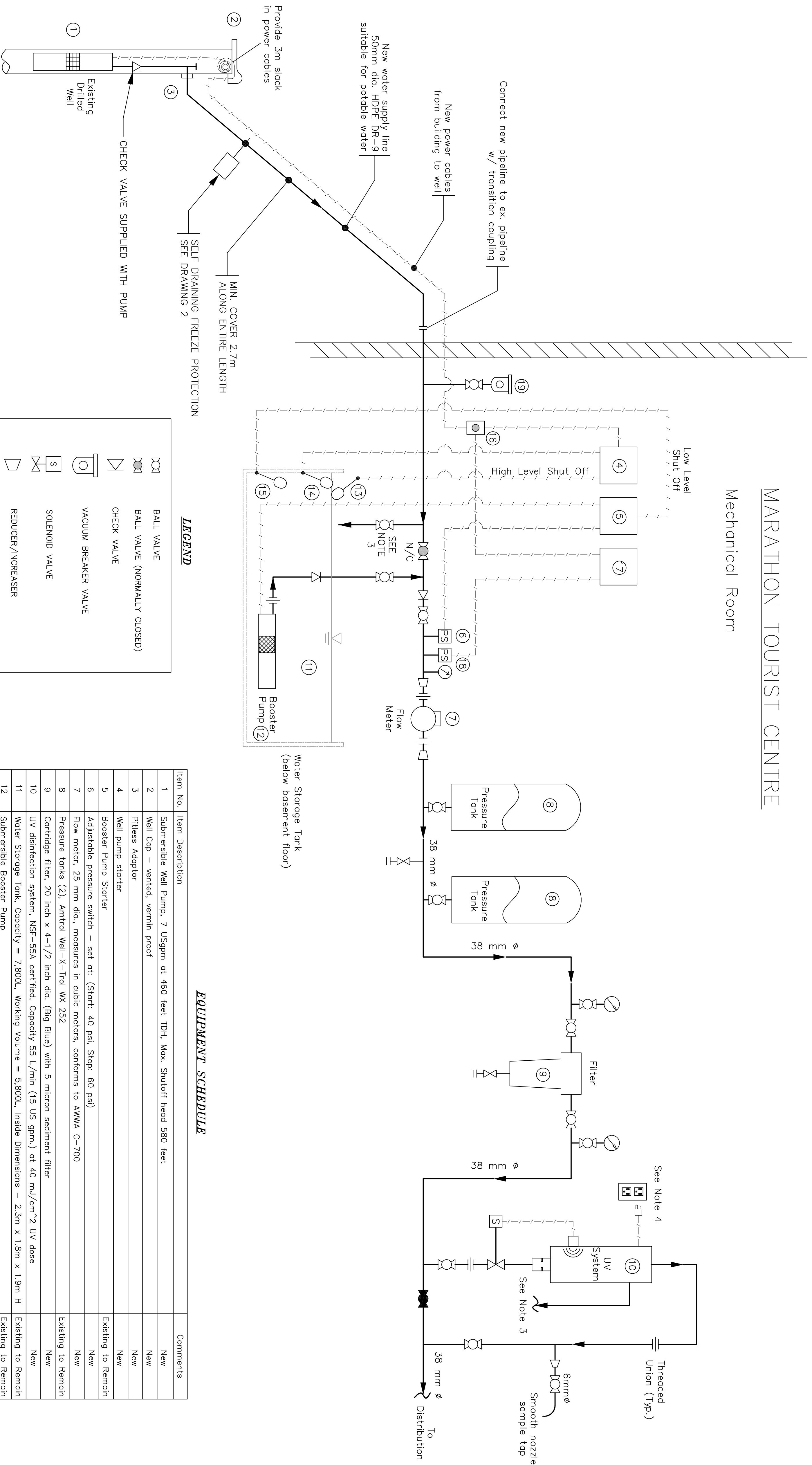


MARATHON TOURIST CENTRE

Mechanical Room

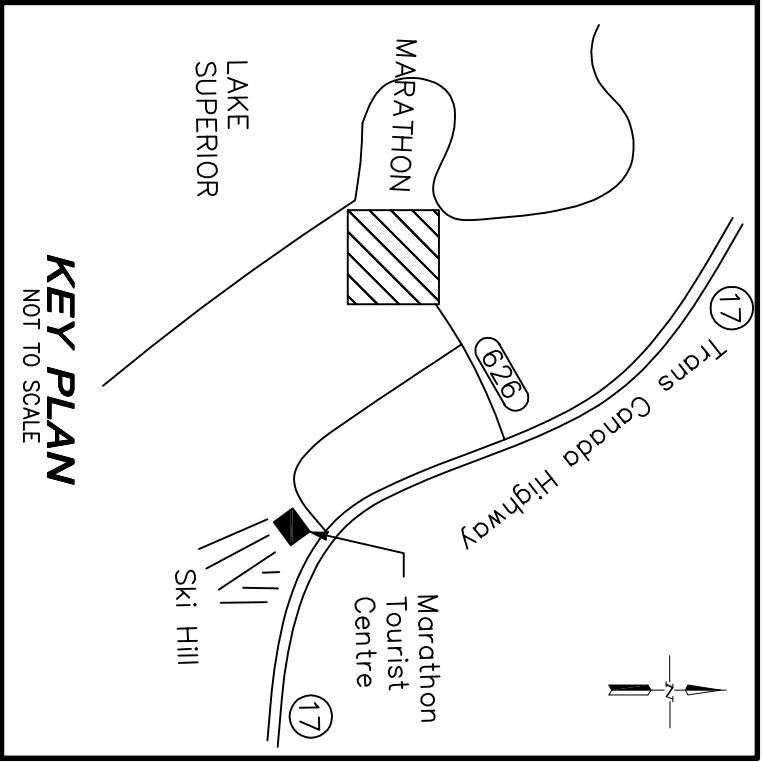


LEGEND

	BALL VALVE
	BALL VALVE (NORMALLY CLOSED)
	CHECK VALVE
	VACUUM BREAKER VALVE
	SOLENOID VALVE
	REDUCER/INGREASER
	TREADED UNION
	SAMPLE TAP/HOSE BIB
	PRESSURE GAUGE
	PRESSURE SWITCH
	PROPOSED WATER LINE
	POWER/COMMUNICATION CABLE

EQUIPMENT SCHEDULE

Item No.	Item Description	Comments
1	Submersible Well Pump, 7 USgpm at 460 feet TDH, Max. Shut-off head 580 feet	New
2	Well Cap - vented, vermin proof	New
3	Fittings Adaptor	New
4	Well pump starter	New
5	Booster Pump Starter	Existing to Remain
6	Adjustable pressure switch - set at: (Start: 40 psi, Stop: 60 psi)	New
7	Flow meter, 25 mm dia., measures in cubic meters, conforms to AMWA C-700	New
8	Pressure tanks (2), Anticol Well-X-Trol WX 252	Existing to Remain
9	Cartridge filter, 20 inch x 4-1/2 inch dia. (Big Blue) with 5 micron sediment filter	New
10	UV disinfection system, NSF-55A certified, Capacity 55 L/min (15 US gpm.) at 40 mJ/cm ² UV dose	Existing to Remain
11	Water Storage Tank, Capacity = 7,800L, Working Volume = 5,800L, Inside Dimensions - 2.3m x 1.8m x 1.9m H	Existing to Remain
12	Submersible Booster Pump	Existing to Remain
13	High Level Shut Off Float Valve for Well Pump	New
14	Normal Operation Float Valve for Well Pump	New
15	Low Level Shut Off Float Valve for Booster Pump	Existing to Remain
16	Manual Selector Switch - to select mode of control for new well pump (level or pressure)	New
17	Auxiliary Well Pump Starter for pressure control	New
18	Auxiliary Pressure Switch for Well Pump	New
19	Vacuum Breaker Valve, 25mmø (1") Valmatic Model 101VB	New



- NOTES :
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
 - MAIN PROCESS PIPING TO BE 38 mm (1-1/2 inch) DIAMETER, TYPE L RIGID COPPER PIPE THAT MEETS STANDARD ASTM B-88.
 - DISCHARGE END TO HAVE PROPER AIR GAP AS PER SECTION 7.6.2.9 OF THE ONTARIO PLUMBING CODE.
 - CONTRACTOR SHALL PROVIDE A NEW DEDICATED DUPLEX RECEPTACLE FOR POWER SUPPLY TO UV SYSTEM.
 - FLOAT VALVES SHALL BE MERCURY FREE & SUITABLE FOR POTABLE WATER.
 - NEW WELL PUMP TO BE POWERED FOR 2 MODES OF CONTROL - LIQUID LEVEL IN TANK OR SYSTEM PRESSURE. PROVIDE MANUAL SELECTOR SWITCH WITH LABELS FOR VISUAL IDENTIFICATION OF MODE OF CONTROL. (ITEM No. 16)

BENCH MARKS :

THE POSITION OF POLE LINES, CONDUITS, WATERWAYS, STAKES AND OTHER NECESSARILY SHOWN ON THE CONTRACT DRAWINGS AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. THE CONTRACTOR SHALL VERIFY THE EXISTING LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR ANY DAMAGE TO THEM.

Gansby and Mannero
ENGINEERS

TOWN OF MARATHON
MARATHON TOURIST CENTRE
WATER TREATMENT SYSTEM
PROCESS SCHEMATIC AND EQUIPMENT SPECIFICATIONS

NO.	DATE	REVISION DESCRIPTION	BY
3	10/17/09	ISSUED FOR QUOTATIONS	G.A.P.
2	08/04/08	REVISED FOR WELL PUMP OPERATION	G.A.P.
1	12/12/08	ISSUED FOR QUOTATIONS	G.A.P.

DESIGNED BY :	DATE :	SCALE :	1
G.A.P.	NOVEMBER 2009	N.T.S.	
DRAWN BY :	APPROVED BY :	PROJECT NO. :	DRAWING NO. :
O.M.	G.A.P.	108-131	

PERMIT NO. : 108131-PO-2009