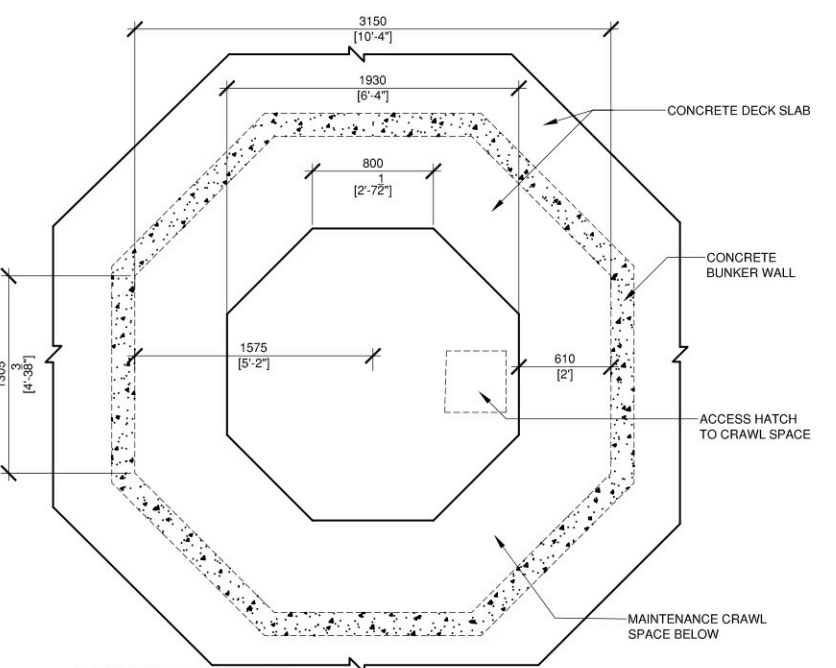
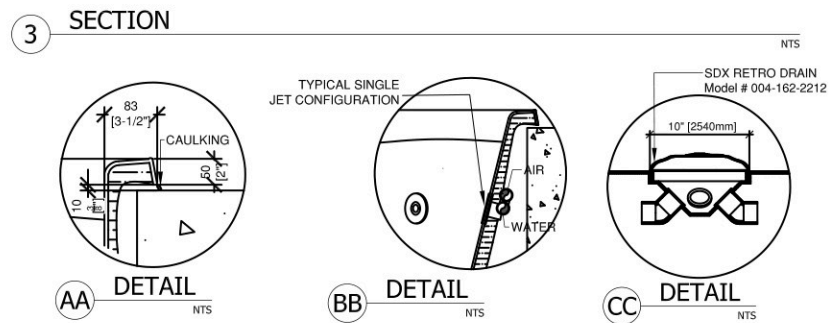
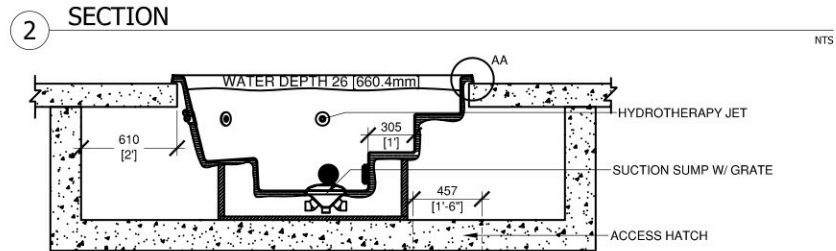
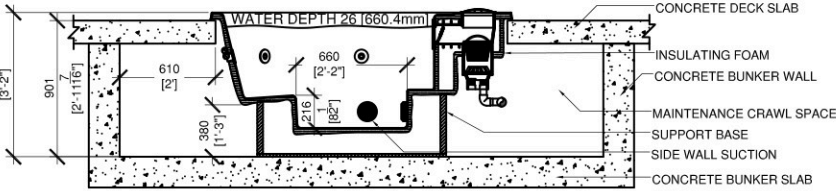
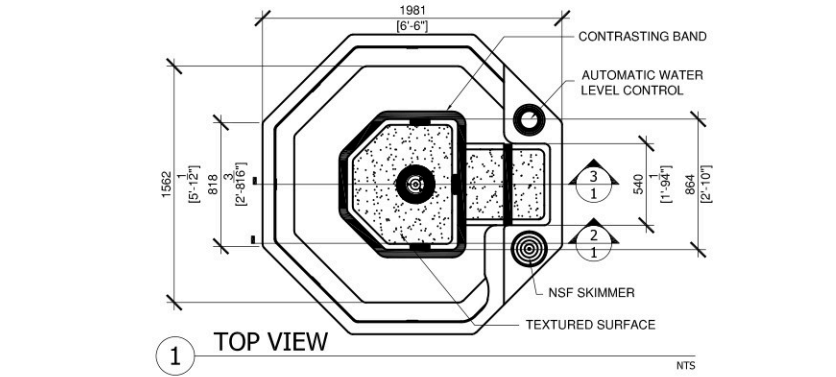


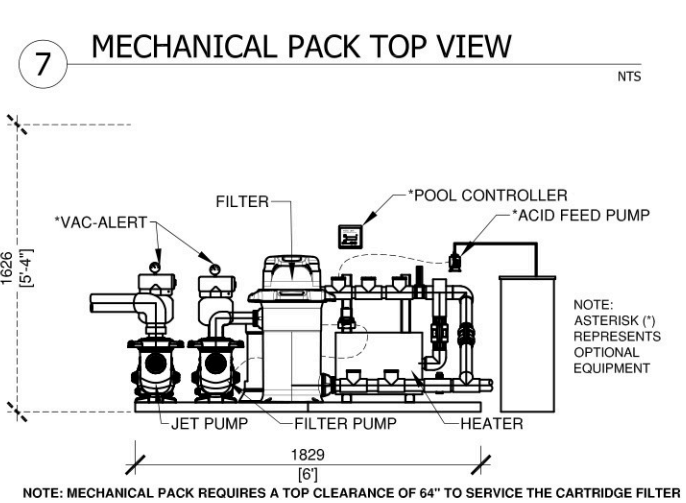
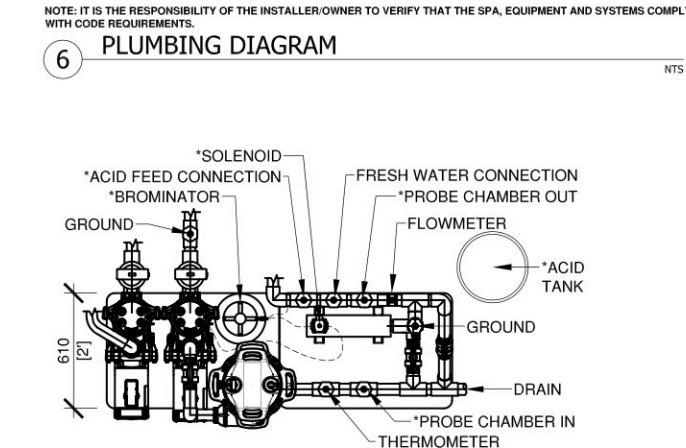
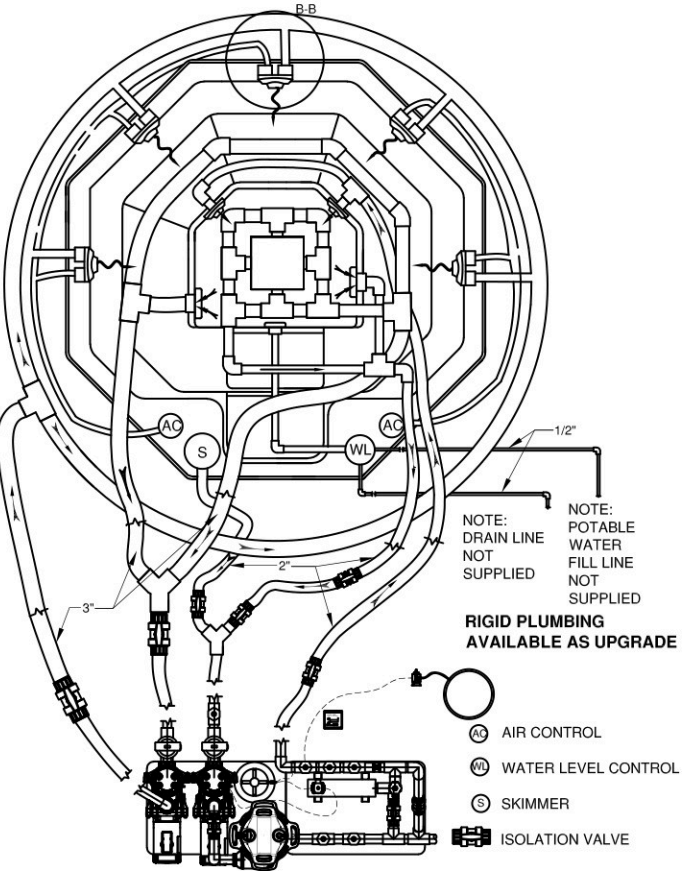
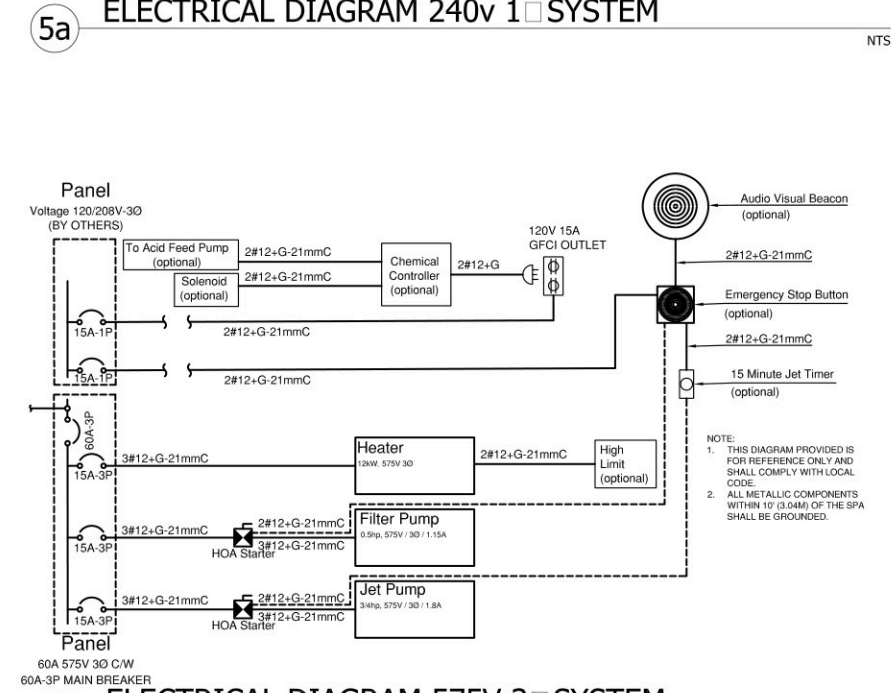
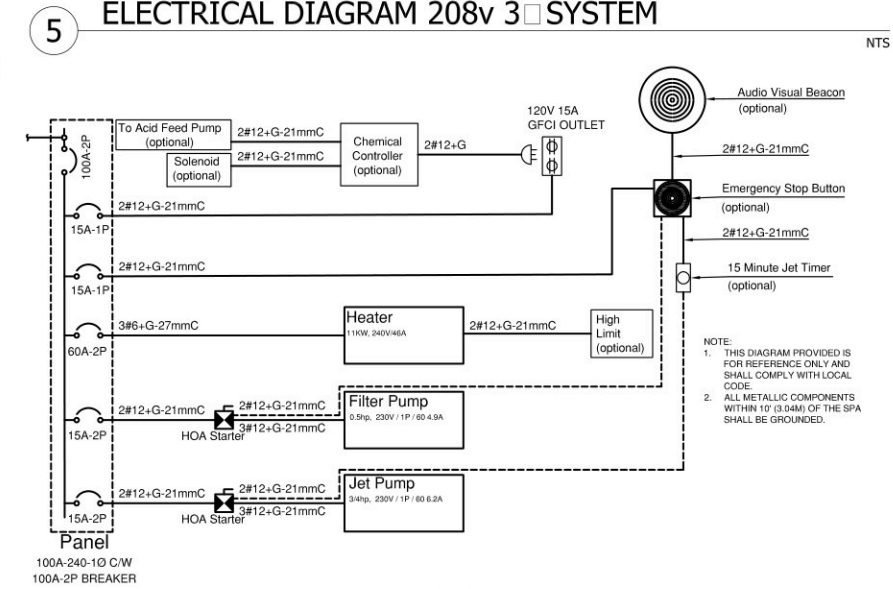
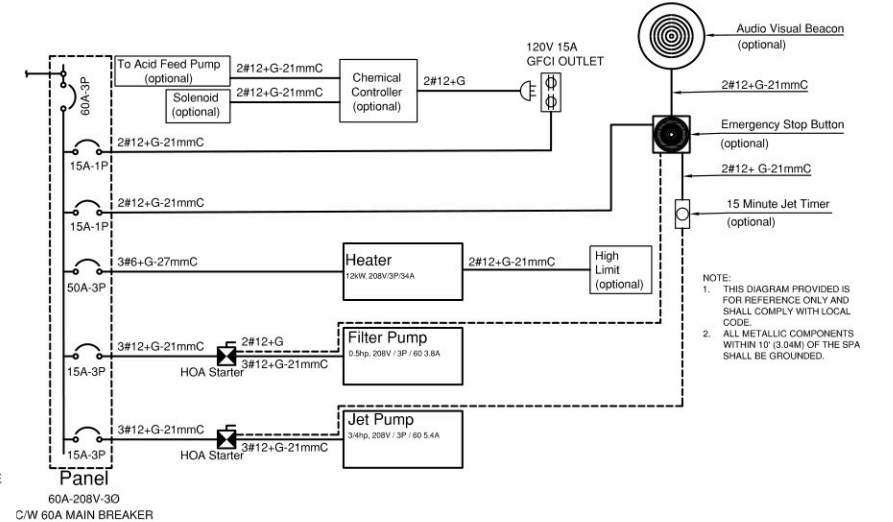
SHELL DIMENSIONS	WIDTH	HEIGHT	VOLUME
LENGTH 78" [1981mm]	78" [1981mm]	38" [965mm]	@375 G/ 1420 L



NOTE: CONCRETE BUNKER SHOWN IS BASED ON A RECOMMENDED DESIGN AND IS NOT REQUIRED IN ALL INSTANCES

WEIGHT EMPTY	WEIGHT FULL	SURFACE AREA
680 lbs/ 309 kg	3804 lbs/ 1727 kg	26 sq.ft [2.41sq.m]

NOTE : Dimensions may differ up to 1/2" (13mm) between Spas. Exact measurements should be obtained from delivered unit.



NOTE: MECHANICAL PACK REQUIRES A TOP CLEARANCE OF 64" TO SERVICE THE CARTRIDGE FILTER

- ### SPECIFICATIONS
- The shell of the hot tub shall be manufactured of vacuum formed acrylic (.187 sheet) in POLAR W Hot tub shell overall dimensions; 78" x 78" x 38". See dimensional information on this sheet.
 - The acrylic shall be further reinforced with fibergl resins but may require additional on-site bracing supports (customer's responsibility) under the st and seats.
 - The shell shall have the following fittings:
 - 5 Large hydrotherapy jets
 - 1 Skimmer, (NSF Listed)
 - 1 Built in bottom drain sumps w/ removable
 - 2 Side wall suction fittings (ANSI/ASME A112.19.M Listed)
 - 2 Air control valves
 - 1 Water level tank fitting
 - 1 Water Level Controller
 - 2 Filtered water return inlets
 - The hot tub will be insulated with a coating of polyurethane foam, factory plumbed and hydorst tested.
 - Recommended HCSP 1 mechanical support syst will be shipped on a separate plastic base and st consist of:
 - 1 1/2hp filter pump (NSF Listed)
 - 1 100 sq.ft. cartridge filter (NSF Listed)
 - 1 3/4 hp hydrotherapy booster pump (NSF Listed)
 - 1 11 kW or 12 kW (if 30 is selected) electri heater c/w flow switch
 - 2 Inline thermometers c/w thermowell
 - 1 Inline flow-meter
 - 1 Water level controller with overflow (loca the shell)
 - Optional Items
 - Waterline Tile
 - 12V Underwater LED Light
 - External Hi-Limit Switch
 - Electronic Countdown Timer
 - Emergency Push/Pull Button
 - Audio Visual Beacon
 - Safety Vacuum Release Systems
 - Chemical Automation System
 - Substitute for Second Feed Pump and Tank
 - UV Sanitizer
 - Substitute for Sand Filter NSF Listed
 - Gas Heater
 - Rigid Plumbing
 - Additional R12 Insulation
 - P-Rail with Flanges
 - P-Rail with Anchors
 - Safety Cover 4" - 3" Tapered Hard Cover
 - Warranties shall be 5 year on the shell structure, years on the acrylic surface and one year on the plumbing, labor, accessories and parts. On-site plumbing is NOT covered.
 - Installation items NOT covered by this specifiati and considered "by others" are:
 - Plumbing services including sanitary and we the equipment room. Plumbing between the shell and mechanical equipment
 - location. Heating and ventilation in the equip room.
 - Electrical service connections from the build services to the electrical panel(s), motor, he and component connections including moto starters, timers, push/pull switches, A/V alar grounding of all electrical components and
 - Decking and access steps including deck dr
 - Supports under the seats and steps of the s

HYDRAULIC DESIGN	
SPA VOLUME	375 usg
	1420 Litre
TURNOVER	12.5 minutes
FILTER FLOW RATE	30 usgpm @ 55' T.D.H.
	113.5 LPM @ 16.76 M hd
FILTER AREA	100 sq.ft.
	9.29 sq.m.
OPERATING	@0.30 usgpm/sq.ft.
	@0.204 L/s/m²
FILTER PUMP 1/2 hp	
5 HYDROTHERAPY FITTINGS	
5 LARGE OPERATING @ 15 usgpm/56.78 Lp	
HYDROTHERAPY FLOW RATE	75 usgpm @ 55' TDH
	284 LPM @ 16.76 M hd
HYDROTHERAPY PUMP 3/4 hp	
TOTAL FLOW RATE	105 usgpm/397.5 Lpm
TOTAL OPEN AREA OF MAIN DRAINS	61.241 sq.in./ 395.1 sq.cm.
VELOCITY THROUGH MAIN DRAINS	.55 ft.sec/ 0.168m. sec

AQUA

ALLIANCE

INC.

Authorized HydroTher Dealer

Commercial Spa Specialists

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Aqua Alliance Inc.

Date:	Jan 2019
Ch'd By:	BRB
Job No.:	H600-19

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