

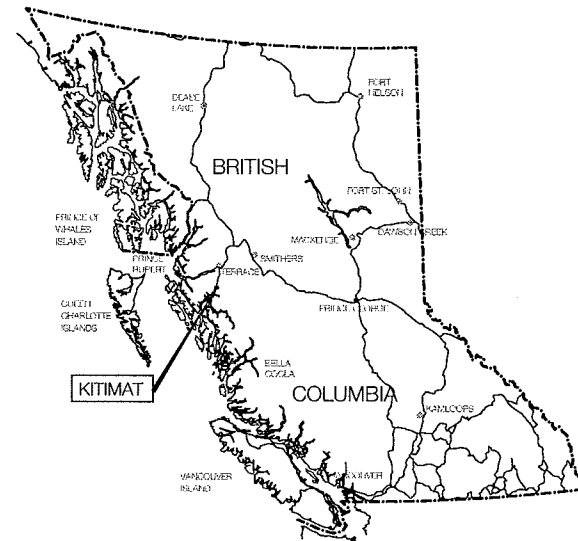
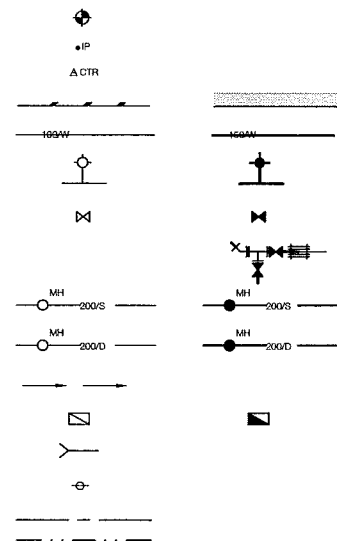


KEY MAP

BENCHMARK
IRON PIN
CONTROL
ROAD EDGE
WATERMAIN SIZE & TYPE
HYDRANT ASSEMBLY
WATERMAIN GATE VALVE
WATERMAIN FITTINGS
(BEND, TEE, VALVE, REPAIR COUPLING)
SANITARY MANHOLE, SEWER SIZE & TYPE
STORM MANHOLE, SEWER SIZE & TYPE
DITCH
CATCH BASIN - TOP INLET
CULVERT/STORM OUTFALL
POWER POLE
OVERHEAD POWER LINE
BURIED 230 V TRANSMISSION LINE

EXISTING

PROPOSED



DWG No.	DRAWING TITLE
COVER	DRAWING LIST, LOCATION MAP AND LEGEND
5244-1	SITE PLAN, GENERAL NOTES & TYPICAL DETAILS
5244-2	MECHANICAL ROOM NEW DOMESTIC SYSTEM LAYOUT
5244-3	PROCESS & INSTRUMENTATION DIAGRAM

171 West Esplanade Suite 250
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CANADA

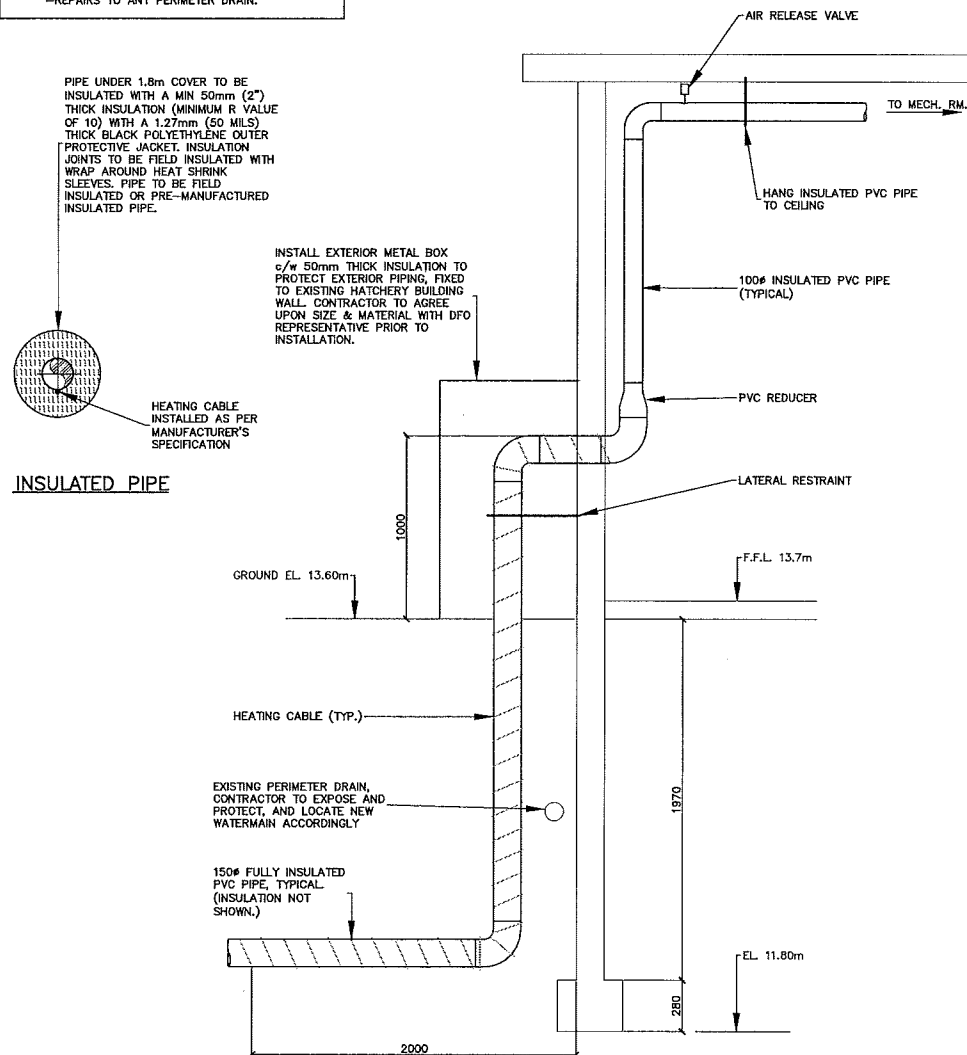
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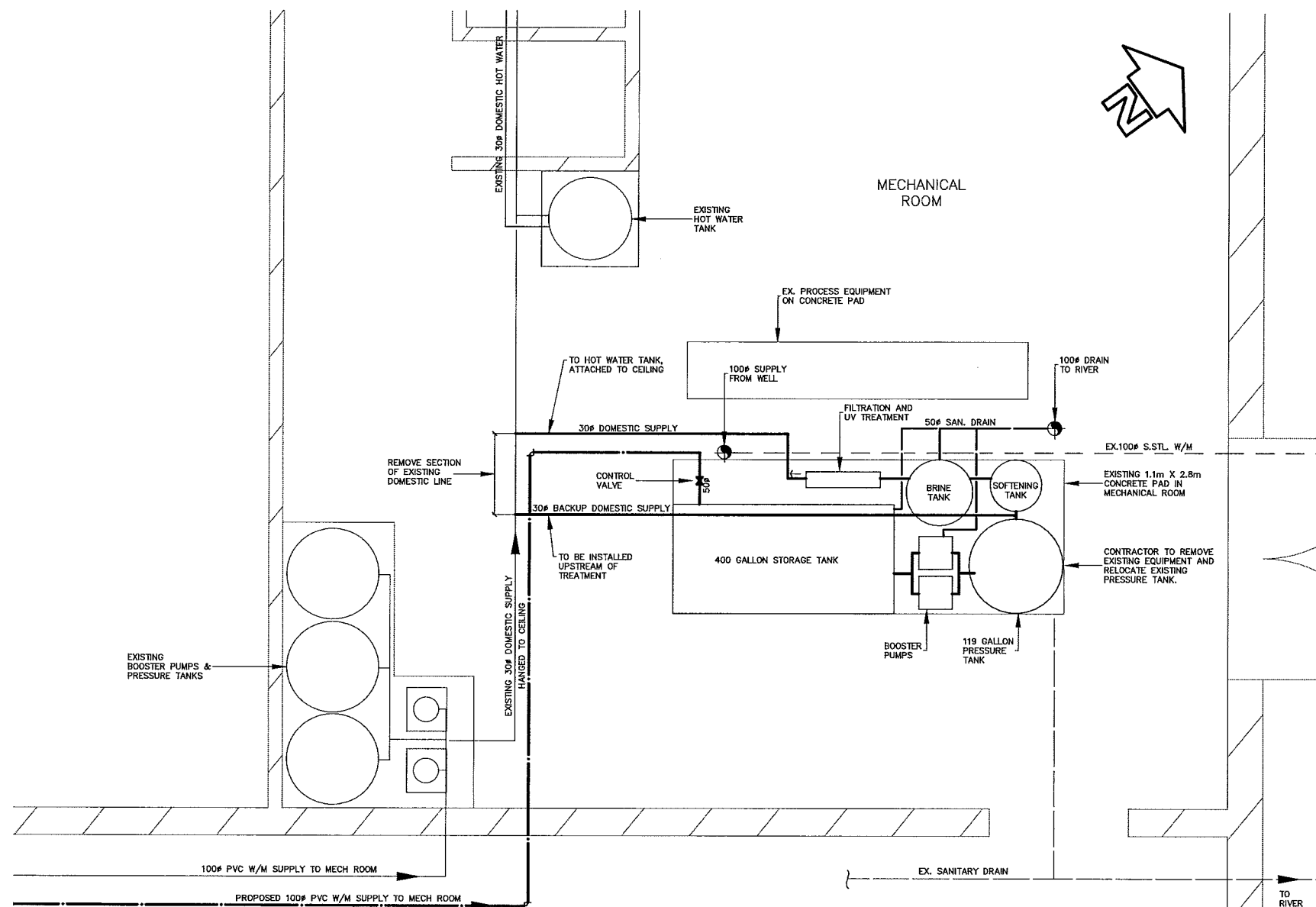
RE-ISSUED FOR TENDER
SEPTEMBER 5, 2014



1. INSTALL HEATING CABLE AROUND PVC PIPE SECTION, UNDERNEATH PE OUTER JACKET, FROM 2.0m AWAY FROM BUILDING CORNER TO INSIDE OF BUILDING.
2. PROVIDE DEDICATED OUTLET FOR PLUG IN SYSTEM.
3. APPROVED PRODUCT HEATLINE EXT.
4. CONTRACTOR TO PROPOSE LOCATION TO DFO REPRESENTATIVE, CORE A 200^{mm} HOLE IN THE WALL, APPROX. 1.0m ABOVE GROUND.
CONTRACTOR IS RESPONSIBLE FOR:
--REPAIRS TO ANY CLADDING, INSULATION, STRUCTURAL ELEMENTS, CONDUITS OR WALL DAMAGE.
--APPROPRIATE PATCHING AND WATERPROOFING THE HOLE.
--REPAIRS TO ANY PERIMETER DRAIN.



SECTION SHOWING PIPE INTO HATCHERY BLDG.
SCALE 1:20



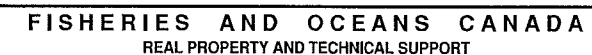
MECHANICAL ROOM FLOOR PLAN
SCALE 1:20

- LEGEND**
- | | |
|-------|---|
| _____ | EXISTING BURIED SUPPLY PIPE |
| _____ | EXISTING PROCESS PIPE |
| _____ | EXISTING SANITARY DRAIN PIPE |
| _____ | PROPOSED ABOVE GROUND SANITARY DRAIN PIPE |
| _____ | PROPOSED PROCESS PIPE |

1. PIPING SIZE, EQUIPMENT AND FITTINGS TO BE SUBMITTED TO DEPARTMENTAL REPRESENTATIVE FOR APPROVAL, PRIOR TO CONSTRUCTION.
2. REFER TO DWG 5244-1 FOR ADDITIONAL NOTES.
3. LAYOUT FOR REFERENCE ONLY. CONTRACTOR TO INSTALL EQUIPMENT & PLUMBING BASED ON PROPOSED EQUIPMENT AND FIELD MEASUREMENTS.
4. READ IN CONJUNCTION WITH DWG. 5244-3 FOR REQUIRED FITTINGS, VALVES & EQUIPMENT.

1. INSTALL 100# TO 50# COPPER REDUCER AND ASSOCIATED PIPE BETWEEN SUPPLY AND STORAGE TANK.
2. PIPE AND FITTING FROM STORAGE TO BOOSTER PUMP AND PRESSURE TANK TO BE COPPER TYPE L OR S.S. 316.
3. REMAINING DOMESTIC PIPE AND FITTINGS TO BE COPPER TYPE L.
4. SANITARY DRAINS TO BE ABS DWV OR PVC DWV PIPE AND FITTINGS, CONFORMING TO CSA B181.1, M90 AND CSA B181.2, M90.

1. WATER TANK TO DORWESCO CANADA, 350 IMPERIAL GALLON (1514L) NARROW PROFILE POLYETHYLENE POTABLE WATER TANKS, OR APPROVED ALTERNATIVE.
2. UV DISINFECTION TO BE TROJAN UV MAX MODEL F4 FOR FLOW RATES OF 20-45 GPM, OR APPROVED ALTERNATIVE, TO PROVIDE A 40mJ/cm² UV DOSE WITH A FLOW OF 26.1GPM. CONTRACTOR TO SUPPLY THREE REPLACEMENT BULBS TO DFO.
3. WATER SOFTENER TO BE 60K GRAIN TWIN TANK STYLE FUSION WATER CONDITIONER AND BRINE TANK BY FUSION DESIGNED FOR A PEAK FLOW OF 17 GPM, OR APPROVED ALTERNATIVE.
4. PRESSURE TANK TO BE CHALLENGER 119 GALLON 40/60PSI PRESSURE TANK, OR APPROVED ALTERNATIVE.
5. BOOSTER PUMPS TO BE GRUNFOS CR3-7 VERTICAL, NON-SELF-PRIMING, MULTISTAGE, IN LINE, CENTRIFUGAL PUMP MOUNTED ON FOUNDATION, OR APPROVED ALTERNATIVE. BOOSTER TO HAVE A CONSTANT PRESSURE VFD DRIVE SYSTEM FOR MAINTAINING CONSTANT PRESSURE ON THE DOMESTIC SYSTEM.

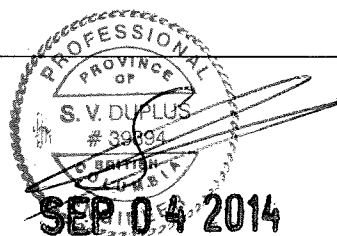


KITIMAT RIVER HATCHERY
NEW DOMESTIC WATER SUPPLY
MECHANICAL ROOM
NEW DOMESTIC SYSTEM
LAYOUT

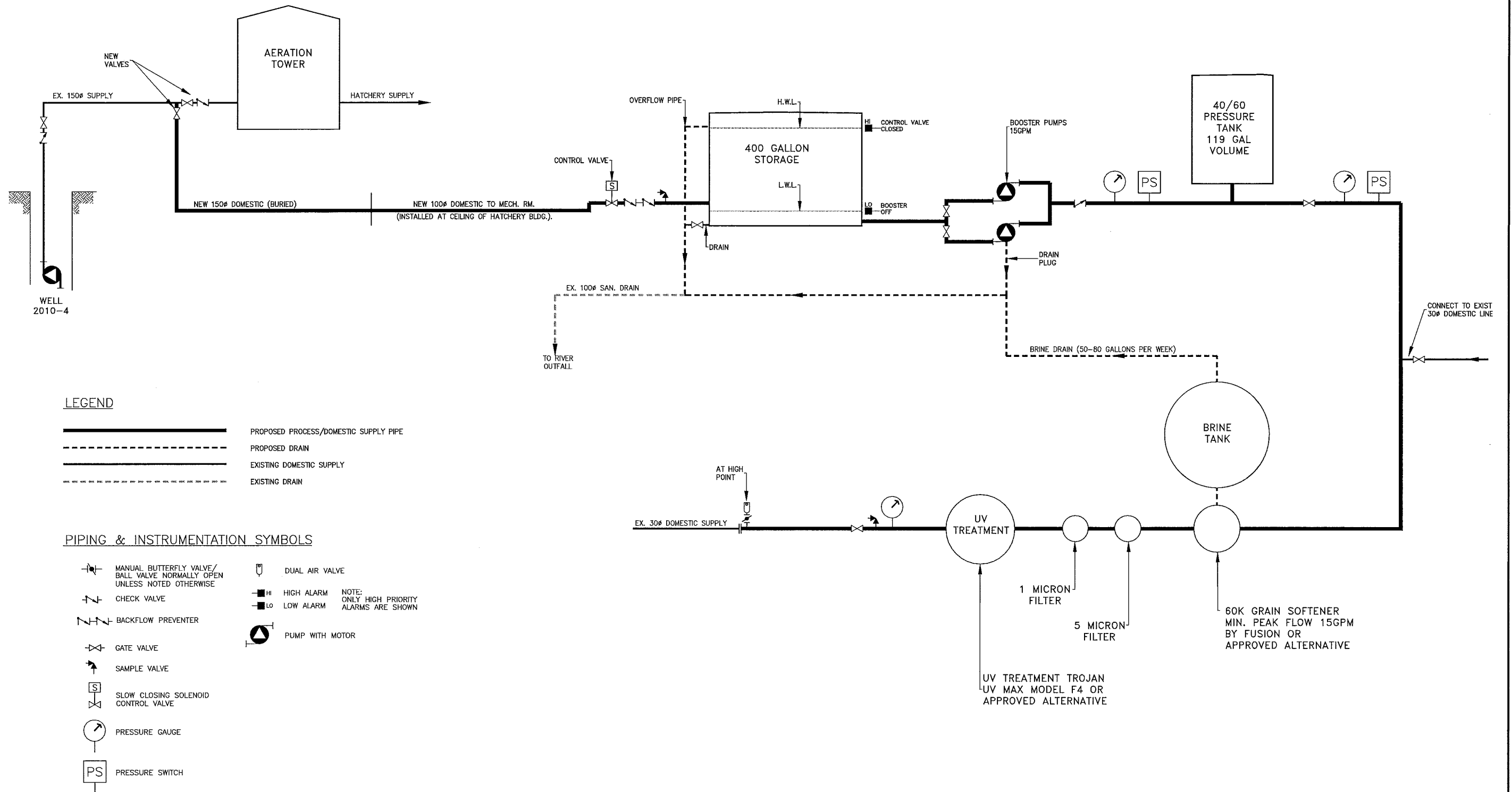
SCALE	
1:20	
DATE	
4-Sep-14	
DRAWING NUMBER	
5244-2	
REVISION	2



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			DESIGNED
			DC
			DRAWN
			LC
			CHECKED
			SD
			RECOMMENDED
2	2014-SEP-5	ADDENDUM 1	APPROVED
1	2014-JUN-9	ISSUED FOR TENDER	
	NO.	DATE	REVISIONS
			APPROVED

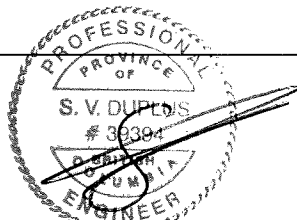


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SEP 04 2014

NOTES

NO.	DATE	REVISIONS
2	2014-SEP-5	ADDENDUM 1
1	2014-JUN-9	ISSUED FOR TENDER

DESIGNED	DC
DRAWN	LC
CHECKED	SD
RECOMMENDED	
APPROVED	
APPROVED	

FISHERIES AND OCEANS CANADA REAL PROPERTY AND TECHNICAL SUPPORT	
KITIMAT RIVER HATCHERY NEW DOMESTIC WATER SUPPLY PROCESS AND INSTRUMENTATION DIAGRAM	
SCALE	N.T.S.
DATE	2-Sep-14
DRAWING NUMBER	5244-3
REVISION	2