

**NESPA**  
TILED SPAS

# **Production Booklet**

**for**

## **Mtn. Trek Hot Tub**

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

SPECIFICATIONS	
SHELL WEIGHT	3000
WATER WEIGHT	9416 LBS.
TOTAL SHELL & WATER WEIGHT	12416.5 LBS.
WATER VOLUME	151 Cu.Fl.
MAX WATER GAL.	1129
SURFACE AREA	74.2 SQ. FT.
IAPMO#	1138
FDA#	2030305

#### SKID SUPPORT STRUCTURE\* BONDED TO SPA



\*SKIDS SUPPLIED  
BY NESPA

#### LIGHT NICHE

GloBrite  
LED Spa Light

#### MAIN DRAIN



AquaStar 32CDFLR, 32" Channel Drain,  
Approved Max Flow Rate: Floor = 236 GPM  
@ 3.4 fpm Wall = 136 GPM @ 1.9 fpm  
V.G.B Approved Safety Drain

#### SIDEWALL SUCTION



AquaStar P9101, 9" X 9" Frame,  
Approved Max Flow Rate:  
Floor/Wall = 196.4 GPM @ 1.5 fpm  
42.0 Sq In - Open Area  
All components meet or exceed ANSI / APSP  
16-2011 and NSF / ANSI 50-2009a national  
standards and ASTM G154 UV testing  
exposure

#### SKIMMER



HAYWARD SP-1084FVE  
SURFACE SKIMMER  
W/ EQUALIZER,  
NSF APPROVED

#### JET

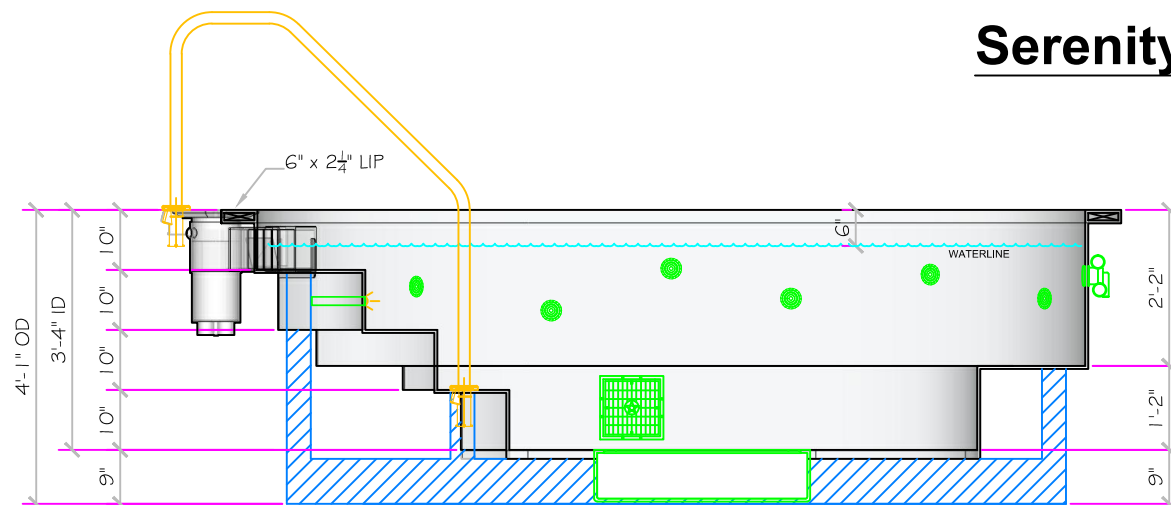
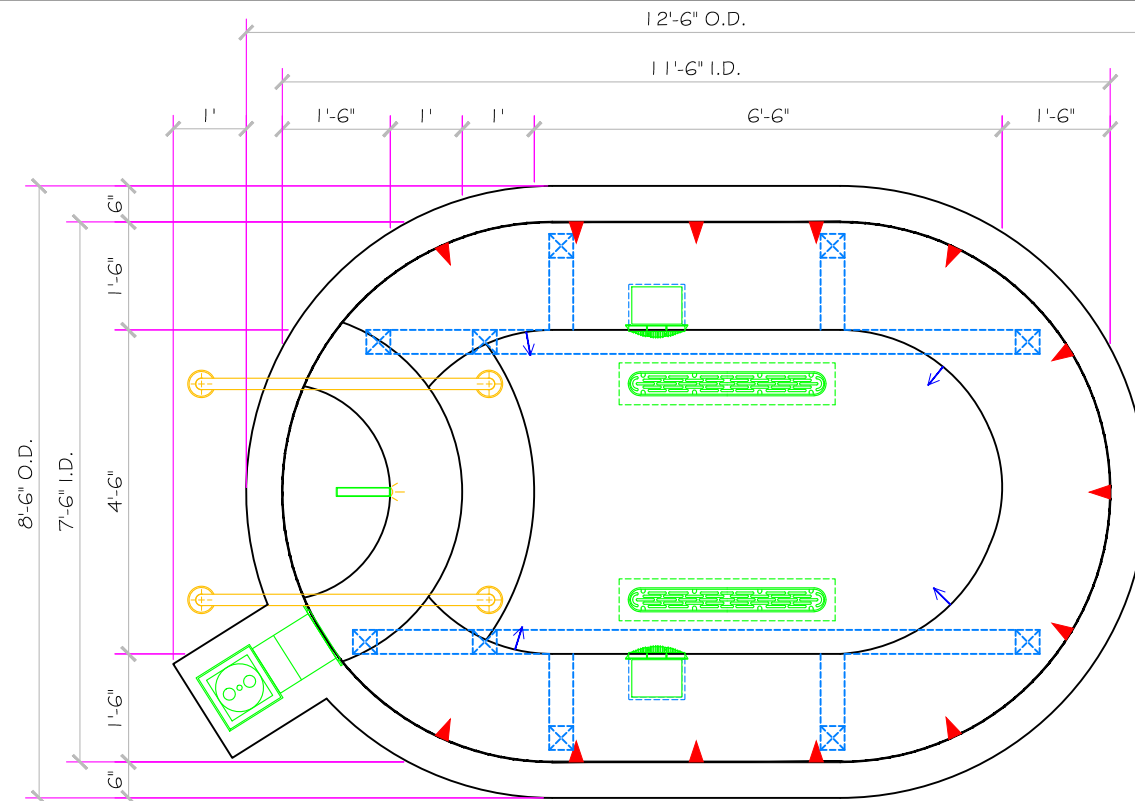
HYDRO INLETS  
1-1/2" WATER - 1-1/2" AIR  
HYDROAIR #10-5100  
COMPLIES W/ ANSI CODE ASME A112.19.8-07  
UL APPROVED

#### 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



## Serenity 12 Spa

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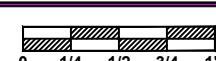


#### If printing as a PDF:

Page Scaling:

#### SCALE

3/8" = 1'



DWG NAME

MOUNTAIN TREK

DATE

11/25/2013

DWG TYPE

Serenity Spa SD

SHEET

PAGE 1 OF 9

1. **Field Tile:** Dal Tile Keystone: 1"x 1" Biscuit D-317
2. **Tub Bench Lip:** Dal Tile Keystone Trim: 2"x 2" Surface Bullnose, S-886 Navy Speckle D209
3. **Tub Coved Corner:** Dal Tile Keystone Trim: 2"x1" Inside Corner, C-833 Biscuit D-317
4. **Tub Lip:** Dal Tile Keystone Trim: 1"x 1" Biscuit D-317 **Edge Lip:** C701 Coping Biscuit D-317

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

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

#1 - GROUT: \_\_\_\_\_

#2 - GROUT: \_\_\_\_\_

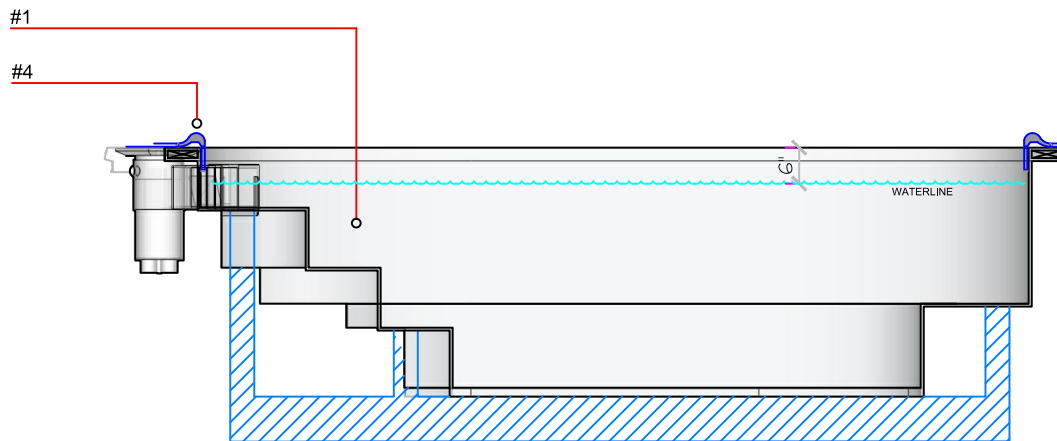
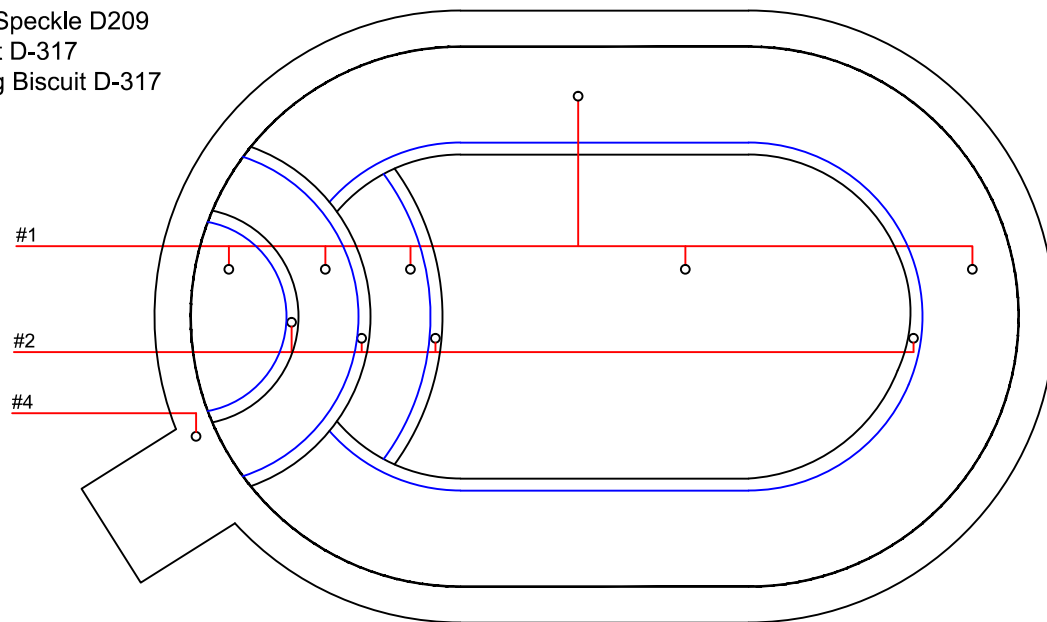
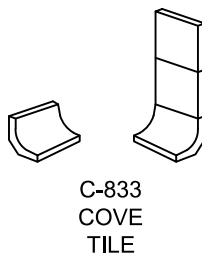
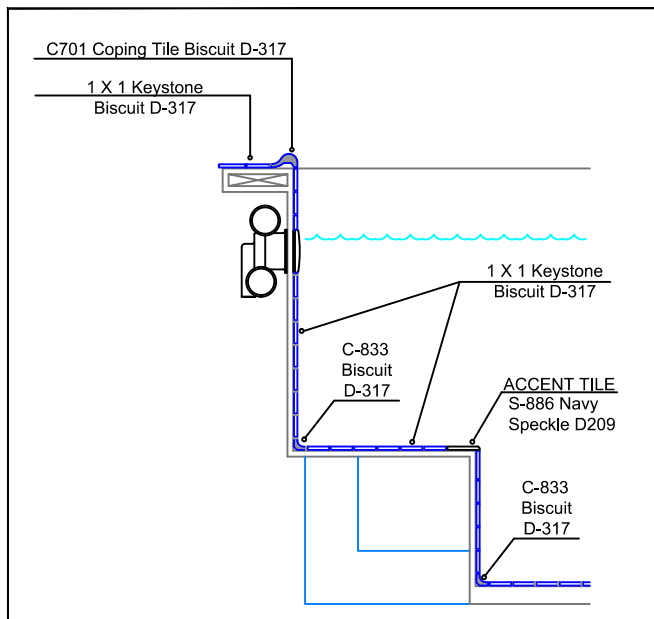
#3 - GROUT: \_\_\_\_\_

All tiles used to be Unglazed Porcelain intended for pool facilities with min. performance spec listed as below.

Dal Tile Keystone Shapes, Technical Data  
<http://products.daltile.com/series.cfm?series=240>

D.C.O.F. Wet >= 0.42  
 C.O.F. Wet >= 0.6  
 C.O.F. Dry >= 0.7  
 Moisture Absorption: < 0.5%  
 Breaking Strength: >300 lbs  
 MOH's N/A  
 Chemical Resistance: Resistant  
 Abrasion Resistance: 4 - Commercial

## Tile Detail



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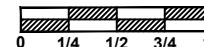


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Spa Tile

DWG NAME

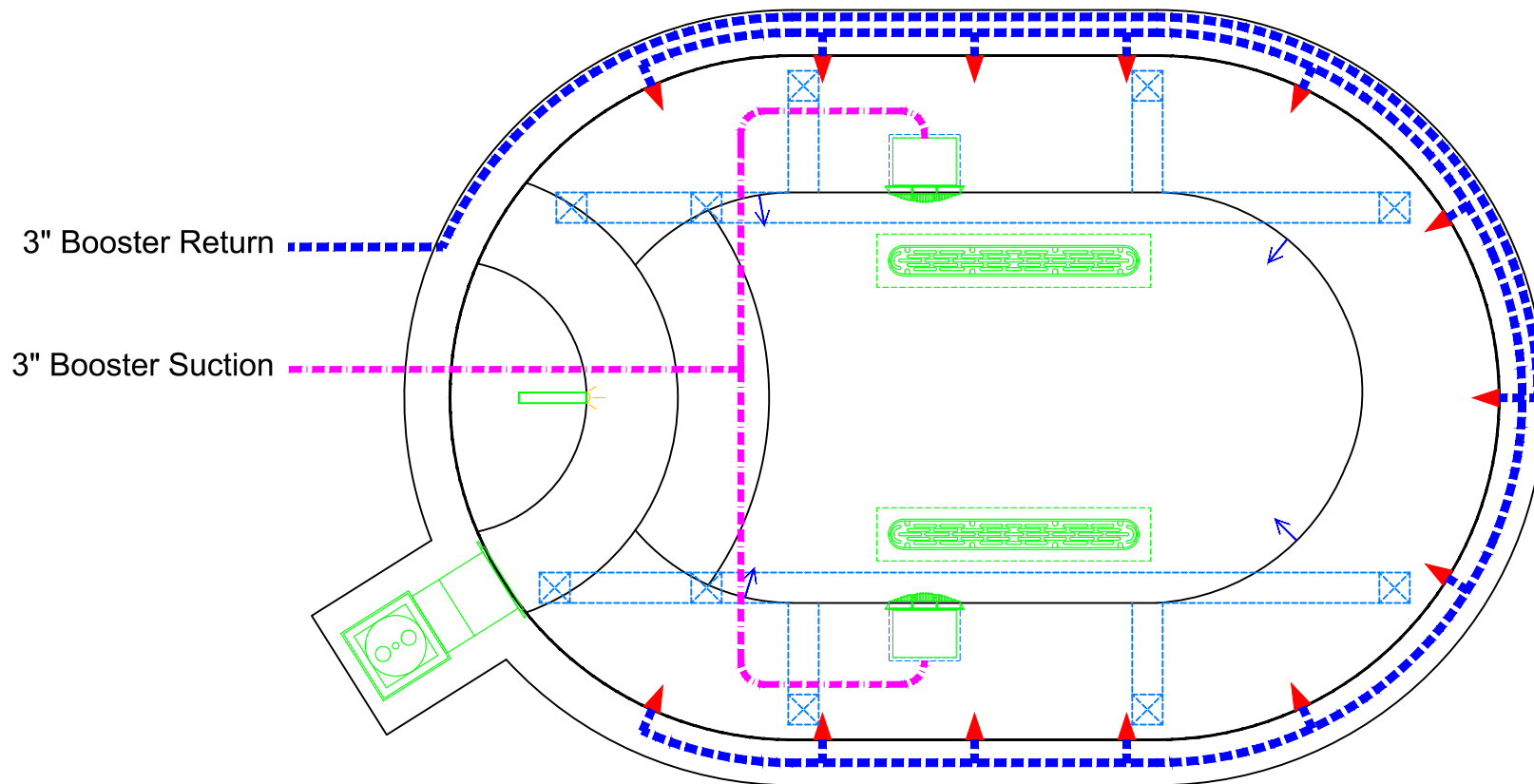
MOUNTAIN TREK

DATE

11/26/2013

SHEET

PAGE 2 OF 9



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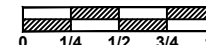


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1/2" = 1'



DWG TYPE

Spa Plumbing

DWG NAME

MOUNTAIN TREK

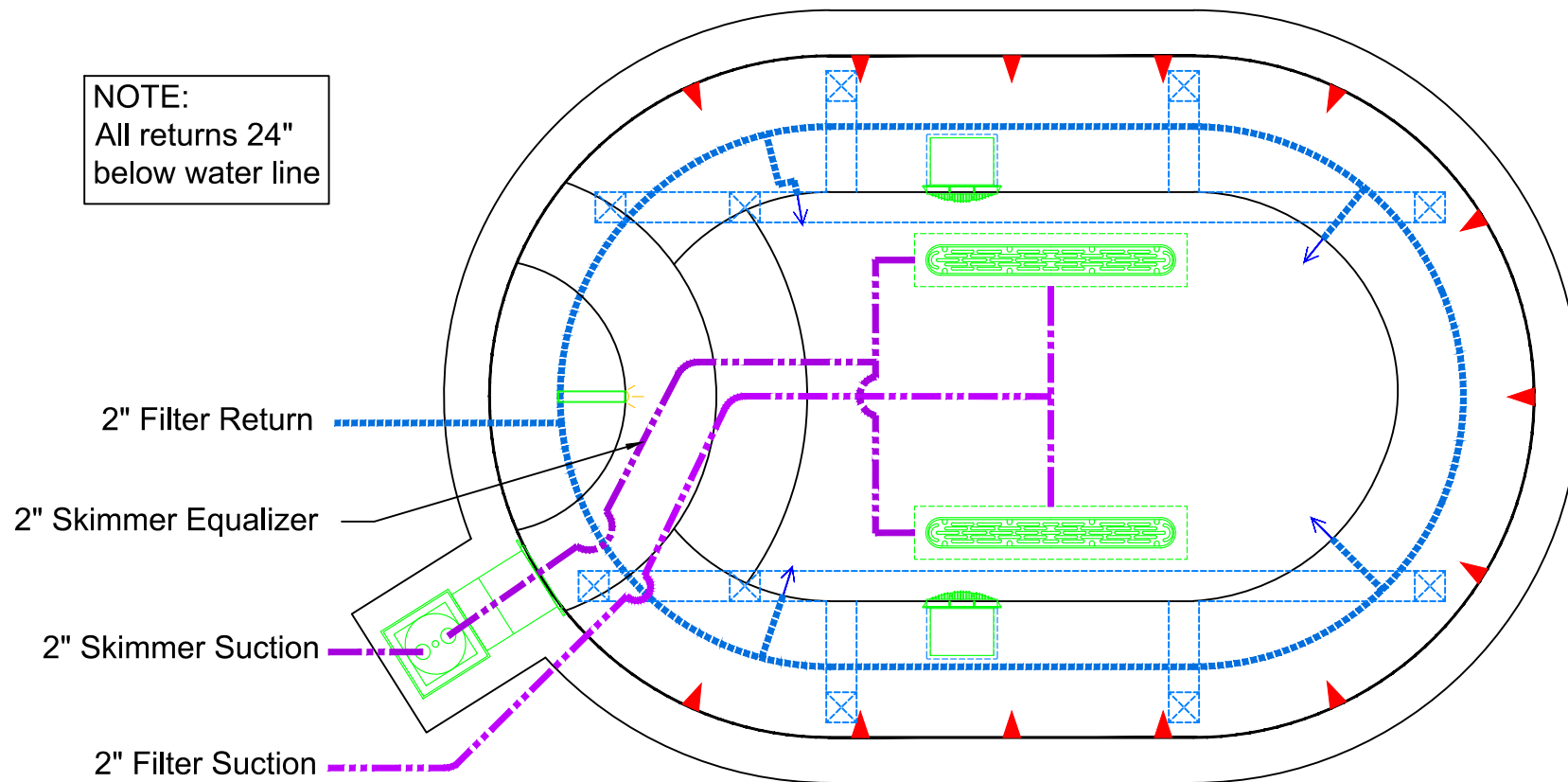
DATE

11/25/2013

SHEET

PAGE 3 OF 9

NOTE:  
All returns 24"  
below water line



2" Filter Return

2" Skimmer Equalizer

2" Skimmer Suction

2" Filter Suction

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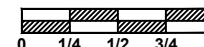


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1/2" = 1'



DWG NAME

MOUNTAIN TREK

DATE

11/25/2013

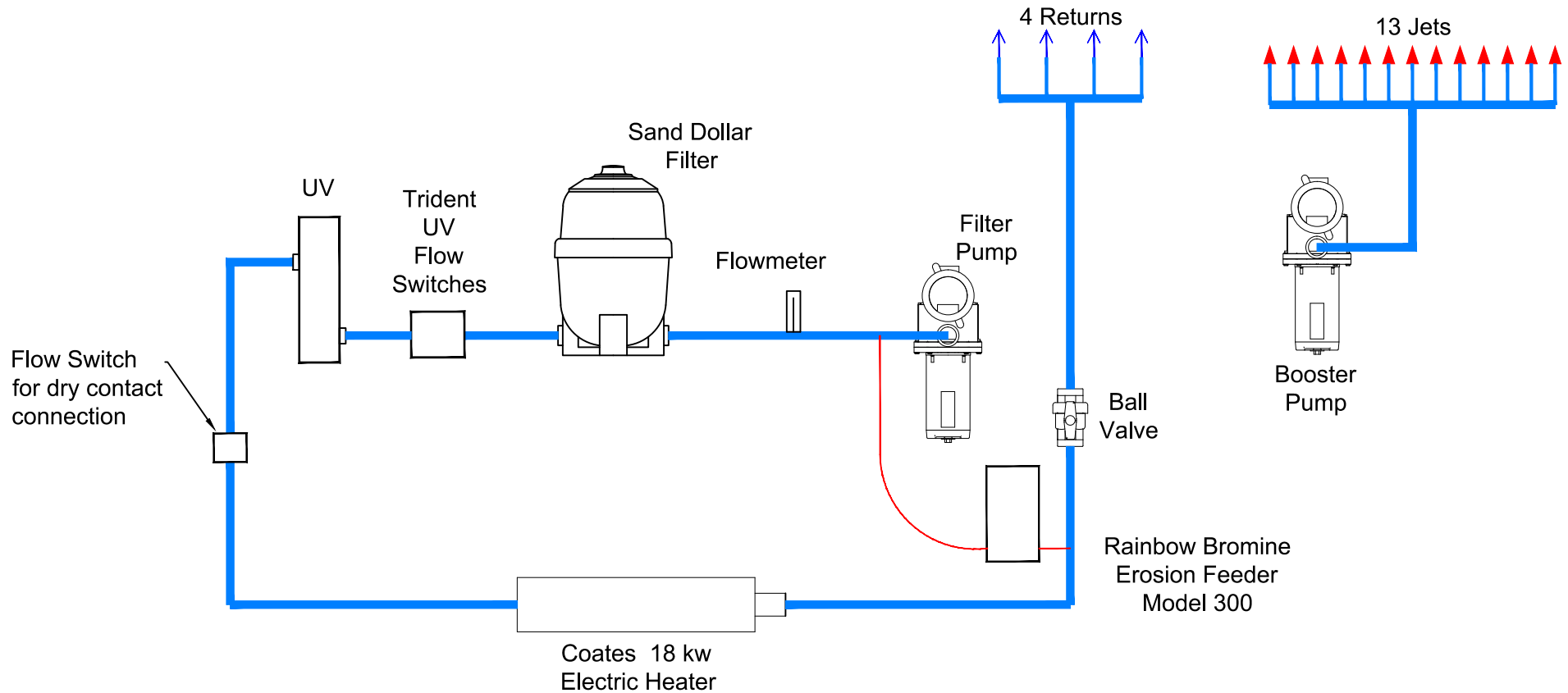
DWG TYPE

Spa Plumbing (2)

SHEET

PAGE 4 OF 9

# SPA PLUMBING SCHEMATIC



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DWG TYPE

Spa Plumbing (3)

DWG NAME

MOUNTAIN TREK

DATE

11/25/2013

SHEET

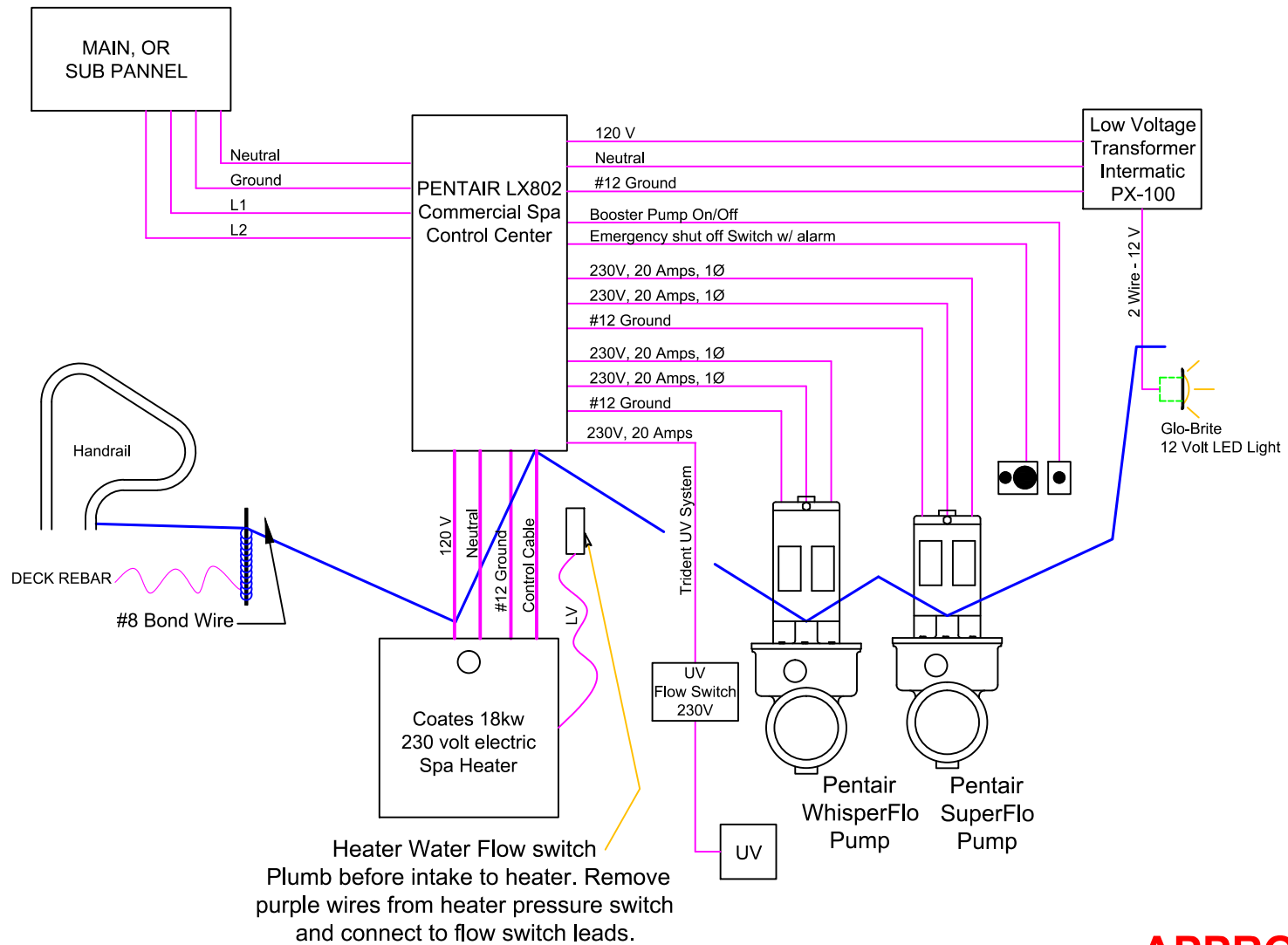
PAGE 5 OF 9

**NOTE:**

THIS SCHEMATIC IS FOR CONCEPTUAL PURPOSES ONLY AND IS BASED ON SINGLE PHASE POWER INPUT. IF THREE PHASE POWER INPUT IS USED THEN CONSULT A LICENSED ELECTRICIAN AND COMPLY WITH ALL APPLICABLE NATIONAL AND LOCAL CODES.

# Spa Electrical Schematic

## COMMERCIAL 2 PUMP Electric Heater - Low Voltage Light

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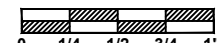
E-Mail: [jim@tiledspas.com](mailto:jim@tiledspas.com) Web Site: [www.tiledspas.com](http://www.tiledspas.com)**If printing as a PDF:**Page Scaling: 

DWG NAME

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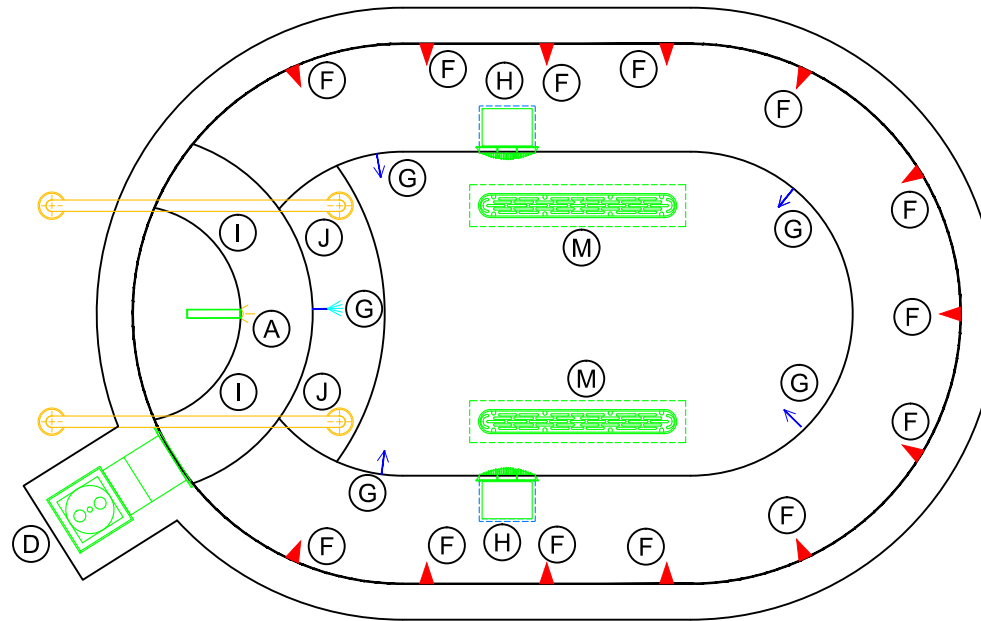
DWG TYPE

Spa Electrical

SHEET

PAGE 6 OF 9





ITEM	DESCRIPTION	MANUFACTURER	CATALOG NO.	QTY.
A	Glo Brite LED Spa Light	PENTAIR	782423	1
C	LIGHT J-BOX	PENTAIR/PAC FAB	78310700	1
D	SURFACE SKIMMER W/ EQUALIZER, NSF APPROVED	HAYWARD	SP-1084 FVE	1
F	HYDRO INLETS, 1 1/2" WATER, 1 1/2" AIR	HYDROAIR	10-5100	13
G	INLET FITTINGS, 1 1/2", WALL TYPE, W/ EYEBALL	HYDROAIR	10-3500	5
H	<i>AquaStar</i> P9101, 9" X 9" Frame, Approved Max Flow Rate: Floor/Wall = 196.4 GPM @ 1.5 fps 42.0 Sq In - Open Area Trademarked VGB compliance button easily identifies VGB 2008 compliant cover from on deck and underwater. All components meet or exceed ANSI / APSP 16-2011 and NSF / ANSI 50-2009a national standards and ASTM G154 UV testing exposure	Aquastar	P9101	2
I	SR Smith ADA 3 Bend Handrail W/ .065 TUBING WALL THICKNESS	S.R. SMITH	3HR-4ADA 4' ADA	2
J	Perma Cast CUP ANCHOR (6" X 1-1/2")	Perma Cast	PS-6019-BC	4
M	<i>AquaStar</i> 32CDLFR, 32" Channel Drain, Approved Max Flow Rate: Floor = 236 GPM @ 3.4 fps Wall = 136 GPM @ 1.9 fps V.G.B Approved Safety Drain	Aquastar	32CDLFR	2

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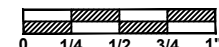


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DWG TYPE

Spa EQ

DWG NAME

MOUNTAIN TREK

DATE

11/25/2013

SHEET

PAGE 7 OF 9

# THE BEST AND BRIGHTEST...

When you install the Hayward® Skimmer LED Lighting in a poolroom, you'll see the difference from the moment you turn the lights on. The LED lights are the brightest and most efficient light source available. They last longer than any other light source and they're easy to install. They're also easy to maintain. They're the best and brightest LED lighting you can get.

**PROVIDE FEATURES:**  
• The brightest and most efficient LED lights available.  
• 10,000 hour life expectancy.  
• Easy to install and maintain.  
• The best and brightest LED lighting you can get.

For the skimmer LED lighting, you'll see the difference from the moment you turn the lights on. The LED lights are the brightest and most efficient light source available. They last longer than any other light source and they're easy to install. They're also easy to maintain. They're the best and brightest LED lighting you can get.



## INSTALLATION INSTRUCTIONS

### INSTRUCTIONS FOR OTHER THAN WOOD PANEL

1. Cut and out on wall panel section per dimensions.
2. Place gasket on skimmer face, making sure holes in gasket align with holes in skimmer face. A very tight application of adhesive cement will assist in holding gasket in place.
3. Align skimmer face and gasket with drilled panel holes and fasten to wall panel at top center and bottom center with the two pan head securing screws.
4. If vinyl liner pool, install liner before proceeding with Step 5.
5. Align second gasket and face plate and fasten tightly to skimmer face with twelve (12) 1\"/>

### INSTRUCTIONS FOR WOOD PANEL WITH VINYL LINER

1. Cut out wall panel approximately 1/8\"/>
- 2. Insert skimmer into panel cut out from the rear, and butt the mounting flange against the rear of the panel. Use 1/2\"/>
- 3. If necessary, to make face of skimmer flush with inside of the panel, trim the skimmer to the rear of the wood panel by sawing the proper length round head brace wood screw through the mounting flange hole.
- 4. Place gasket on skimmer face, making sure holes in gasket align with holes in skimmer face. A very tight application of adhesive cement will assist in holding gasket in place.
- 5. Install vinyl liner.
- 6. Align second gasket and face plate and fasten tightly to skimmer face with twelve (12) 1\"/>

### LOCATION OF SKIMMERS

To obtain the most effective skimming action over the entire pool surface, locate the skimmers relative to the prevailing wind and drift, shape of pool and water circulation pattern. The use of directional inlet fittings will ensure the proper circulation pattern.

## HAYWARD MODEL SP1084 AUTO-SKIM

### INSTALLATION AND OPERATING INSTRUCTIONS

The Auto-Skim is a rugged, versatile automatic skimmer for residential or commercial installations. The illustrations below show the standard SP1084 (41), the SP1082V Skimmer-Main Drain Valve Assembly installed (42), and the SP1084 with SP1078 Equalizer Valve and SP1082V Float Valve Assembly (43). Consult inside pages for specific installation details and dimensions.

#### 1. BASIC UNIT

- A. FLOW ADJUSTMENT—For full flow, move the Flow Control Slide Plate to full open. To adjust flow, move Slide Plate to desired position over pump outlet.
- B. TO VACUUM—Remove cover and basket. Screw hose adapter into pump outlet. Fit vacuum hose with water and insert over hose adapter. Or use optional Sun-Vac over basket vacuum plate.

#### 2. SKIMMER WITH MAIN DRAIN CONNECTION

- A. FULL SKIM—Place Valve Lever in straight-up position. Open Slide Plate.
- B. FULL MAIN DRAIN (SWEET)—Place Valve Lever down. Close Slide Plate.

#### 3. SP104PVC-SKIMMER WITH EQUALIZER VALVE AND FLOAT VALVE ASSEMBLY

- A. EQUALIZER—Main SP1078 Equalizer Valve Assembly installs over front port and is used in conjunction with the SP1082V Float Valve Assembly. If water level drops below skimmer opening, or if skimmer flow is obstructed, the float will automatically snap shut and the equalizer valve will open. This directs all flow to the pump from the equalizer line and prevents airlock in the pump. When the pump is shut off, and the water level is restored, the float will rise and the equalizer valve will close, restoring normal skimming operation when the pump is restarted.
- B. TO VACUUM—Select one convenient skimmer and remove cover, basket and float valve assembly. Screw hose adapter into pump outlet. Fit vacuum hose with water and insert over hose adapter. Throttle down flow from other skimmers) until desired suction is obtained through vacuum.

**NOTE:** When two or more skimmers are plumbed into a common suction line, the flow is balanced through the skimmers by adjusting the Flow Control Slide Plate at each unit.

## SP1084 AUTO-SKIM DIMENSIONS

### INSTALLATION INSTRUCTIONS

#### EQUALIZER VALVE ASSEMBLY SP1078

1. Remove screws, plug plug (if installed) and original slide plate from bottom of SP1084 skimmer.
2. Insert 1/2\"/>
- 3. Insert main Retaining Screw, with washer, into Valve Housing and screw down tightly into main skimmer body.
- 4. Insert main Retaining Screw, with washer, through SP1078 Flow Control Slide Plate and into Valve Housing. Screw down firmly into main skimmer body. Tighten both retaining screws.

#### SKIMMER DRAIN VALVE ASSEMBLY SP1082V

1. Remove skimmer plug (if installed) and original slide plate from bottom of SP1084 skimmer.
2. Insert 1/2\"/>
- 3. Insert main Retaining Screw, with washer, into Valve Housing and screw down tightly into main skimmer body.
- 4. Insert main Retaining Screw, with washer, through SP1082V Flow Control Slide Plate and into Valve Housing. Screw down firmly into main skimmer body. Tighten both retaining screws.

#### SKIMMER DRAIN VALVE ASSEMBLY SP1082V

1. Remove skimmer plug (if installed) and original slide plate from bottom of SP1084 skimmer.
2. Insert 1/2\"/>
- 3. Insert main Retaining Screw, with washer, into Valve Housing and screw down tightly into main skimmer body.
- 4. Insert main Retaining Screw, with washer, through SP1082V Flow Control Slide Plate and into Valve Housing. Screw down firmly into main skimmer body. Tighten both retaining screws.

## PARTS AND ACCESSORIES

KEY	PART NUMBER	DESCRIPTION	NO. REQ'D.
1	SP1082V1	Cover Retaining Screw	2
2	SP1082V2	Cover	1
3	SP1082V3	Adjusting Screw	1
4	SP1082V4	Water Assembly	1
5	SP1082V5	Adapter	1
6	SP1082V6	Vacuum Adapter	1
7	SP1082V7	Flow Control Slide Plate w/Screw	1
8	SP1082V8	Face Plate	1
9	SP1082V9	Gasket	2
10	SP1082V10	Screw (short)	12
11	SP1082V11	Screw (long)	12

### PARTS AND ACCESSORIES

12	SP1082V12	O-Ring	1
13	SP1082V13	Flow Control Slide Plate w/Screw	1
14	SP1082V14	Retaining Screw	1
15	SP1082V15	Equalizer Valve Assembly	1
16	SP1082V16	Float Valve Assembly	1
17	SP1082V17	Flow Control Slide Plate	1
18	SP1082V18	Retaining Screw	1

REPAIR PARTS ARE AVAILABLE THROUGH YOUR LOCAL AUTHORIZED HAYWARD DISTRIBUTOR.

### HAYWARD POOL PRODUCTS, INC.

Hayward Pool Products, Inc.  
1800 Industrial Avenue  
Hayward, CA 94541

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Hayward, CA 94541

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1800 Industrial Avenue  
Hayward, CA 94541

## ITC Industries

### POOLSPA Products Hydro Jet™

#### Hydro Jet™ Series Jet Assemblies

**SPECIFICATIONS:**  
Rated: 15,000 PSI, 1/2\"/>

**Hydro Jet™ 1 1/4\"/>

**Hydro Jet™ 2 1/2\"/>

**Hydro Jet™ For 1 1/2\"/>

**Hydro Jet™ Extension - For Gunite / Hot Map********

**APPROVED**  
ALL DIMENSIONS SUBJECT TO 1/4\"/>

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**NESPA ENTERPRISES INC.**  
2800 Richter Ave. Ste. C Oroville, CA 95966  
Office: (530) 534-9910 Fax: (530) 534-9915  
E-Mail: [jim@tiledspas.com](mailto:jim@tiledspas.com) Web Site: [www.tiledspas.com](http://www.tiledspas.com)



**If printing as a PDF:**  
Page Scaling: ☒ None

DWG NAME: MOUNTAIN TREK

SCALE: N/A

DWG TYPE: Spa EQ Docs

DATE: 11/25/2013

SHEET: PAGE 1 OF 8

(X)

Products » Automation » Commercial Pool Controllers

## Compool LX802 Commercial Pool and Spa Control System



**Compool LX802 Commercial Pool and Spa Control System:**

The Compool LX802 automated control system makes operating your commercial pool and spa easy.

The **Compool LX802 Commercial Pool and Spa Control System** is designed for commercial pool and spa combinations. The LX802 provides remote spa jet switching with an electronic countdown timer and is suitable for indoor or outdoor applications. Includes an emergency shut-off switch.

The only difference between the **Compool LX802L** and the Compool LX802 is that the LX802L includes a 100 amp subpanel and the Compool LX802 does not.

**Compool LX802 Commercial Pool and Spa Control System Features:**

- Emergency Shut-off Switch
- Remote spa jet switching with electronic countdown timer
- Audio Alarm
- Power Center (no breaker sub panel)
- 2 Timedlocks can control a pool and a spa
- 3 Relays (pool pump, spa pump, spa pump 2)
- Electronic Cool Down Cycles for pool and spa heaters
- Equipment Service Switches

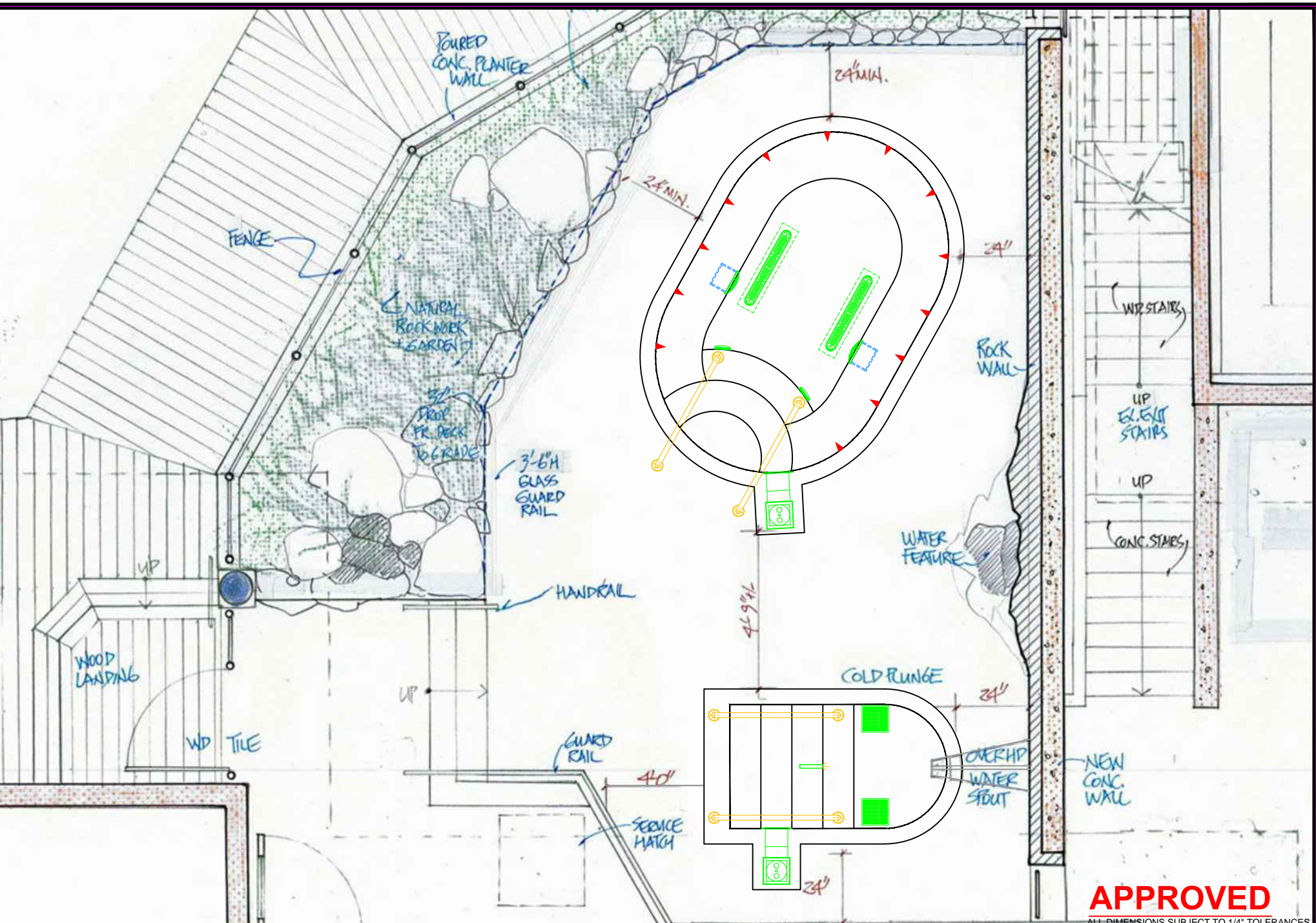
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ALL DIMENSIONS SUBJECT TO 1/4" TOLERANCES

DWG TYPE	Spa EQ Docs (2)
SHEET	PAGE 2 OF 8





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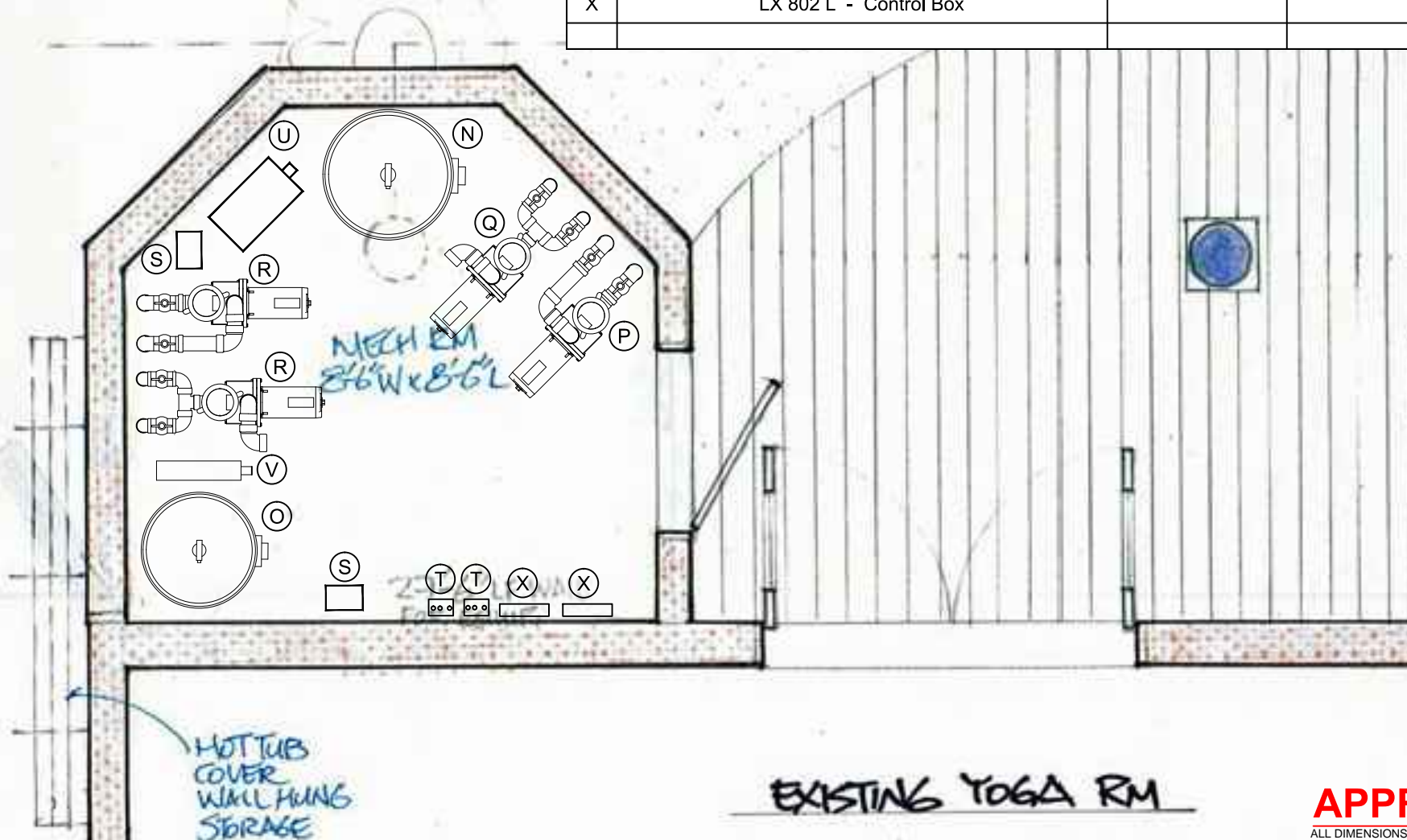
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MOUNTAIN TREK

DATE  
11/25/2013

DWG TYPE  
Layout  
SHEET  
PAGE 1 OF 8

ITEM	DESCRIPTION	MANUFACTURER	CATALOG NO.	QTY.
N	Sand Dollar Filter	Pentair	145300	1
O	Sand Dollar Filter	Pentair	145241	1
P	Whisperflow - 3hp - 120 gpm	Pentair	WFE-12	1
Q	SuperFlo Pump - 3/4 hp - 55 gpm	Pentair		1
R	SuperFlo Pump - 1/2hp - 43 gpm	Pentair		2
S	Trident UV System	Trident		2
T	Light J Box			2
U	18 kw Electric Heater	Coates	12418CE	1
V	5.5 kw Electric Heater	Coates	12406ST	1
X	LX 802 L - Control Box			1



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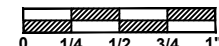


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DWG TYPE

EQ Layout

DWG NAME

MOUNTAIN TREK

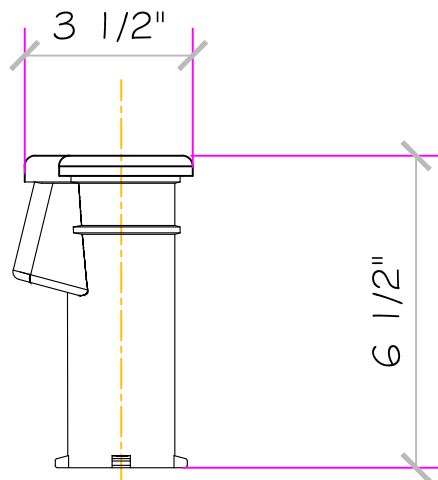
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11/25/2013

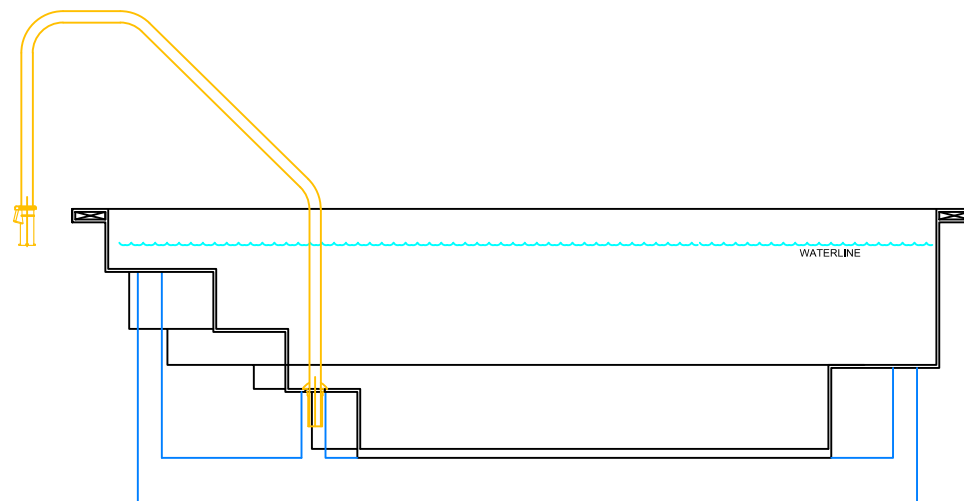
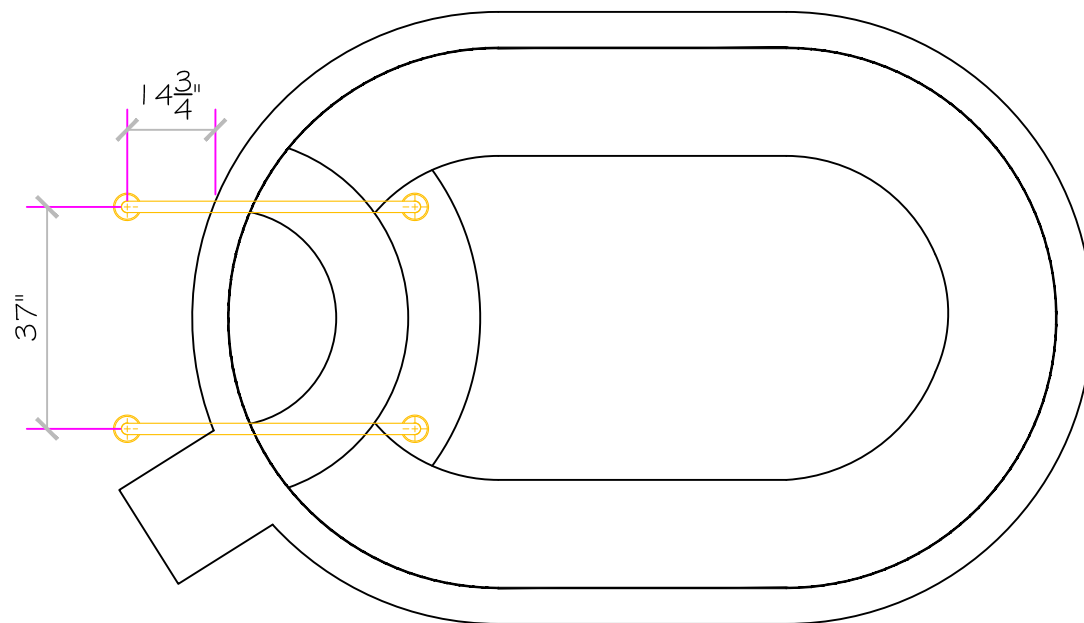
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PAGE 2 OF 8





SCALE  
3" = 1'



SCALE  
3/8" = 1'

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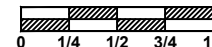


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DATE

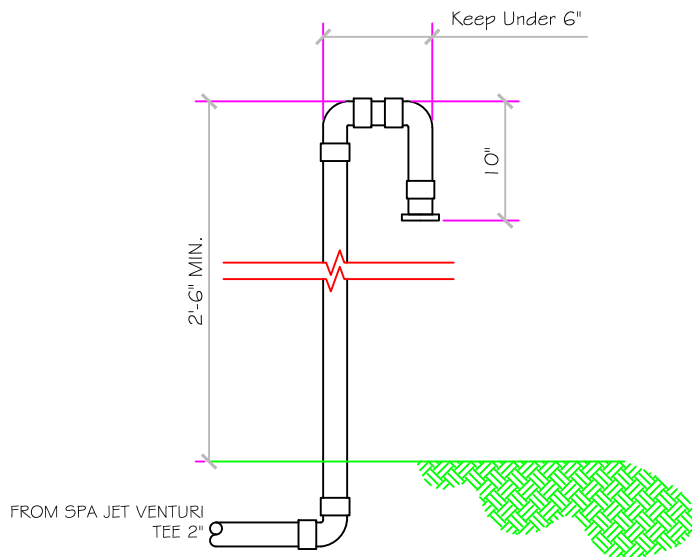
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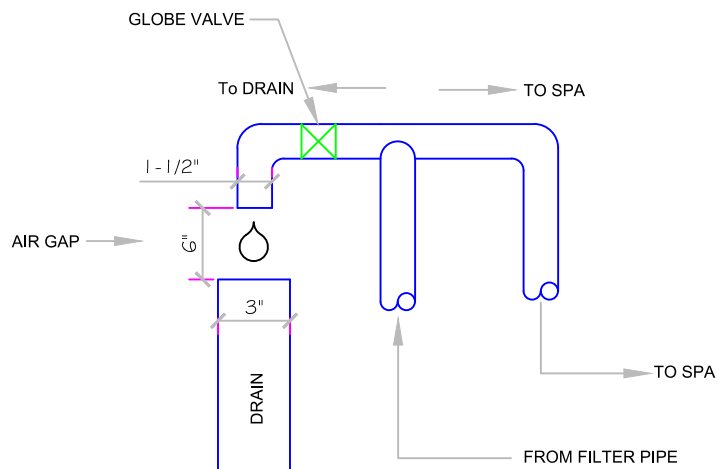
Spa Handrail

SHEET

PAGE 1 OF 1

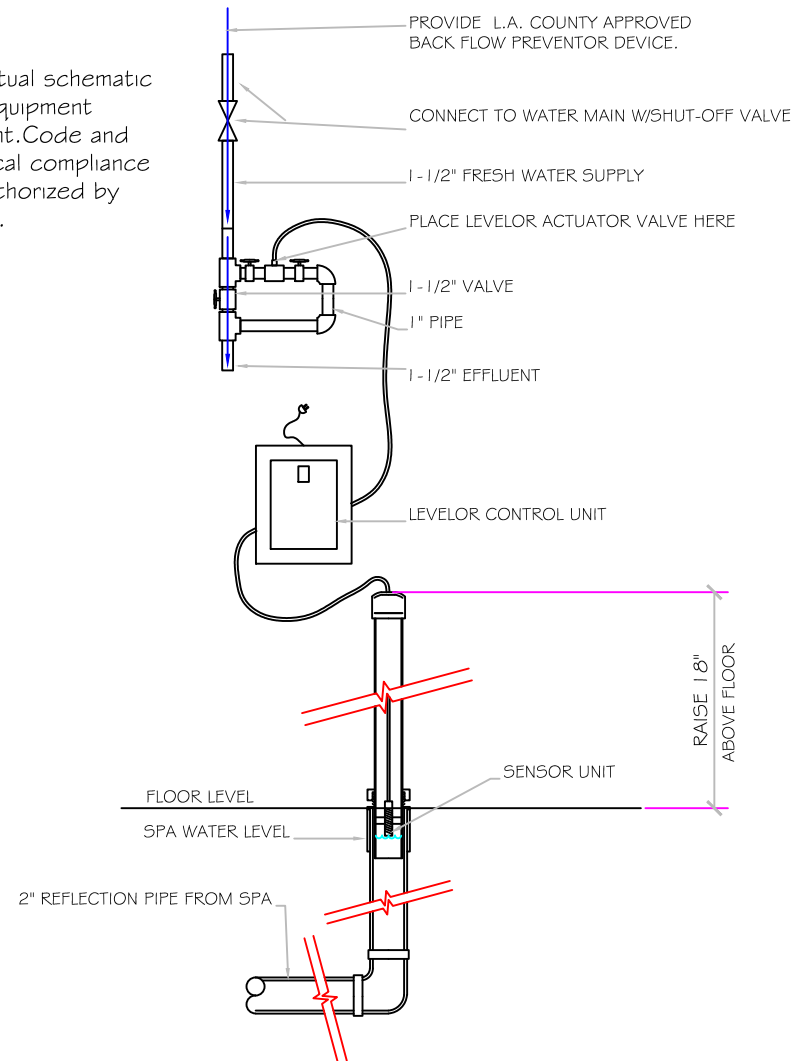


## AIR SUPPLY LOOP DETAIL



## DRAIN TO WASTE DETAIL

Note:  
Conceptual schematic  
of spa equipment  
placement. Code and  
Mechanical compliance  
to be authorized by  
engineer.



## WATER LEVEL CONTROL

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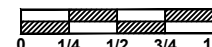


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DWG TYPE

Plumbing Detail

DWG NAME

MOUNTAIN TREK

DATE

11/25/2013

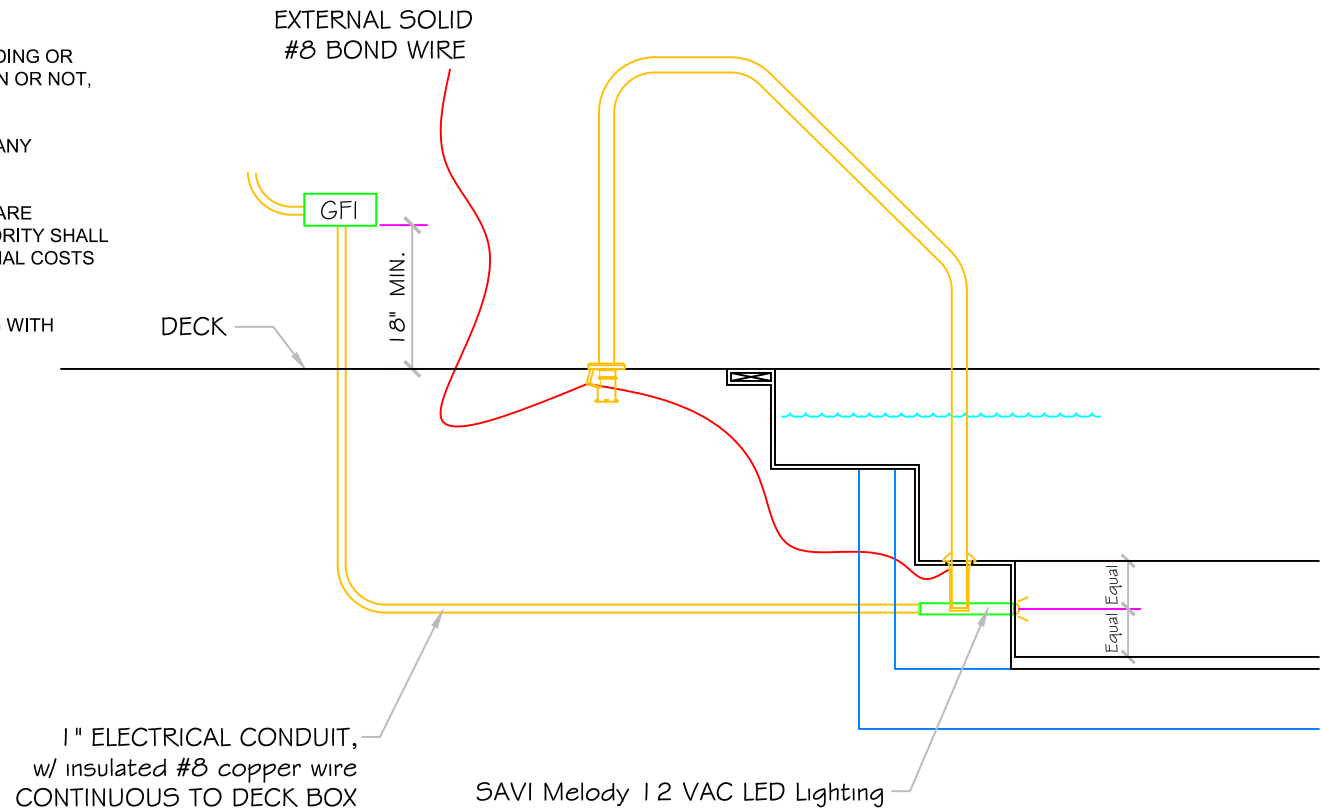
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PAGE 3 OF 8

## 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.

## LED LIGHT DETAIL



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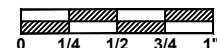


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DWG TYPE

Bonding Detail

DWG NAME

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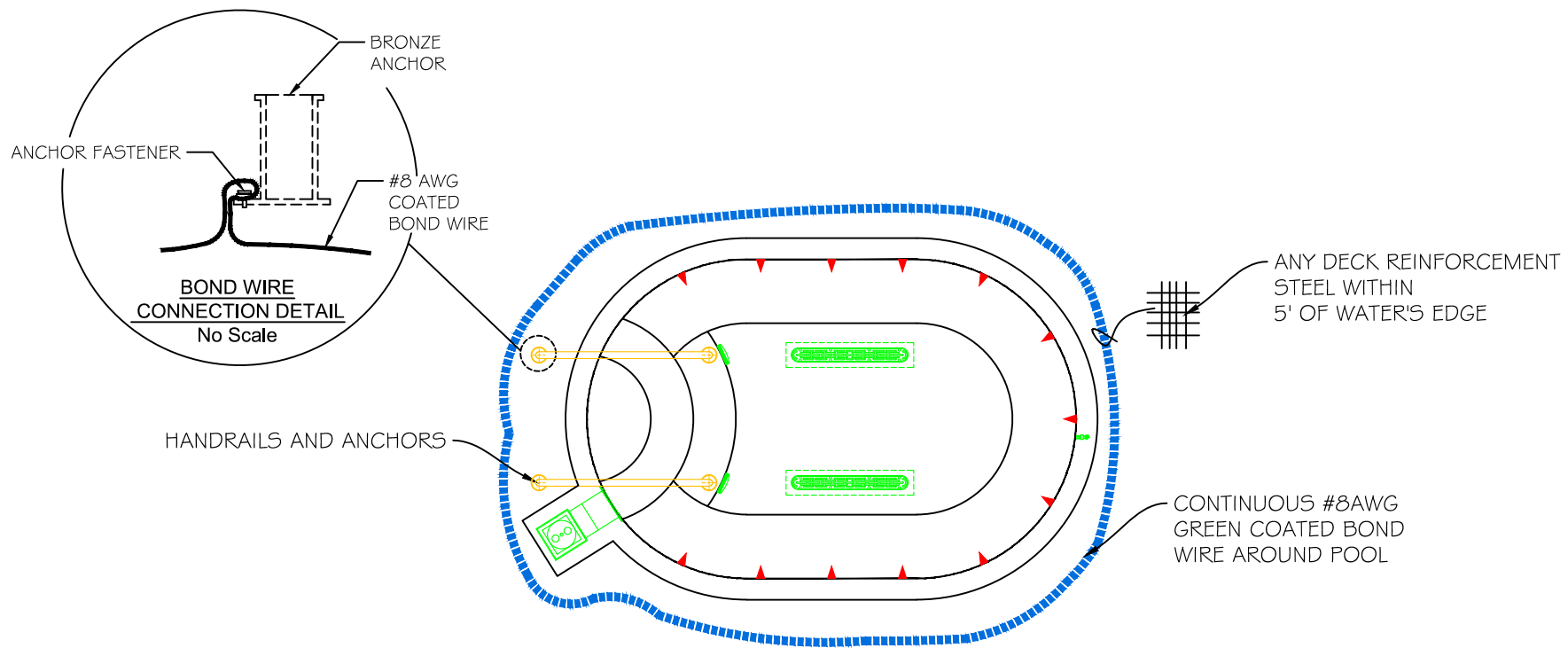
DATE

11/25/2013

SHEET

PAGE 4 OF 8





## TYPICAL BONDING DETAIL

1. INSTALL PER NEC 2008, SECTION 680 REQUIREMENTS
2. USE #8 COATED TAILS OFF BOND LOOP TO EQUIPMENT AND STEEL NOT IMMEDIATELY ADJACENT TO BOND LOOP

**APPROVED**

ALL DIMENSIONS SUBJECT TO 1/4" TOLERANCES

AquaStar 32CDFLFR, 32" Channel Drain,  
 Approved Max Flow Rate: Floor = 236 GPM @ 3.4 fps  
 Wall = 136 GPM @ 1.9 fps  
 V.G.B Approved Safety Drain

IAPMO Approved  
 Nespa Drain Sump  
 (Fiberglass Composite)  
 Listed under  
 AquaStar IAPMO #SP-4900

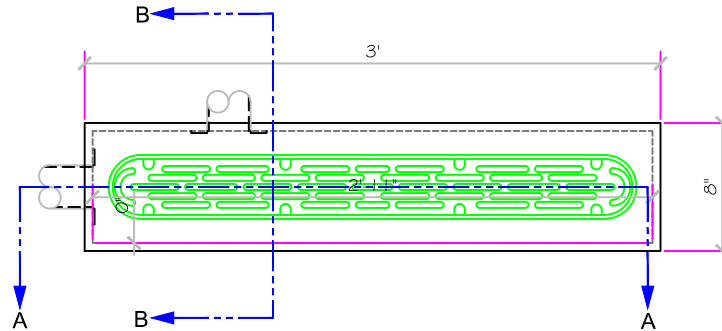
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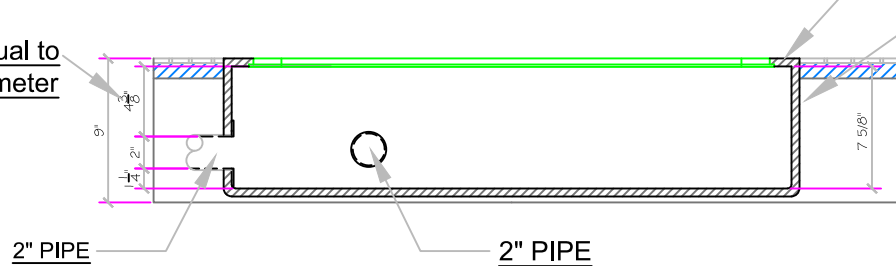
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(530) 534 - 9910

Nespa.32CD,2ss

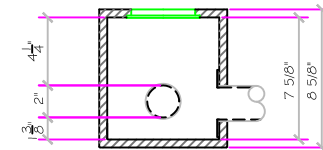


Distance is greater than or equal to  
 $1\frac{1}{2} \times \text{Pipe Diameter}$



SECTION "A"

SPA FIBERGLASS COMPOSITE DRAIN SUMP



SECTION "B"

Note: Plumbing Flow rate of approved sump not to exceed  
 VGB 2008 rating of drain grate.  
 Note : Sump not intended to carry load of pool or spa.  
 Sump to be protected from vessel weight bearing.

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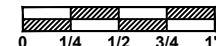


If printing as a PDF:

Page Scaling:

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1" = 1'



DWG NAME

MOUNTAIN TREK

DATE

11/25/2013

DWG TYPE

Main Drain Detail

SHEET

PAGE 6 OF 8

**ICC-ES PMG Listing**

**PMG-1161**

Effective Date: September 1, 2013

This listing is subject to re-examination in one year.

[www.icc-es-pmg.org](http://www.icc-es-pmg.org) | (800) 423-6587 | (562) 699-0543 A Subsidiary of the International Code Council®

CSI: DIVISION: 13 00 00 – SPECIAL CONSTRUCTION  
Section: 13 17 00 – Tub and Pools

**Product certification system:**

The ICC-ES product certification system includes testing samples taken from the market or supplier's stock, or a combination of both, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the supplier's quality system.

Product: Spa Shell (Tile Lined FRP)

Listee: Nespa Enterprises, Inc.  
2800 Richter Avenue, Suite C  
Oroville, CA 95966  
[www.tiledspas.com](http://www.tiledspas.com)

**Compliance with the following codes:**

2012 and 2009 International Swimming Pool and Spa Code™ (ISPSC)  
2012 and 2009 Uniform Swimming Pool, Spa and Hot Tub Code® (USPSHTC)  
\*Uniform Swimming Pool, Spa and Hot Tub Code is a copyrighted publication of the International Association of Plumbing and Mechanical Officials

**Compliance with the following standards:**

ANSI Z124.7-2013 American National Standard for Prefabricated Plastic Spa Shells

**Identification:**

Each unit of Spa Shell shall be marked with manufacturer's name or trademark and ICC-ES PMG mark of conformity. Marking shall be permanent and legible so as to be visible after installation. A label shall be permanently affixed to each unit in a visible location and shall include the manufacturer's name and/or trademark, and model designation. Units manufactured as "Shell Only" shall be so identified and labeled. Unit shall be permitted to be marked "ANSI Z124.7" signifying compliance with the standard.

**Installation:**

Each unit of Spa shell shall be installed in accordance with manufacturer's published installation instructions and applicable codes.

Listings are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the listing or a recommendation for its use. There is no warranty by ICC Evaluation Service, LLC, express or implied, as to any finding or other matter in this listing, or as to any product covered by the listing.

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Page 1 of 2

**Models:**

Acapulco	Mirage 9'
Acapulco II	Mirage 11'
Acapulco III	Mirage 13'
Acapulco IV	Mirage 15'
Blackthorne	Mirage 17'
Capri	Monaco
Caribbean	Nespa Swim Spa 12'
Corsica	Nespa Swim Spa 16'
Corsica-Modified	Nespa Swim Spa 18'
Eight Ft. Round	Nespa Swim Spa 20'
Imperia	Rimini
Imperia II	Rimini Commercial
Kidney*	Round* 7'
Legacy 10'	Round* 9'
Legacy 12'	Round* 11'
Legacy 14'	Serenity* 12'
Legacy 16'	Six Ft. Round
Legacy 18'	Tahoe*
Legacy 20'	Ten Ft. Round
Maxima	Vallarta

Note: Models with an "\*" indicate that the tile size must be 2" x 2"

Tile lined, polyester resin reinforced fiberglass spa shells in various colors, sizes, and configurations. May or may not be provided with insulation. All units, whether factory or field assembled, are required to have suction fittings installed which are certified to ASME A112.19.8 for anti-hair and body entrapment. All units are listed for above or below ground installation and may be portable or permanent.

**Conditions of listing:**

1. NESPA's Spa Shell shall be installed in accordance with manufacturer's published installation instruction and applicable codes.
2. NESPA Spa Shell is manufactured in Oroville, California under a quality control program with annual inspection by ICC-ES.

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**If printing as a PDF:**

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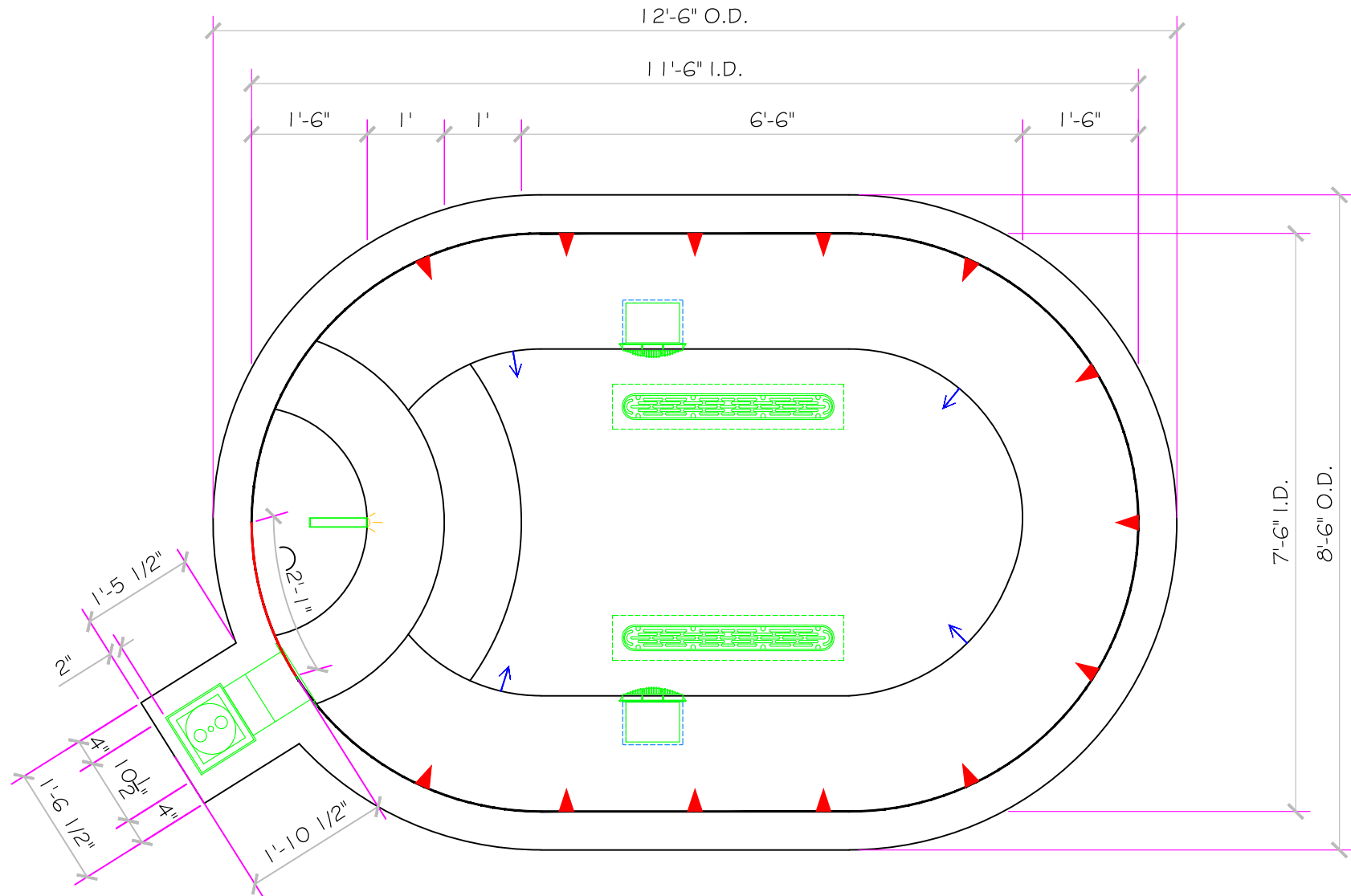
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11/25/2013

DWG TYPE

ICC Docs

SHEET

PAGE 8 OF 8



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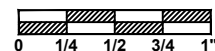


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1/2" = 1'



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DATE

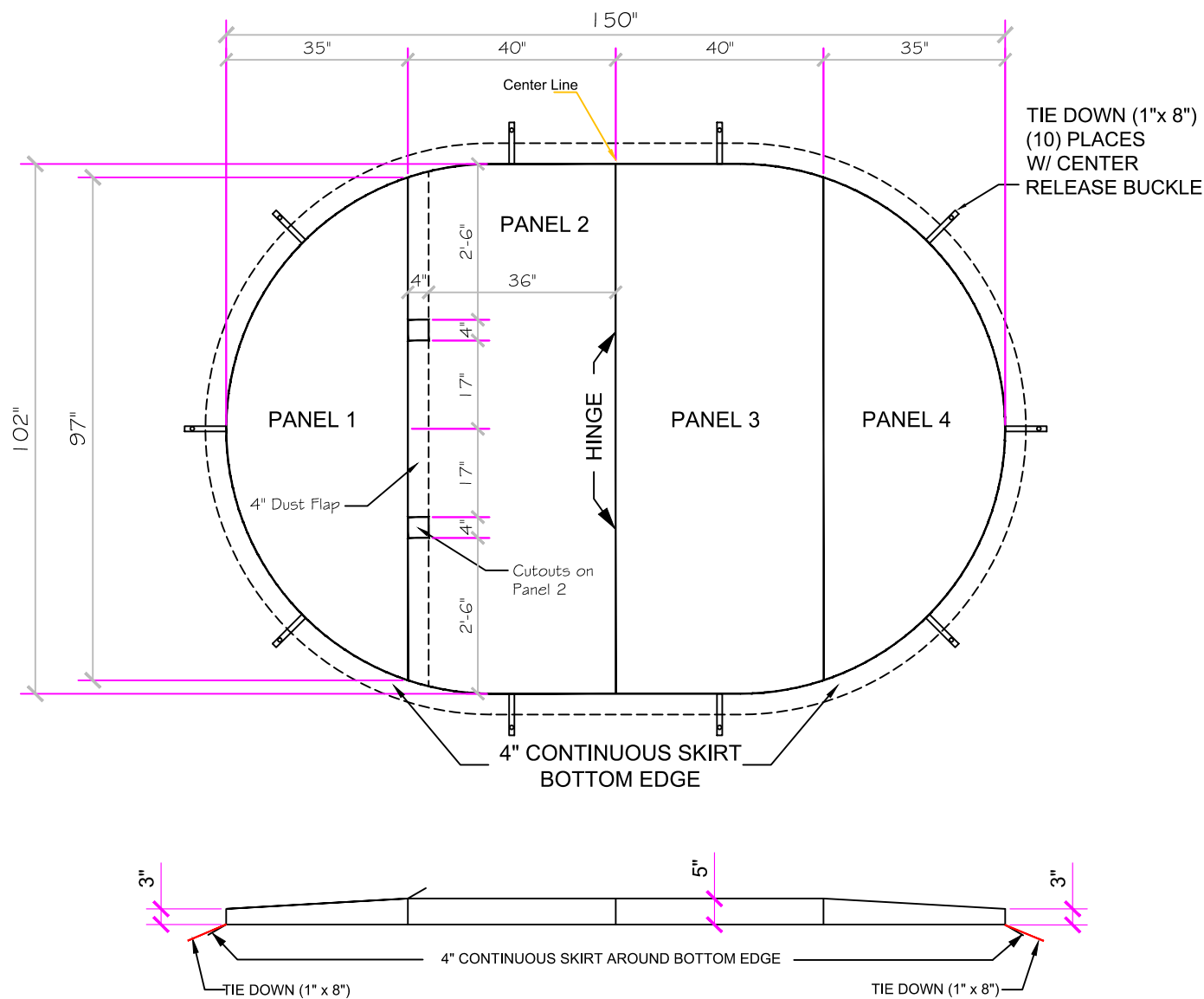
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DWG TYPE

SPA Skimmer

SHEET

PAGE 1 OF 1



## SPA COVER #204-R2

Rust - 4 PC.

For: Mountain Trek

# 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.IAPMO.org](http://www.IAPMO.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

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## IN-GROUND

## INSTALLATION

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

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

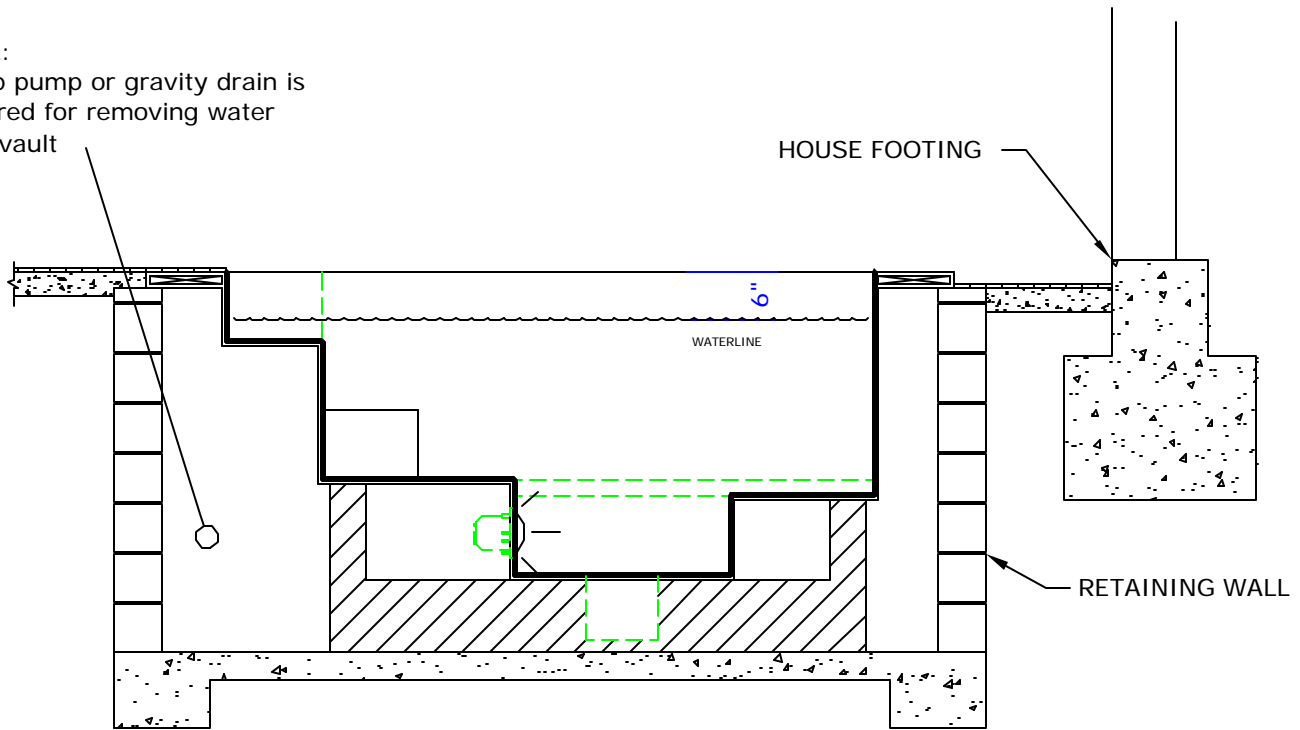
DATE: 3/27/02

JOB : STANDARD INSTALL

DW #: SI-1, SI-2

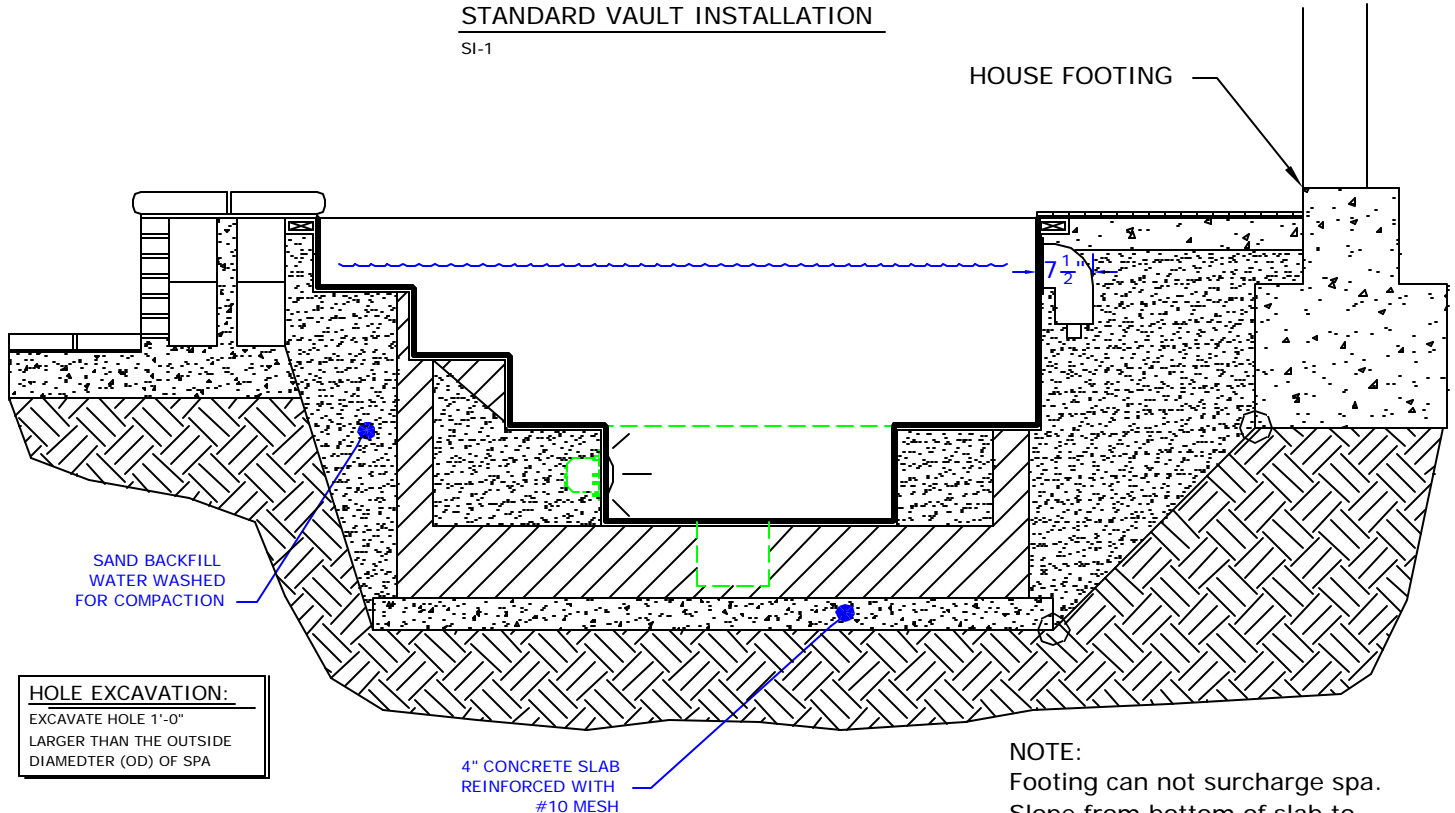
### NOTE:

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



STANDARD VAULT INSTALLATION

SI-1



SAND BACKFILL  
WATER WASHED  
FOR COMPACTION

### 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:

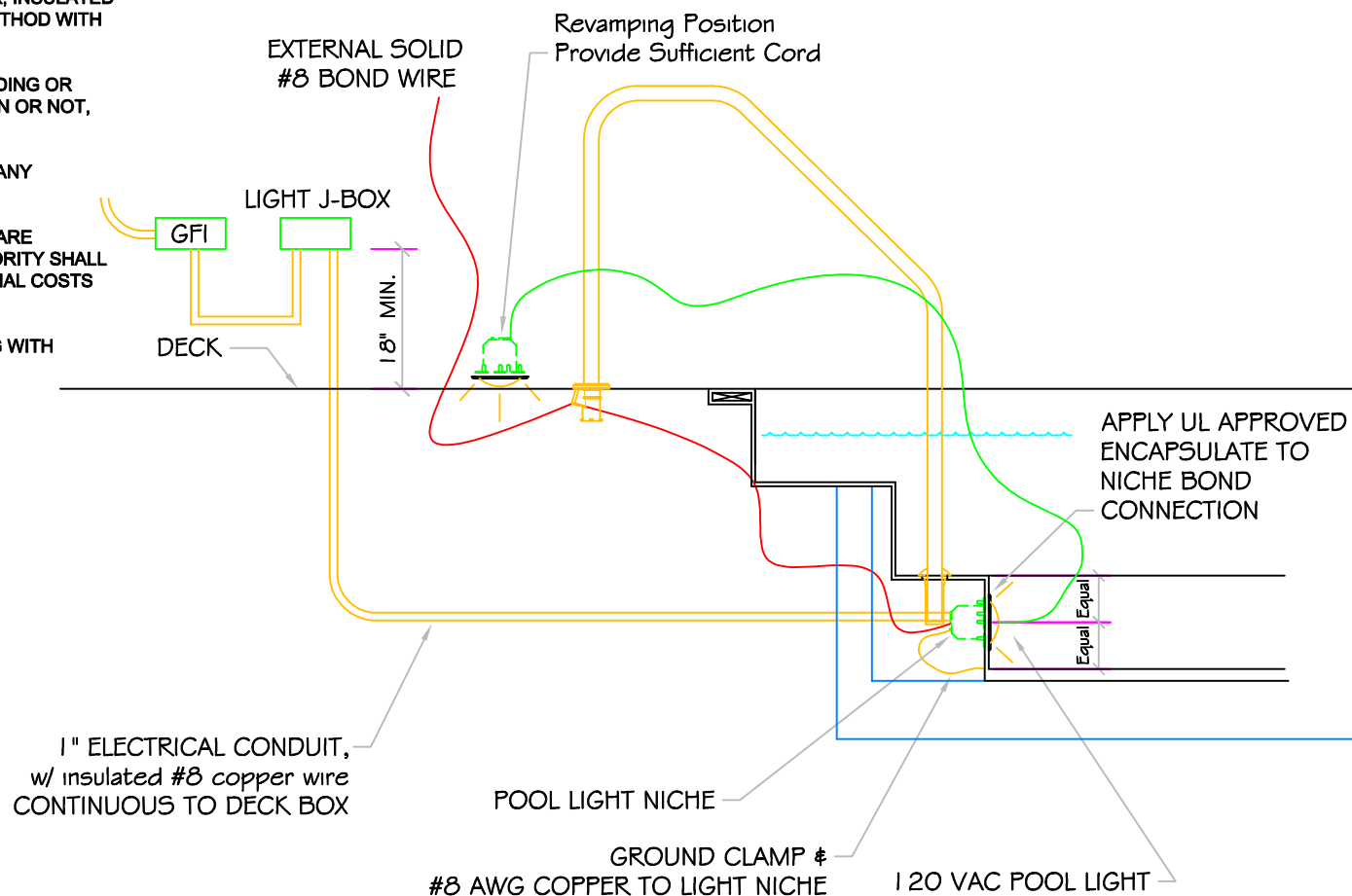
Footing can not surcharge spa.  
Slope from bottom of slab to  
nearest corner of house footing  
must not exceed 1" = 1'.



## 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 COPYING 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.**