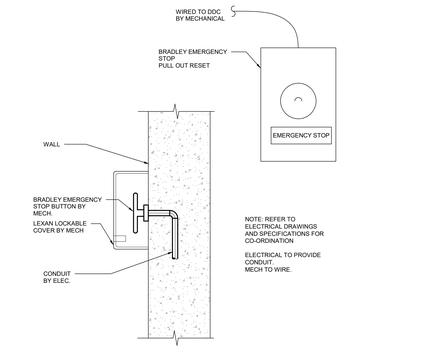
4 M531 GUTTER AIR VALVE

SCALE: NOT TO SCALE



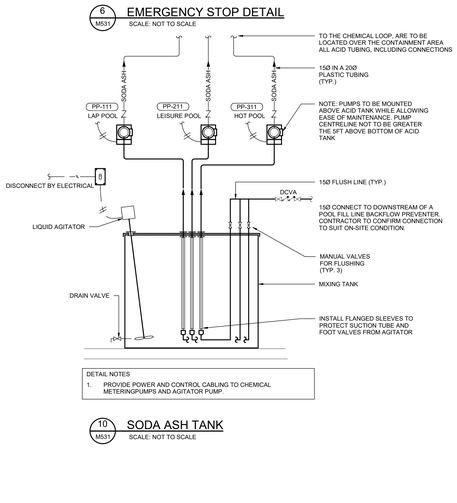
5 M531 PAS LINE DETAIL

SCALE: NOT TO SCALE



6 M531 EMERGENCY STOP DETAIL

SCALE: NOT TO SCALE

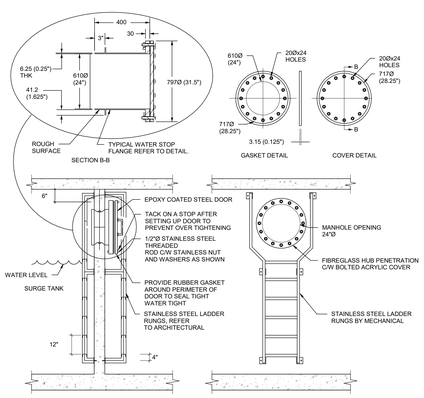


DETAIL NOTES

1. PROVIDE POWER AND CONTROL CABLING TO CHEMICAL METERINGPUMPS AND AGITATOR PUMP.

7 M531 WATER FEATURE VALVE STATION DETAIL

SCALE: NOT TO SCALE

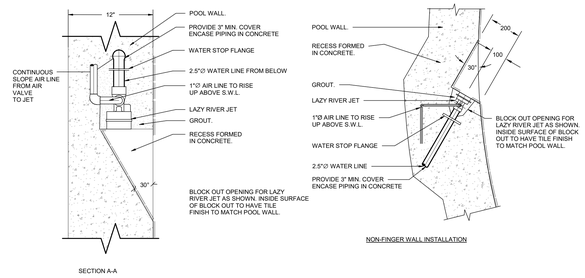


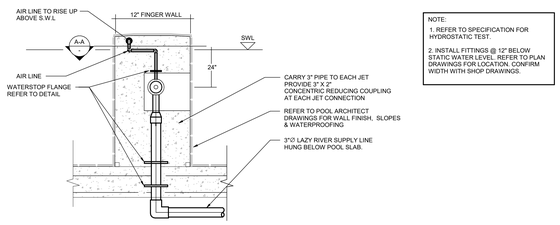
8 M531 WATERCO SAND FILTER DETAIL

SCALE: NOT TO SCALE

9 M531 PUMP MOUNT DETAIL

SCALE: NOT TO SCALE



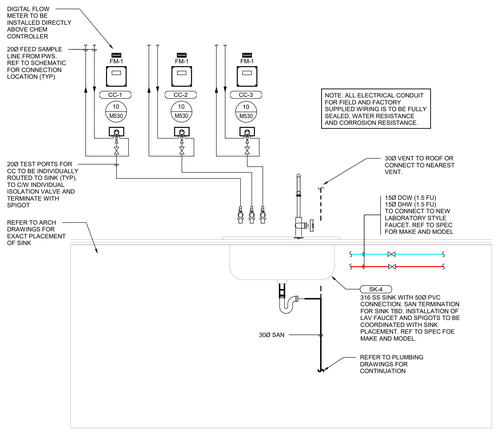


NOTE:

1. REFER TO SPECIFICATION FOR HYDROSTATIC TEST.
2. INSTALL FITTINGS @ 12" BELOW STATIC WATER LEVEL. REFER TO PLAN DRAWINGS FOR LOCATION. CONFIRM WIDTH WITH SHOP DRAWINGS.

10 M531 SODA ASH TANK

SCALE: NOT TO SCALE



11 M531 TANK ACCESS HATCH DETAIL

SCALE: NOT TO SCALE

12 M531 WATER CURRENT JET DETAIL

SCALE: NOT TO SCALE

13 M531 CHEMICAL CONTROLLER WALL DISPLAY

SCALE: NOT TO SCALE

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Key Plan

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Project title

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City of Coquitlam

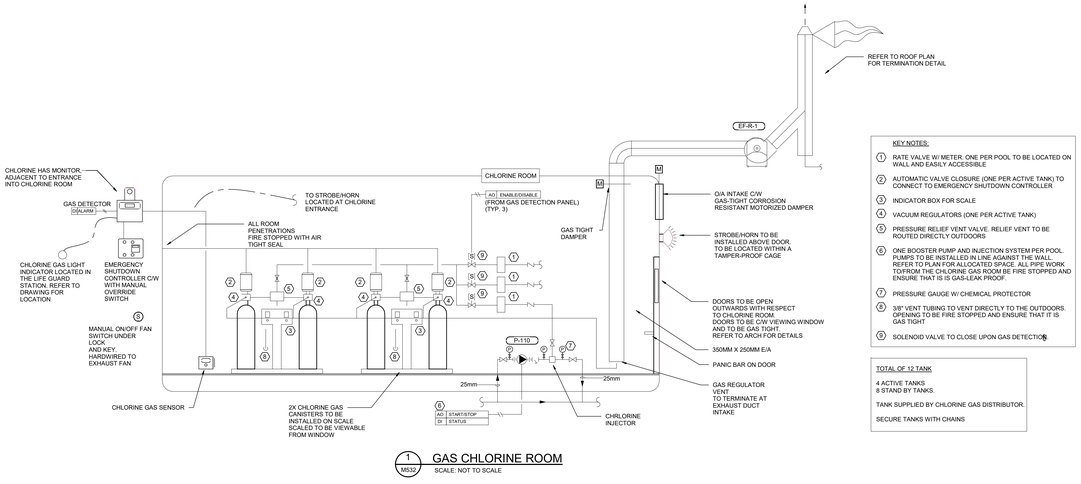
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Sheet title

POOL DETAILS II

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M531



KEY NOTES:

1. RATE VALVE W/ METER. ONE PER POOL TO BE LOCATED ON WALL AND EASILY ACCESSIBLE
2. AUTOMATIC VALVE CLOSURE (ONE PER ACTIVE TANK) TO CONNECT TO EMERGENCY SHUTDOWN CONTROLLER
3. INDICATOR BOX FOR SCALE
4. VACUUM REGULATORS (ONE PER ACTIVE TANK)
5. PRESSURE RELIEF VENT VALVE. RELIEF VENT TO BE ROUTED DIRECTLY OUTDOORS
6. ONE BOOSTER PUMP AND INJECTION SYSTEM PER POOL. PUMPS TO BE INSTALLED IN LINE AGAINST THE WALL. REFER TO PLAN FOR ALLOCATED SPACE. ALL PIPE WORK TO/FROM THE CHLORINE GAS ROOM BE FIRE STOPPED AND ENSURE THAT IS IS GAS-LEAK PROOF.
7. PRESSURE GAUGE W/ CHEMICAL PROTECTOR
8. 3/8" VENT TUBING TO VENT DIRECTLY TO THE OUTDOORS. OPENING TO BE FIRE STOPPED AND ENSURE THAT IT IS GAS TIGHT
9. SOLENOID VALVE TO CLOSE UPON GAS DETECTION.

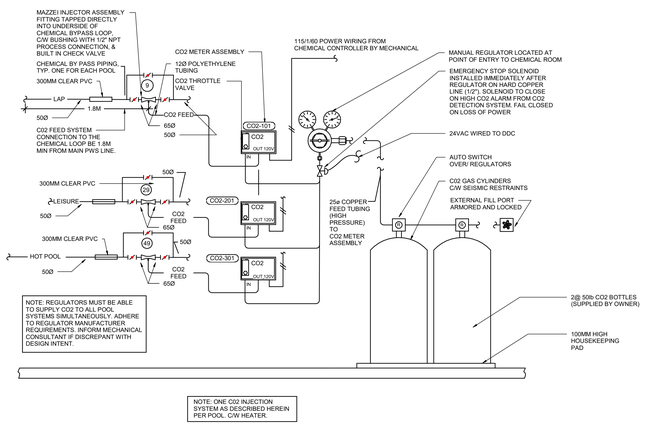
TOTAL OF 12 TANK

4 ACTIVE TANKS
8 STAND BY TANKS.

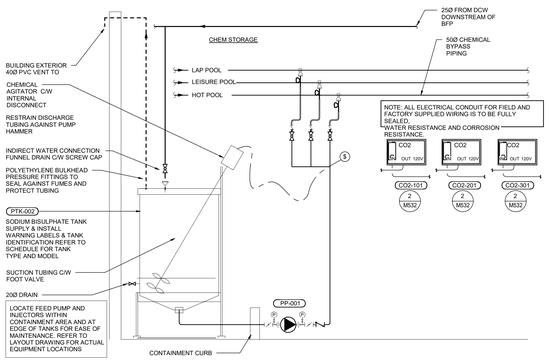
TANK SUPPLIED BY CHLORINE GAS DISTRIBUTOR.

SECURE TANKS WITH CHAINS

1 M532 GAS CHLORINE ROOM
SCALE: NOT TO SCALE



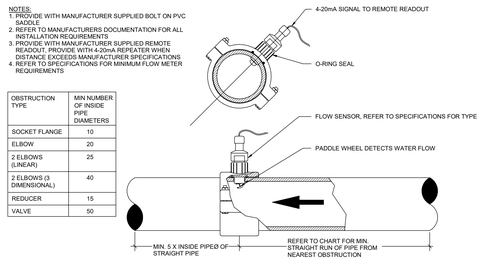
2 M532 CO2 DETAIL
SCALE: NOT TO SCALE



4 M532 BULK FEED TANK
SCALE: NOT TO SCALE

NOTES:
1. PROVIDE WITH MANUFACTURER SUPPLIED BOLT ON PVC SADDLE
2. REFER TO MANUFACTURERS DOCUMENTATION FOR ALL INSTALLATION REQUIREMENTS
3. PROVIDE WITH MANUFACTURER SUPPLIED REMOTE READOUT, PROVIDE WITH 4-20mA REPEATER WHEN DISTANCE EXCEEDS MANUFACTURER SPECIFICATIONS
4. REFER TO SPECIFICATIONS FOR MINIMUM FLOW METER REQUIREMENTS

OBSTRUCTION TYPE	MIN NUMBER OF INSIDE PIPE DIAMETERS
SOCKET FLANGE	10
ELBOW	20
2 ELBOWS (LINEAR)	25
2 ELBOWS (3 DIMENSIONAL)	40
REDUCER	15
VALVE	50



5 M532 FLOW METER DETAIL
SCALE: NOT TO SCALE

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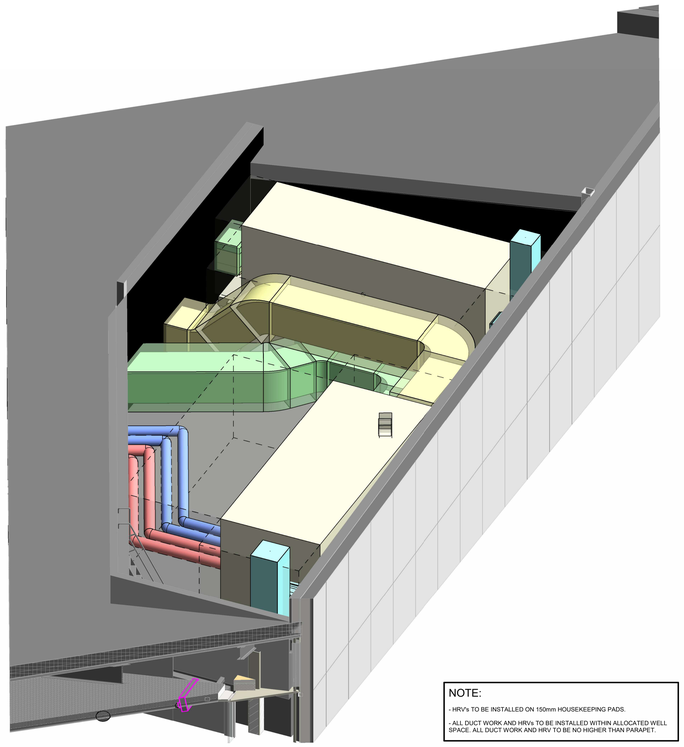
Site
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Sheet title
POOL DETAILS III

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Sheet number **Current Issue** 3

M532

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NOTE:

- HRV's TO BE INSTALLED ON 150mm HOUSEKEEPING PADS.

- ALL DUCT WORK AND HRVs TO BE INSTALLED WITHIN ALLOCATED WELL SPACE. ALL DUCT WORK AND HRV TO BE NO HIGHER THAN PARAPET.

2 / M600 HRV WELL - LIBRARY
SCALE: NOT TO SCALE

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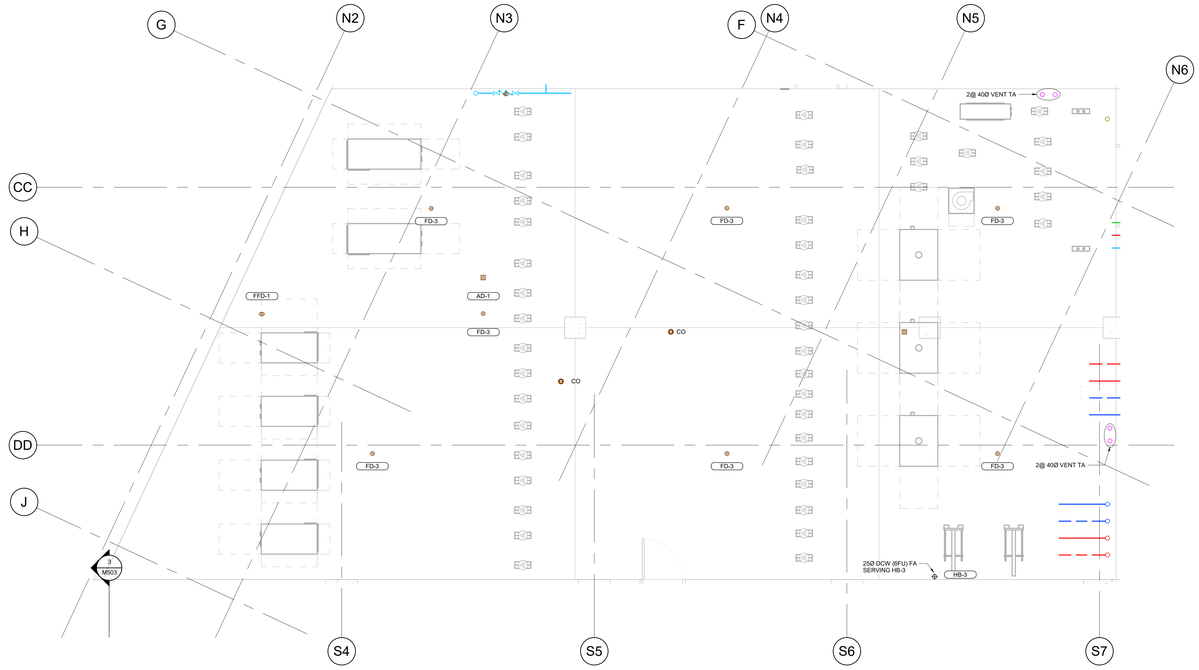
Site
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Sheet title
PARTIAL PLAN

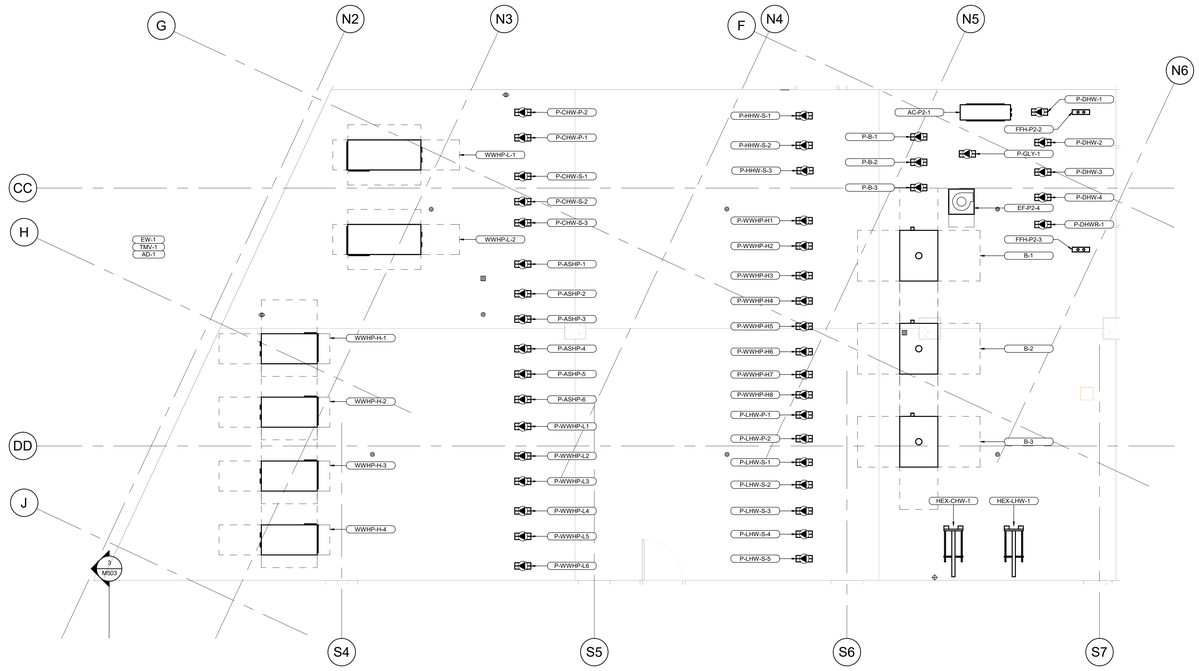
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Sheet number **Current Issue** 3

M600

NOT FOR CONSTRUCTION



2 M601 MECHANICAL ROOM - PIPING
SCALE: 1 : 50



1 M601 MECHANICAL ROOM - EQUIPMENT
SCALE: 1 : 50

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Key Plan

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1	08/08/2025	ISSUED FOR 100% DD
2	10/01/2025	ISSUED FOR 25% CD
3	11/21/2025	ISSUED FOR 50% CD

Project title
Burke Mountain Community Centre (BMCC)

Clien
City of Coquitlam

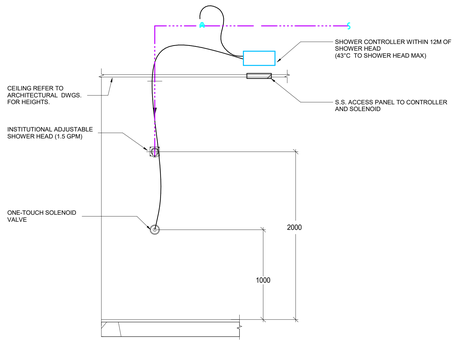
Site
Burke Mountain, Coquitlam, BC

Sheet title
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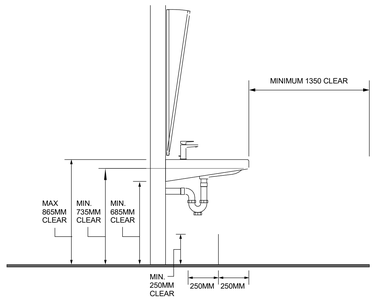
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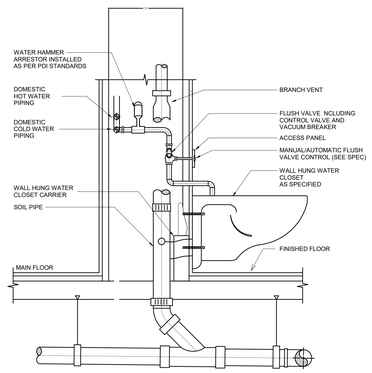
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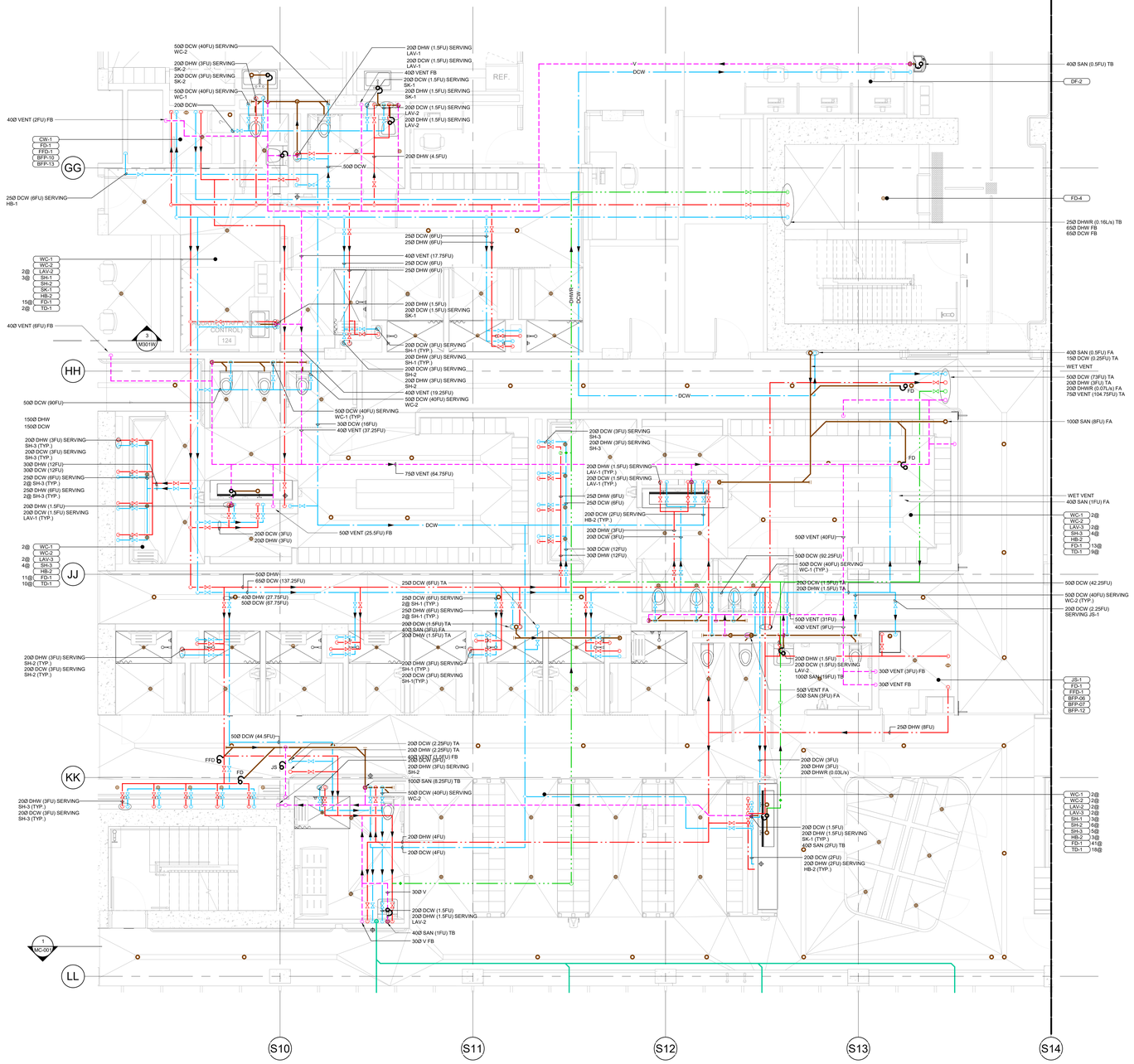
4 M602 WALL SHOWER VALVE DETAIL (SH-3)
SCALE: NOT TO SCALE



3 M602 ADA LAVATORY DETAIL (LAV-2)
SCALE: NOT TO SCALE



2 M602 WALL HUNG WATER CLOSET WITH FLUSH VALVE, DRAINAGE AND WATER SUPPLY DETAILS
SCALE: NOT TO SCALE



1 M602 MAIN CHANGEROOM - PLUMBING
SCALE: 1 : 50

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City of Coquitlam

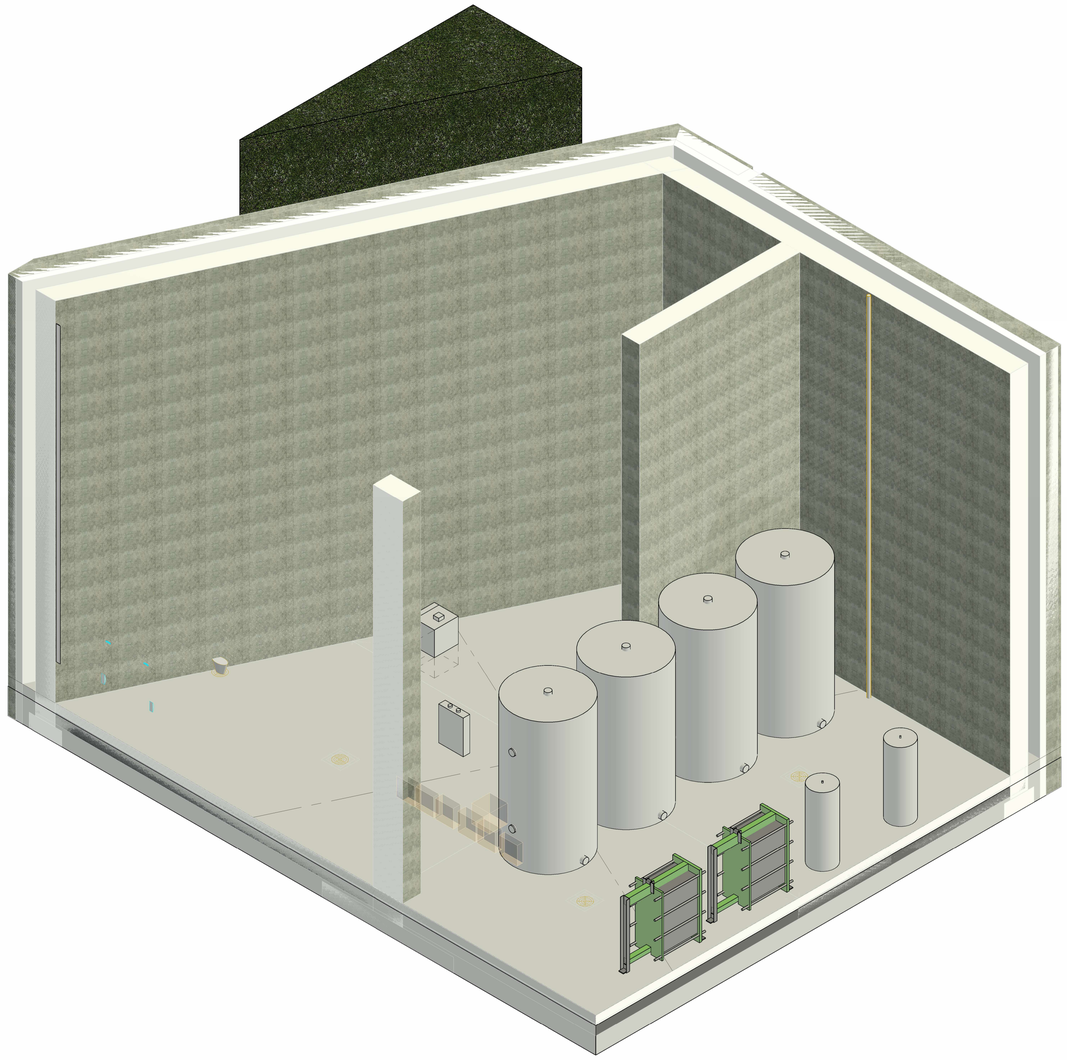
Site
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Sheet title
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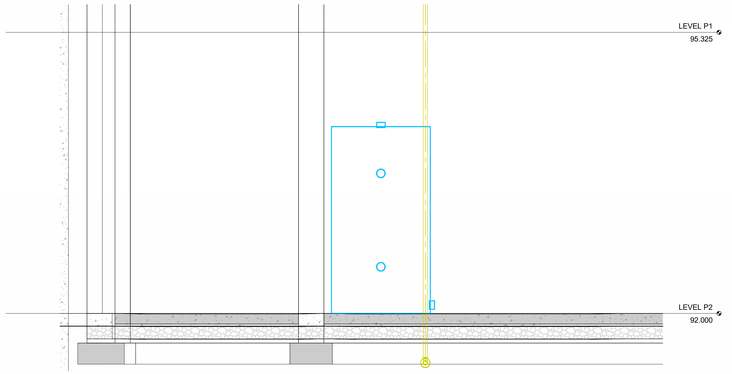
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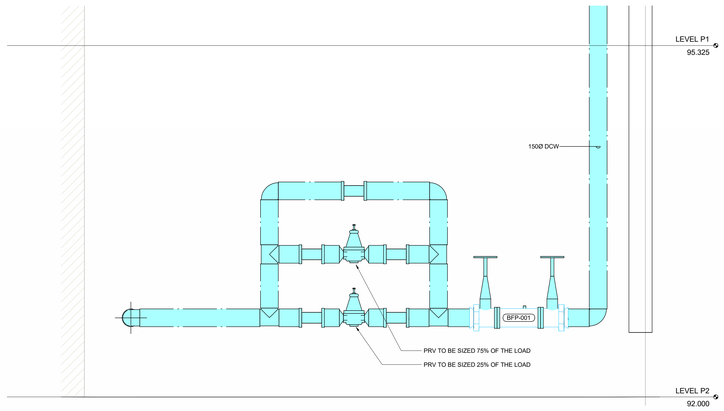
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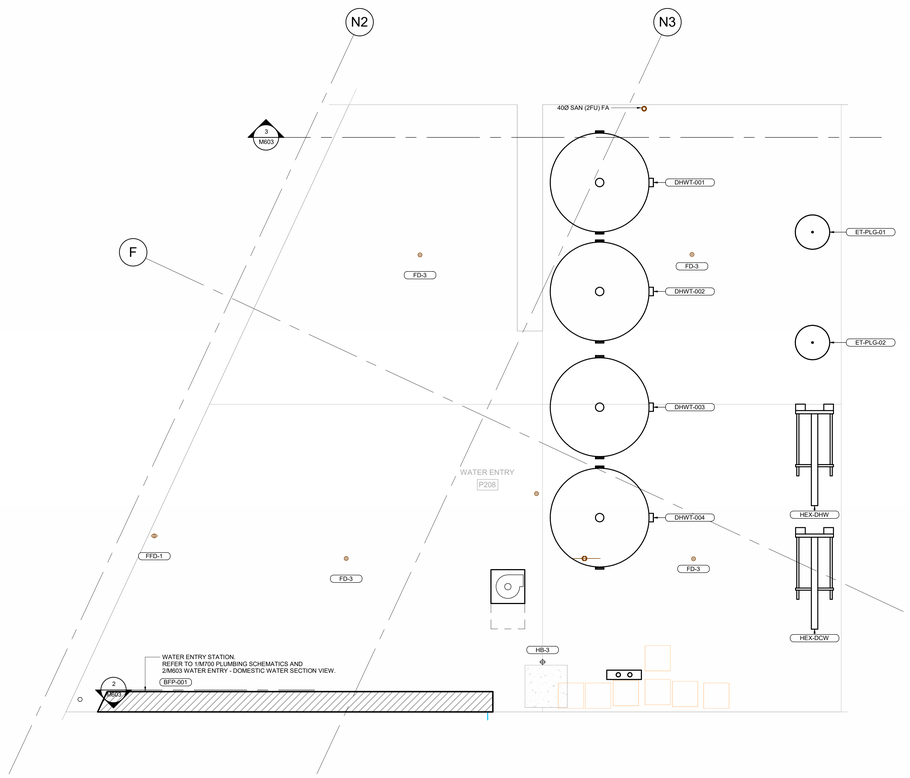
4 M603 PARTIAL PLAN - WATER ENTRY ROOM
SCALE:



3 M603 WATER ENTRY ROOM - FIRE PROTECTION
SCALE: NOT TO SCALE



2 M603 WATER ENTRY ROOM - DOMESTIC WATER
SCALE: NOT TO SCALE



1 M603 WATER ENTRY ROOM - PIPING
SCALE: 1 : 25

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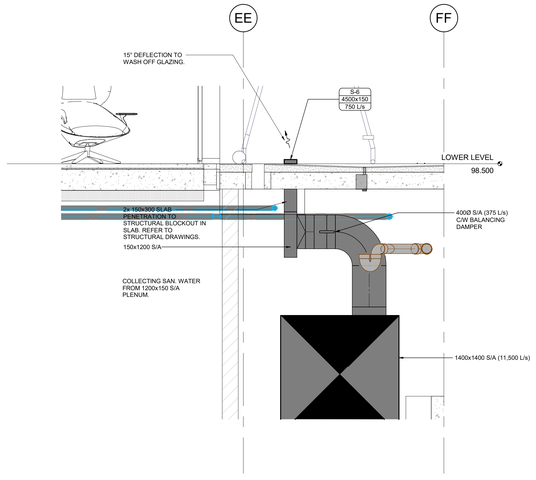
Site
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Sheet title
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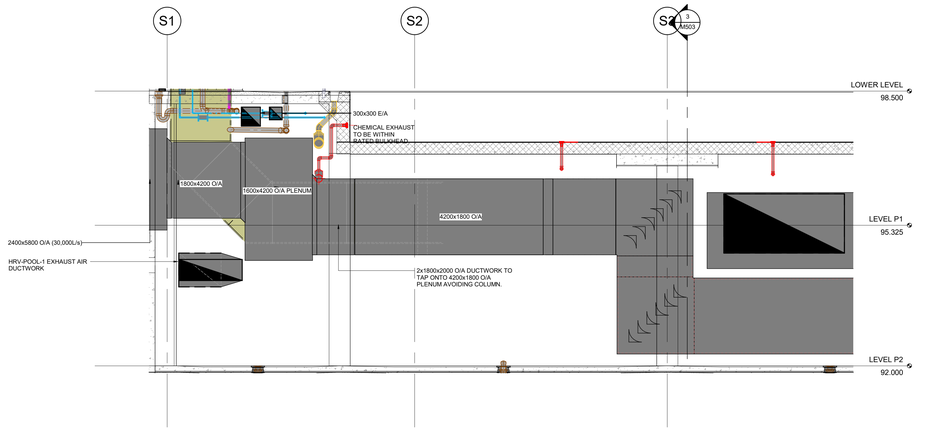
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Sheet number **Current Issue** 3

M603

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2 M610 NATATORIUM LOW LEVEL SUPPLY - TYPICAL SECTION VIEW
SCALE: 1 : 25



1 M610 AHU-POOL-1 O/A INTAKE SECTION VIEW
SCALE: 1 : 50

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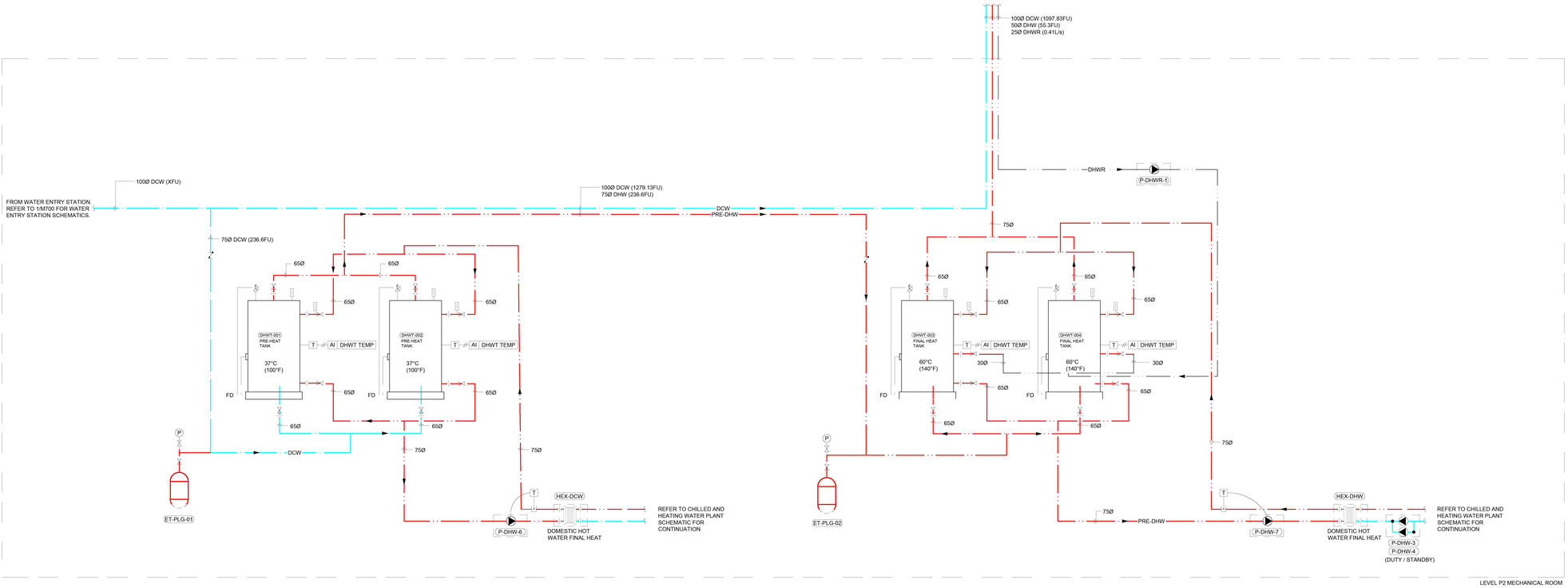
Site
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Sheet title
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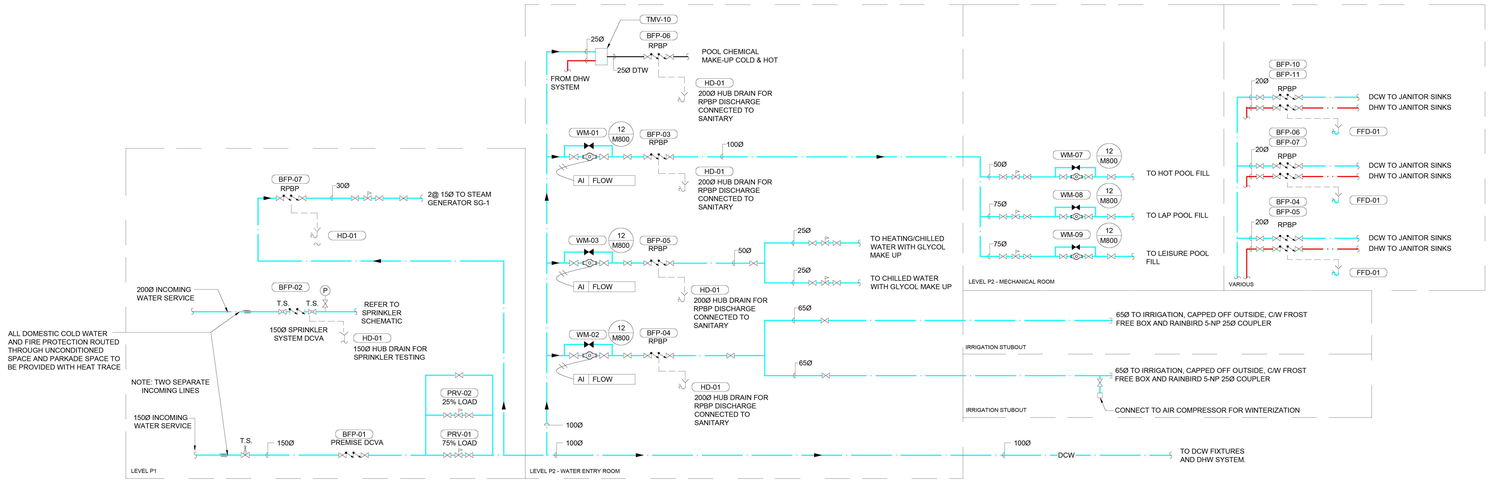
M610

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2 M700 PLUMBING - DOMESTIC HOT WATER PLANT SCHEMATICS

SCALE: NTS



1 M700 PLUMBING - DOMESTIC WATER ENTRY STATION SCHEMATICS

SCALE: NTS

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City of Coquitlam

Site
Burke Mountain, Coquitlam, BC

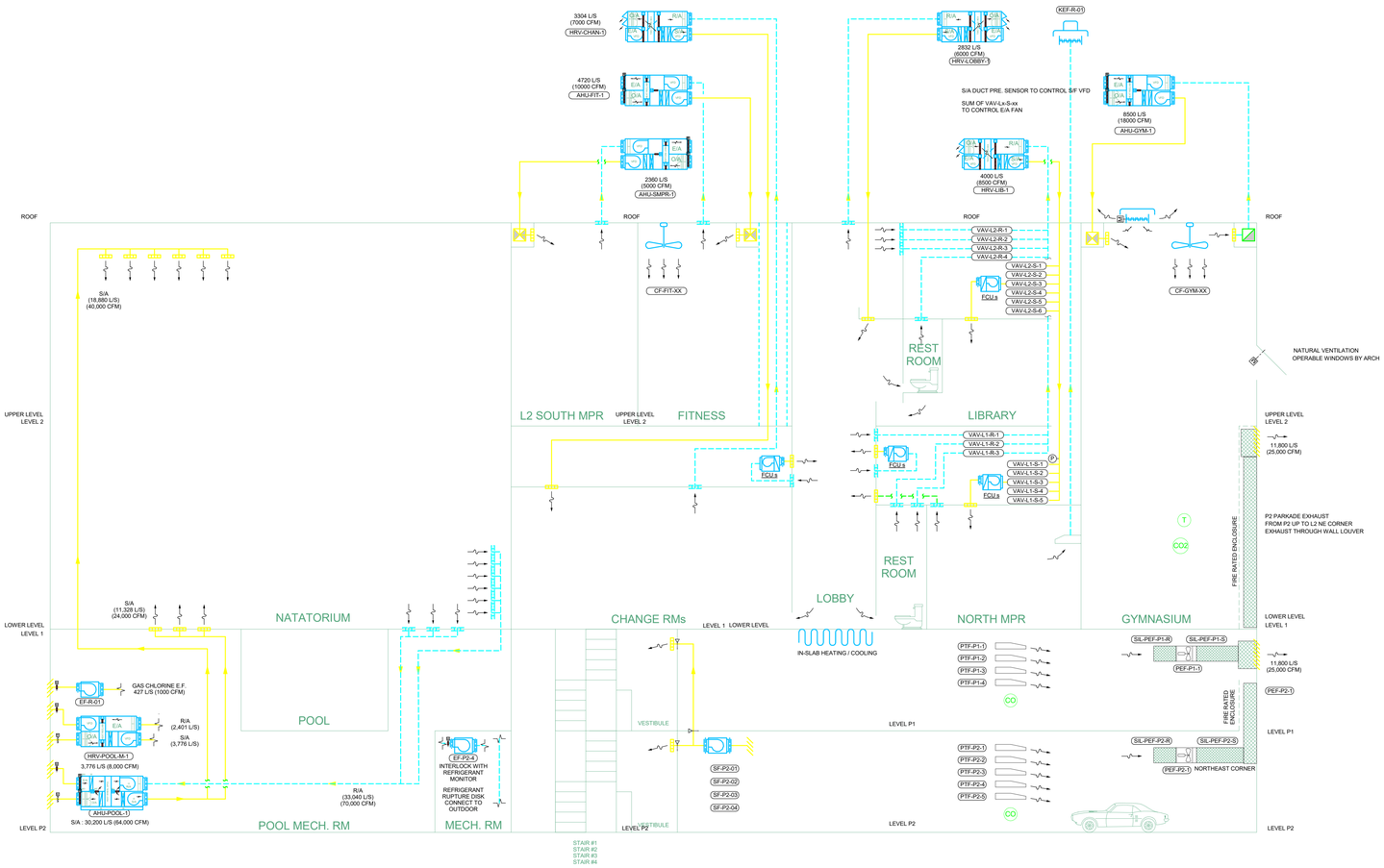
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SCHEMATICS - PLUMBING

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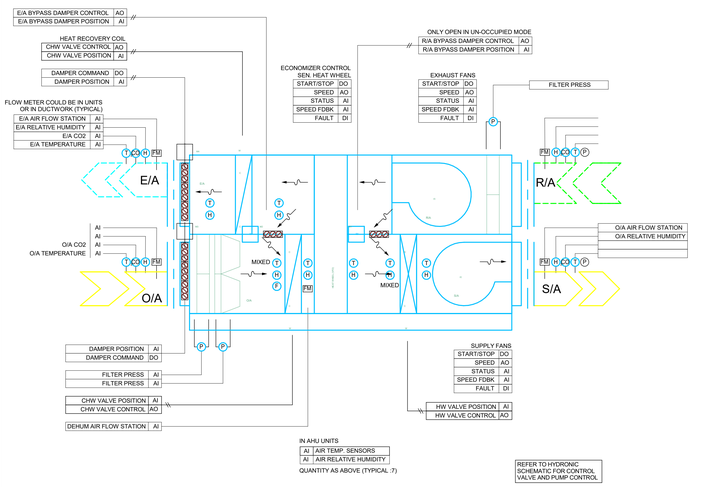
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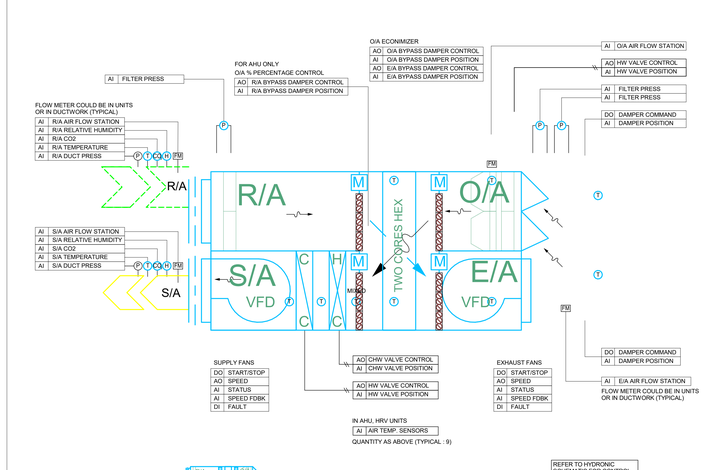


DAMPER POSITION FOR POOL AHU					
CONDITIONS	MOTORIZED DAMPER #1 R/A BYPASS	MOTORIZED DAMPER #2 E/A BYPASS	ON / OFF DAMPER #3 O/A CLOSE	ON / OFF DAMPER #4 E/A CLOSE	NOTE
UNIT OFF, OR FREEZE PROTECTION IS ENERGIZED	OPEN (100%)	OPEN (100%)	CLOSE	CLOSE	UNIT OFF, HW: 100 % ONLY FREEZE ENERGIZED.
SUMMER : O/A DEW POINT >14°C (ADJUSTABLE)	OPEN (%)	CLOSE	OPEN	OPEN	C/C LAT FIXED, MODULATING O/A % TO MEET 60%RH (ADJ.) C/C MAY REACH 100% S/A (+500 FPM)
FREE COOLING : O/A DEW POINT <14°C (ADJUSTABLE) O/A DRY BULB > 2°C (ADJ.)	OPEN (%)	CLOSE	OPEN	OPEN	C/C CHW OFF, MODULATING O/A % TO MEET 60%RH (ADJ.) O/A TO KEEP > MIN. OA (16000 CFM), POOL RH% FOR REFERENCE.
C/C PROTECTION : O/A DRY BULB <2°C (ADJUSTABLE)	OPEN (%)	OPEN (%)	OPEN	OPEN	C/C CHW OFF, MDM2 TO ADJUST FOR C/C EAT > 2°C (ADJ.) O/A TO KEEP > MIN. OA (16000 CFM), POOL RH% FOR REFERENCE.

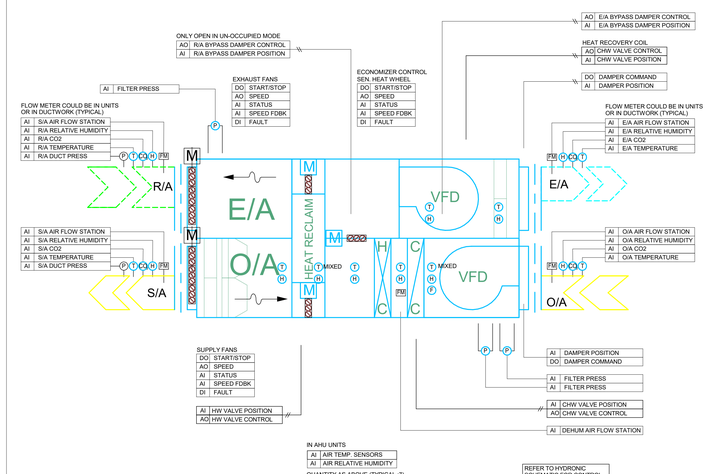
NOTE:
1. OCCUPIED MODE : S/A FAN RUN @ 100%, R/A FAN @110% FOR KEEP POOL SPACE NEGATIVE.
2. UN-OCCUPIED MODE : S/A FAN RUN @ 50% (ADJ.), R/A FAN @65% (ADJ.) FOR KEEP POOL SPACE NEGATIVE.
3. ROOM TEMP CONTROL, HRV VFD FIRST, ONCE VFD REACH HRV MAX. EFF. THEN HEATING ON AND MODULATING TO KEEP ROOM TEMP. SETTING.
4. O/A : OUTDOOR AIR. R/A : RETURN AIR. E/A : EXHAUST AIR. DP : DEW POINT. DB : DRY BULB. WB : WET BULB. RH% : RELATIVE HUMIDITY. ADJ : ADJUSTABLE.
5. C/C : COOLING COIL. H/C : HEATING COIL. CHW : CHILLED WATER. HW : HEATING WATER. EAT : COIL ENTERING AIR TEMP. LAT : COIL LEAVING AIR TEMP.



2 M701 AHU-POOL-1 AIR SCHEMATIC
SCALE: NTS



3 M701 HRV-xXXXX AIR SCHEMATIC
SCALE: NTS



4 M701 AHU-XXXX AIR SCHEMATIC
SCALE: NTS

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City of Coquitlam

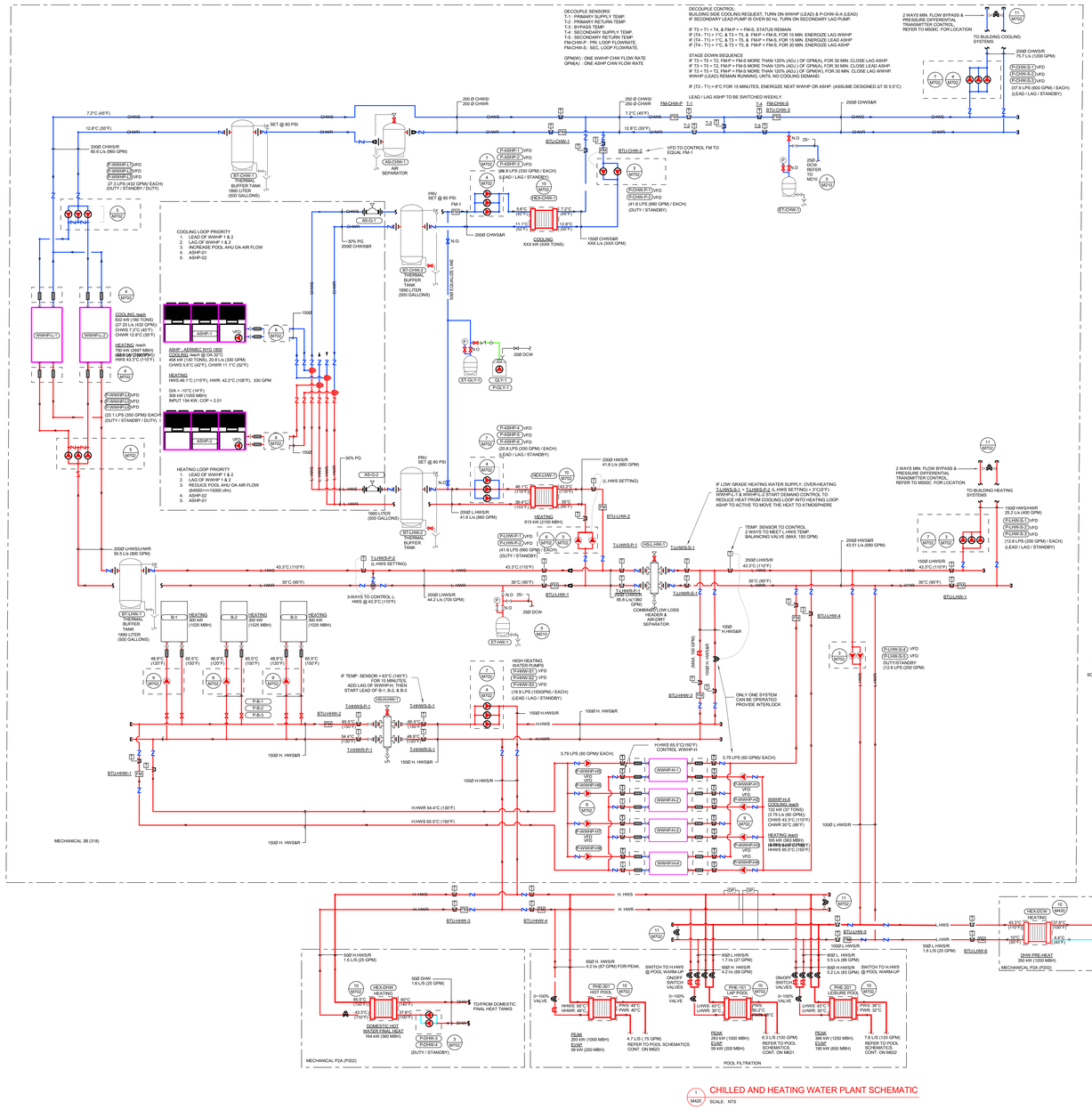
Site
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Sheet title
SCHEMATICS - VENTILATION

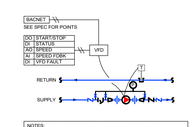
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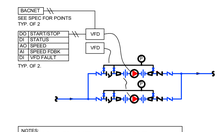
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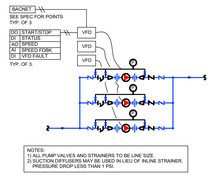
1 M420 CHILLED AND HEATING WATER PLANT SCHEMATIC
SCALE: NTS



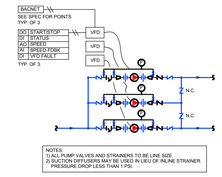
2 M702 SINGLE PUMP DETAIL
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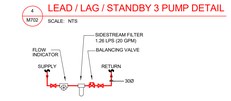
3 M702 DUTY / STANDBY PUMP SET DETAIL
SCALE: NTS



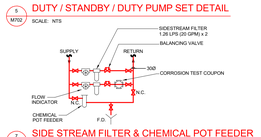
4 M702 LEAD / LAG / STANDBY 3 PUMP DETAIL
SCALE: NTS



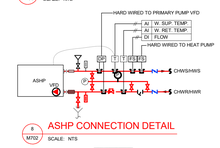
5 M702 DUTY / STANDBY / DUTY PUMP SET DETAIL
SCALE: NTS



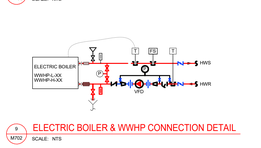
6 M702 SIDE STREAM FILTER
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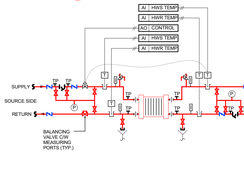
7 M702 SIDE STREAM FILTER & CHEMICAL POT FEEDER
SCALE: NTS



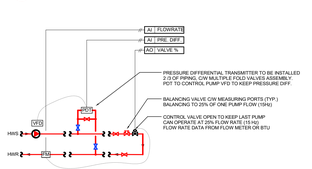
8 M702 ASHP CONNECTION DETAIL
SCALE: NTS



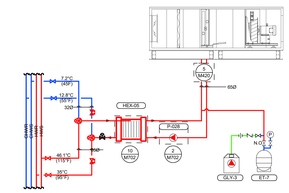
9 M702 ELECTRIC BOILER & WWHP CONNECTION DETAIL
SCALE: NTS



10 M702 PLATE HEAT EXCHANGER DETAIL
SCALE: NTS



11 M702 PUMP MINIMUM FLOW CONTROL
SCALE: NTS



12 M702 KMUA-1 HYDRONICS SCHEMATICS
SCALE: NTS

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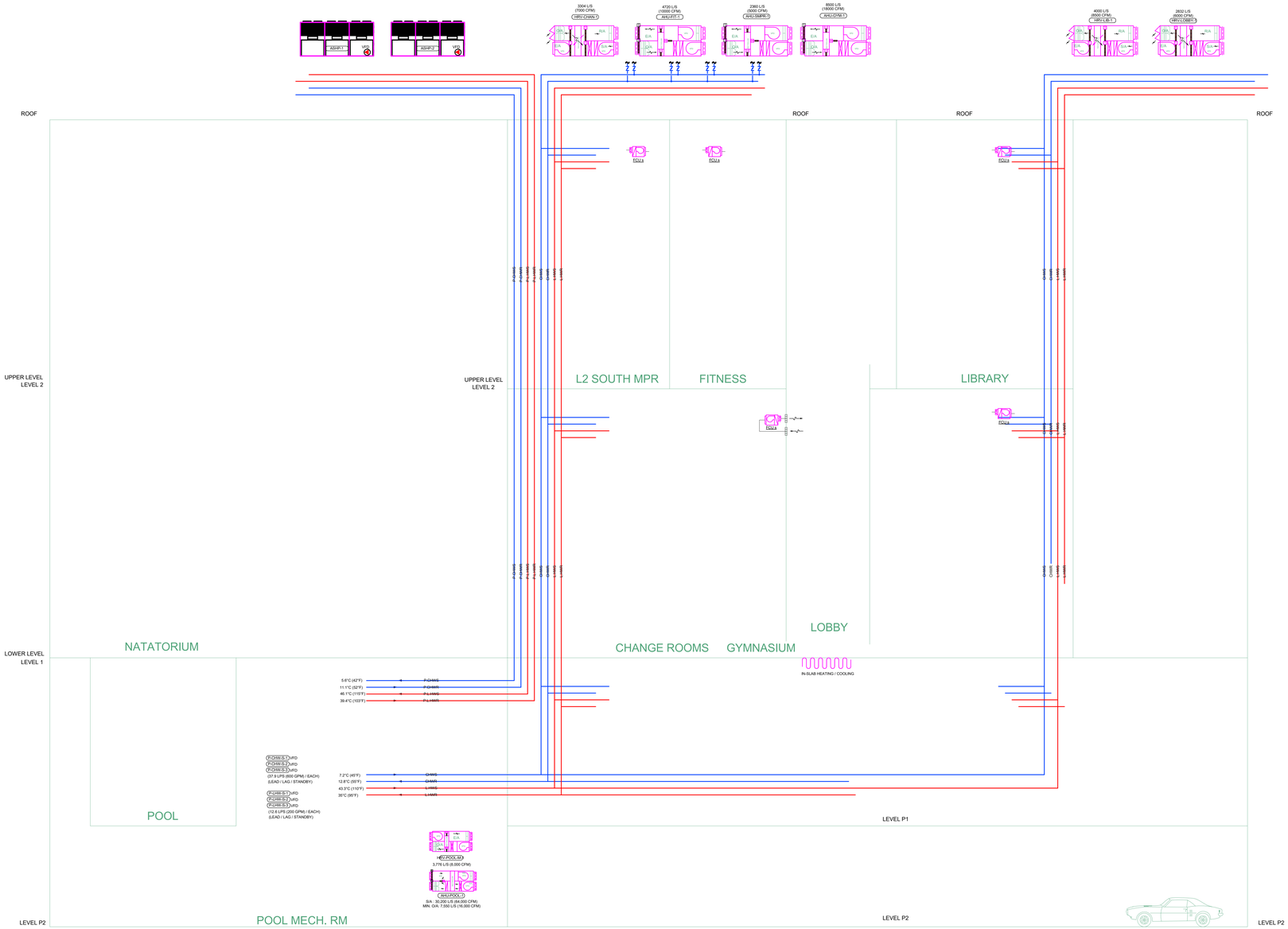
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Sheet title
SCHEMATICS - HYDRONIC - MECH. RM

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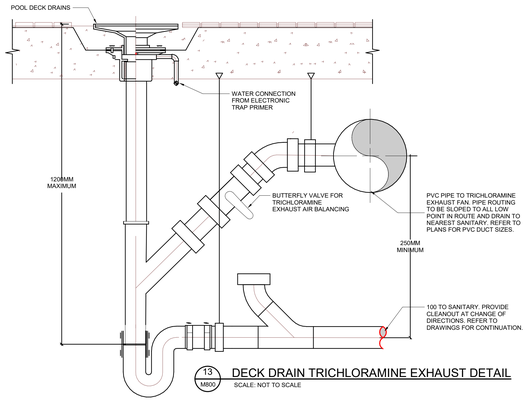
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Burke Mountain, Coquitlam, BC

Sheet title

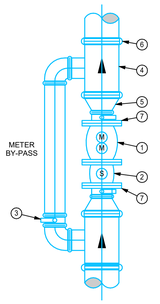
SCHEMATICS - HYDRONIC -DISTRIBUTION

Printed Date 12/19/2025 5:14:34 PM
Sheet number **Current Issue** 3

M703



13 M800 DECK DRAIN TRICHLORAMINE EXHAUST DETAIL
SCALE: NOT TO SCALE



NOTES:

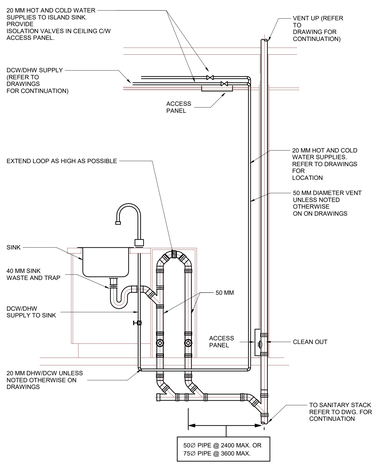
1. ALL MATERIAL TO BE SUPPLIED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE SPECIFIED.
2. PIPE MATERIAL:
   Ø4" AND LARGER TO BE CL 54 DUCTILE IRON (CEMENT LINED)
   SMALLER THAN Ø4" TO BE TYPE "K" COPPER
3. METER TO BE INTEGRATED INTO ELECTRICAL METERING SYSTEM AS PER DIVISION-16, SECTION 16460, DRAWING E4-6A.
4. MINIMUM AND MAXIMUM INSTALLATION HEIGHT OF THE CENTRELINE OF THE WATER METER: MINIMUM ABOVE THE FINISHED FLOOR: 600mm MAXIMUM ABOVE THE FINISHED FLOOR: 1350mm.

PART LIST:

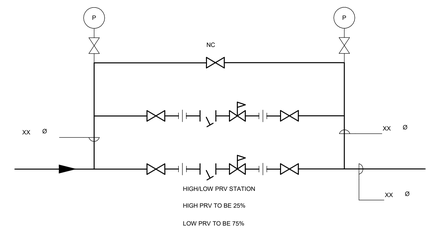
1. NEPTUNE WATER METER (COMPOUND) WITH TRICON-S REGISTER, READ OUT: PROREAD ARB PIT METER RECEPTACLE
2. NEPTUNE STRAINER
3. VIC 300 BUTTERFLY VALVE (LOCKABLE REQUIRED)
4. VIC 25 REDUCING TEE (2 OFF)
5. VIC 50 REDUCER (2 OFF)
6. STYLE 77 STD FLEXIBLE COUPLING
7. STYLE 741 VIC FLANGE ADAPTER

SIZE:	DIM. "A"	DIM. "B"
2" (51 MM)	15-1/4" (387 MM)	7" (178 MM)
3" (76 MM)	17" (431 MM)	6" (152 MM)
4" (102 MM)	20" (508 MM)	7-1/2" (191 MM)

12 M800 METER INSTALLATION DETAIL
SCALE: NOT TO SCALE



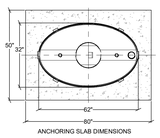
14 M800 ISLAND SINK VENTING DETAIL B
SCALE: NOT TO SCALE



11 M800 PRV STATION
SCALE: NOT TO SCALE

NOTES:

1. REFER TO INSTALLATION PROCEDURE AND INSTALLATION CHECKLIST.
2. GEOTEXTILE FABRIC SHOULD BE USED IF THE NATIVE SOIL HAD SMALL PARTICLES AND MORE THAN 3% OF ITS WEIGHT PASSING THROUGH A #8 SIEVE (2.38mm SQUARE SCREEN OPENING) REGARDLESS OF THE BACKFILL MATERIAL.
3. PROCEPTOR SEPARATORS MUST BE INSTALLED IN ACCORDANCE WITH ALL RELEVANT FEDERAL, PROVINCIAL/STATE, AND LOCAL CODES INCLUDING LOCAL PLUMBING CODE.
4. US PATENT #7,748,912; CDN PATENT #2,195,822
5. ZURN GREENTURTLE RECOMMENDS THE INSTALLATION OF THE ANCHORING SLAB TO SECURE TANK DURING INSTALLATION. CAST IN PLACE ANCHORING SLAB TO USE AT LEAST 3000PSI CONCRETE POURED ALL AROUND TANK. APPROXIMATELY 16CU FT NEEDED
6. IF ANCHORING SLAB IS NOT INSTALLED IT IS THE INSTALLER RESPONSIBILITY TO ENSURE THE TANK IS SECURED AND WILL NOT SHIFT OR MOVE DURING INSTALLATION
7. BACKFILL MATERIAL (PREFERRED TO BE 3/4" PEA GRAVEL. ALTERNATIVE TO BE 3/4" CRUSHED STONE) SHALL BE COMPACTED TO 95% SPD
8. VENTS TO BE CONNECTED TO VENTING SYSTEM, AS PER LOCAL CODES
9. CLEANOUTS TO BE CAPPED IN FIELD, AS PER LOCAL CODES
10. IF THE GROUND WATER TABLE IS MORE THAN ONE FOOT HIGHER THAN THE BOTTOM OF THE TANK, A CUSTOM DESIGN TANK AND PROPER ANTI BUOYANCY SLAB SHOULD BE USED. PLEASE CONTACT GT FOR MORE INFORMATION.

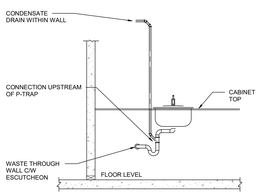


ANCHORING SLAB DIMENSIONS

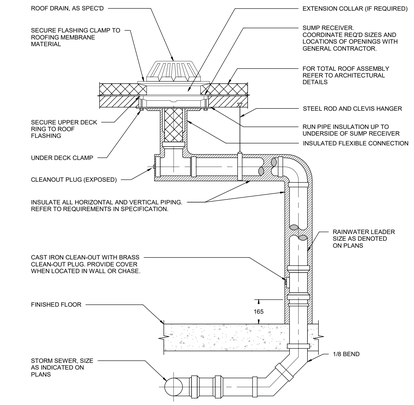
MODEL	VOLUME (US GAL)	INLET (A)	OUTLET (B)	WEIGHT (LBS)
GMC 50, GMC 50, SMC 50	50	12	11	130
GMC 100, GMC 100, SMC 100	100	20	19	150
GMC 150, GMC 150, SMC 150	150	33	32	175
GMC 200, GMC 200, SMC 200	200	36	35	205
GMC 250, GMC 250, SMC 250	250	44	43	230
GMC 300, GMC 300, SMC 300	300	52	51	255

BASED ON ZURN MODELS

9 M800 GREASE OR OIL INTERCEPTOR
SCALE: NOT TO SCALE



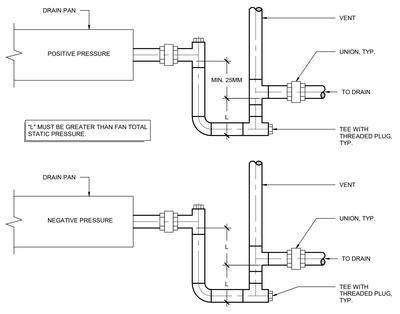
10 M800 CONDENSATE TO SINK DRAIN DETAILS
SCALE: NOT TO SCALE



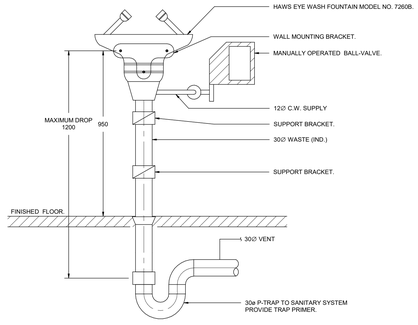
DETAIL NOTES

1. ALL ROOF DRAIN INSTALLATIONS SHALL BE IN CONFORMANCE WITH BC ROOFING CONTRACTORS ASSOC. (BCRCA) MANUAL.
2. FOR PIPE SIZES AND LOCATIONS REFER TO DRAWINGS
3. FOR TOTAL ROOF ASSEMBLY REFER TO ARCHITECTURAL DETAILS

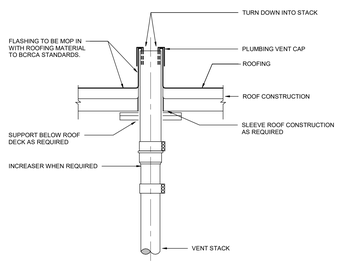
8 M800 ROOF DRAIN TYPICAL RWL
SCALE: NOT TO SCALE



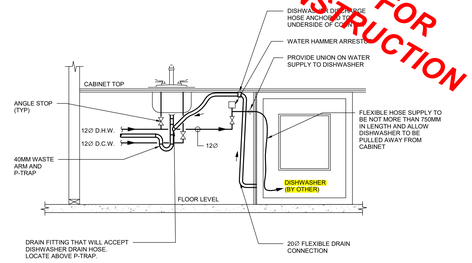
7 M800 EQUIPMENT CONDENSATE DRAINS DETAIL
SCALE: NOT TO SCALE



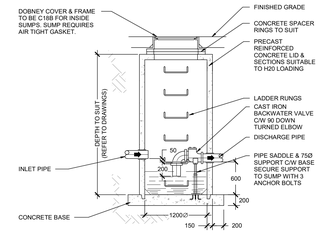
6 M800 FREE STANDING EYE WASH STATION
SCALE: NOT TO SCALE



5 M800 PLUMBING VENT PIPE THROUGH ROOF
SCALE: NOT TO SCALE



4 M800 DISHWASHER CONNECTION
SCALE: NOT TO SCALE



NOTES

FOR SUMPS OVER 1000 DEEP PROVIDE 13MM GALVANIZED STEEL LADDER RUNGS CAST INTO WALL AT 305 MM ON CENTRE FOR FULL DEPTH.

GROUT ALL JOINTS AND AROUND INLET & OUTLET PIPES

REFER TO DRAWINGS FOR PIPE SIZES AND ENTRY POINTS TO SUMP PIT

PROVIDE WELL COMPACTED CLEAN RIVER SAND AROUND SIDES AND BOTTOM OF SUMP PIT & BASE

CONTRACTOR TO VERIFY WITH THE LOCAL PLUMBING INSPECTOR AND INCORPORATE ANY ADDITIONAL REQUIREMENTS

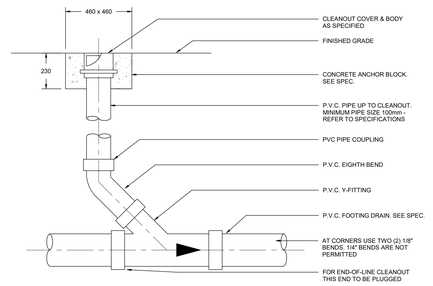
SUMP DEPTH (mm)	(W) SUMP DIAMETER (Min. I.D.)
LESS THAN 1200	1050 Ø
GREATER THAN 1200	1200 Ø
GREATER THAN 2400	1500 Ø

FOR PIPES GREATER THAN 200 THE MIN. SUMP DIAMETER TO BE 1200

SET GRATE & FRAME AS PER THE FOLLOWING

ASPHALT	12mm BELOW FINISH GRADE
CONCRETE	FLUSH WITH FINISHED GRADE
ROUGH LANDSCAPE	75mm ABOVE ROUGH GRADE
FINISHED LANDSCAPE	FLUSH WITH FINISHED GRADE

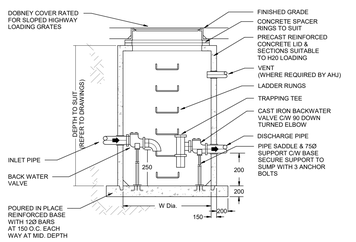
3 M800 SEDIMENT SUMP DETAIL - METRIC
SCALE: NOT TO SCALE



DETAIL NOTES

1. ALL DIMENSIONS IN MM.

2 M800 FOOTING DRAIN IN LINE CLEANOUT RISER
SCALE: NOT TO SCALE



NOTES

FOR SUMPS OVER 1000 DEEP PROVIDE 120mm GALVANIZED STEEL LADDER RUNGS CAST INTO WALL AT 300 ON CENTER FOR FULL DEPTH.

GROUT ALL JOINTS AND AROUND INLET & OUTLET PIPES.

REFER TO DRAWINGS FOR PIPE SIZES AND ENTRY POINTS TO SUMP PIT

PROVIDE WELL COMPACTED CLEAN RIVER SAND AROUND SIDES AND BOTTOM OF SUMP PIT & BASE.

CONTRACTOR TO VERIFY WITH THE LOCAL PLUMBING INSPECTOR AND INCORPORATE AND ADDITIONAL REQUIREMENTS

SUMP DEPTH (mm)	(W) SUMP DIAMETER (Min. I.D.)
LESS THAN 1200	1050Ø
GREATER THAN 1200	1200Ø
GREATER THAN 2400	1500Ø

SET GRATE & FRAME AS PER THE FOLLOWING

ASPHALT	12mm BELOW FINISH GRADE
CONCRETE	FLUSH WITH FINISHED GRADE
ROUGH LANDSCAPE	75mm ABOVE ROUGH GRADE
FINISHED LANDSCAPE	FLUSH WITH FINISHED GRADE

1 M800 ELEVATOR SUMP BACKWATER VALVE INSPECTION CHAMBER DETAIL
SCALE: NOT TO SCALE

NOT FOR CONSTRUCTION

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Key Plan

Issued for

08/08/2025	ISSUED FOR 100% DD
2	10/01/2025	ISSUED FOR 25% CD
3	11/21/2025	ISSUED FOR 50% CD

Project title

Burke Mountain Community Centre (BMCC)

Clien
City of Coquitlam

Site
Burke Mountain, Coquitlam, BC

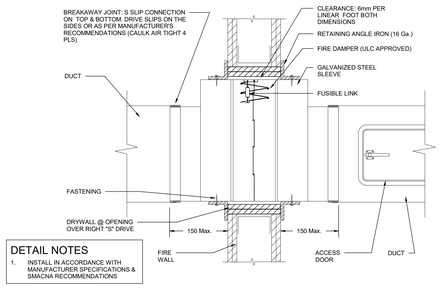
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DETAILS - PLUMBING

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Sheet number **Current Issue** 3

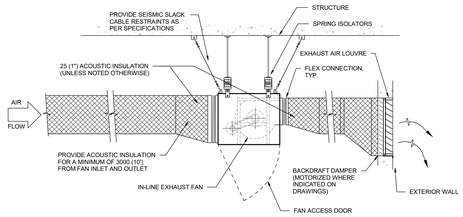
M800

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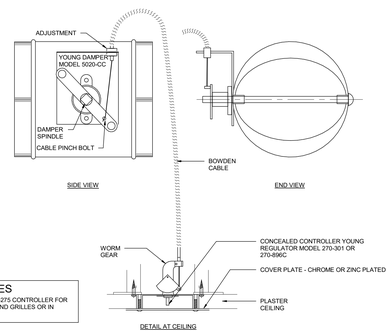


DETAIL NOTES
1. INSTALL IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS & SMACNA RECOMMENDATIONS

13 M801 VERTICAL FIRE DAMPER DETAIL
SCALE: NOT TO SCALE

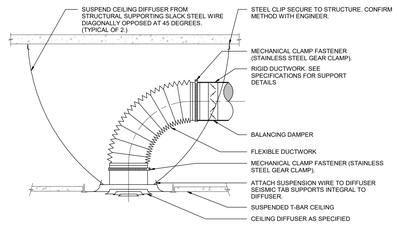


10 M801 IN-LINE FAN DETAIL
SCALE: NOT TO SCALE

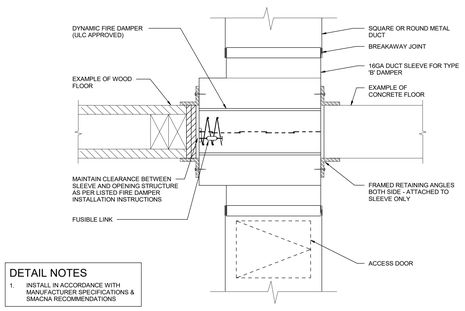


DETAIL NOTES
1. USE MODEL 270-275 CONTROLLER FOR MOUNTING BEHIND GRILLES OR IN PLENUMS ETC.)

8 M801 REMOTE BALANCING DAMPER CONTROL
SCALE: NOT TO SCALE

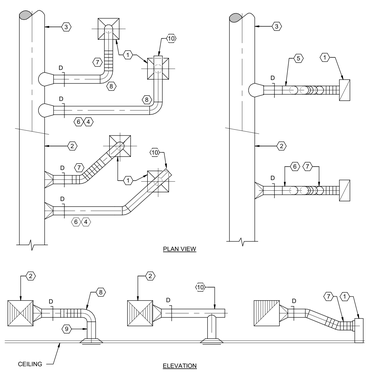


4 M801 CEILING DIFFUSER SUSPENSION DETAIL
SCALE: NOT TO SCALE



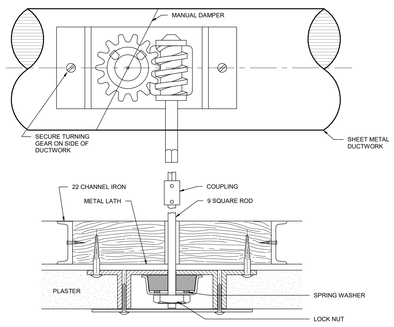
DETAIL NOTES
1. INSTALL IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS & SMACNA RECOMMENDATIONS

12 M801 HORIZONTAL FIRE DAMPER DETAIL
SCALE: NOT TO SCALE

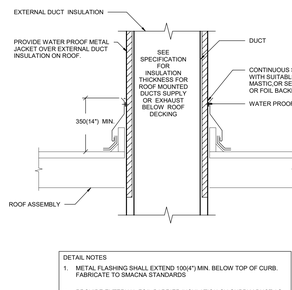


1	AIR TERMINAL UNIT AS SCHEDULED.
2	RECTANGULAR DUCT - TYP
3	ROUND DUCT - TYP
4	DUCT SIZE TO MATCH DIFFUSER NECK SIZE
5	DUCT SIZE AS SCHEDULED
6	RIGID DUCT
7	FLEX DUCT - MAX. LENGTH AS SPECIFIED - MAX. BEND PERMITTED 45 DEG
	USE ALL RIGID DUCT FOR EXPOSED STRUCTURE
8	RIGID DUCT ELBOW - RADIUS = 1.5 x DIA. MIN.
9	RIGID DUCT MIN. 1 DUCT DIA. LONG FROM ELBOW TO DIFFUSER.
10	PROVIDE CUSHION HEAD FOR DIFFUSER WHERE CEILING SPACE IS LIMITED. TRANSITION TO EQUIVALENT RECTANGULAR DUCT AS REQUIRED. CUSHION HEAD LENGTH = 1 x DIFFUSER DIAMETER.

9 M801 DUCT CONNECTIONS TO AIR TERMINAL
SCALE: NOT TO SCALE

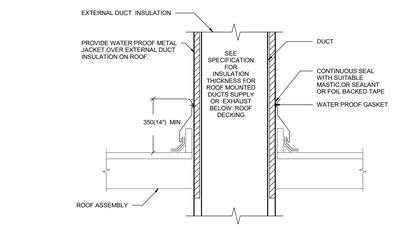


7 M801 BALANCING DAMPER OPERATOR - DRYWALL CEILING
SCALE: NOT TO SCALE



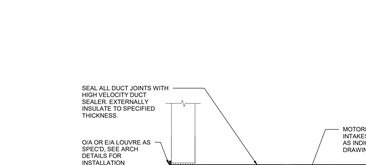
DETAIL NOTES
1. METAL FLASHING SHALL EXTEND 100(4") MIN. BELOW TOP OF CURB. FABRICATE TO SMACNA STANDARDS
2. PROVIDE EXTERNAL FOIL BARRIER INSULATION ON SUPPLY DUCT AS SPECIFIED

3 M801 PENETRATION THROUGH ROOF RECATNGULAR DUCT
SCALE: NOT TO SCALE

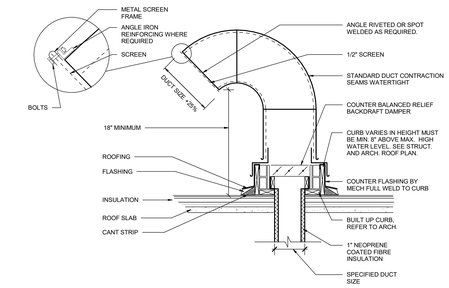


DETAIL NOTES
1. METAL FLASHING SHALL EXTEND 100(4") MIN. BELOW TOP OF CURB. FABRICATE TO SMACNA STANDARDS
2. PROVIDE EXTERNAL FOIL BARRIER INSULATION ON SUPPLY DUCT AS SPECIFIED

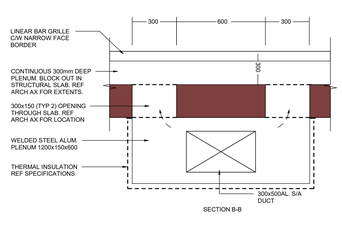
11 M801 PENETRATION THROUGH ROOF RECATNGULAR DUCT1
SCALE: NOT TO SCALE



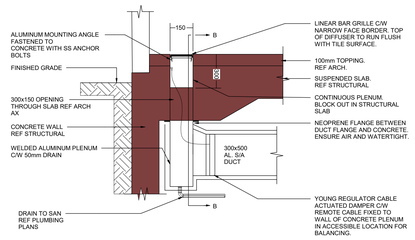
6 M801 AIR TERMINAL EXTERIOR LOUVER CONNECTIONS
SCALE: NOT TO SCALE



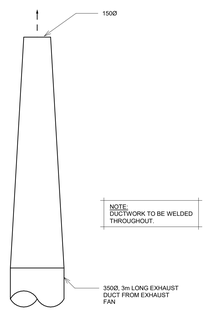
2 M801 GOOSENECK EXHAUST DETAIL
SCALE: NOT TO SCALE



5 M801 NATATORIUM LOW LEVEL SUPPLY
SCALE: NOT TO SCALE



1 M801 VELOCITY CONE
SCALE: NOT TO SCALE



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Key Plan

Issued for

1	08/08/2025	ISSUED FOR 100% DD
2	10/01/2025	ISSUED FOR 25% CD
3	11/21/2025	ISSUED FOR 50% CD

Project title
Burke Mountain Community Centre (BMCC)

Clien
City of Coquitlam

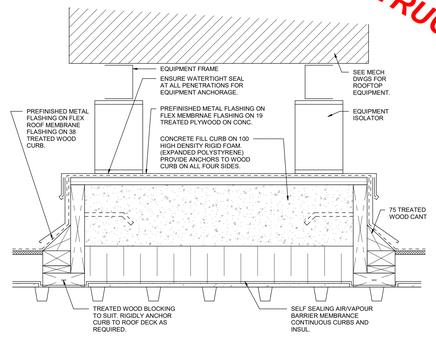
Site
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Sheet title
DETAILS - HVAC I

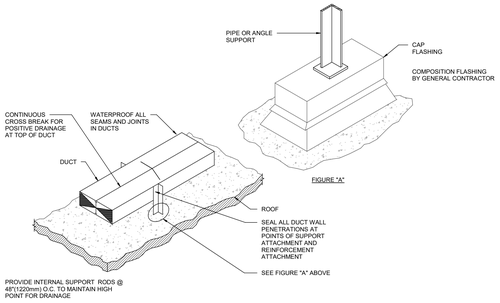
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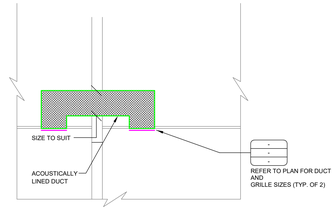
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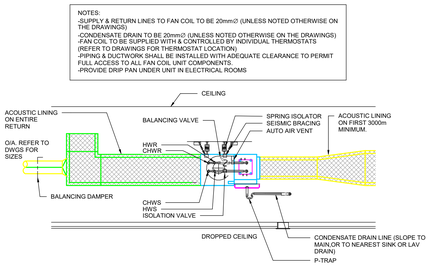
4 M802 MOUNTING OF ROOFTOP EQUIPMENT
SCALE: NOT TO SCALE



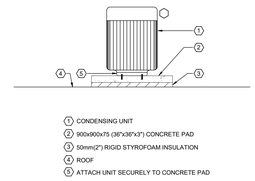
3 M802 DUCT SUPPORT ON ROOF
SCALE: NOT TO SCALE



7 M802 TRANSFER AIR DUCT DETAIL
SCALE: NOT TO SCALE

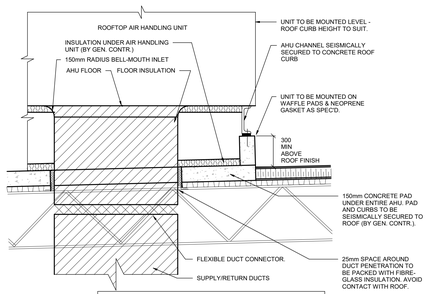


6 M802 FANCOIL DETAIL
SCALE: NOT TO SCALE



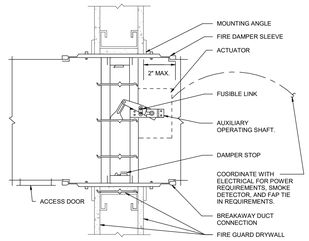
1. CONDENSING UNIT
2. 900x900x75 (36"x36"x3") CONCRETE PAD
3. 50mm(2") RIGID STYROFOAM INSULATION
4. ROOF
5. ATTACH UNIT SECURELY TO CONCRETE PAD

2 M802 CONDENSING UNIT ROOF INSTALLATION DETAIL
SCALE: NOT TO SCALE



DETAIL NOTES
1. REFER TO SPECIFICATIONS FOR MATERIAL GAUGE THICKNESS

5 M802 ROOFTOP UNIT MOUNTING INSTALLATION (SLOPING ROOF)
SCALE: NOT TO SCALE



DETAIL NOTES
1. PROVIDE OPENINGS IN FLOOR OR WALL 1¼" TO 3/4" LARGER THAN OVERALL SIZE OF FIRE DAMPER AND SLEEVE ASSEMBLY.
2. CONSTRUCT FIRE DAMPER ASSEMBLY TO SMACNA STANDARDS, AND NFPA 90A REQUIREMENTS.
3. VERTICAL INSTALLATION IS ILLUSTRATED. HORIZONTAL INSTALLATION SIMILAR.
4. PROVIDE SUITABLE ACCESS DOOR TO FUSIBLE LINK.

1 M802 FIRE SMOKE DAMPER INTERNAL ACTUATOR DETAIL
SCALE: NOT TO SCALE

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Key Plan

Issued for

3	11/21/2025	ISSUED FOR 50% CD

Project title
Burke Mountain Community Centre (BMCC)

Clien
City of Coquitlam

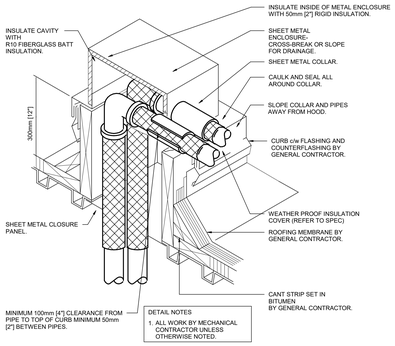
Site
Burke Mountain, Coquitlam, BC

Sheet title
DETAILS - HVAC II

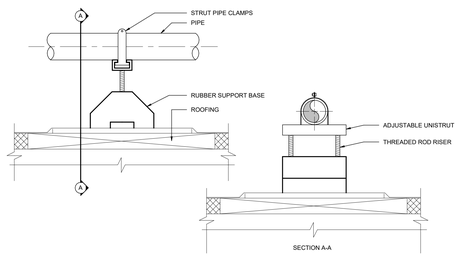
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Date
Sheet number **Current Issue** 3

M802

NOT FOR CONSTRUCTION



9 M803 PIPE PENTRATION THROUGH ROOF
SCALE: NOT TO SCALE

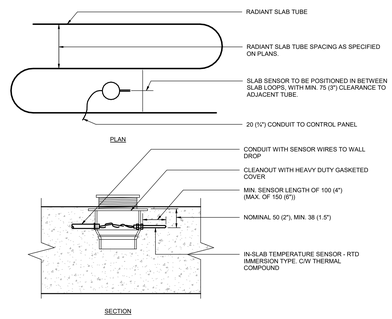


DETAIL NOTES
1. SUPPORT SPACING PER LOCAL PLUMBING/GAS CODE.

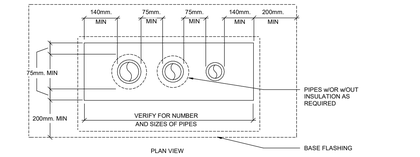
8 M803 ROOF MOUNTED PIPING DETAIL
SCALE: NOT TO SCALE

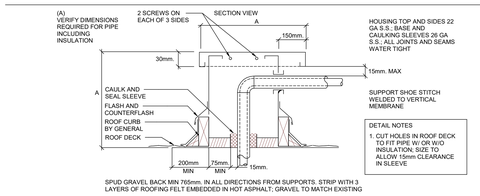
CONDENSATE PIPE SIZING		
TOTAL COOLING CAPACITY		CONDENSATE DRAIN SIZE
kW	(TONS)	mm (IN)
0-70	(0-20)	30 (1-1/4")
70-140	(20-40)	30 (1-1/4")
140-316.5	(40-90)	30 (1-1/4")
316.5-439.6	(90-125)	40 (1-1/2")
439.6-879	(125-250)	50 (2")
1. ALL CONDENSATE PIPING SHALL BE SLOPPED AT A MIN. OF 2%.		
2. DRAINAGE PIPES SHALL NOT BE SMALLER THAN EQUIPMENT CONNECTION		

7 M803 CONDENSATE PIPE SIZING TABLE
SCALE: NOT TO SCALE



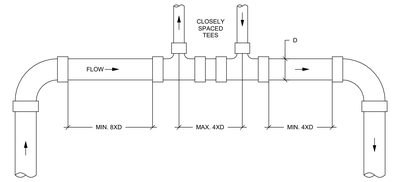
6 M803 RADIANT SLAB TEMP SENSOR DETAIL
SCALE: NOT TO SCALE



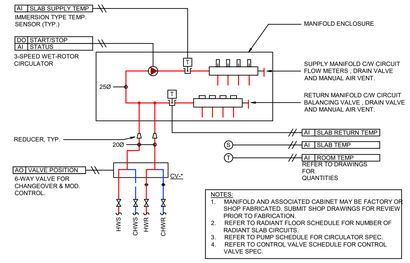


DETAIL NOTES
1. CUT HOLES IN ROOF DECK TO FIT PIPE W/ OR W/O INSULATION; SIZE TO ALLOW 15mm CLEARANCE IN SLEEVE

5 M803 MULTIPLE PIPE ROOF PENETRATIONS THROUGH ROOF MEMBRANE
SCALE: NOT TO SCALE

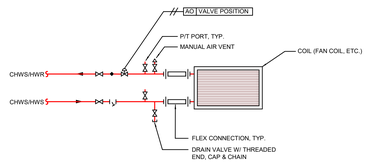


4 M803 CLOSELY SPACED TEES
SCALE: NOT TO SCALE

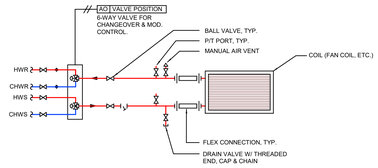


NOTES:
1. MANIFOLD AND ASSOCIATED CABINET MAY BE FACTORY OR SHOP FABRICATED. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION.
2. REFER TO RADIANT FLOOR SCHEDULE FOR NUMBER OF RADIANT SLAB CIRCUITS.
3. REFER TO PUMP SCHEDULE FOR CIRCULATOR SPEC.
4. REFER TO CONTROL VALVE SCHEDULE FOR CONTROL VALVE SPEC.

3 M803 RADIANT IN FLOOR MANIFOLD - PUMPED MANIFOLD & 6 WAY MODULATING VALVE
SCALE: NOT TO SCALE



2 M803 COIL PIPING SCHEMATIC - TWO WAY CONTROL VALVE
SCALE: NOT TO SCALE



1 M803 CHANGEOVER COIL - SIX WAY MODULATING CONTROL VALVE
SCALE: NOT TO SCALE

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City of Coquitlam

Site
Burke Mountain, Coquitlam, BC

Sheet title
DETAILS - HYDRONIC

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Sheet number **Current Issue** 3

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