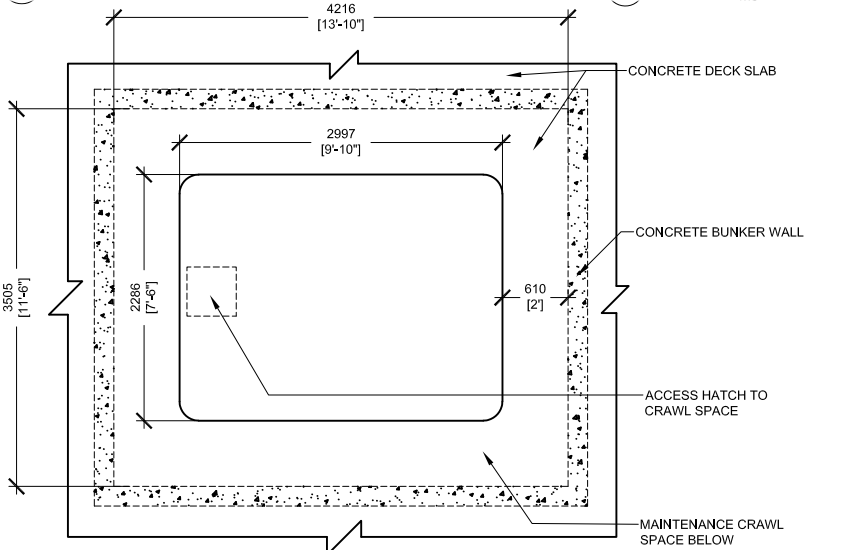
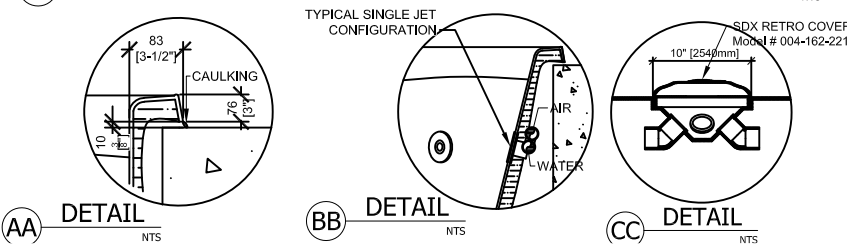
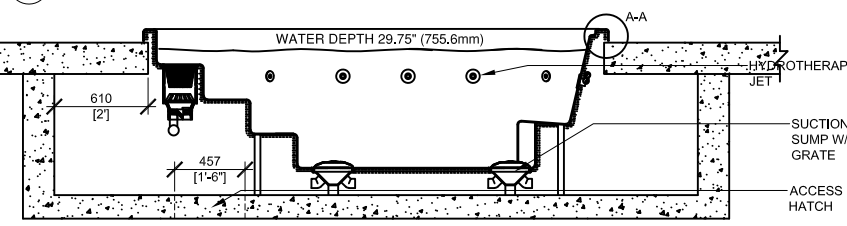
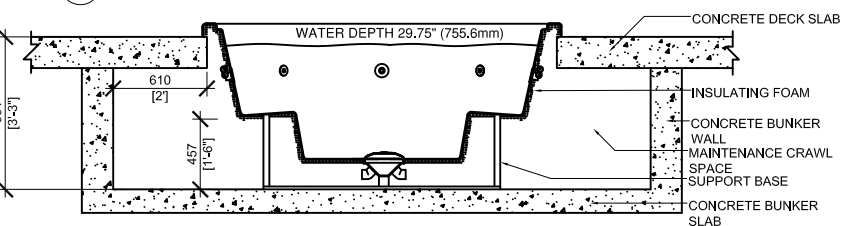
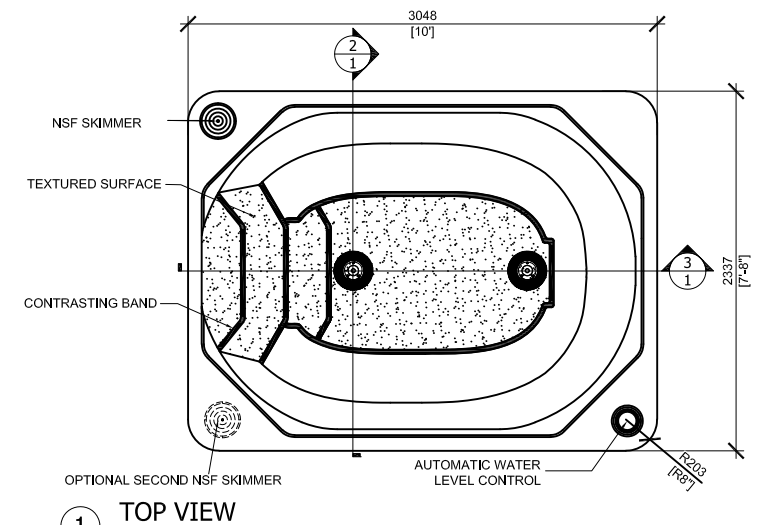
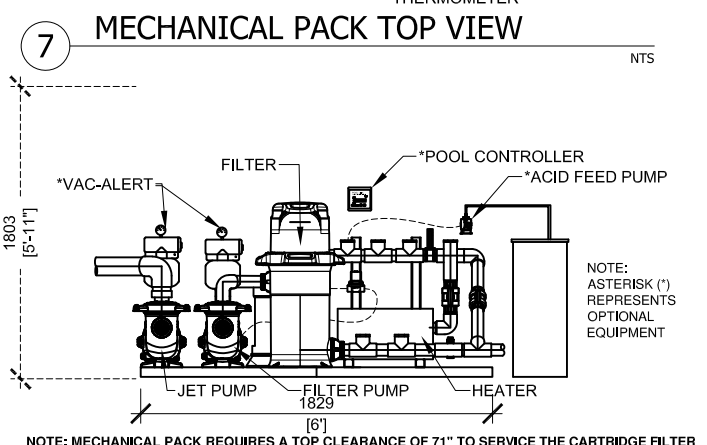
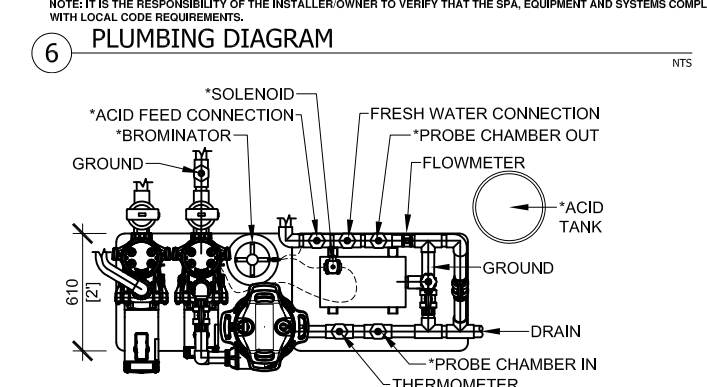
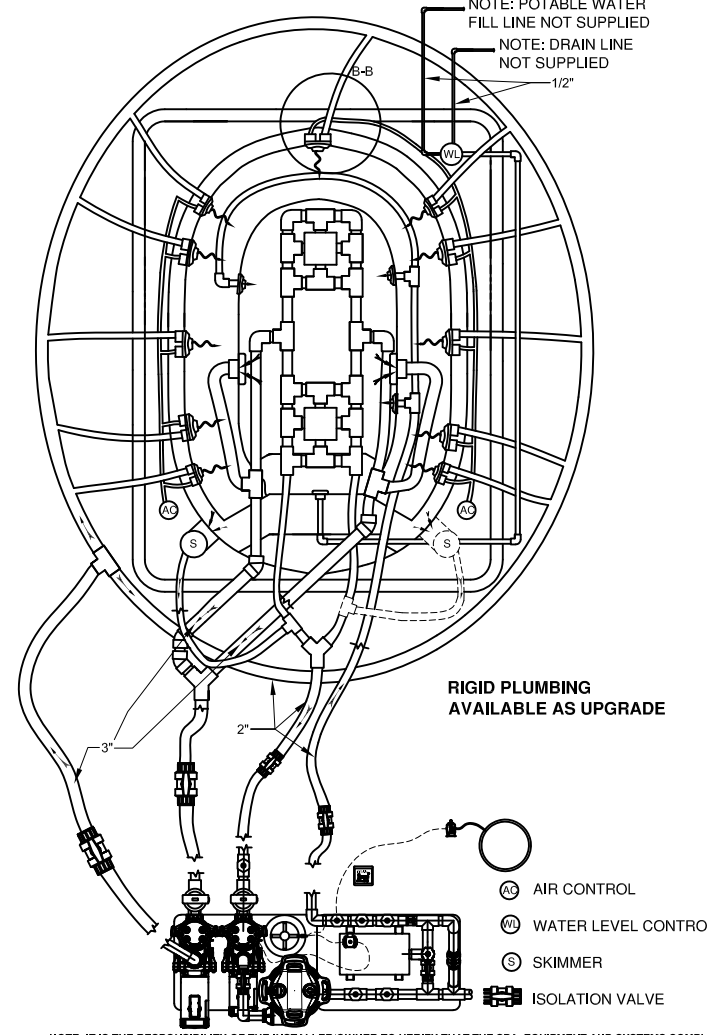
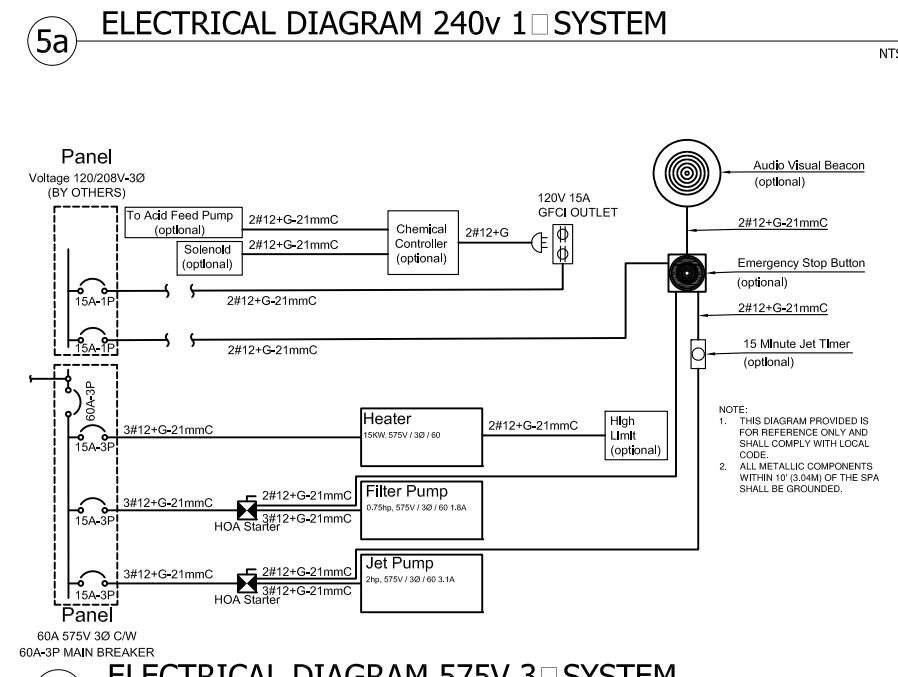
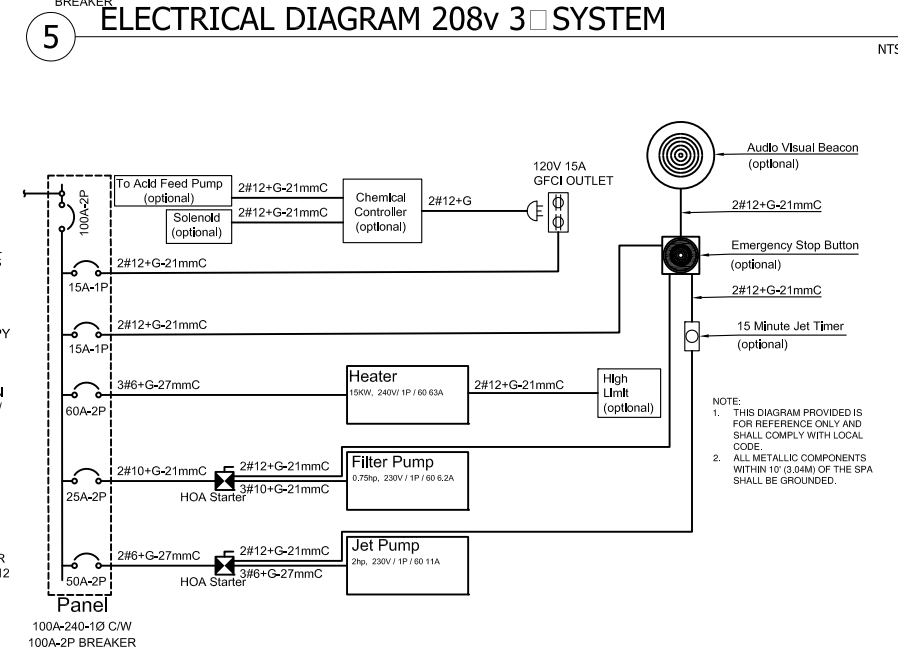
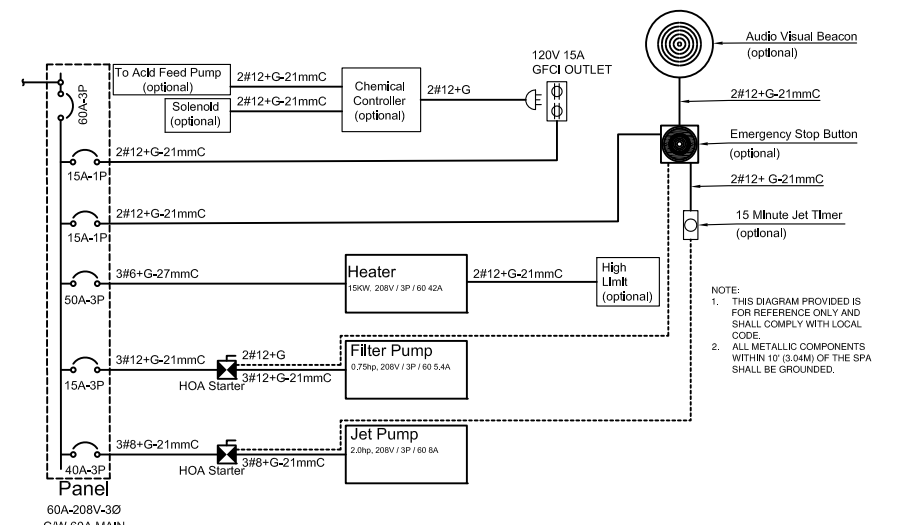


SHELL DIMENSIONS			
LENGTH	WIDTH	HEIGHT	VOLUME
120" [3048mm]	92" [2337mm]	42.5" [1080mm]	@650 GI/ 2461 L



WEIGHT EMPTY	WEIGHT FULL	SURFACE AREA
950 lbs/ 431 kg	6371 lbs/ 2890 kg	48 sq.ft [4.32sq.m]

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



- SPECIFICATIONS**
- The shell of the hot tub shall be manufactured of vacuum formed acrylic (.187 sheet) in POLAR WHITE. Hot tub shell overall dimensions; 120" x 92" x 42.5" deep. See dimensional information on this sheet.
  - The acrylic shall be further reinforced with fiberglass resins but may require additional on-site bracing supports (customer's responsibility) under the steps and seats.
  - The shell shall have the following fittings:
    - 7 Large hydrotherapy jets
    - 4 Small hydrotherapy jets
    - 1 Skimmer, (NSF Listed)
    - 2 Built in bottom drain sumps with removable grate
    - 2 Air control valves
    - 1 Water level tank fitting
    - 1 Water level controller
    - 3 Filtered water return inlets
    - 2 Side Wall Suction
  - The hot tub will be insulated with a coating of polyurethane foam, factory plumbed and hydrostatically tested.
  - Recommended HCSP-4 mechanical support system will be shipped on a separate plastic base and shall consist of:
    - 1 3/4hp filter pump (NSF Listed)
    - 1 200 sq.ft. cartridge filter (NSF Listed)
    - 1 2 hp hydrotherapy booster pump (NSF Listed)
    - 1 15 kW electric heater c/w flow switch
    - 2 Inline thermometers c/w thermowell
    - 1 Inline flow-meter
    - 1 Water level controller with overflow (located at the shell)

- Optional Items
    - Waterline Tile
    - 12V Underwater LED Light
    - Second Skimmer
    - 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)
    - 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, 2 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 specification and considered "by others" are:
    - Plumbing services including sanitary and water to the equipment room. Plumbing between the spa shell and mechanical equipment location. Heating and ventilation in the equipment room.
    - Electrical service connections from the building services to the electrical panel(s), motor, heater and component connections including motor starters, timers, push/pull switches, A/V alarm, grounding of all electrical components and GFCIs.
    - Decking and access steps including deck drains.
    - Supports under the seats and steps of the shell.
- NOTE: All equipment UL and UL-C approved. All fittings NSF and ANSI/ASME LISTED. All submerged suction fittings are VGB Compliant.**

**HYDRAULIC DESIGN**

SPA VOLUME	650 usg
	2461 Litre
TURNOVER	9.42 minutes
FILTER FLOW RATE	
	69 usgpm @ 60' T.D.H.
	261.2 LPM @ 18.28 M hd
FILTER AREA	200 sq.ft.
	18.58 sq.m.
OPERATING	@.345 usgpm/sq.ft.
	@.0234 L/s/m <sup>2</sup>
FILTER PUMP	3/4 hp
11 HYDROTHERAPY FITTINGS	
7 LARGE OPERATING @ 14 usgpm/53 Lpm	
4 SMALL OPERATING @ 8 usgpm/30.3 Lpm	
HYDROTHERAPY FLOW RATE	
	130 usgpm @ 60' TDH
	492.1 Lpm @ 18.28 M hd
HYDROTHERAPY PUMP	2 hp
TOTAL FLOW RATE	
	199 usgpm/753.3 Lpm
TOTAL OPEN AREA OF MAIN DRAINS	
	95.42 sq.in./ 615.61 sq.cm.
VELOCITY THROUGH MAIN DRAINS	
	.669 ft/sec/ 0.204m. sec



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No.	Date	Description

Revisions

**HYDROTHER**  
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Project	Hydrother
Title	H-1100C
Drawn By:	ML
Scale:	NTS
Date:	MARCH 2025
Ch'd By:	BRB
Job No.:	H1100-19