

OIL PUMPS							
No.	DESCRIPTION	MODEL	WATTS	L/s	HEAD (m)	VOLTAGE	NOTES
PFO-1 PFO-2	DUPLEX PUMP SET	N/A	250	0.18	35	120/1/60	1, 2

NOTES:
1. c/w Assembled skid with retention pan, piping, pressure gauge, valves, filters, control panel and all accesories for operation.
2. c/w PANEL CONTROL WITH TIMER RELAY FOR ALTERNATIVE PUMP OPERATION. COORDINATE WITH CONTROL CONTRACTOR.

PRESSURIZED GLYCOL MAKE-UP UNIT					
No.	DESCRIPTION	MODEL	CAPACITY (L)	VOLTAGE	NOTES
PGU-1	GLYCOL MAKE-UP	N/A	209	120 VAC OUTLET	1, 2, 3, 4, 5

NOTES:
1. 209L POLYETHYLENE TANK.
2. STAINLESS STEEL PUMP, 0.06L/S A 345KPa.
3. ADJUSTABLE PRESSURE REGULATING VALVE.
4. FLUID LEVEL SWITCH.
5. LOW LEVEL ALARM PANEL

BOILERS									
No.	DESCRIPTION	FUEL	MODEL	OUTPUT (kW)	THERMAL EFFICIENCY	OIL CONSUMPTION (L/h)	BURNER MODEL	BURNER VOLTAGE	NOTES
BOIL-1 BOIL-2	TRIPLE PASS SECTIONAL CAST IRON HIGH EFFICIENCY BOILER	OIL No 2	OIL-FIRED	125	87.3%	12.9	BOILER MANUFACTURER RECOMMENDED MODEL	120/1/60	1, 2

NOTES:
1. PROVIDE ONE SPARE BURNER PER BOILER.
2. c/w CONTROL PANEL ON BOILER, DIGITAL DISPLAY, WITH COMMUNICATION MODULE , WITH BVSO, PRESSURE RELIEF VALVE (30Psi) AND DRAIN TO PURGE THE BOILER.

FUEL OIL TANKS							
No.	DESCRIPTION	TYPE	VOLUME	OPERATION PRESSURE (kPa)	OVERALL DIMENSIONS (mm)	OIL TANK DIMENSIONS (mm)	NOTES
FOT-1	PRIMARY EXTERIOR TANK	ULC-5653 / 5601 HORIZONTAL ABOVE-GROUND DIKE TANK	4682	34	4724 x 1676 (WITH DIKE TANK)	3658 x 1270Ø	1, 2, 3, 5, 7
FOT-2	DAY TANK	ULC-5602 VERTICAL DOUBLE WALL	227	34	1100 x 585Ø	N/A	1, 4, 5, 6

NOTES:
1. EXTERIOR FINISH: SSPC-SP6 BLAST CLEANING, AMERCOAT ZINC PRIMER, ONE LAYER OF WHITE EPOXY AMERLOCK 2, ONE LAYER OF POLYURETHANE AMERCOAT 450.
2. UCL-5653 FABRICATION, c/w LEVEL DETECTOR (c/w 3 BUNA FLOATS), FILL PIPE, SPILLBOX, LIFTING BRACKETS, ANTI-SIPHON VALVE, SERVICE VENT WITH WHISTLE, EMERGENCY VENT, SCULLY GOLD LEVEL INDICATOR AND LEVEL FLOATS.
3. PROVIDE TWO (2) EXTRA 50mmØ CONNECTIONS AND ONE (1) EXTRA 100mmØ CONNECTION.
4. ULC-5602 FABRICATION, COMPLETE WITH LEVEL DETECTOR (c/w 3 BUNA FLOATS).
5. REFER TO THE CONTROL PLANS FOR THE FLOATS INSTALLATION.
6. PROVIDE TWO (2) EXTRA 50mmØ CONNECTIONS
7. c/w LADDER AND PLATFORM

EXPANSION TANK - HEATING				
No.	DESCRIPTION	MODEL	ACCEPTANCE VOLUME (L)	NOTES
EXP-2	HEAVY DUTY BUTYL DIAPHRAGM	HORIZONTAL	130	1, 2, 3

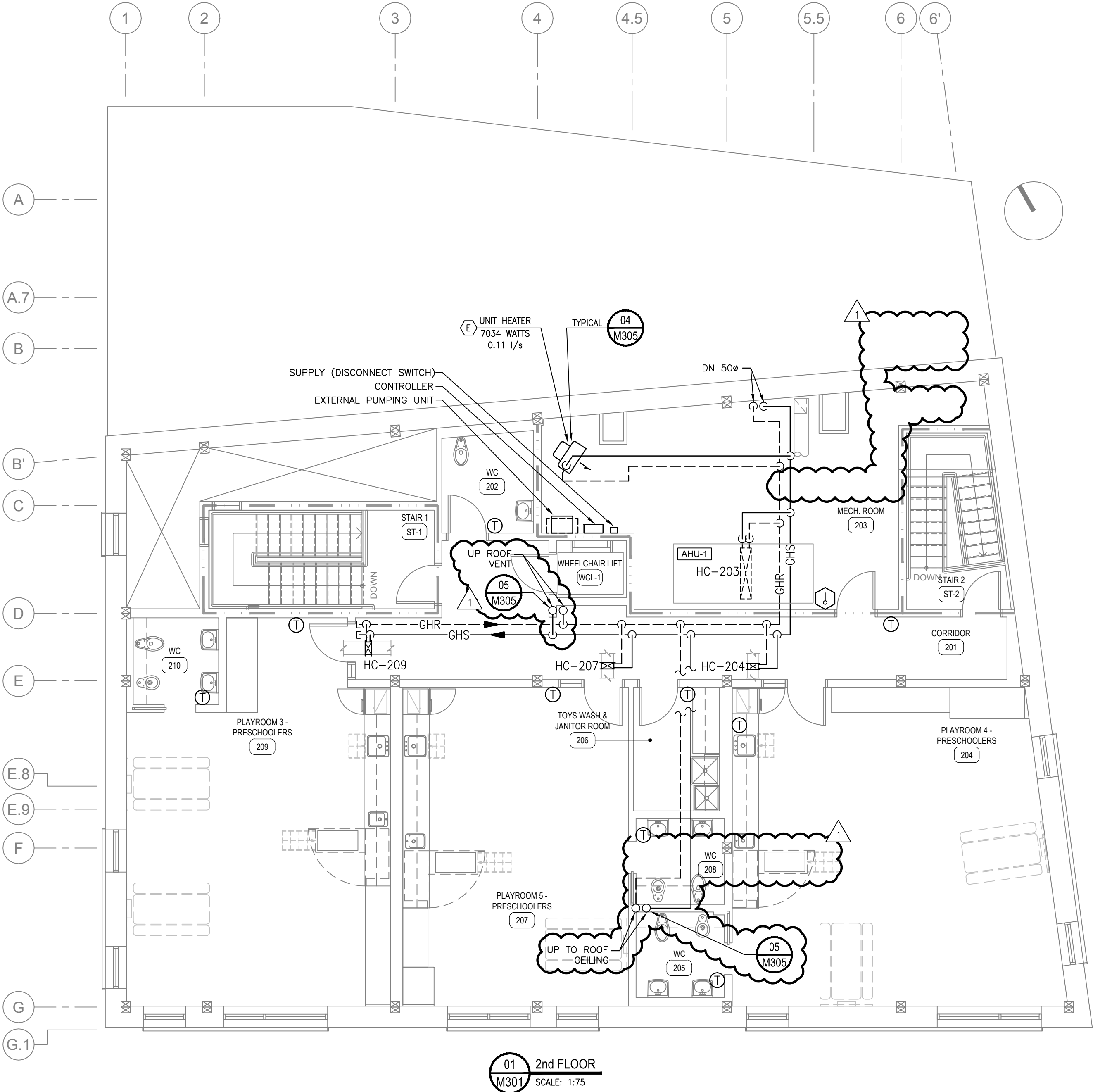
NOTES:
1. PRELOADED 85 kPa
2. PROVIDE ALL ACCESSORIES NECESSARY FOR CEILING SUSPENSION
3. ASME APPROVED STEEL FINISH RED OXYDE PRIMER

HEATING PUMPS AND CIRCULATORS								
No.	DESCRIPTION	MODEL	MOTOR (W)	L/s	HEAD (m)	VOLTAGE	LOCATION/USE	NOTES
HP1-1 HP1-2	CANNED ROTOR TYPE	3 SPEED MOTOR	1250	5.36	9	208/1/60	PRIMARY HEATING/MECH. ROOM	
HP2-1 HP2-2	CANNED ROTOR TYPE	PERMANENT MAGNET ROTOR	1380	4.41	14	208/1/60	SECONDARY HEATING / MECH. ROOM	2
BSP-1, 2	BOILER STATION PUMP ASSEMBLY	N/A	30	0.5	3	120/1/60	RADIANT FLOOR SECONDARY HEATING CIRCUIT/MECH. ROOM	1
BSP-3, 4	BOILER STATION PUMP ASSEMBLY	N/A	125	1.26	4.6	120/1/60	RADIANT FLOOR SECONDARY HEATING CIRCUIT/MECH. ROOM	1

NOTES:
1. c/w MIXING VALVE
2. INTEGRATED VFD, DIFFERENTIAL PRESSURE AND TEMPERATURE SENSOR

HYDRAULIC SEPARATOR						
No.	DESCRIPTION	MODEL	FLOW RATE (L/S)	WATER FILL VOLUME (L)	LOCATION/DESCRIPTION	NOTES
HYS-1	LOW LOSS HEADER	BOILER MANUFACTURER RECOMMENDED MODEL	5	30	MECH. ROOM / HYDRAULIC SEPARATOR	1

NOTES:
1. c/w SENSOR WELL TAPING 15mm, AIR BLEED TAPPING 15mm, DRAIN FLUSH TAPPING 50mm, ANSI 75Ømm FLANGES WELDED ON.



1	ISSUED FOR ADDENDUM NO 3	2018-04-24
0	ISSUED FOR TENDER	2016-03-16
Revision	Description	Date
Client		client

Indigenous and Northern
Affairs Canada

Public Works and Gouverment
Services Canada

Project title

NEW IQALUIT DAYCARE

Designed by

M.B.

Drawn by

J.F.

Approved by

M.B.

PWGSC Project Manager

Russell Knister

Drawing title

MECHANICAL

HEATING AND CONTROLS

2nd FLOOR AND ROOF

Project no./No. du projet

648139

Drawing no./No. du dessin

M301

9 OF 22

Revision no.

1