



Production Booklet

for the

AARONSON SPA



2800 Richter Ave. Suite C, Oroville, CA 95965 • **voice:** (530)534-9910

email: jim@tiledspas.com • **website:** www.tiledspas.com

RECOMMENDED MAINTENANCE

Please Note:

These are only recommended guidelines to care for a Nespa all tiled spa. Local codes may require additional procedures, therefore consult with a pool professional that is LA county Health Department certified for more information on local codes and requirements.

SPA SURFACE

Your spa tile is acid resistant and frost-proof. The Tile does not absorb germs or algae. Tile does not stain and is very easy to clean. Color does not fade or lose its luster. All grouts are epoxy based and are extremely durable. To remove scum line use soft nylon brush and small amounts of biodegradable soaps. Do not use abrasive brushes or chemicals.

MAINTENANCE

A. CHEMICALS:

- 1) It is important to maintain a chlorine residual of 2 PPM in the spa. That residual can be provided by chlorine or bromine.
- 2) It is recommended to use Bromine or dichlor (granular) forms of chlorine. If bromine Tabs are used we suggest floating or inline dispenser.
- 3) Never use acid to lower Ph in the tile spa.
- 4) Never use trichlor chlorine (1" or 3") tablets in the Nespa spas.
- 5) Never place tablets in skimmer basket.

B. DRAINING THE SPA:

- 1) It is recommended to drain the spa at least once every 2 months depending on bath load and water clarity.
- 2) The spa should be drained through valve exiting re-circulation pump in the spa equipment room or sump pump.
- 3) Note: Use caution to drain spa in the winter months or rainy season when water table is at its highest. It is possible for the spa to float due to hydraulic pressure from surrounding water table. We advise that you consult with your local spa specialist prior to draining the spa.

C. SPA EQUIPMENT:

- 1) Clean filter cartridge at least once every month, or when needed; i.e., if water clarity does not improve after several days.
- 2) Keep area free and clear from leaves and debris build-up.
- 3) Keep area free and clear from flooding.

D. SPA LIGHT:

- 1) Spa light has to be on GFCI circuit. It is controlled at spa side with ON/OFF.

E. TILE SERVICING:

- 1) Contact manufacture when servicing tile or grout. @ (530) 534-9910

NESPA DRAWING SET

PLAN APPROVAL DOCUMENTATION

Nespa's design and structural manufacturing departments may find it necessary to make slight adjustments (< 1") to your spa.
This may include the size of the spa (OD/ID), tile cuts, depths, jet location, bench steps etc. These adjustments must be made in the primary stages of building the spa.

The adjustments are generally made to ad structural and aesthetic integrity to the vessel. IE: balance of supporting gussets (exterior) and less tile cuts / symmetrical cuts, grout lines, etc. (interior)

Please initial next to the following number that describes your project needs.

- _____ 1. **YES**, I understand adjustments need to be made. Nespa will use their expertise to make these adjustments as needed.
I give them the authority to make changes.
I will receive final accurate drawings prior to receipt of spa or spa hole construction (if changes were made to the size)
- _____ 2. **NO**, No changes can be made even under 1". Dimensions are fixed.
More tile cuts may be needed. Structural supports may be altered to accommodate.
- _____ 3. **Nespa** will need to contact us for any changes to spa dimensions prior to continued spa fabrication.

APPROVAL

Purchaser is to provide protection to spa finish as well as plumbing during the installation phase. This includes rain,freeze and sun exposure.

Purchaser acknowledges that all previous drawings to this one submitted or discussed no longer apply. Purchaser accepts that all dimensions external to the Nespa product are purchaser's responsibility and that purchaser is responsible for the merging of Nespa product to job site conditions, all required dimensions and elevations and mechanical access. Purchaser also acknowledges that they are responsible for all code compliancy to the Nespa product.

Purchaser acknowledges that maintaining the spa level is critical. Purchaser will provide a level concrete platform surface for spa to sit upon. If shimming material is used purchaser will provide rigid non-compressible material.

I approve the above drawings :

_____ **Date:** _____

Any changes to these plans from here forward shall be directed in writing to Nespa.

1. SPA PLAN

Spa width and length, Interior EQ locations, Step & Bench configuration

2. -3 SPA TILE DETAILS

4 -5 SPA EQUIPMENT

Equipment list and Schematic



Legacy 8 x 12

SPECIFICATIONS

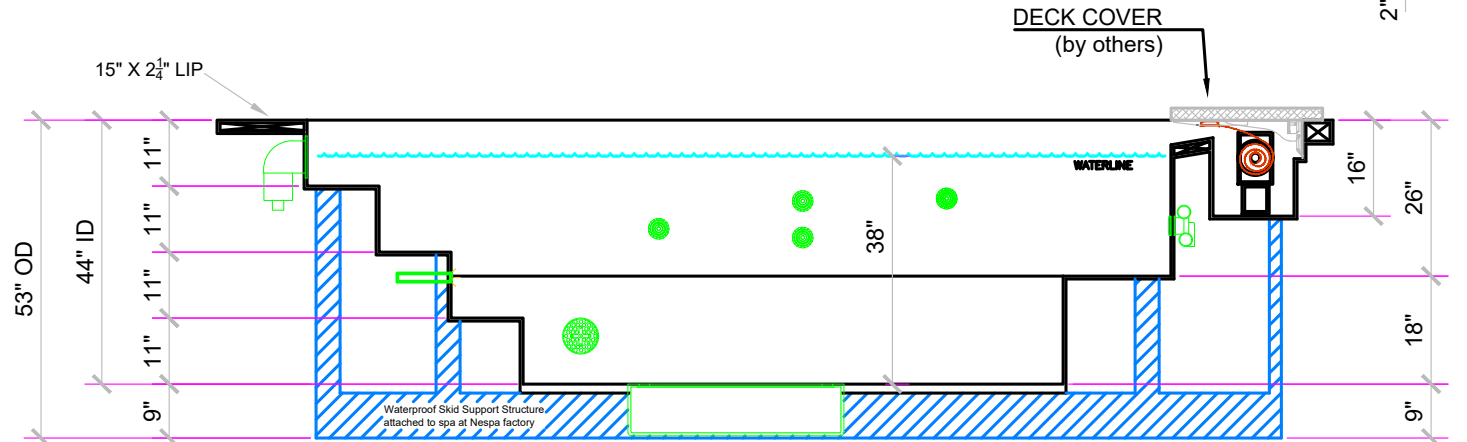
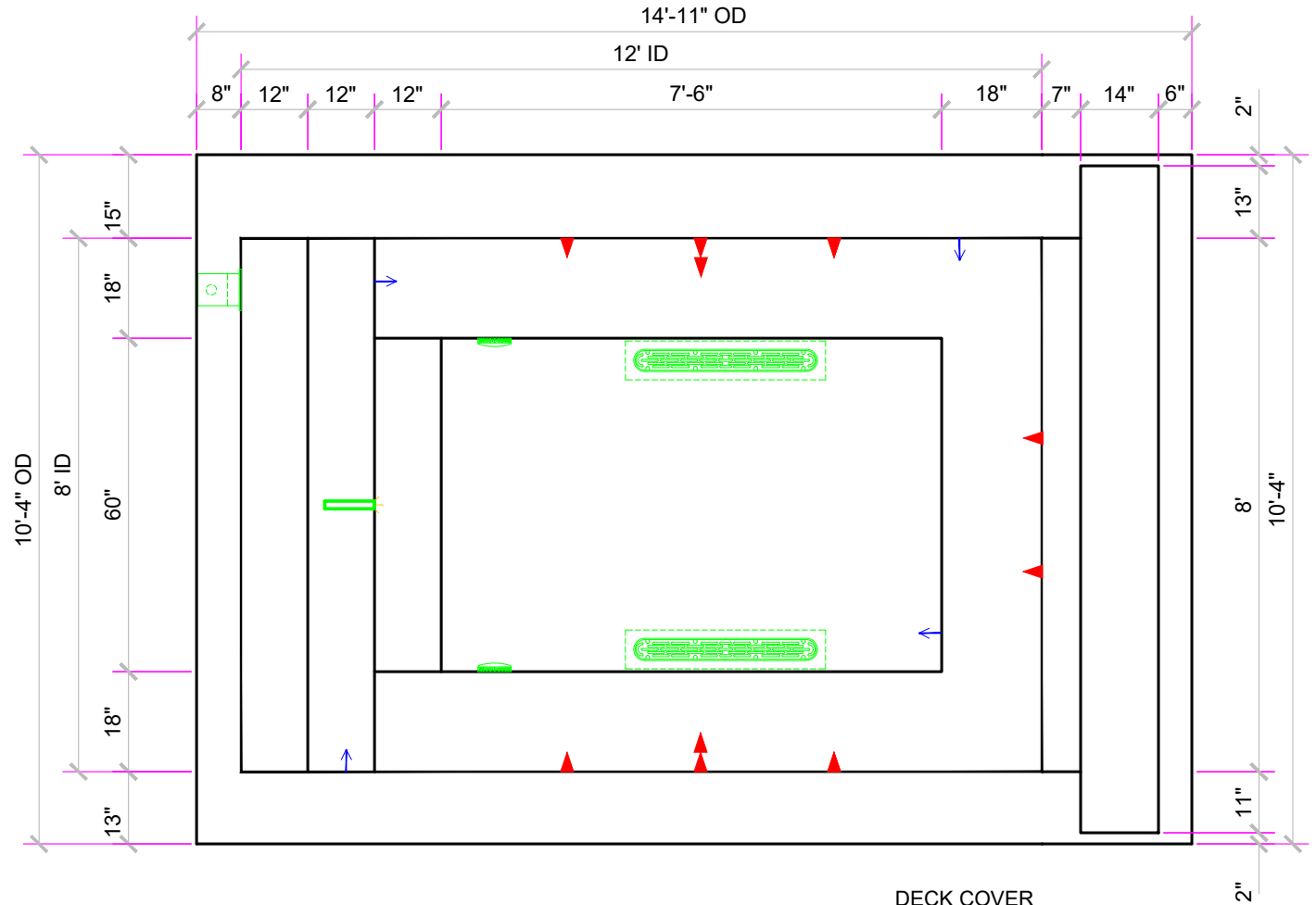
SHELL WEIGHT:	5000 LBS.
WATER WEIGHT:	16132 LBS.
TOTAL SHELL & WATER WEIGHT:	21132.1 LBS.
WATER VOLUME:	258 Cu.Ft.
WATER GALLONS:	1935 GAL.
SURFACE AREA:	96.0 SQ. FT.
ICC ES LISTED #:	PMG-1161

NESPA ENTERPRISES, Inc.



ICC ES Listed
PMG-1161

CODE	EQUIPMENT	DESCRIPTION	QTY.
SS		SKIMMER	1
BS		JET SUCTION	2
MD		MAIN DRAIN	2
J#		JETS	10
WI		RETURNS	4
UL		LIGHT	1
PB		BOND	1



1

SD

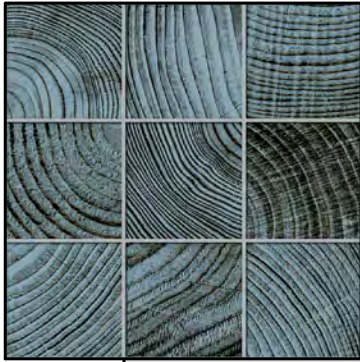
AARONSON

SCALE: 3/8" = 1'

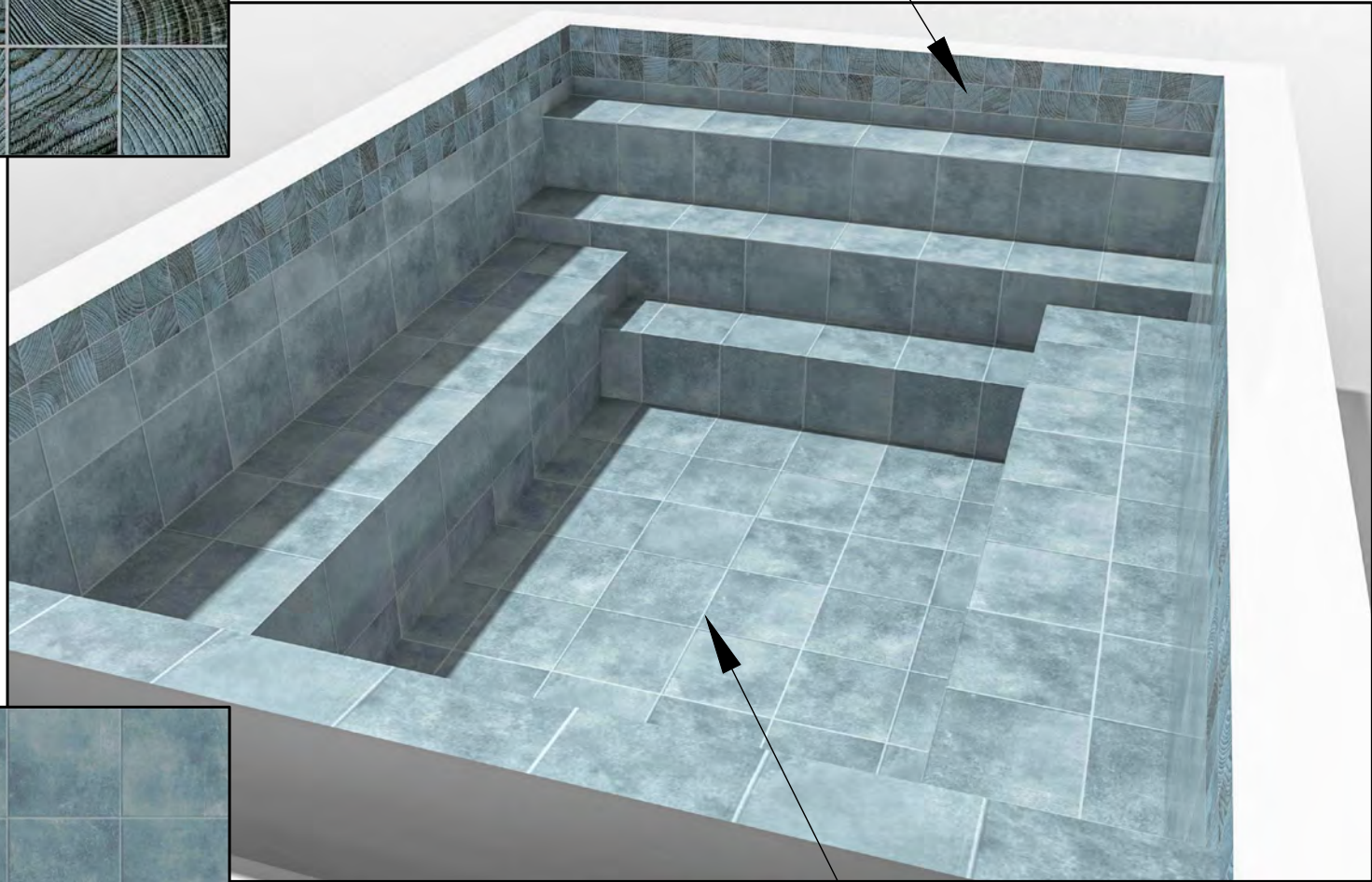


NESPA ENTERPRISES INC.

4/13/2023



Crossville
Convergence
- Indigo
- 12 X 12



Crossville
Color Blox 2.0
- Blue Suede Shoes
- 12 X 12

2A

TILE

AARONSON

SCALE: N/A



NESPA ENTERPRISES INC.

4/13/2023



2B

TILE (2)


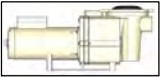



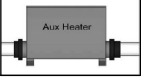




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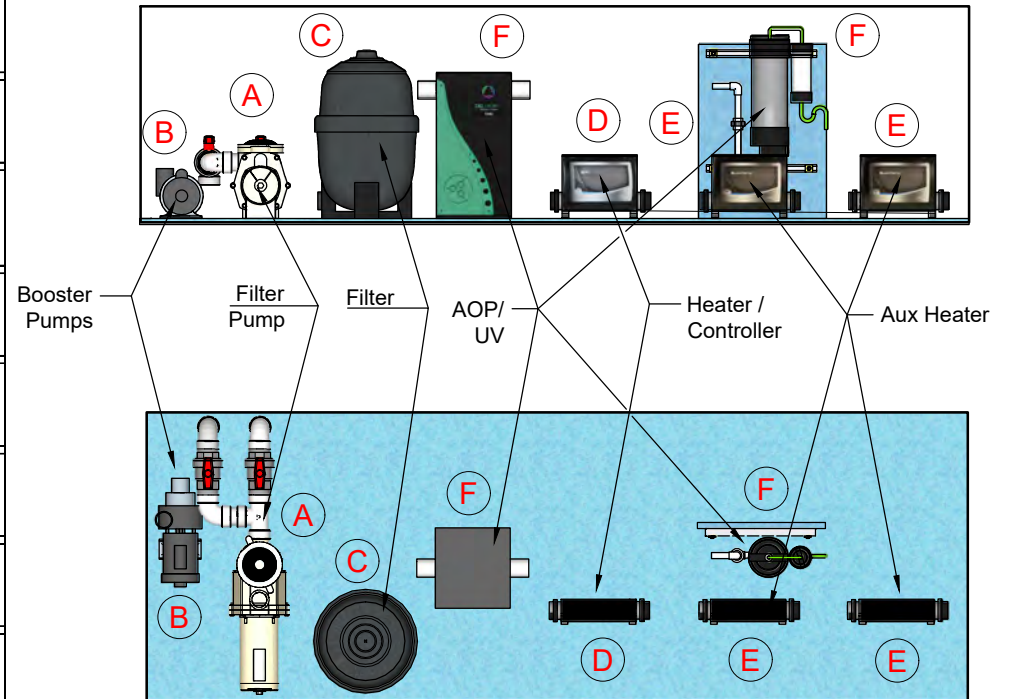
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NESPA ENTERPRISES INC.

4/13/2023

	NESPA B203165AOPAC Spa Power Pack		<p>Description: Nespa B203165-AOP-AC Spa Power Pack is a spa support equipment assembly. Composed of Filter pump, Booster Jet Pump, Cartridge Filter, 5.5 KW heater, (2) AUX 5.5KW heater, DEL AOP 25 Ozone, AutoCover, LED Multi color light and Touch screen control panel.</p> <p>MODEL: NESPA B203165-AOP-AC SERIAL: NSC-B203165AOPAC-2020 VOLTS: 240V / 60HZ / 4 Wire AMPS: 43A</p> <p>Power Requirements: 240VAC, 60HZ, 43A, Class A GFCI-protected service (Circuit Breaker Rating = 60A max.) 4 Wires (Hot-Line 1, Hot-Line 2, Neutral, Ground)</p>
	QTY		
(A)	1	FILTER PUMP -	 <p>PENTAIR - SUPERFLO MODEL # - 340036 RATED - .5 HP VOLTAGE - 230V Full Load AMPS: 5.4 A</p>
(B)	1	BOOSTER PUMP	 <p>WATERWAY EXECUTIVE - 5HP MODEL # - 3712021-13 RATED - 5HP VOLTAGE - 230 Full Load AMPS: 13.0 A</p>
(C)	1	FILTER	 <p>STA-RITE - System Z - Modular Media Filters - PLM Series MODEL # - PLM 150 Filter Area - 150 Sq Ft Flow Rated GPM - 56-150 Sq Ft Turnover Capacity in 1 HR - 4,000 Gallons</p>
(D)	1	HEATER / CONTROLLER	 <p>BALBOA Heater - MODEL # - BP501G1 - PART # - 56487-04 240V - 60Hz - 20amps</p>
(E)	2	AUX HEATER	 <p>BALBOA Heater Slave - MODEL # - RH-Slaves-CA-5.5K PART # 55986 240V - 60Hz - 20amps, <u>Fuse 30 amp GFCI</u></p>
(F)	1	OZONE	 <p>DEL AOP 25 Max Flow Rate = 20GPM VOLTAGE = 110/240VAC - 50/60 HZ - 0.3 Amps UL, cUL Certified Part # SEC-50</p>
	2	LIGHT	 <p>Jandy - Pro Series - HydroCool - Nicheless LED 12W - 12V - 50' - RGBW P - SERIES LIGHT Part # JLU4C12W50P</p>
	1	TOPSIDE CONTROL	 <p>BALBOA Topside Control Model # TP600</p>
	1	AUTO COVER	 <p>COVERSTAR - Auto-cover Model # CS300HD 120V = 60Hz - 5 amps <u>Fuse 15 amp GFCI</u></p>



3

EQ

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SCALE: 3/8" = 1'-0"



NESPA ENTERPRISES INC.

4/13/2023

Nespa - B20211-AOP Spa Power Pack

A spa support equipment assembly composed of a Filter pump, Booster Jet Pump, Cartridge Filter, 5.5 KW heater, AUX 5.5KW heater, DEL AOP 25 Ozone, LED Multi color light and a Touch screen control panel.

MODEL: NESPA B20311-AOP SERIAL: NSC-B20211AOP-2020
VOLTS: 240V / 60HZ / 4 Wire AMPS: 43A

Power Requirements:
240VAC, 60HZ, 43A,
Class A GFCI-protected service (Circuit Breaker Rating = 60A max.)
4 Wires (Hot-Line 1, Hot-Line 2, Neutral, Ground)

60 AMP GFCI

Live load
= 47 amps

B20211 - AOP
Electrical Flow Chart

- Balboa BP501
- Titanium 5.5KW
- Heater
- All relays for Pumps, Lights and Ozone

- Filter Pump 1/2 HP
- Waterway Booster Jet Pump 5HP
- UV / Ozone AOP25
- Light 12V, 12W

30 AMP GFCI

Balboa Slave
5.5KW
Auxiliary Heater

Heater draw = 20 amps

ELECTRICAL INFO

ITEM	MAKE	MODEL #	RATED	VOLT	AMPS	POWER REQUIREMENTS	NOTES
FILTER PUMP	PENTAIR SUPERFLO	340036	.5 HP	230V	5.4 FULL LOAD		
BOOSTER PUMP	WATERWAY EXECUTIVE	3712021-13	5HP	230V	13A		
FILTER	STA-RITE - SYSTEM 2	PLM 150	Flow Rated GPM - 56-150 Sq Ft				Turnover Capacity in 1 HR - 4,000 Gallons
HEATER / CONTROLLER	BALBOA BP501G1	56487-04		240V - 60Hz	20A		
AUX HEATER	BALBOA HEATER SLAVE	RH-SLAVES-CA-5 .5K - 55986	5.5K	240V - 60Hz	20A	Fuse 30 amp GFCI	
OZONE	DEL AOP 25	SEC-25	Max Flow Rate = 20GPM	110/240VA C - 50/60HZ	0.3A		
LIGHT	JANDY	Nichless 12w RGBW	12 watt		.2A	12-13v AC	
TOPSIDE CONTROL	Balboa	TP-600					Wi Fi module pre-installed for service

1

BALBOA 2P

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SCALE: N/A



NESPA ENTERPRISES INC.

4/13/2023



MODEL: NESPA B20211V
Spa Power Pack

SERIAL: NSC-B20211V-2019

CODE: Nespa-04122019-B20211V

VOLTS: 240V/ 60HZ/ 4 Wire

AMPS: 46A

PRODUCT: NESPA B20211V

Power Requirements:

240VAC, 60HZ, 46A,
Class A GFCI-protected
service (Circuit Breaker
Rating = 60A max.)
4 Wires (Hot-Line 1,
Hot-Line 2, Neutral, Ground)

Balboa Auxiliary 5.5kw Heater Requirements:

240VAC, 60HZ, PH1, 22 Amp, Class A GFCI -
Protected service (Circuit Breaker Rating = 30A Max)

NESPA ENTERPRISES, Inc.



SERIAL #
NSC-B20211V

ICC ES Listed PMG-1161

⚠ WARNING ^a

REDUCE THE RISK OF ELECTROCUTION ^b

1. Never place an electric appliance within 5 feet of spa. ^c

REDUCE THE RISK OF CHILD DROWNING ^b

1. Supervise children at all times. ^c
2. Attach spa cover after each use. ^c

REDUCE THE RISK OF OVERHEATING ^b

1. Check with a doctor before use if pregnant, diabetic, in poor health, or under medical care. ^c
2. Exit immediately if uncomfortable, dizzy, or sleepy. Spa heat can cause hypothermia and unconsciousness. ^c
3. Spa heat in conjunction with alcohol, drugs, or medication can cause unconsciousness. ^c

WHEN PREGNANT ^b, soaking in hot water for long periods can harm your fetus. Measure water temperature before entering. ^c

1. Do not enter spa if water is hotter than 100° F (38° C). ^c
2. Do not stay in spa for longer than 10 minutes. ^c



1
B20211V

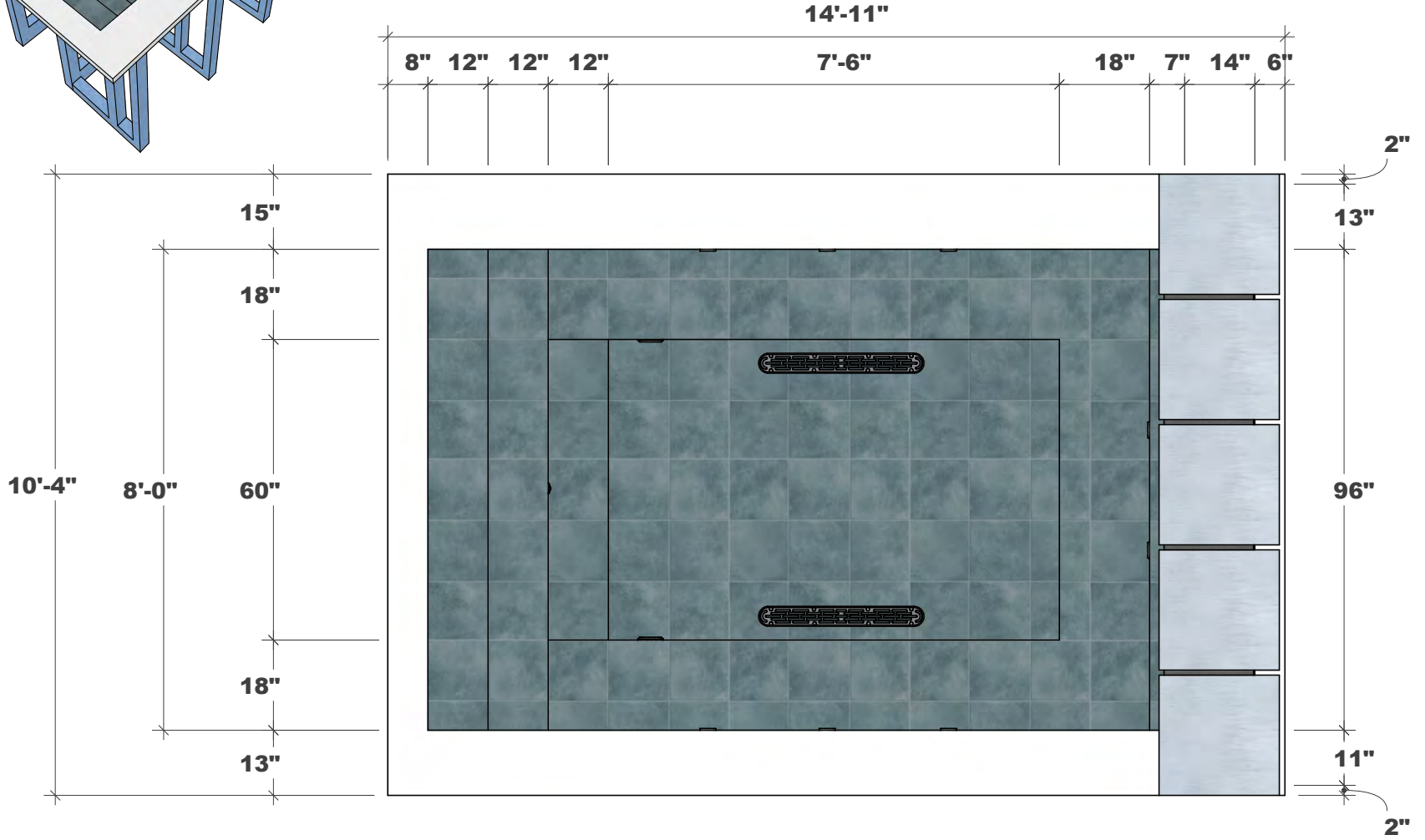
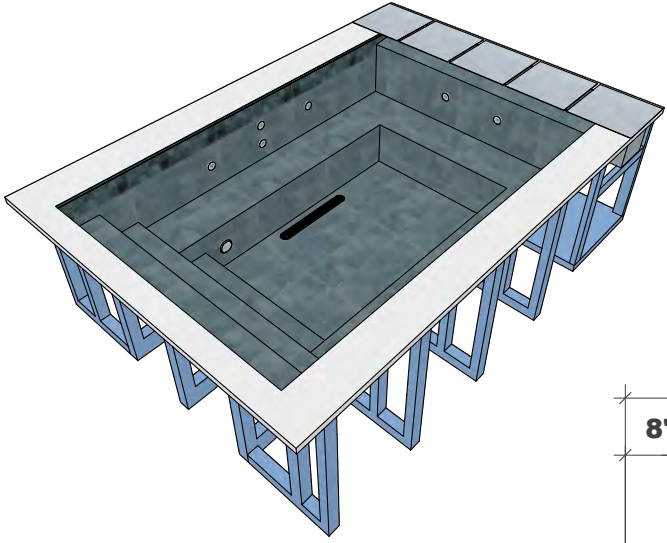
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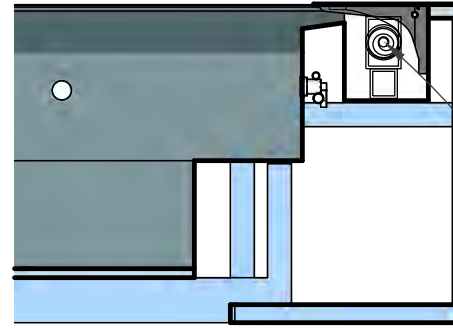
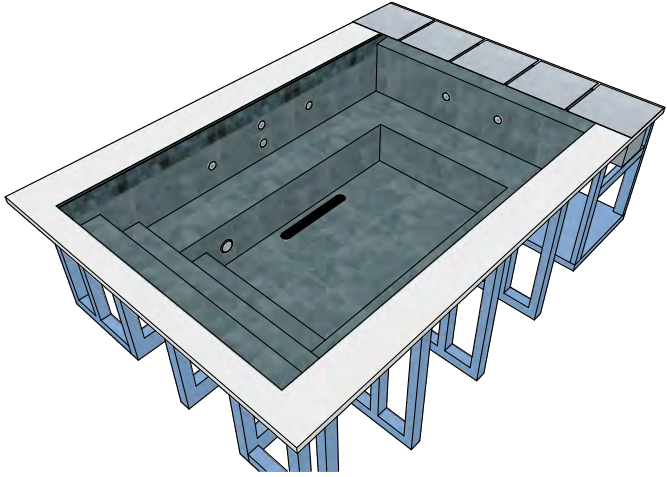
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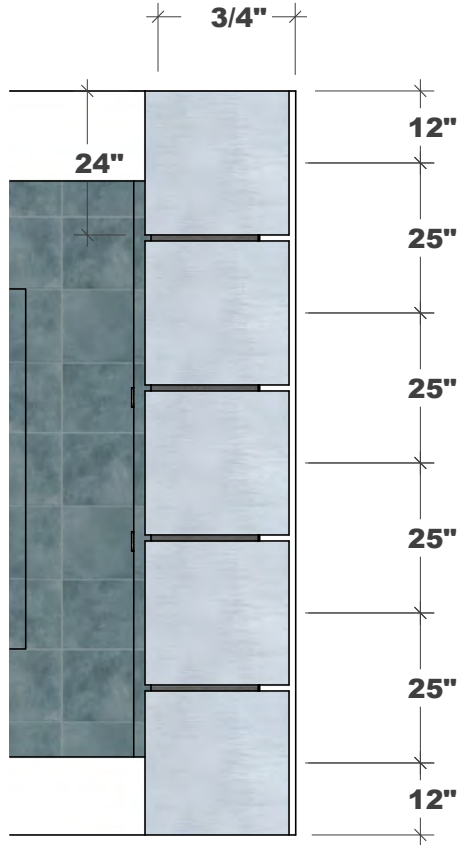
6/14/2023



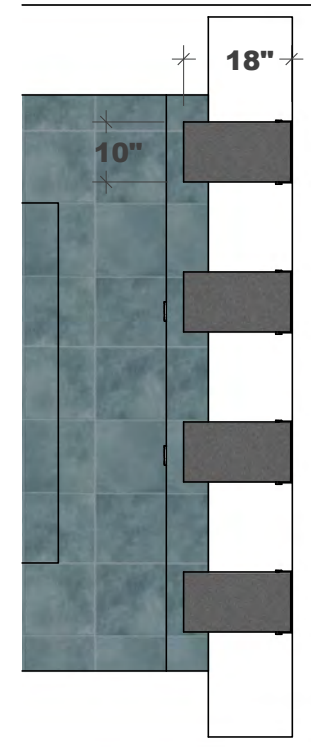


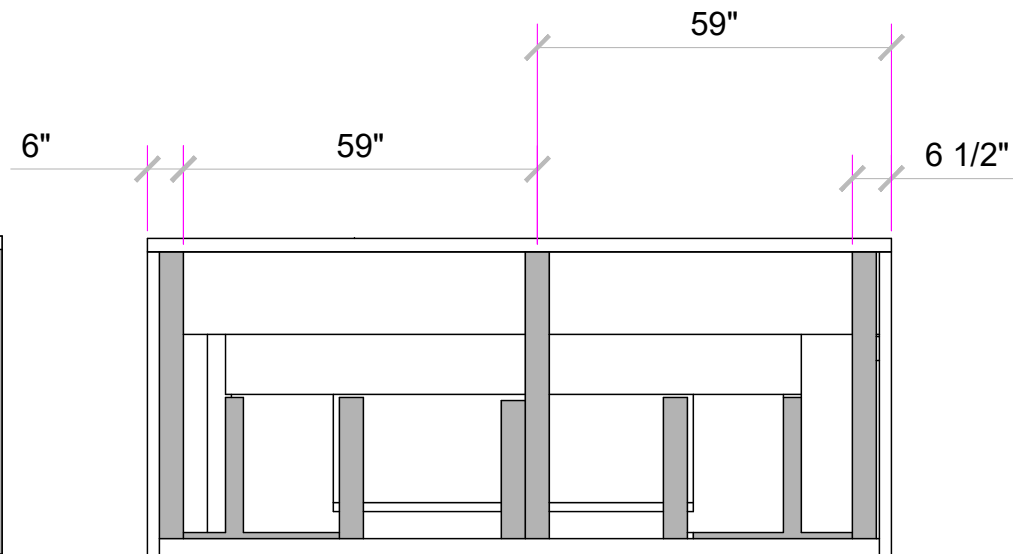
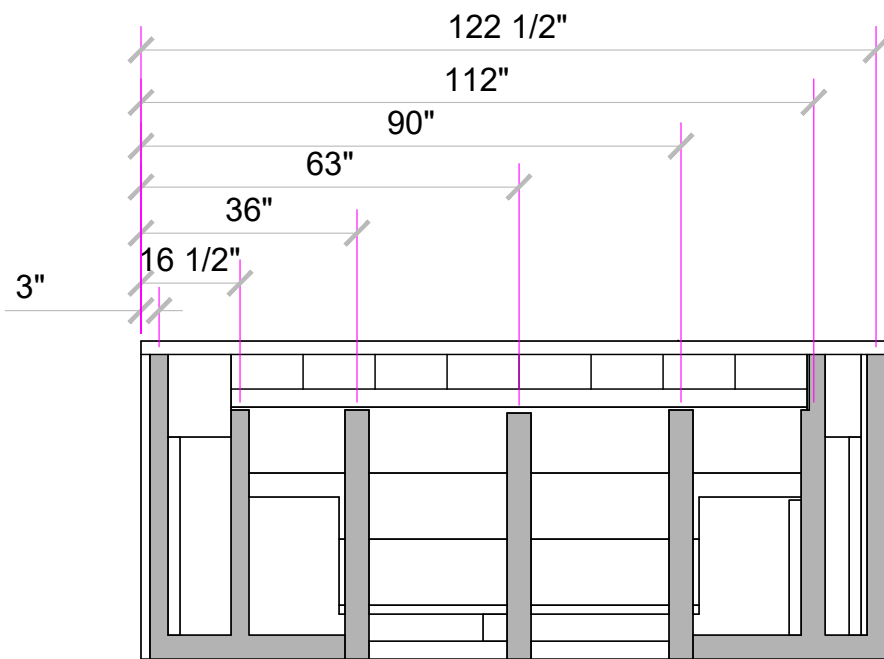
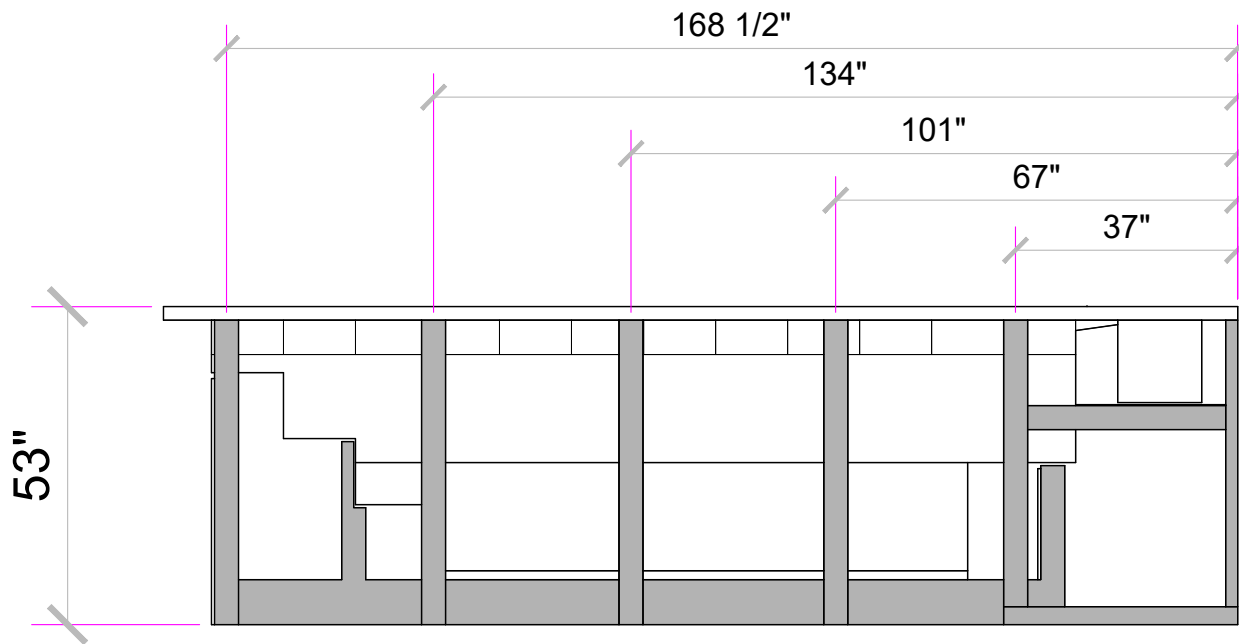
Auto Cover Motor

**Cover Trays (5)
24" X 24" Typ.**



**Cover Brackets (4)
18" X 10" Typ.**





1
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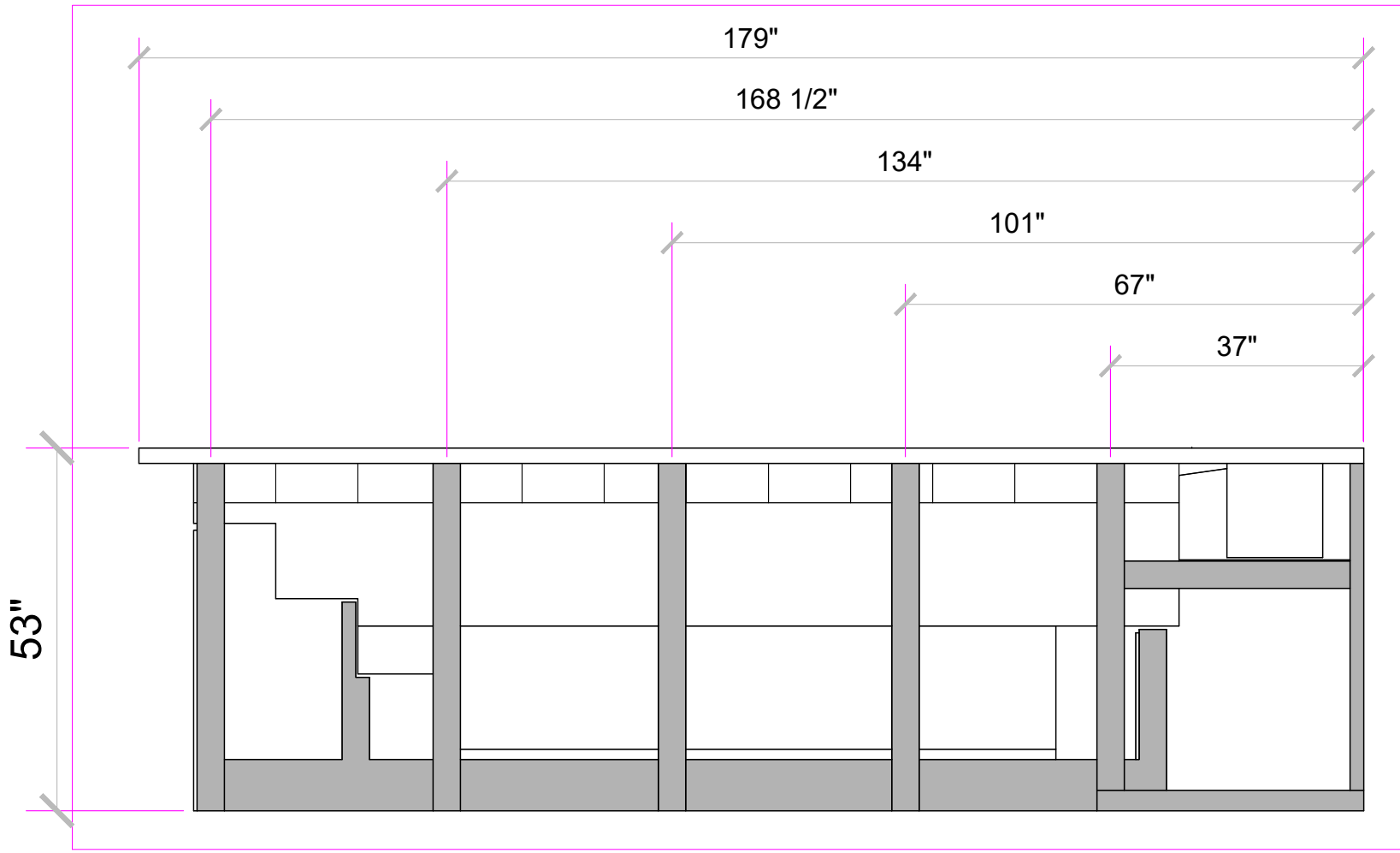
AARONSON

SCALE: 3/8" = 1'-0"



NESPA ENTERPRISES INC.

6/12/2023



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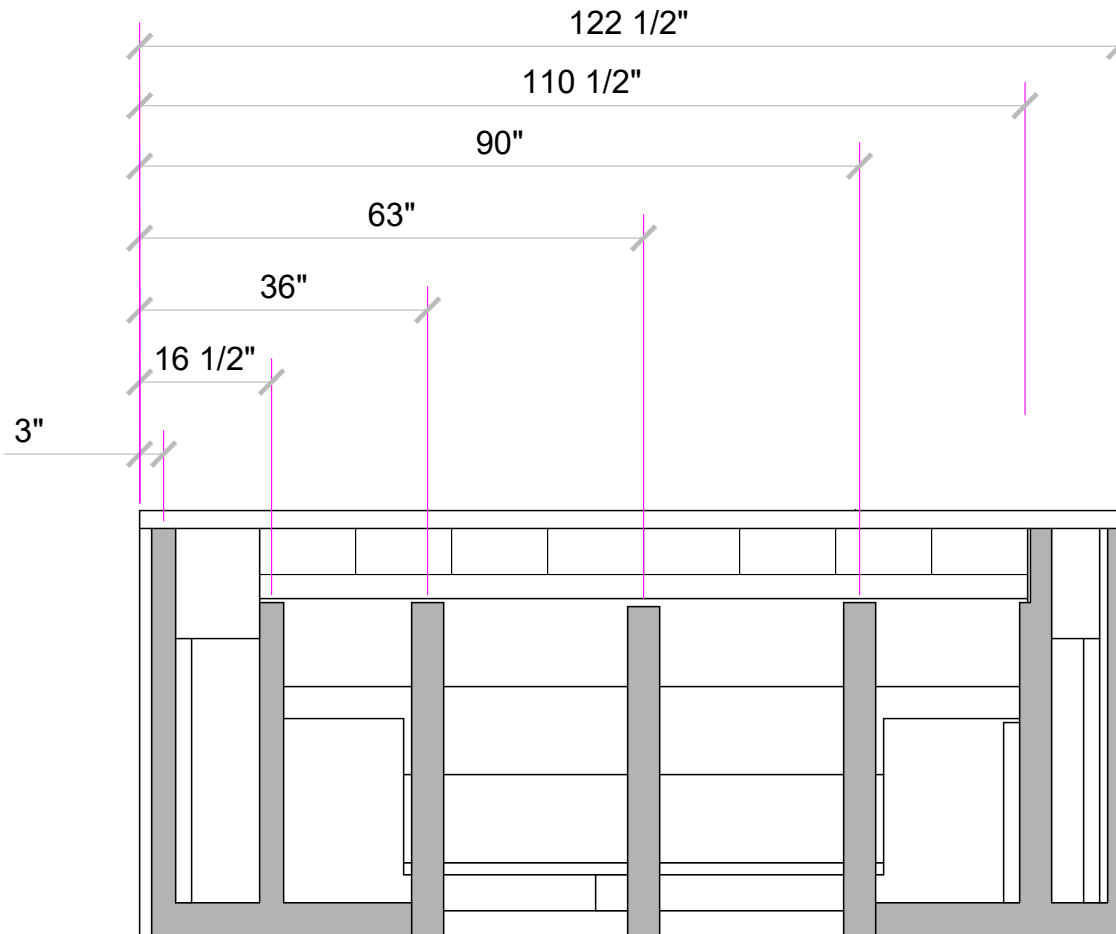
AARONSON

SCALE: 3/8" = 1'-0"



NESPA ENTERPRISES INC.

4/13/2023



3

SKID As-Built (3)

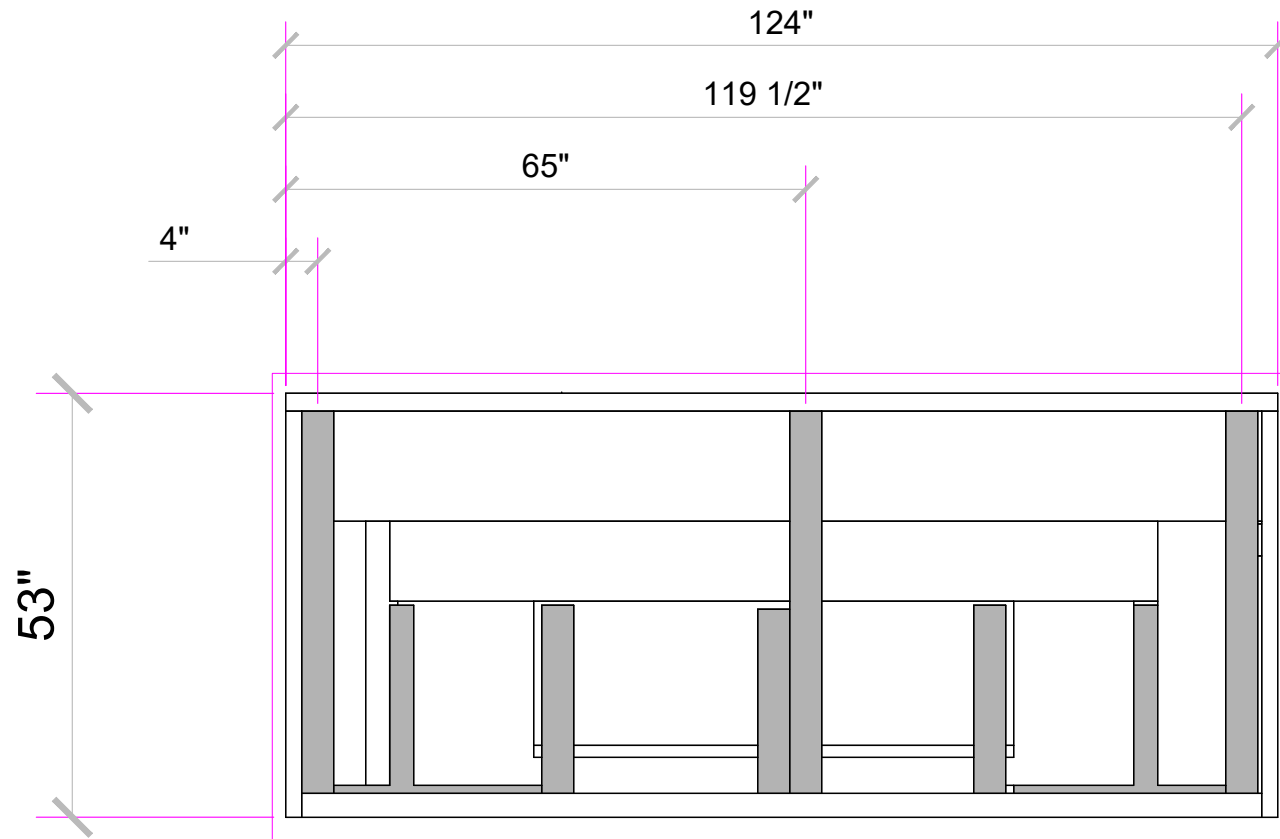
AARONSON

SCALE: 3/8" = 1'-0"



NESPA ENTERPRISES INC.

4/13/2023



4
SKID As-Built (4)

AARONSON

SCALE: 3/8" = 1'-0"



NESPA ENTERPRISES INC.

4/13/2023

STANDARD NESPA ABOVE GROUND INSTALLATION INSTRUCTIONS SET-UP AND PREPARATION

Prerequisites: Before installing your Nespa spa. You may be required to acquire a permit from your local State, County, and City Building Departments and or Health Department. (Commercial jobs need Health Dept. Approval). Your spa installation must comply with the most current codes. (**International Swimming Pool, Spas & Hot Tub Code 2021 (ISPSC 2021)**).

Spa drawings: Nespa Tiled Spas provides current spa specific construction details only. Spa plan, sections, Tile specification, spa plumbing detail. Each project has its own submittal drawings pertaining to spa vessel and plumbing only. Nespa vessels are free standing and supporting. No exterior lateral support is required. All building structural support for spa is by others. Do not rely on any website posted model. (Possibly outdated or custom)

Delivery Access: Clearly determine the method of getting the spa to jobsite and into the hole. This may require the use of a crane, forklift, hoist, backhoe and/or manpower etc. Each spa arrives with Spa lifting bolts for crane or rigging connections. This connection point is provided for crane or rigging connection. These eyebolts are removable after delivery.

ABOVE-GROUND The following instructions are general guidelines and may not apply to your specific jobsite conditions. Owner/Contractor to provide spa support structure capable of supporting spa load /weight with water and people. Owner/contractor all plumbing, electrical, control electrical and light connection clearances as required by code. This 10” clearance is to accommodate jet and suction plumbing. This 10” clearance can change or be reduced upon request. Note: skimmer location, this area may have to be larger than 10”, if commercial 22”.

- 1) **Freeze Climates-** If the spa is to be installed into a vault (typical of freeze climates) a standard clearance from vault wall to wall of spa should be 24” or more. If limited space is available contact Nespa for options. This area around spa is for possible future access to spa plumbing in case of a freeze. Area drain or sump pump in vault is mandatory. **Ask your local installer** for his experienced opinion. Do not hesitate to call us because we want to be sure that your installation progresses as smoothly as possible. If you have questions call us. (530) 534-9910.
- 2) **Hole depth** is determined by spa’s outside height dimension. This height may vary depending on if spa has skids or no skids. The spa lip may be finished or non-finished. How is the perimeter deck elevation transitioning to the spa? Focus on the finish surrounding deck elevations, thickness of the finish material on spa upper horizontal lip, equal to lip or under the spa lip. This material can be tile, stone, concrete or brick.
- 3) **Pre-plumb:** Nespa factory installs all fittings, suctions and jets into spa before it goes into the hole. All vessels are factory water tested and plumbing is tested for 48 hours. If there are needs for electrical, bonding or control conduits run them as well before dropping in hole. Connecting a bond wire to the niche would be best practice.
- 4) **Support Pad:** Spa should sit on surface engineered to support the weight of vessel with water and people. Others to provide a level support platform. Support platform design and engineering is the responsibility of owner/contractor. Sweep debris off landing area prior to dropping in hole.
- 5) **Install spa** into the hole on top of support platform. Use the factory support lifting eye bolts provided for

crane, forklift rigging etc. Do not hold onto pipes. Use caution with suction and jet plumbing when lowering into hole. **DO NOT STRESS FITTINGS!** Fill Spa with water and check for leaks prior to backfill.

- 6) **Check site reference** points for proper spa positioning (i.e., squaring to house, garage, etc.).
- 7) **Shim to level spa.** Shim with non-compressible material. Re-square to house, or ref. point.
- 8) **Dry pack under spa support skids,** with cement, the gaps that have been created when shimming spa level.
- 9) **Connect pipes to tees** if spa is pre-plumbed. Installers should properly support your new plumbing from stressing the spas pre-plumbed fittings. After electrical conduit and bond wire is connected to light niche, water test spa before back filling with sand.

NOTE: All Nespa products are water tested prior to leaving factory.

ELECTRICAL:

- 1) All electrical connections to spa or equipment shall comply with the most recent national electrical code (NEC), state and local codes.
- 2) Connect electrical conduit to light niche. This work shall be done or reviewed by a licensed electrician.
- 3) To install a spa light you will need to include, inside the PVC conduit to the light niche, a solid #8 coated copper wire. (If you are using brass conduit, internal bond wire is not required.) This bond wire should be pulled with the light cord at the same time. This bond wire needs to be attached to the internal bonding lug of the light niche. An approved encapsulate should be applied to bond wire connection in niche.
- 4) An external #8 copper wire shall be connected to the external bonding lug on the rear of the light niche. This copper wire can then be used for additional bonding requirements (i.e., handrails or any other metallic object within 5' of the spa).

PLUMBING:

- 1) When plumbing a Nespa it is important to properly size the plumbing. We highly recommend that you follow the pump manufacturer's pipe sizing requirements and International Swimming Pool, Spas & Hot Tub Code 2021 (ISCSP 2021).
- 2) We recommend that you consult a pool professional to specify spa plumbing hydraulics.
- 3) The Nespa shells are water tested and pressure tested prior to shipping.
- 4) All plumbing inground or exterior to spa shell should be pressure tested at 35 psi (one hour minimum).
- 5) Fill spa with water and test the system for leaks.

WATERPROOFING

- 1) Waterproofing is the responsibility of owner/contractor. Waterproof Spa Vault or containment structure to have area drain. Nespa does not provide waterproof guidelines, we recommend that owner hires waterproof professionals.
- 2) If spa is free standing on elevated deck or a structure, it is important to fill spa with water and load area prior to installing coping or perimeter decking. If spa is installed in a vault situation an area drain is needed.

NESPA ENTERPRISES, Inc. LIMITED WARRANTY

This LIMITED WARRANTY covering NESPA products is extended to the ORIGINAL PURCHASER-USER BY NESPA ENTERPRISES Inc.(NESPA), 2800 Richter Ave. Unit C California 95966.

NESPA products are thoroughly inspected and tested prior to factory shipment. NESPA warrants to the ORIGINAL PURCHASER-USER that NESPA Spas and Pools will be free of defect in workmanship, accessories, and parts, provided said accessories and parts were manufactured by NESPA. NESPA, under this LIMITED WARRANTY, warrants only that its Spas and Pools shall be structurally sound, shall retain their shape, and shall retain water for the warranty period. NESPA warrants the adhesion of tile to fiberglass for a period of two (2) years (salt systems 1 year) and structural soundness for fifteen (15) years. NESPA warrants epoxy grout adhesion for a period of three (3) years. NESPA warrants factory installed plumbing for a period of two (2) years. If any such defects appear and are reported within the warranty period, NESPA shall repair or replace such defective parts without charge if an inspection proves the claim. All materials provided to Nespa and installed ie; tile, grout, lights, control center, spa side controls, pumps, and Equipment packs are warranted by the original manufacturer for one year.

The provisions of the LIMITED WARRANTY shall not apply to tile cracked, split, chipped or damaged after the product has left the factory, nor damage to tile caused by freezing nor to damage, defect, malfunction or failure to conform with the above warranty provisions where the damage, defect, malfunction or failure to conform was caused during shipment/delivery or by distributor or by unreasonable use or storage during construction by ORIGINAL PURCHASER-USER including improper water balance, cleaning, water or electrical supply to spa or surface and plumbing protection.

This LIMITED WARRANTY shall not apply to any plumbing, equipment, or installation of Spas and Pools and shall not apply to any alterations made to or upon NESPA products except alterations made by NESPA employees or NESPA authorized representatives.

This LIMITED WARRANTY is expressly in lieu of all other warranties expressed or implied including the warranties of merchantability and fitness for use and all other obligations or liabilities on NESPA'S part, and NESPA neither assumes nor authorizes any other person to assume for NESPA any other liability in connection with the sale of this NESPA product. This LIMITED WARRANTY shall not apply to this NESPA product or any part thereof which has been subject to accident, negligence, alteration, abuse or misuse. NESPA makes no warranty whatsoever with respect to accessories or parts not manufactured by NESPA.

The term "ORIGINAL PURCHASER-USER" as used in this LIMITED WARRANTY shall be deemed to mean that person for whom the NESPA product is originally installed.

The LIMITED WARRANTY provided herein and the obligations and liabilities of NESPA hereunder are exclusive and are in lieu of, and buyer and original PURCHASE-USER hereby waive all other remedies, warranties, guarantees or liabilities, expressed or implied, arising by law or otherwise (including without limitation and obligations of NESPA with respect to fitness, merchantability, and consequential damages) or whether or not occasioned by NESPA'S negligence.

This LIMITED WARRANTY shall not be extended, altered or varied except by a written instrument signed by NESPA and original PURCHASER-USER.