



**NESPA**  
TILED SPAS

# **Production Booklet**

**for**

## **4091 Redwood SPA**

2800 Richter Ave. Suite C, Oroville, CA 95965 • **voice:** (530)534-9910  
**fax:** (530)534-9915 • **email:** sales@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:**

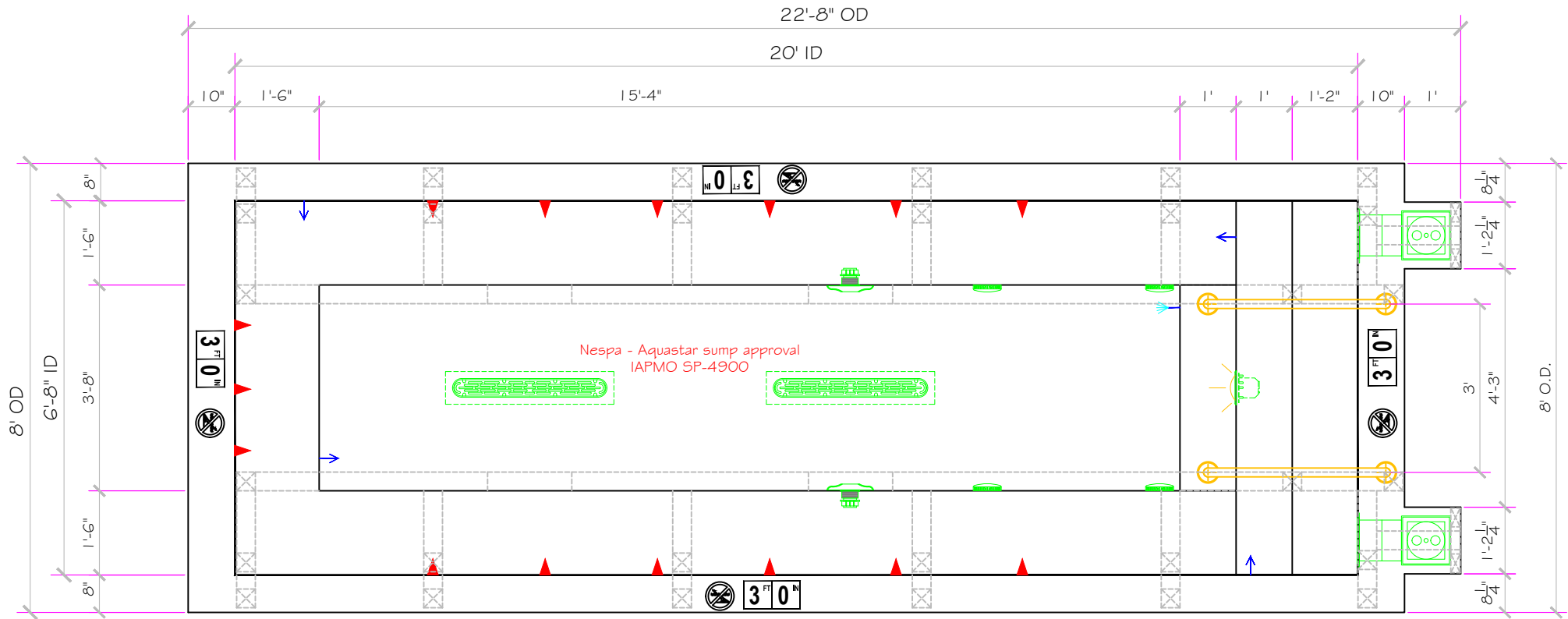
- 1) Clean filter cartridge at least once every month, or when needed; i.e., if water clarity does not improve after several days.
- 2) Keep area free and clear from leaves and debris build-up.
- 3) Keep area free and clear from flooding.

#### **D. SPA LIGHT:**

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

#### **E. TILE SERVICING:**

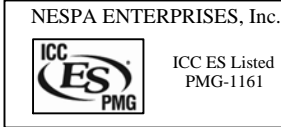
- 1) Contact manufacture when servicing tile or grout. @ (530) 534-9910



**NOTE TO: Architect, Builder or Engineer- Please consult with Nespa on shell and plumbing clearance requirements prior to construction.**

SPECIFICATIONS	
SHELL WEIGHT:	3500 LBS.
WATER WEIGHT:	19893 LBS.
TOTAL SHELL & WATER WEIGHT:	23393.1 LBS.
WATER VOLUME:	319 Cu.Ft.
WATER GALLONS:	2386 GAL.
SURFACE AREA:	133.3 SQ. FT.
ICC ES LISTED #:	PMG-1161

Approved for Commercial use  
Complies with VGB Pool & Spa Safety Act



**WATERPROOF SKID SUPPORT STRUCTURE ATTACHED TO SPA AT NESPA FACTORY**  
\*SKIDS SUPPLIED BY NESPA

**LIGHT NICHE**  
IntelliBrite 5g White LED Spa light - 100 Watt 120 Volt, U.L. APPROVED

**MAIN DRAIN**  
AquaStar 32CDFLFR, 32" Channel Drain. Approved Max Flow Rate: Floor = 236 GPM @ 3.4 fps Wall = 208 GPM @ 2.6 fps Complies w/ ANSI / ASME A112.19.8 & NSF / ANSI 16-2011

**MAIN DRAIN SUMP**  
Nespa Aquastar Approved Sump IAPMO Approval # SP4900

**SIDEWALL SUCTION**  
Paramount SDX 10" HIGH FLOW SAFETY DRAIN Area of Opening = 43,201 in<sup>2</sup> Floor = 200 GPM @ 1.485 fps Wall = 192 GPM @ 1.426 fps V.G.B Approved Safety Drain

**EQUALIZER**  
6" Round Hockey Puck AquaStar 6PPHAxxx Sumpleless Suction Outlet Floor 177 GPM Wall 122 GPM Complies w/ ANSI / ASME A112.19.8 & NSF / ANSI 16-2011

**SKIMMER**  
HAYWARD SP-1084FVE SURFACE SKIMMER W/ EQUALIZERS NSF / ANSI 50 - 2012

**JET**  
HYDRO INLETS 1-1/2" WATER - 1-1/2" AIR HYDROAIR #10-5100 COMPLIES W/ ANSI CODE ASME A112.19.8-07 UL APPROVED

**RETURN**  
INLET FITTINGS 1-1/2" WALL TYPE W/ EYEBALL HYDROAIR #10-3500 COMPLIES W/ ANSI CODE ASME A112.19.8-07 UL APPROVED

**FILL**  
INLET FITTINGS 1-1/2" WALL TYPE W/ EYEBALL HYDROAIR #10-3500 COMPLIES W/ ANSI CODE ASME A112.19.8-07 UL APPROVED

## AS-BUILT

ALL DIMENSIONS SUBJECT TO 1/4" TOLERANCES

## ICC LISTED REDWOOD MODEL

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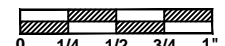
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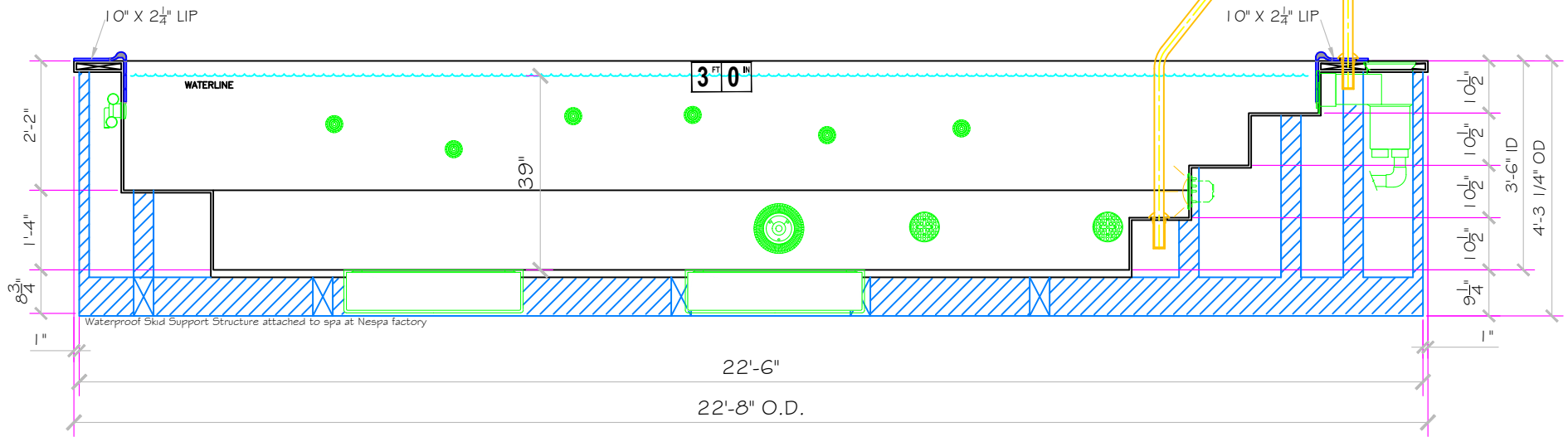
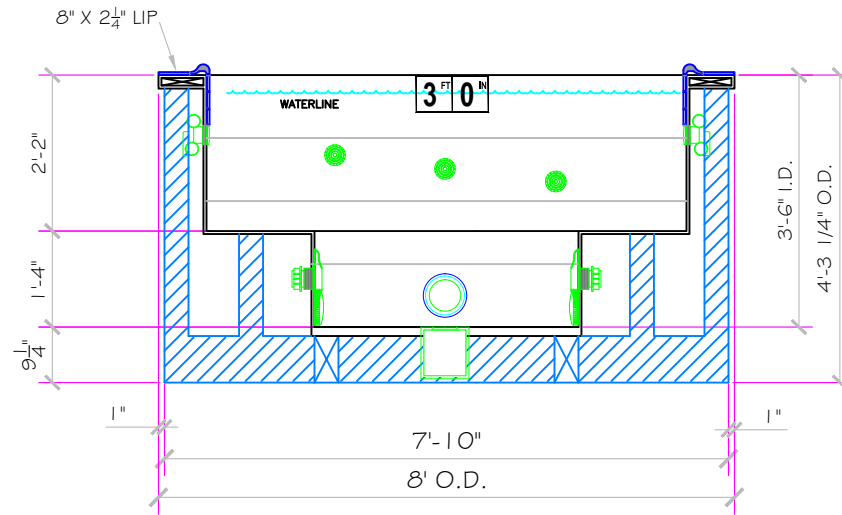
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3/8" = 1'



DWG NAME  
4091 REDWOOD

DATE  
4/25/2016

DWG TYPE  
SD  
SHEET  
PAGE 1 OF 15



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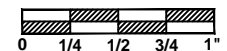
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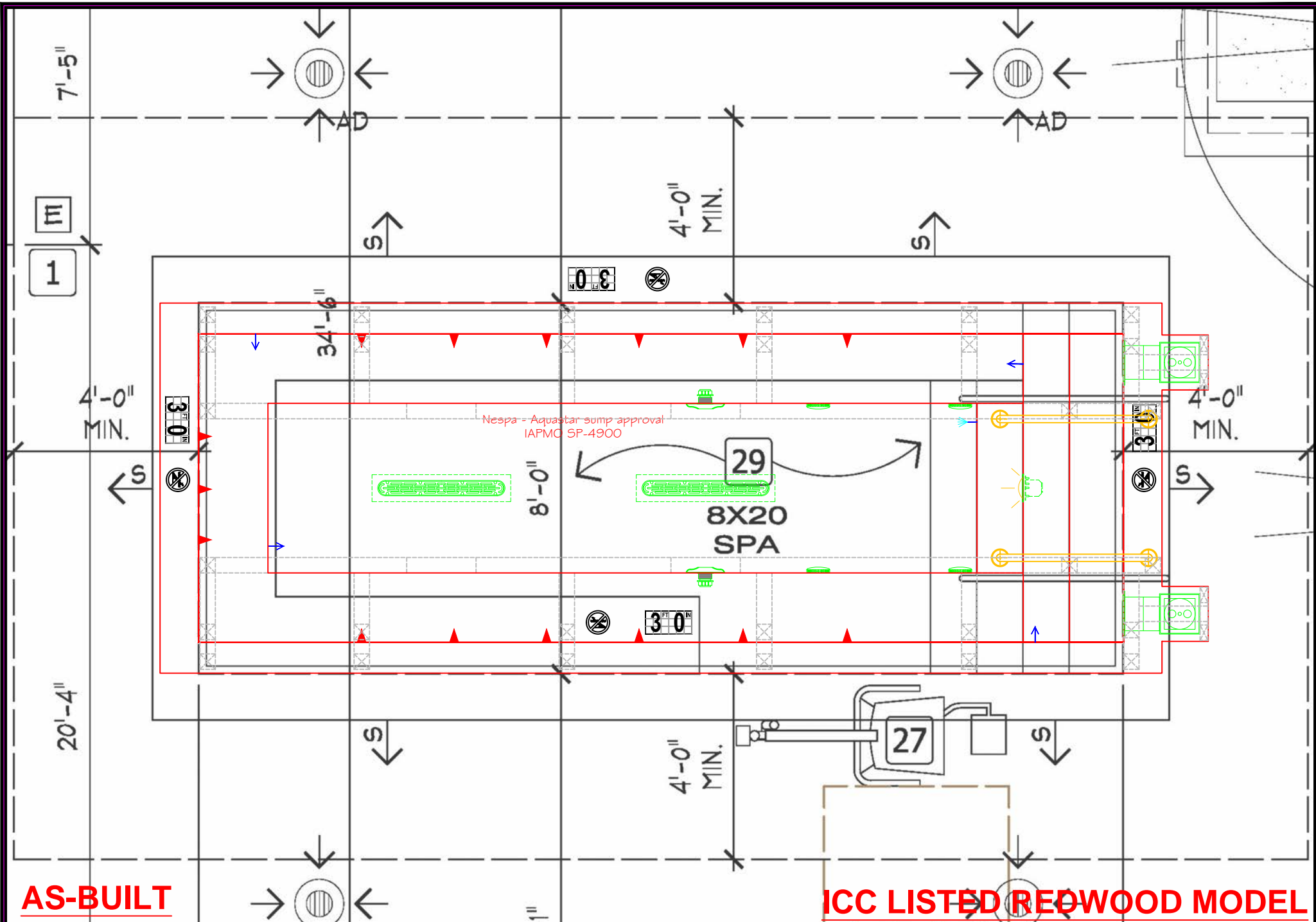
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DWG NAME  
 4091 REDWOOD

DATE  
 4/25/2016

DWG TYPE  
 Sections  
 SHEET  
 PAGE 2 OF 15



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DWG NAME 4091 REDWOOD

SCALE 3/8" = 1'  
 DATE 4/25/2016

DWG TYPE Layout  
 SHEET PAGE 3 OF 15

0 1/4 1/2 3/4 1"

- #1 - FIELD TILE: DAL TILE D617 ARCTIC WHITE
- #2 - WATERLINE (optional): NPT 3x3 Cobalt Blue M350 - Gloss Finish
- #3 - BENCH & STEP EDGES (optional): DAL TILE D023 GALAXY
- #4 - TILED LIP (optional): DAL TILE C701 - D617 ARCTIC WHITE

Date: \_\_\_\_\_

Approval: \_\_\_\_\_

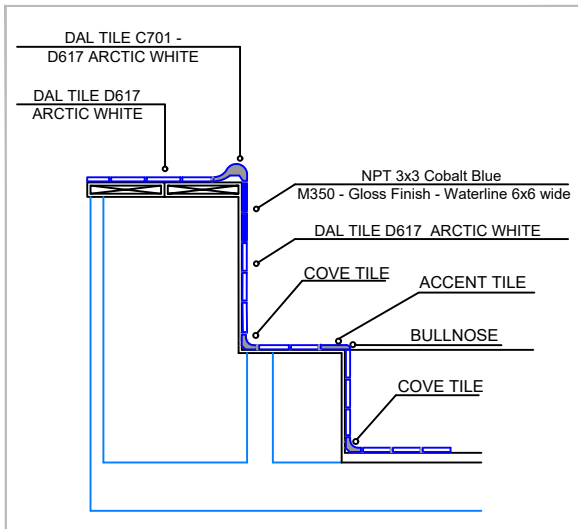
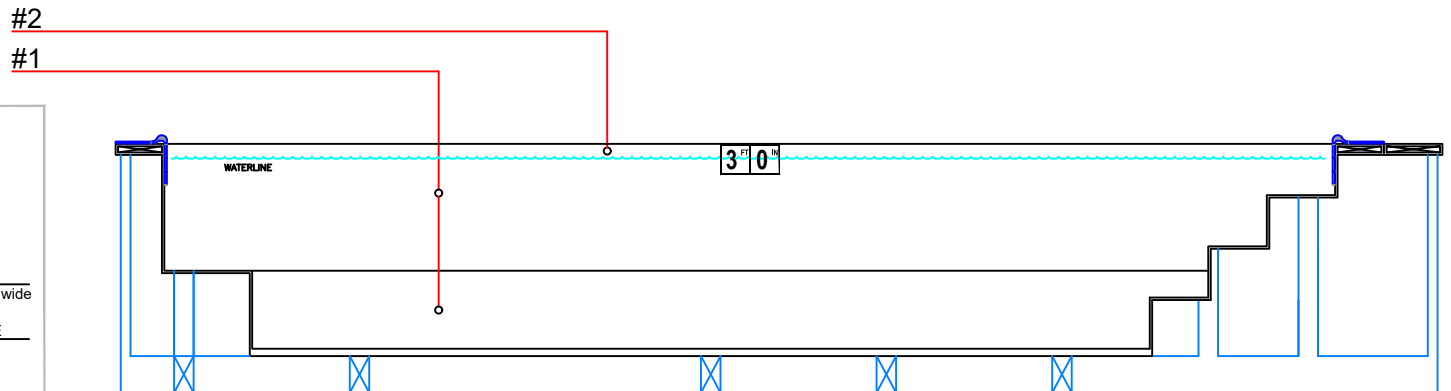
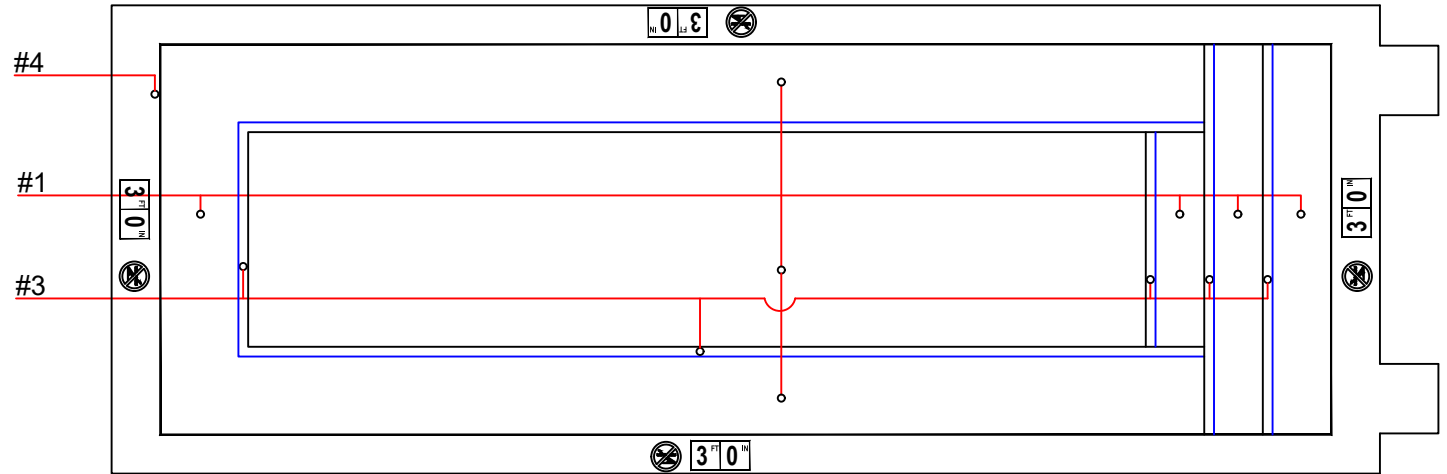
Dal Tile D617 Arctic White



Dal Tile D023 Galaxy



NPT 3x3 Cobalt Blue M350 - Gloss Finish



**AS-BUILT**

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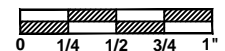


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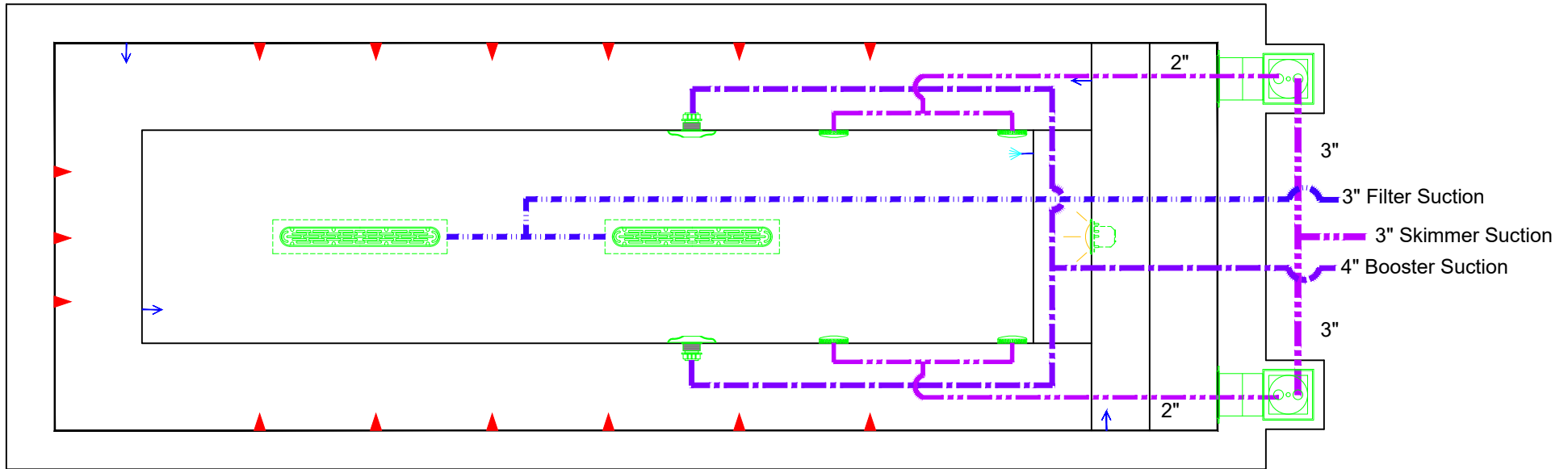


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DWG TYPE Tile  
 SHEET PAGE 4 OF 15

**NOTE:**

All Piping is  
Schedule 40 PVC



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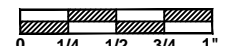


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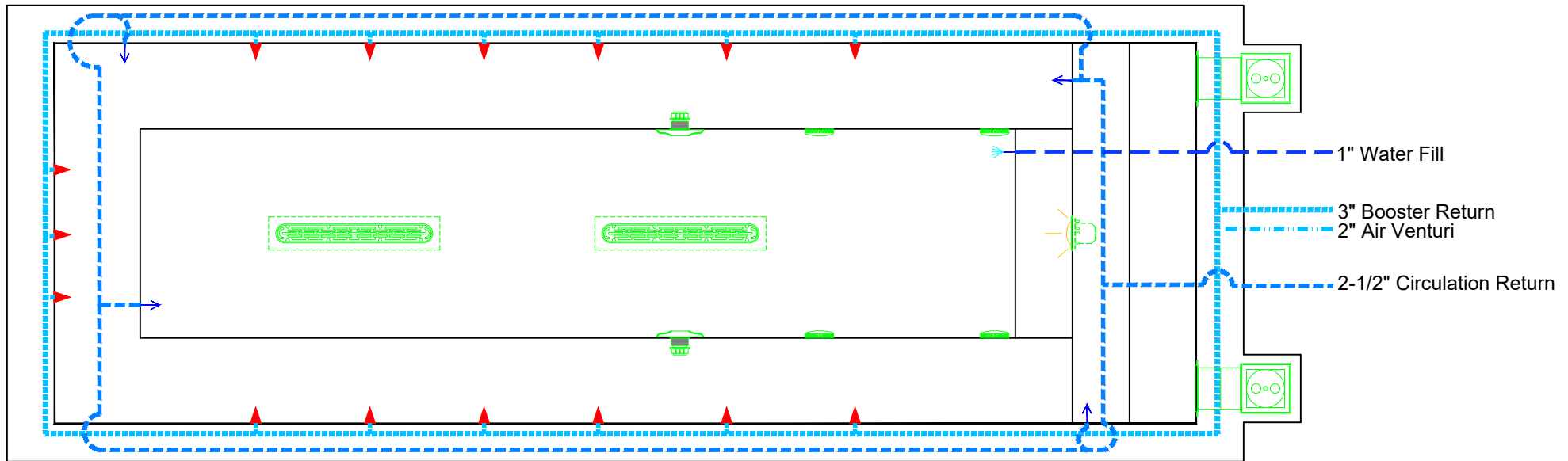


DATE  
4/25/2016

DWG TYPE  
Suction Plumbing  
SHEET  
PAGE 5 OF 15

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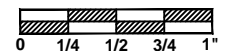


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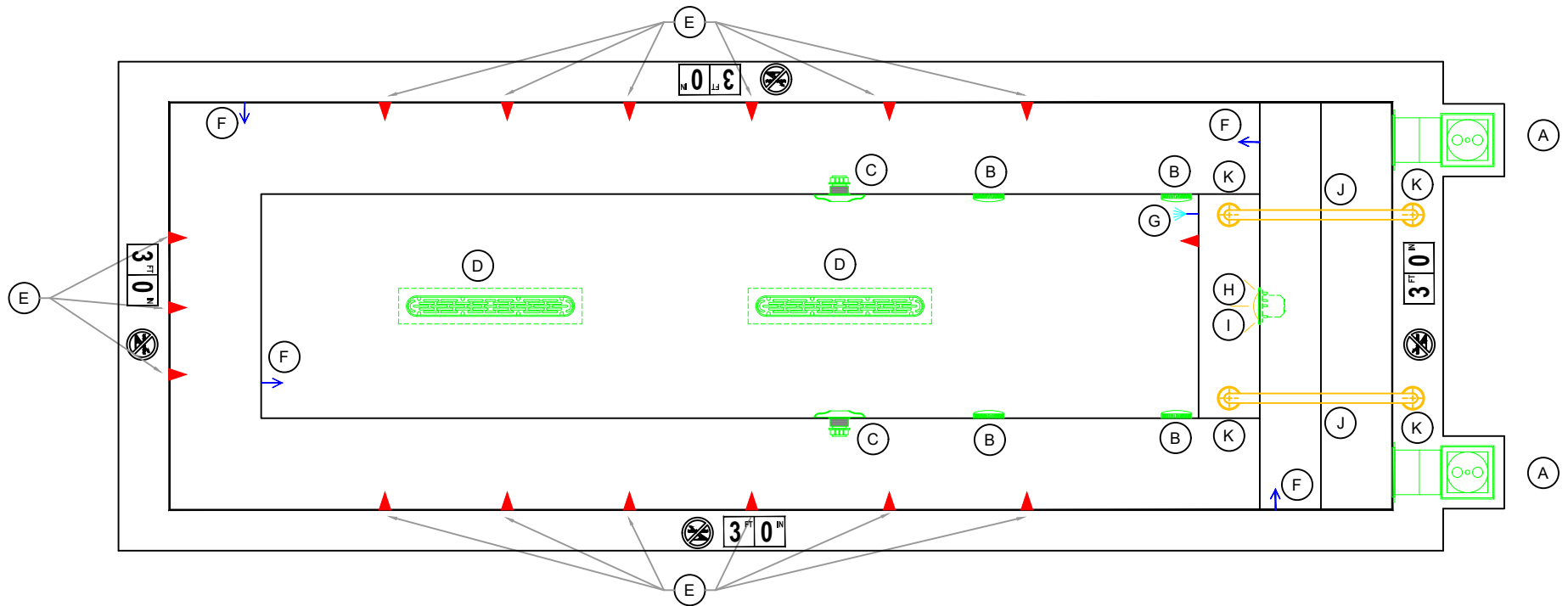
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DATE  
4/25/2016

DWG TYPE  
Return Plumbing  
SHEET  
PAGE 6 OF 15





EQUIPMENT LIST

ITEM	DESCRIPTION	MANUFACTURER	CATALOG NO.	QTY.
A	SURFACE SKIMMER - AUTOMATIC W/ EQUALIZER. NSF APPROVED	HAYWARD	SP-1084	2
B	8" Round Hockey Puck - Sumpless Suction Outlet Floor 177 GPM - Wall 122 GPM Complies w/ ANSI / ASME A112.19.8 & NSF / ANSI 15:2011	AQUASTAR	6PHAXxx	4
C	Paramount SDX 10" HIGH FLOW SAFETY DRAIN Area of Opening = 43.201 in/sq Velocity @ 200 GPM = 1.485 fps V.G.B Approved Safety Drain	PARAMOUNT	SDX10	2
D	AquaStar 32CDFLFR, 32" Channel Drain, Approved Max Flow Rate: Floor = 236 GPM @ 2.4 fps Wall = 208 GPM @ 2.8 fps V.G.B Approved Safety Drain	AQUASTAR	32CDFLFR	2
E	HYDRO JETS 1-1/2" WATER - 1-1/2" AIR COMPLIES W/ ANSI CODE ASME A112.19.8-07 UL APPROVED	HYDROAIR	10-5100	15
F	INLET FITTINGS 1-1/2" WALL TYPE W/ EYEBALL COMPLIES W/ ANSI CODE ASME A112.19.8-07 UL APPROVED	HYDROAIR	10-3500	4
G	WATER FILL 1-1/2" WALL TYPE W/ EYEBALL COMPLIES W/ ANSI CODE ASME A112.19.8-07 UL APPROVED	HYDROAIR	10-3500	1
H	Intelligence 5g White LED Spa light 120 VOLT, 100 Watt - U.L. APPROVED GC to confirm locations of JB to ensure cord length	PENTAIR	640141	1
I	LIGHT NICHE (FOR UNDERWATER LIGHT) W/ 1" HUB	PENTAIR	782423	1
J	HAND RAIL, STAINLESS STEEL, 3" - 2-1/2" LENGTH,	CUSTOM	-	2
K	WEDGE ANCHORS, BRONZE	S.R. SMITH	EP-100A	4

**AS-BUILT**

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DWG TYPE  
Spa Equipment

DWG NAME  
4091 REDWOOD

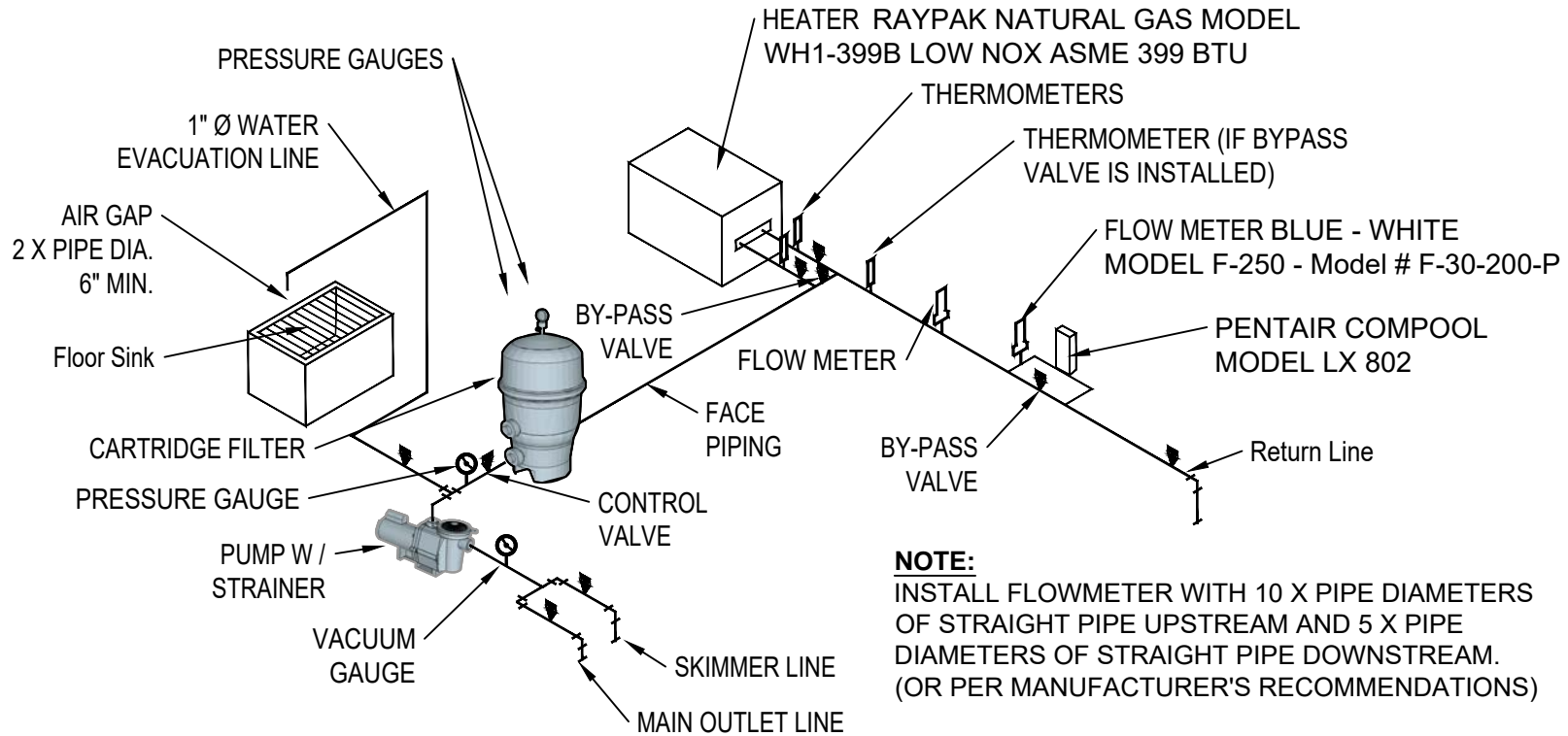
DATE  
4/25/2016

SHEET  
PAGE 7 OF 15

**NOTE:**  
PROVIDE AIR RELIEF VALVE AT HIGH POINT OF SYSTEM.

**NOTE:**  
IF HEATER IS GREATER THAN 200,000 BTU IT SHALL BE ASME CODE STAMPED & REGISTERED BY THE NATIONAL BOARD OF INSPECTORS.

**NOTE:**  
INTERLOCK CIRCULATION PUMP WITH ALL CHEMICAL FEEDERS AND HEATER IF FLOW SWITCH IS NOT PROVIDED ON HEATER.



**NOTE:**  
SIZE OF SUMP SHALL BE DETERMINED BY MECHANICAL ENGINEER.

**NOTE:**  
IDENTIFY ALL PLUMBING BY A COLOR CODE OR LABELS ON ALL PIPING & VALVES

**NOTE:**  
INSTALL FLOWMETER WITH 10 X PIPE DIAMETERS OF STRAIGHT PIPE UPSTREAM AND 5 X PIPE DIAMETERS OF STRAIGHT PIPE DOWNSTREAM. (OR PER MANUFACTURER'S RECOMMENDATIONS)

**NOTE:**  
THE SPA EQUIPMENT IS LOCATED BELOW WATER LEVEL - ADD ISOLATION VALVES ON EACH PIECE OF EQUIPMENT.

## SPA CIRCULATION EQUIPMENT SCHEMATIC

SCALE: NONE

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DWG TYPE  
Equipment Schematic

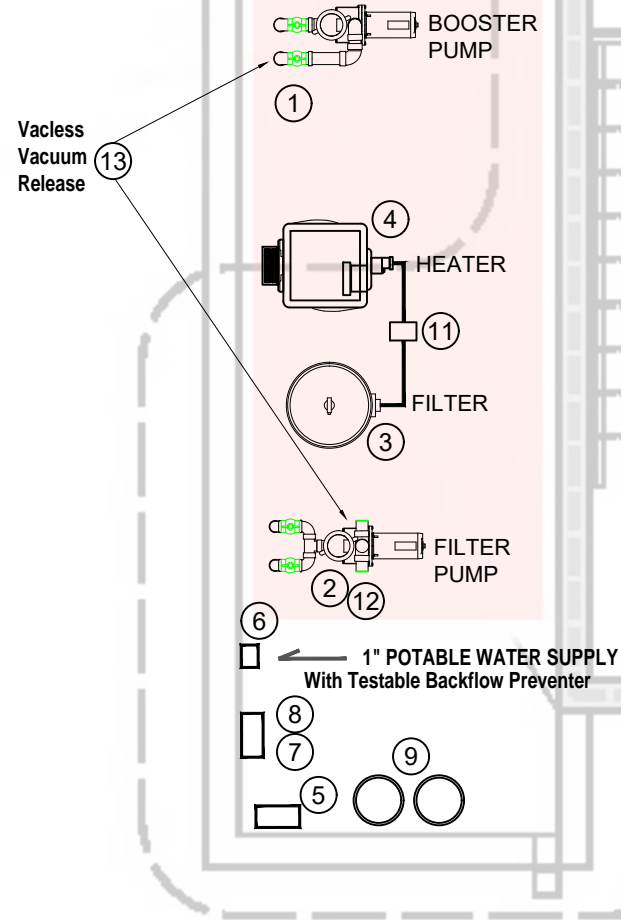
DWG NAME  
4091 REDWOOD

DATE  
3/18/2016

SHEET  
PAGE 8 OF 15

1. BOOSTER PUMP- BOOSTER PUMP-PENTAIR CHALLENGER CHII-N1-3FE - 3HP
2. CIRCULATION PUMP-PENTAIR WHISPERFLOW - 1 1/2HP MODEL WFE-6
3. FILTER AND INFLUENT PRESSURE GAUGE- PENTAIR CLEAN AND CLEAR PLUS MODEL CCP-320
4. HEATER- RAYPAK NATURAL GAS MODEL WH1-399B LOW NOX ASME 399 BTU
5. CONTROL PANEL- PENTAIR COMPOOL MODEL LX 802, With ESO and booster activation button
6. 1" POTABLE WATER SUPPLY WITH TESTABLE BACKFLOW PREVENTER
- 7&8. CHEMICAL CONTROL-PENTAIR INTELICHEM W/ 2 PUMPS - STENNER 45M2.
9. CHEMICAL TANKS - PENTAIR CHLORINE CONTAINER (521397 - 4 Gallon) AND PENTAIR ACID CONTAINER (521378 - 4 Gallon)
10. CHEMICAL TEST KIT- TAYLOR MODEL-K2000, DPD ,PH.
11. FLOWMETER- BLUE - WHITE MODEL F-250 - Model # F-30-200-P
12. VACUUM GAUGE
13. ANTI ENTRAPMENT VACUUM RELEASE, VACLESS MODEL SVRS10ADJ
14. SIGNAGE COMPLIANT WITH COUNTY OF LOS ANGELES -DEPARTMENT OF PUBLIC HEALTH ENVIRONMENTAL HEALTH-RECREATIONAL WATERS PROGRAM SWIMMING POOL PLAN APPROVAL REQUIREMENTS.

1. POOL CAPACITY SIGN
2. NO DIVING SIGN
3. NO LIFEGUARD SIGN
4. ARTIFICIAL RESPIRATION AND CARDIOPULMONARY RESUSITATION SIGN
5. EMERGENCY SIGN
6. SPA WARNING SIGN
7. EMERGENCY SHUT-OFF SWITCH SIGN
8. DIARRHEA NOTICE SIGNAGE



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SCALE 1/4" = 1'

DWG TYPE Equipment ID

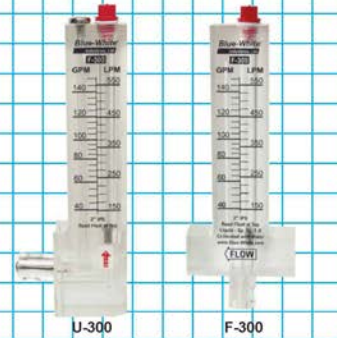
DWG NAME 4091 REDWOOD

DATE 3/18/2016

SHEET PAGE 9 OF 15

### F-300 U-300 D-300

Clamp-on Insertion Mount  
Dual GPM / LPM scale



#### Features:

- Dual GPM/LPM scale printed on both sides of the meter.
- 1" through 8" pipe sizes.
- Flow rates from 2 to 1900 GPM (8 to 7200 LPM).
- Corrosion resistant 316SS or PTFE internal float materials.
- One piece machined acrylic body.
- Mounts to existing pipe. No unions or adapters required.
- Models for mounting on horizontal or vertical pipe.
- Mounting clamps and gasket included.

#### Specifications:

Pipe Requirements: ..... IPS inch pipe size (ASTM-D-1785)  
 Max. Psi (bar): ..... 150 PSI (10.3 bar) @ 70° F (21° C)  
 Fluid temp. range: ..... 32° to 110° F / 190° F (88° C) @ 0 PSI  
 Ambient temp. range: ..... 32° to 110° F / -10° to 43° C  
 Note: Temperature & Pressure ratings of meter only. Actual pipe rating may vary.

Full scale accuracy: ..... +/- 10%  
 Power requirement: ..... No power required  
 Enclosure: ..... NEMA 4X (IP56)  
 Approximate shipping wt: ..... 1"-4" units: 1 lb. (.45 kg)  
 ..... 6"-8" units: 2 lb. (.91 kg)

#### Materials of Construction:

Meter Body: ..... Cast Acrylic  
 Float: ..... Standard range models = 316SS  
 Low range models = PTFE  
 Gasket: ..... Neoprene  
 Pipe Clamp: ..... 300 series Stainless Steel  
 Pitot screw: ..... 1" thru 2" models only. 300 series stainless steel

#### Installation Requirements:

##### Minimum Straight Pipe Length Requirements

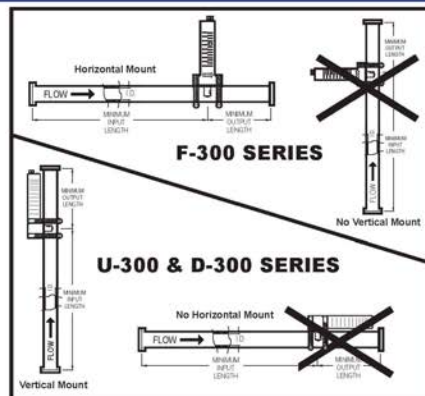
The meter's accuracy is affected by disturbances such as pumps, elbows, tees, valves, etc., in the flow stream. Install the meter in a straight run of pipe as far as possible from any disturbances. The distance required for accuracy is 10 times the nominal pipe diameter before the meter and 4 times the nominal pipe diameter after the meter.

##### Example of Minimum Straight Pipe Length Requirements

Nominal Pipe Diameter	Minimum Inlet Pipe Length	Minimum Outlet Pipe Length
3 inch	30 inch (10 X 3')	12 inch (4 X 3')
1-1/2 inch	15 inch (10 x 1.5')	6 inch (4 x 1.5')
6 inch	60 inch (10 x 6')	24 inch (4 x 6')

##### Mounting location

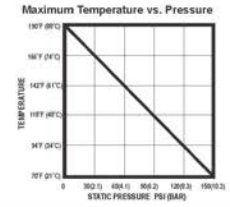
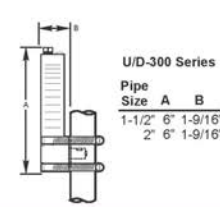
- The meter is designed to withstand outdoor conditions.
- F series meters must be mounted at the vertical (twelve o'clock) position on horizontal pipe only.
- U & D series meters must be mounted on vertical pipe only.
- The pipe must be completely full of water at all times.
- See the minimum straight length of pipe requirement chart above.
- The meter can accurately measure flow from one direction only.
- U-series meters measure upward flows only.
- D-series meters measure downward flows only.



#### Dimensions:

F-300 Series

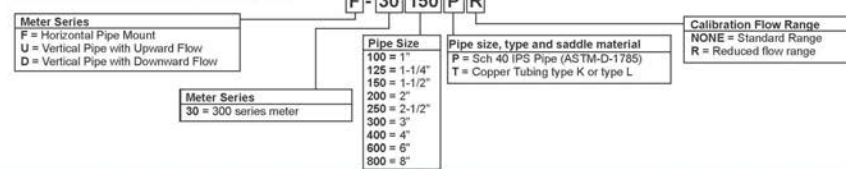
Pipe Size	A	B
1"	6"	2-7/16"
1-1/4"	6"	2-7/16"
1-1/2"	6"	2-7/16"
2"	6"	2-7/16"
2-1/2"	6"	2-7/16"
3"	6"	2-7/16"
4"	6"	2-7/16"
6"	7-1/2"	2-7/16"
8"	7-1/2"	2-7/16"



#### Flow Stream Requirements:

Low viscosity fluids with a specific gravity of 1.0.

#### Model Number Matrix:



#### Pipe Size, Flow Range and Display Model Options:

Models for Mounting on Horizontal Pipe  
 Models for U.S. IPS Sch40 Pipe (ASTM 1785)  
 Display in U.S. Gallons and Liters per Minute  
 Models for Copper Tubing types K & L  
 Display in U.S. Gallons and Liters per Minute

Pipe Size	GPM Flow Range	LPM Flow Range	Model Number
1"	5 to 35	20 to 140	F-30100P
1-1/4"	5 to 35	30 to 130	F-30125P
1-1/2"	9 to 30	30 to 110	F-30150P
2"	15 to 70	60 to 280	F-30200P
2-1/2"	60 to 240	225 to 900	F-30250P
3"	80 to 300	300 to 1125	F-30300P
3"	40 to 140	160 to 520	F-30300PR
4"	125 to 500	550 to 2000	F-30400P
6"	250 to 1050	900 to 3900	F-30600P
8"	500 to 1900	2000 to 7200	F-30800P

Pipe Size	GPM Flow Range	LPM Flow Range	Model Number
1"	5 to 35	20 to 140	F-30100T
1-1/4"	5 to 35	30 to 130	F-30125T
1-1/2"	9 to 30	30 to 110	F-30150T
2"	15 to 70	60 to 280	F-30200T
2-1/2"	60 to 240	225 to 900	F-30250T
3"	80 to 300	300 to 1125	F-30300T
3"	40 to 140	160 to 520	F-30300TR
4"	125 to 500	550 to 2000	F-30400T
6"	250 to 1050	900 to 3900	F-30600T
8"	500 to 1900	2000 to 7200	F-30800T

Models for Mounting on Vertical Pipe  
 Models for U.S. IPS Sch40 Pipe (ASTM 1785)  
 Display in U.S. Gallons and Liters per Minute

Pipe Size	GPM Flow Range	LPM Flow Range	Flow Direction	Model Number
1-1/2"	20 to 100	75 to 375	UP	U-30150P
1-1/2"	20 to 100	75 to 375	DOWN	D-30150P
1-1/2"	9 to 30	30 to 120	UP	U-30150PR
1-1/2"	9 to 30	30 to 120	DOWN	D-30150PR
2"	40 to 150	150 to 550	UP	U-30200P
2"	40 to 150	150 to 550	DOWN	D-30200P
2"	18 to 70	70 to 280	UP	U-30200PR
2"	18 to 70	70 to 280	DOWN	D-30200PR

Pipe Size	GPM Flow Range	LPM Flow Range	Flow Direction	Model Number
1-1/2"	20 to 100	75 to 375	UP	U-30150T
1-1/2"	20 to 100	75 to 375	DOWN	D-30150T
1-1/2"	9 to 30	30 to 120	UP	U-30150TR
1-1/2"	9 to 30	30 to 120	DOWN	D-30150TR
2"	40 to 150	150 to 550	UP	U-30200T
2"	40 to 150	150 to 550	DOWN	D-30200T
2"	18 to 70	70 to 280	UP	U-30200TR
2"	18 to 70	70 to 280	DOWN	D-30200TR

Blue-White Industries, Ltd. 5300 Business Drive, Huntington Beach, CA 92649  
 Tel: 714-893-8529 Fax: 714-894-9492  
 www.blue-white.com Email: sales@blue-white.com

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 Technical data sheet #B5000-071 rev 01/11/2013

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Page Scaling: None

SCALE

N/A

DWG TYPE

Flowmeter

DWG NAME

4091 REDWOOD

DATE

3/18/2016

SHEET

PAGE 1 OF 1



**New Product Announcement**

7.26.11 Dealer Announcement

# IntelliChem™ Chemical Controller



Introducing a hands-free, automated pool chemical management system

**new!**

Attention pool professionals! The IntelliChem™ chemical controller automatically monitors pool pH and sanitizing levels and delivers just the right amount of chemicals. IntelliChem™ can work independently or in conjunction with other Pentair automation products. It's built-in Langelier Saturation Index calculator lets pool owners know when the water is in or out of balance. IntelliChem™ uses the same technology found in commercial installations, water parks, hotel and community pools.



**new!**

## IntelliChem™ Chemical Controller

IntelliChem™ Chemical Controller features include:

- Auto Setup/Configuration wizard makes start-up quick and easy.
- Programmable chemical feed cycle and mix times for precise water balance.
- Assures safe water conditions by preventing excess chemical addition.
- Built-in Langelier Saturation Index calculator lets you know when your water chemistry is perfectly in or out of balance.
- Minimizes chemical costs by adding chemicals with precision.
- Flow sensor ensures chemicals won't feed without system flow.
- Password-protected access prevents tampering or accidental program change.
- Seamless interface with IntelliTouch, EasyTouch, SunTouch and ScreenLogic2 automation systems for superior chemical management.
- Compatible with IntelliChlor® salt chlorine generators, external dosing pumps, and CO<sub>2</sub> systems.

Ordering information is listed below for your convenience.

Part Number	Description	Application	Weight (Lbs.)	Dimensions	UPC Number
521357	IntelliChem with no pumps	For systems using external feed pumps, IntelliChlor, or CO <sub>2</sub> . Containers ordered separately.	28 lbs.	22.3/8" x 13.3/4" x 8.1/4"	788379807009
521489	IntelliChem with 1 pump	For systems using IntelliChlor and muriatic acid. Containers ordered separately.	29 lbs.	22.3/8" x 13.3/4" x 8.1/4"	788379848286
521356	IntelliChem with 1 pump (with acid container)	For systems using IntelliChlor and muriatic acid. Includes 4 gallon acid container.	29 lbs.	24" x 24" x 16"	788379807016
521355	IntelliChem with 2 pumps	For systems using liquid chlorine and muriatic acid. Containers ordered separately.	30 lbs.	22.3/8" x 13.3/4" x 8.1/4"	788379807023
521378	Acid Container (4 gallons)	Convenient and innovative container for storing muriatic acid.	12 lbs.	14" x 14" x 22"	788379807030
521397	Chlorine Container (4 gallons)	Convenient and innovative container for storing liquid chlorine.	12 lbs.	14" x 14" x 22"	788379807047
714000070	CO <sub>2</sub> Kit w/Diffuser, Solenoid, Regulator	Must use with CO <sub>2</sub> tanks to lower pH levels.	6 lbs.	12" x 12" x 6"	788379743741

**Sales Support Literature**

IntelliChem literature can be ordered by referencing Part # PI-115

**To order literature:**

- Visit [www.pentairpartners.com](http://www.pentairpartners.com)
- E-mail: [pool.literature@pentairwater.com](mailto:pool.literature@pentairwater.com)
- Phone: 1.800.693.0171
- Fax: 1.866.741.4051



Part # PI-115

If you have any questions, please do not hesitate to contact your Pentair Water Pool and Spa Representative or email [pentair.marketing@pentair.com](mailto:pentair.marketing@pentair.com).



Phone: 800-831-7133  
[www.pentairpool.com](http://www.pentairpool.com) • [www.staritepool.com](http://www.staritepool.com)

7/11 Part # PS-606  
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Chemical Tank

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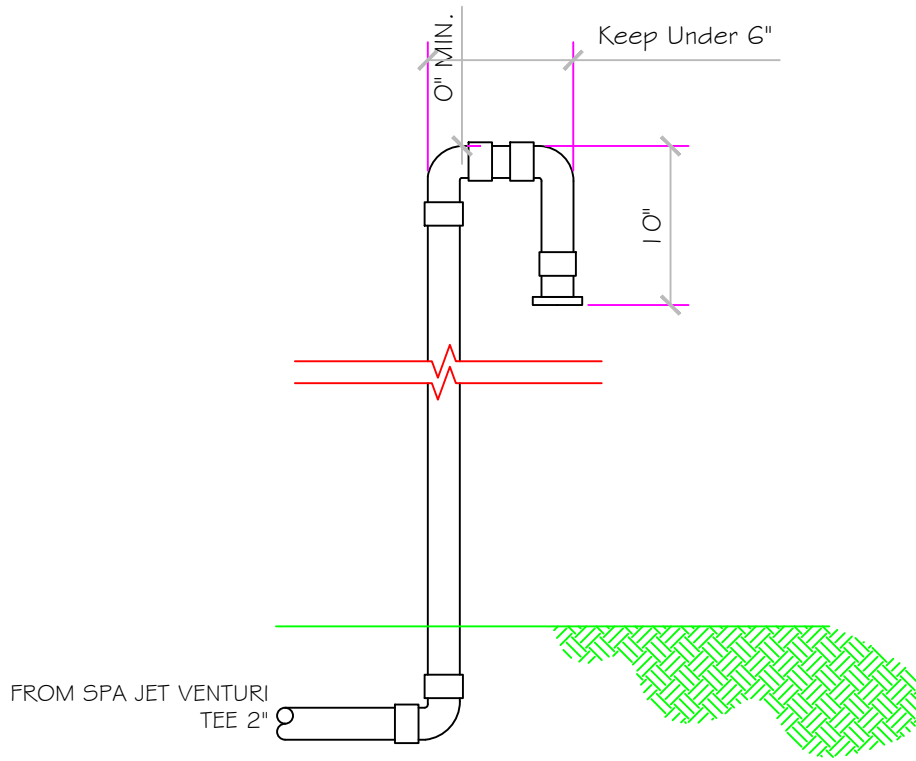
4091 REDWOOD

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PAGE 1 OF 1



# AIR SUPPLY LOOP DETAIL

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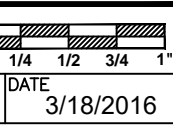
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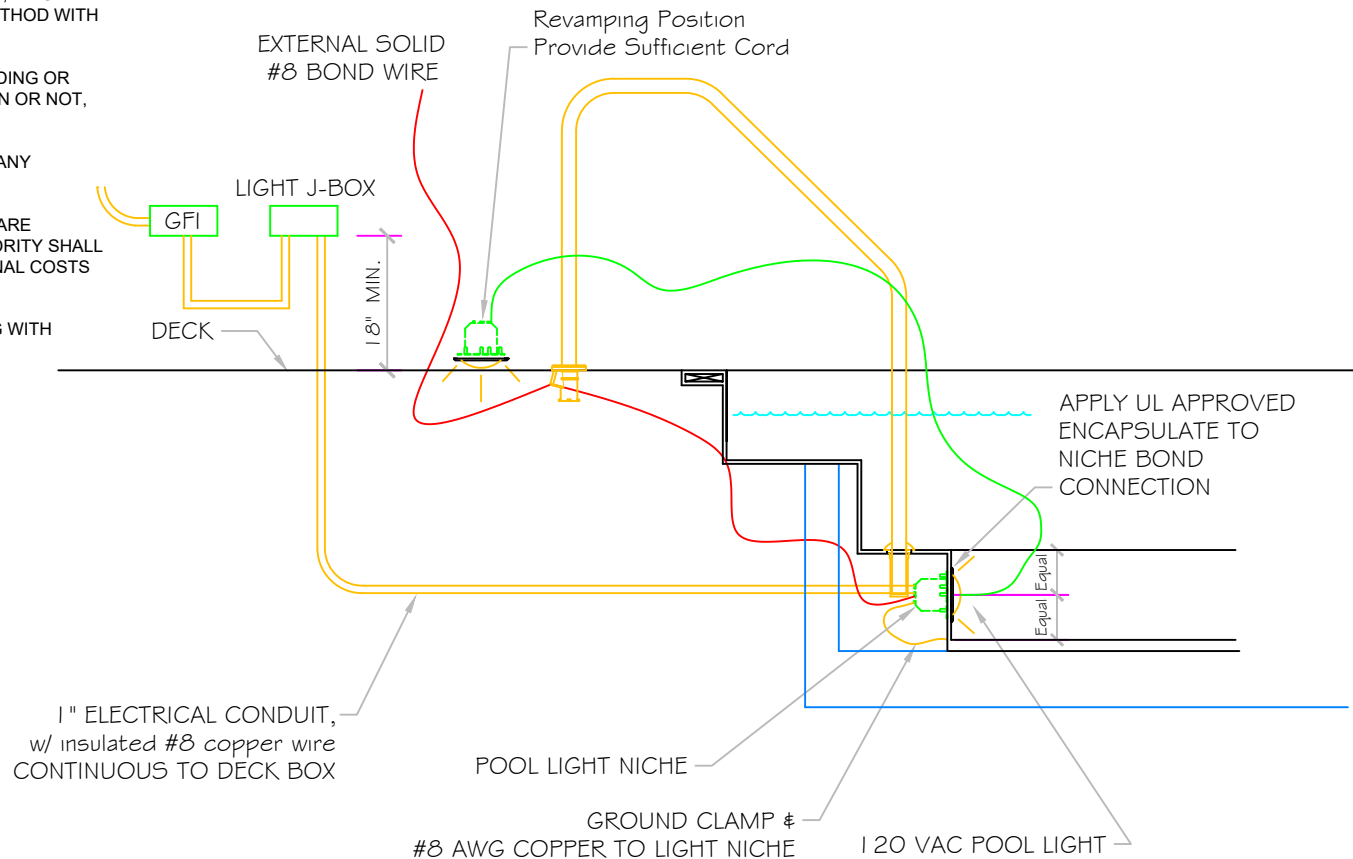
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 SHEET: PAGE 11 OF 15

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## POOL BONDING REQUIREMENTS:

1. THE FOLLOWING PARTS SHALL BE BONDED TOGETHER AND CONNECTED TO THE COMMON BONDING GRID.
  - A. ALL THE METALLIC PARTS OF THE POOL STRUCTURE INCLUDING COPPING STONES, DECK, PERMANENT PLAY STRUCTURES, PERMANENT EXERCISE STRUCTURES.
  - B. ALL METAL FITTINGS WITHIN OR ATTACHED TO THE POOL STRUCTURE
  - C. METAL PARTS ASSOCIATED WITH THE POOL WATER CIRCULATING SYSTEM, INCLUDING PUMPS, FILTERS, AND HEATERS.
  - D. METAL PARTS ASSOCIATED WITH POOL COVERS
  - E. METAL SHEATHED CABLES AND RACEWAYS, METAL PIPING AND ALL FIXED METAL PARTS WITHIN 5 FEET HORIZONTALLY OF INSIDE WALLS OF POOL AND WITHIN 12 FEET ABOVE MAXIMUM WATER LEVEL OF POOL.
  - F. METAL PARTS ASSOCIATED WITH OBSERVATION STANDS, TOWERS, PLATFORMS, AND DIVING STRUCTURES.
2. BONDING CONDUCTORS SHALL BE MINIMUM #8 SOLID COPPER, INSULATED E.C. SHALL COORDINATE APPROVED CONNECTOR TYPE AND METHOD WITH LOCAL ELECTRICAL AND/ OR POOL INSPECTOR.
3. SPECIFIC MANUFACTURER'S INSTRUCTIONS REGARDING BONDING OR GROUNDING OF POOL EQUIPMENT, WHETHER INDICATED HEREIN OR NOT, SHALL BE STRICTLY FOLLOWED.
4. THE COMMON BONDING GRID SHALL NOT BE CONNECTED TO ANY ELECTRICAL DISTRIBUTION EQUIPMENT.
5. ANY PARTS IN ADDITION TO THOSE DESCRIBED HEREIN THAT ARE INDICATED BY POOL CONTRACTOR OR LOCAL INSPECTION AUTHORITY SHALL BE BONDED TO THE COMMON BONDING GRID WITH NO ADDITIONAL COSTS INCURRED BY THE OWNER.
6. THE ELECTRICAL CONTRACTOR SHALL COORDINATE BONDING WITH GENERAL CONTRACTOR.

## LIGHT DETAIL



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Light Detail

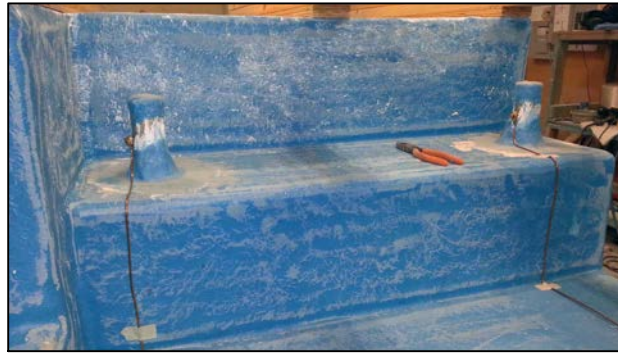
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DATE  
3/18/2016

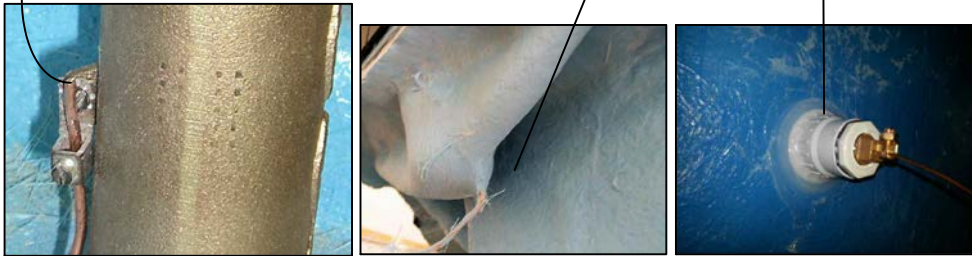
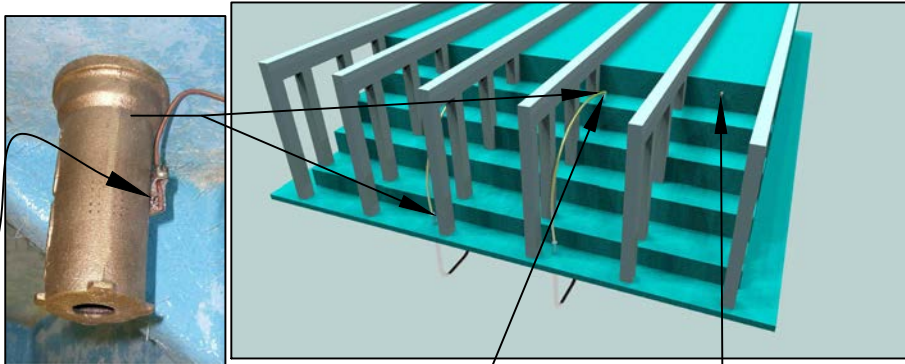
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PAGE 12 OF 15

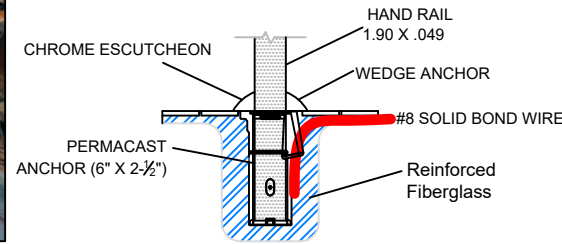
# BONDING DETAIL



Typical Cup  
Anchor



## TYPICAL NESPA SHELL CUP Anchor Installation



**NOTE:**

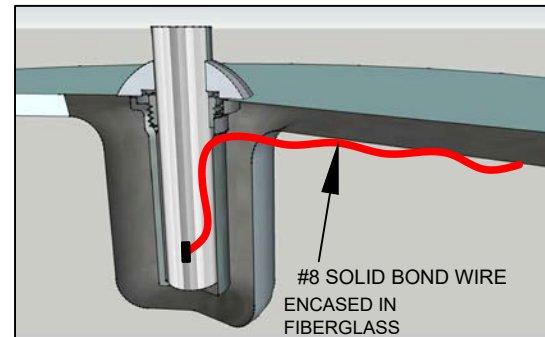
DETAIL REFLECTS ANCHOR INSTALLATION IN NESPA SHELLS ONLY.

CUP ANCHOR SHALL BE BONDED WITH A SOLID #8 COPPER BOND WIRE AND VERIFIED BY A CALIFORNIA LICENSED ELECTRICAL CONTRACTOR.

BOND WIRE WILL BE ENCASED AND COVERED IN FIBERGLASS TO PREVENT WATER LEAKAGE THRU SHELL.

BOND WIRE SHALL EXIT AT EDGE OF SPA AND ATTACH TO DECK BONDING GRID.

**1** Anchor  
Detail



**PERMACAST** Swimming Pool Products  
1871 Aspen Circle • Pueblo, Colorado 81008 • Phone 719-544-9544

**PS-6019-BC  
6 Inch Big Boy Socket**

Parts List	
QTY	Description
1	PS-6019-BC Socket Bronze
1	PW-4C Wedge
1	Stainless Steel Washer
1	5/16-18 X 1-3/4" SS Bolt
1	10-24 x 3/8" Brass Screw

- 6" Deep Socket
- Accommodates 1 5/8" OD Tubing
- Uses PW-4C Wedge
- Includes Wedge, Washer, Bolt and Bonding Screw

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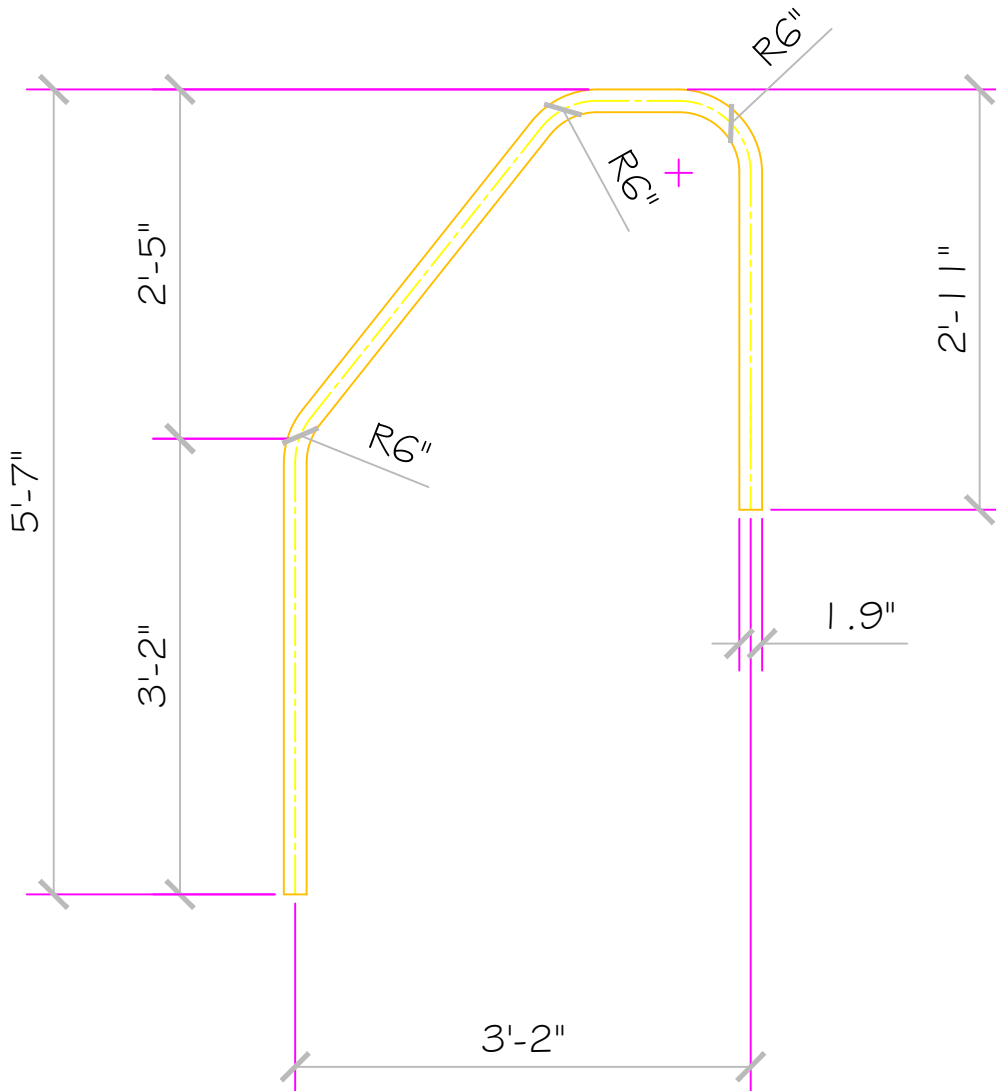
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4091 REDWOOD

DATE  
3/18/2016

DWG TYPE  
Bonding Detail

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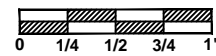


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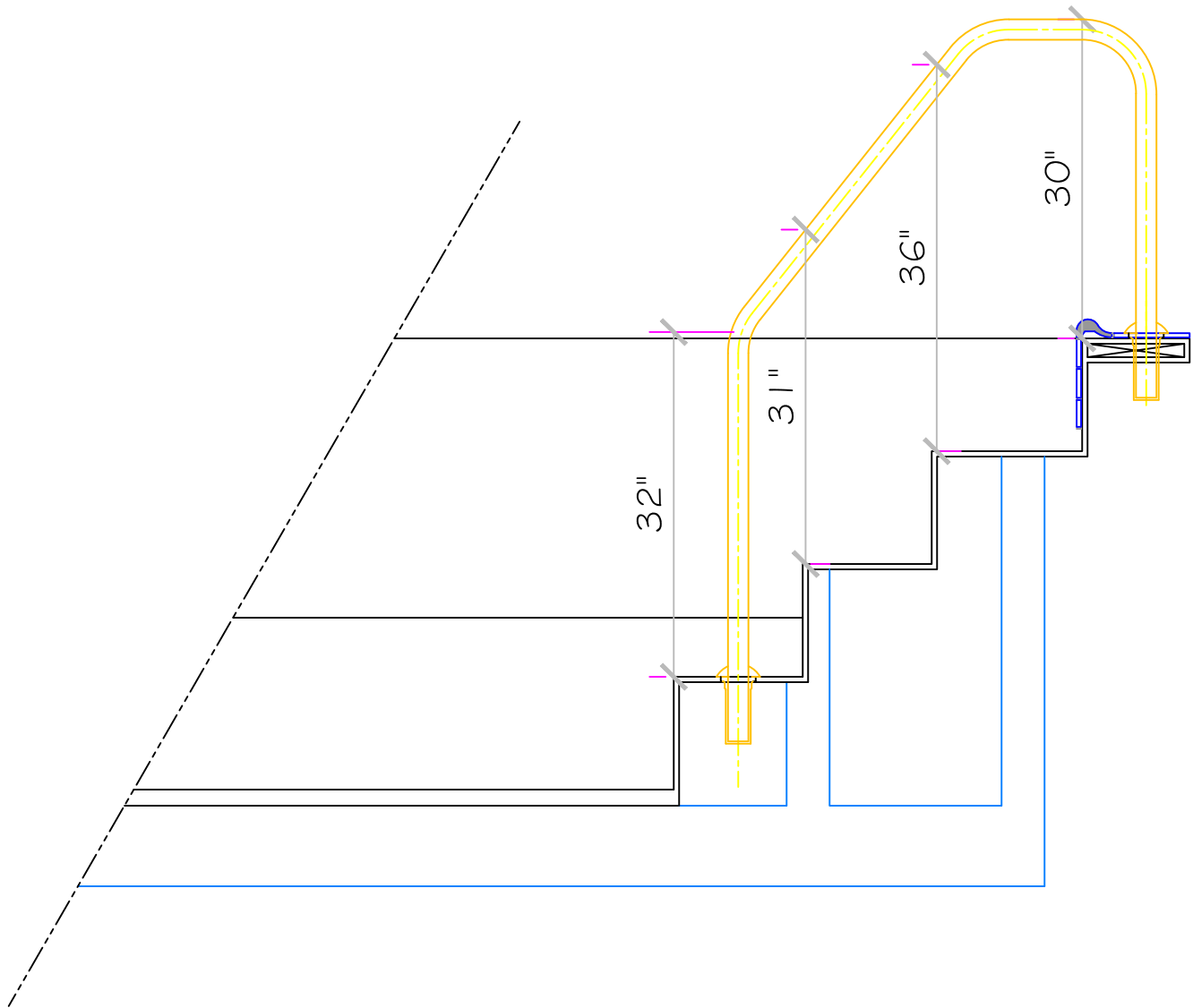


DATE 4/25/2016

DWG TYPE

Handrail

SHEET PAGE 14 OF 15



**AS-BUILT**

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DWG TYPE

Handrail Detail

DWG NAME

4091 REDWOOD

DATE

4/25/2016

SHEET

PAGE 15 OF 15

**STANDARD NESPA  
IN-GROUND INSTALLATION  
INSTRUCTIONS  
SET-UP AND EXCAVATION**

**Prerequisites:** Before installing your Nespa spa. You may be required to acquire a permit from your local State, County, and City building dept and or Health department. (Commercial jobs need Health Dept. Approval). Your spa installation must comply with the most current codes. ( **Uniform Swimming Pool, Spas & Hot Tub Code 2006 ( USPC 2006)**).

**Spa drawings:** Request from Nespa a current spa specific construction detail, plan and section, spa plumbing detail.

**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.

- 1) The following instructions are general guidelines and may not apply to your specific jobsite conditions. When excavating for your spa remember to provide for plumbing and light connection clearances. In order to determine how to excavate for your spa or swim spa, measure spas outside dimension ( O.D.) and add minimum 3” to all sides. This 3” clearance is to accommodate jet and suction plumbing. This 3” clearance can change or be reduced upon request. Note: skimmer location, this area may have to be larger than 3”, if commercial 22”.
- 2) **Freeze Climates-** If the spa is place into a vault (typical of freeze climates) a standard 18” or more of clearance minimum from spa perimeter should be provided. This dead air space is for possible future access to spa plumbing in case of a freeze. Area drain 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. (888) 479-4677.
- 2) **Hole depth** is determined by spa’s outside height dimension. This height may vary depending 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) **Preplumb** the spa before it goes into the hole. If there are needs for electrical , bonding or control conduits run them as well before dropping in hole. Connect bond wire to niche would be best.
- 4) **Spa should sit on level 3 ½” thick reinforced concrete pad. Sweep debris off pad prior to dropping in hole.**
- 5) **Install spa** into the hole on top of concrete pad. Use the Eye bolts provided for crane, forklift etc. rigging. 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-compression able material. Re square to house, or ref. point.
- 8) **Dry pack** with cement the gaps that have been created when shimming spa level.
- 9) **Connect pipes to tees** if spa is preplumb. Installers properly support your new plumbing from stressing spas preplumb 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 should comply with the most recent national electrical code (NEC), state and local codes.
- 2) Connect electrical conduit to light niche. This work should be done or reviewed by a licensed electrician.
- 3) To install spa light you will need to include inside the PVC conduit to the light niche a solid #8 coated copper wire. (If you are use 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 Uniform Swimming Pool, Spas & Hot Tub Code 2006 ( USPC 2006). This code book is available at [www.JAPMO.org](http://www.JAPMO.org) or (909) 472 4100.**
- 2) The jet air venturi should be a Hartford loop design adjacent to spa shell and air entry point can be located next to spa or remotely at equipment.
- 3) Fill spa with water and test the system for leaks PRIOR to backfilling with sand.

### **SAND BACK FILL:**

- 1) **With water in spa, back-fill around spa perimeter with dry plaster sand and wet wash with hydraulic attachment to hose. Let set for one hour and hydraulic dry again. Be sure water level in spa is at the highest level. Any questions please call us. ( 888) 479-4677.**
- 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 a area drain is needed.**

**NESPA ENTERPRISES INC.**

2800 Richter Ave. Suite E

Oroville, CA 95966

Office: (888) 479-4677 Fax: (530) 534-9915

E-Mail: nespa@pacbell.net www.tiledspas.com

**IN-GROUND**

**INSTALLATION**

\*ALL DIMENSIONS SUBJECT TO 1/4" TOLERANCES\*

SCALE: 1/2" = 1'-0"

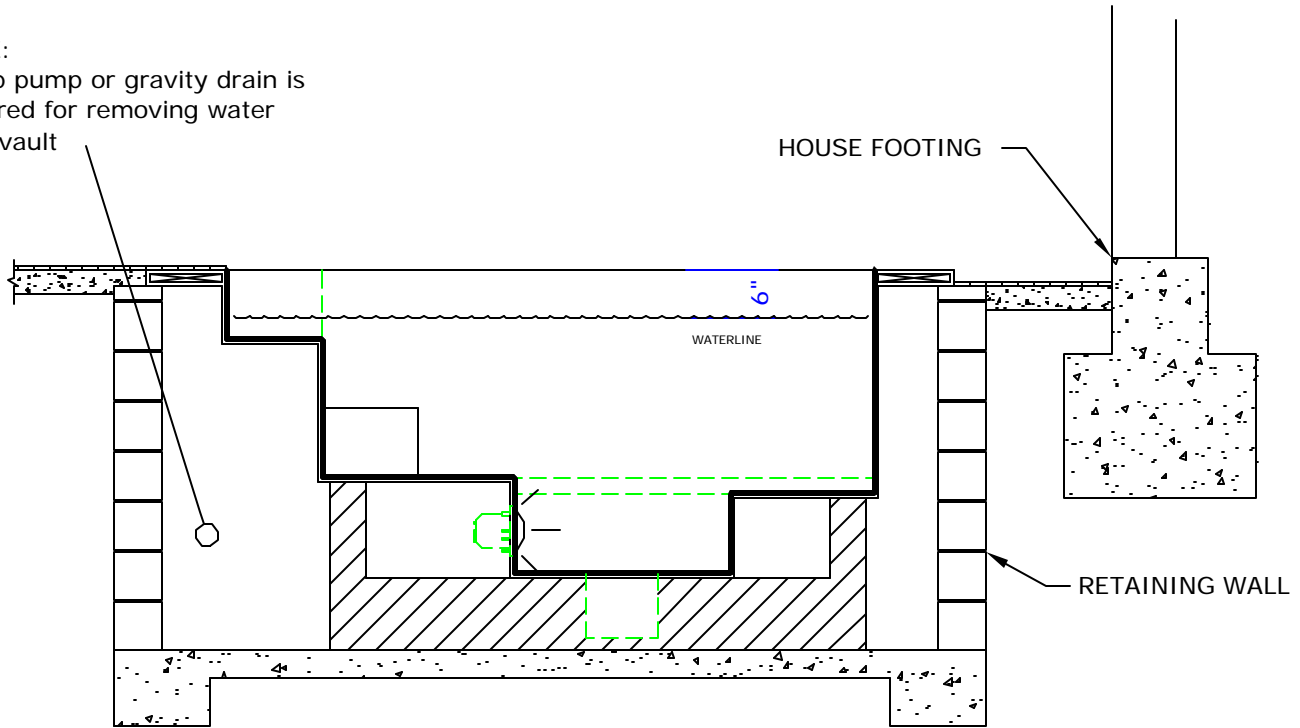
DATE: 3/27/02

JOB : STANDARD INSTALL

DW #: SI-1, SI-2

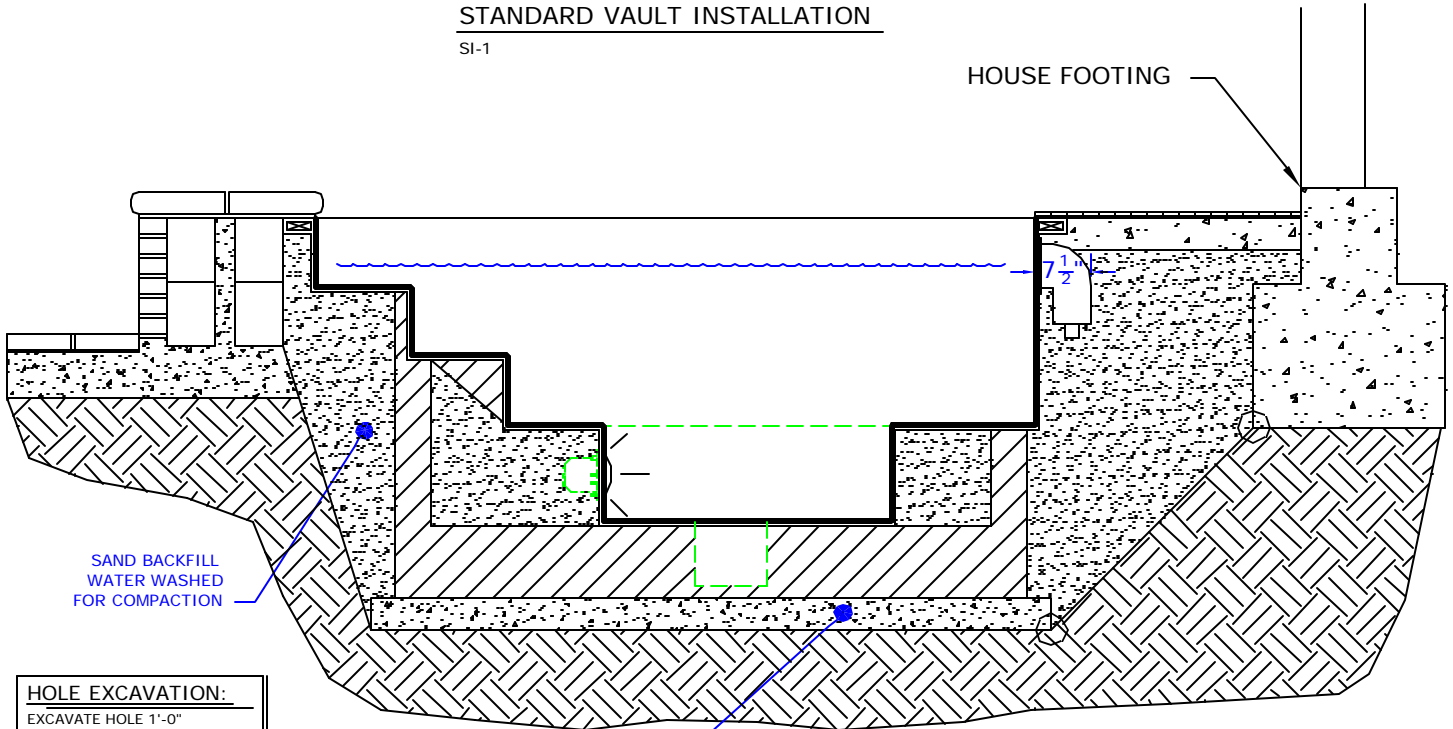
**NOTE:**

Sump pump or gravity drain is required for removing water from vault



**STANDARD VAULT INSTALLATION**

SI-1



**HOLE EXCAVATION:**

EXCAVATE HOLE 1'-0" LARGER THAN THE OUTSIDE DIAMETER (OD) OF SPA

4" CONCRETE SLAB REINFORCED WITH #10 MESH

**STANDARD INGROUND INSTALLATION**

SI-2

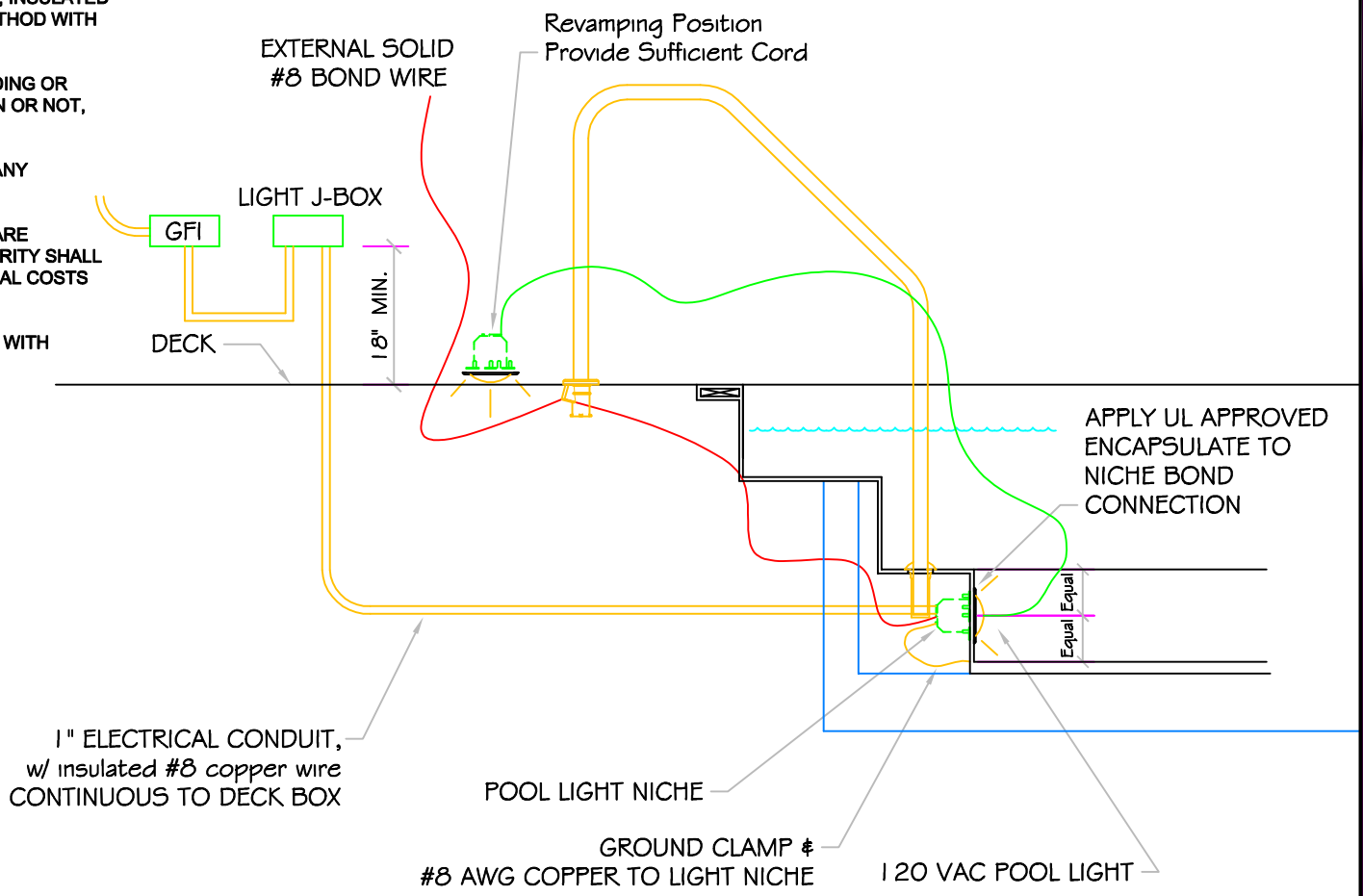
**NOTE:**

Footing can not surcharge spa. Slope from bottom of slab to nearest corner of house footing must not exceed 1" = 1".

# POOL BONDING REQUIREMENTS:

1. THE FOLLOWING PARTS SHALL BE BONDED TOGETHER AND CONNECTED TO THE COMMON BONDING GRID.
  - A. ALL THE METALLIC PARTS OF THE POOL STRUCTURE INCLUDING COPING STONES, DECK, PERMANENT PLAY STRUCTURES, PERMANENT EXERCISE STRUCTURES.
  - B. ALL METAL FITTINGS WITHIN OR ATTACHED TO THE POOL STRUCTURE
  - C. METAL PARTS ASSOCIATED WITH THE POOL WATER CIRCULATING SYSTEM, INCLUDING PUMPS, FILTERS, AND HEATERS.
  - D. METAL PARTS ASSOCIATED WITH POOL COVERS
  - E. METAL SHEATHED CABLES AND RACEWAYS, METAL PIPING AND ALL FIXED METAL PARTS WITHIN 5 FEET HORIZONTALLY OF INSIDE WALLS OF POOL AND WITHIN 12 FEET ABOVE MAXIMUM WATER LEVEL OF POOL.
  - F. METAL PARTS ASSOCIATED WITH OBSERVATION STANDS, TOWERS, PLATFORMS, AND DIVING STRUCTURES.
2. BONDING CONDUCTORS SHALL BE MINIMUM #8 SOLID COPPER, INSULATED E.C. SHALL COORDINATE APPROVED CONNECTOR TYPE AND METHOD WITH LOCAL ELECTRICAL AND/ OR POOL INSPECTOR.
3. SPECIFIC MANUFACTURER'S INSTRUCTIONS REGARDING BONDING OR GROUNDING OF POOL EQUIPMENT, WHETHER INDICATED HEREIN OR NOT, SHALL BE STRICTLY FOLLOWED.
4. THE COMMON BONDING GRID SHALL NOT BE CONNECTED TO ANY ELECTRICAL DISTRIBUTION EQUIPMENT.
5. ANY PARTS IN ADDITION TO THOSE DESCRIBED HEREIN THAT ARE INDICATED BY POOL CONTRACTOR OR LOCAL INSPECTION AUTHORITY SHALL BE BONDED TO THE COMMON BONDING GRID WITH NO ADDITIONAL COSTS INCURRED BY THE OWNER.
6. THE ELECTRICAL CONTRACTOR SHALL COORDINATE BONDING WITH GENERAL CONTRACTOR.

# LIGHT DETAIL



\*ALL DIMENSIONS SUBJECT TO 1/4" TOLERANCES\*

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SIZE A	DWG NAME DETAILS	DWG TYPE Detail
SCALE 1/2" = 1'	DATE 7/24/2008	SHEET PAGE 1 OF 1

## **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 Swim Spas 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 Swim Spas 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 three (3) years and structural soundness for ten (10) years. NESPA warrants epoxy grout adhesion for a period of three 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.**

**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 or by distributor or by unreasonable use by ORIGINAL PURCHASER-USER including improper water balance and improper sand pack or support.**

**This LIMITED WARRANTY shall not apply to any plumbing, equipment, or installation of spas and Swim Spas 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.**