



**NESPA**  
TILED SPAS

# **Production Booklet**

**for**

## **The Hub Roof POOL & 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

SPECIFICATIONS	
MODEL	LEGACY PARA
SHELL WEIGHT	9500 LBS.
WATER WEIGHT	43915 LBS.
TOTAL SHELL & WATER WEIGHT	53415 LBS.
WATER VOLUME	704 Cu.Ft.
WATER GALLONS	5266 GAL.
SURFACE AREA	242.2 SQ. FT.
ICC ES LISTED #:	PMG-1161

**SKID SUPPORT STRUCTURE BONDED TO SPA**

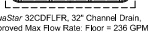
☒  SKIDS SUPPLIED BY NESPA

**LIGHT NICHE**

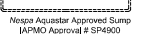
 Zodiac Jandy - Savi MP PFCO 100 30 Watt 12 V White LED Light w/ 100' Cord

 5 Watt 12 V White LED Light w/ 100' Cord

**MAIN DRAIN**

 AquaStar 32CDFLR, 32" Channel Drain, Approved Max Flow Rate: Flow = 226 GPM @ 3.4 f/s Wall = 136 GPM @ 1.9 f/s Complies w/ ANSI/ASME A112.19.8 & NSF/ANSI 150.01

**MAIN DRAIN SUMP**

 Nespa Aquastar Approved Sump IAPMO Approval # SP4900


**SIDEWALL SUCTION**

 AquaStar WAV12, 12" X 12" Frame, Approved Max Flow Rate: Floor/Wal = 361 GPM @ 1.3 f/s Floor/Wal = 400 GPM @ 1.5 f/s 85.2 Sq In - Open Area V.C.S.B. Approved, Safety Drain

**SIDEWALL SUMP**

 Nespa Aquastar Approved Sump IAPMO Approval # SP4900

**SKIMMER**

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

**JET**

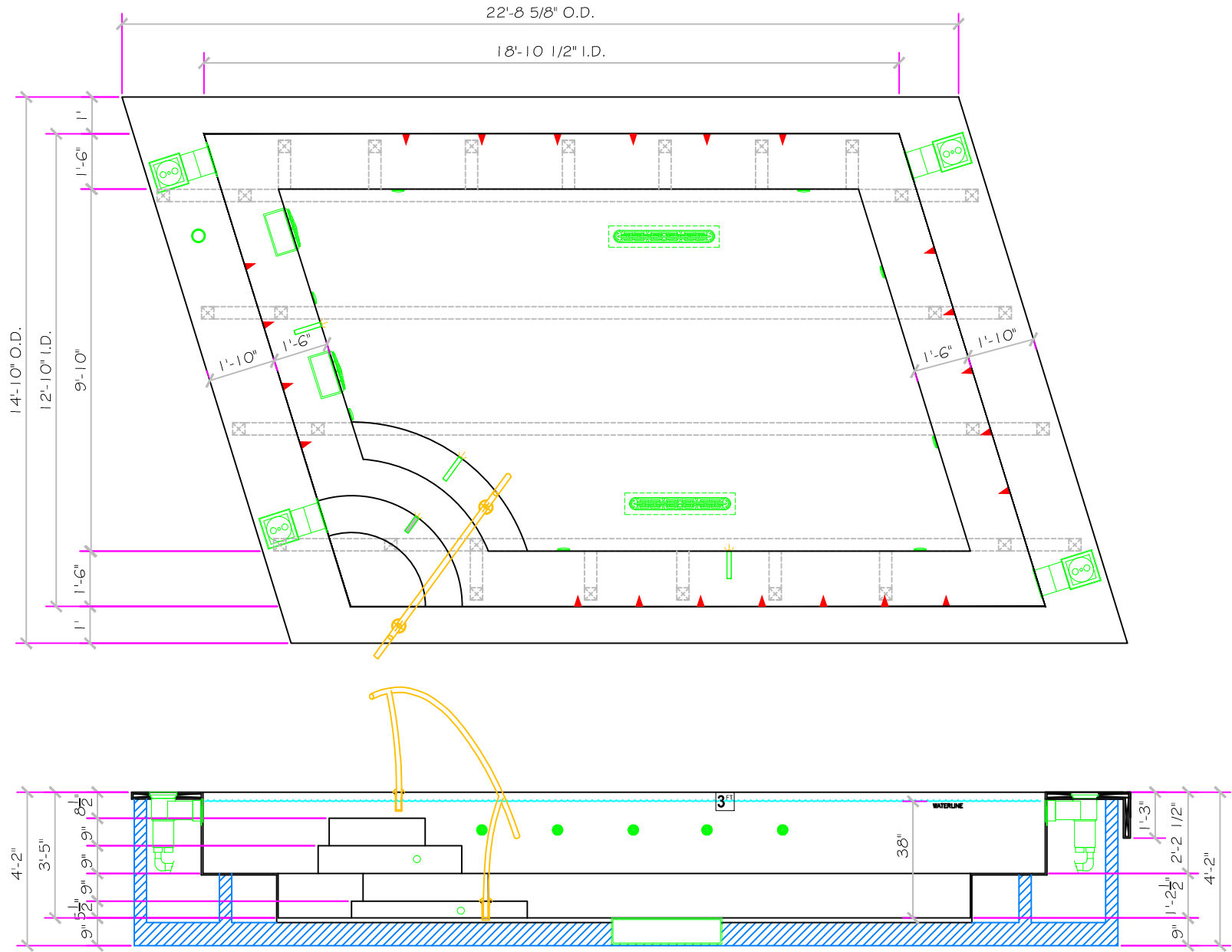
 HYDRO INLETS 1-1/2" WATER - 1-1/2" AIR HYDROAIR #10-5100 COMPLIES W/ ANSI CODE ASME A112.19.8-08 UL APPROVED

**RETURN**

 INLET FITTINGS 1-1/2" WALL TYPE W/ EYEBALL HYDROAIR #10-5000 COMPLIES W/ ANSI CODE ASME A112.19.8-08 UL APPROVED

**FILL**

 INLET FITTINGS 1-1/2" WALL TYPE W/ EYEBALL HYDROAIR #10-5000 COMPLIES W/ ANSI CODE ASME A112.19.8-08 UL APPROVED



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**AS-BUILT**

ALL DIMENSIONS SUBJECT TO 1/4" TOLERANCES

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If printing as a PDF:  
 Page Scaling: None  
 DWG NAME  
 THE HUB - LEGACY PARA - Roof Spa

SCALE  
 1/4" = 1'  
 0 1/4 1/2 3/4 1"

DATE  
 12/10/2014

DWG TYPE  
 Roof Spa SD  
 SHEET  
 PAGE 1 OF 9

- #1 - FIELD TILE:     Dal Tile D014 Desert Grey 2 x 2
- #2 - WATERLINE (optional):     Dal Tile D023 Galaxy 2 x 2
- #3 - BENCH & STEP EDGES (optional):     Dal Tile D023 Galaxy 2 x 2
- #4 - TILED LIP (optional):     Dal Tile D014 Desert Grey 2 x 2

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

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

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

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

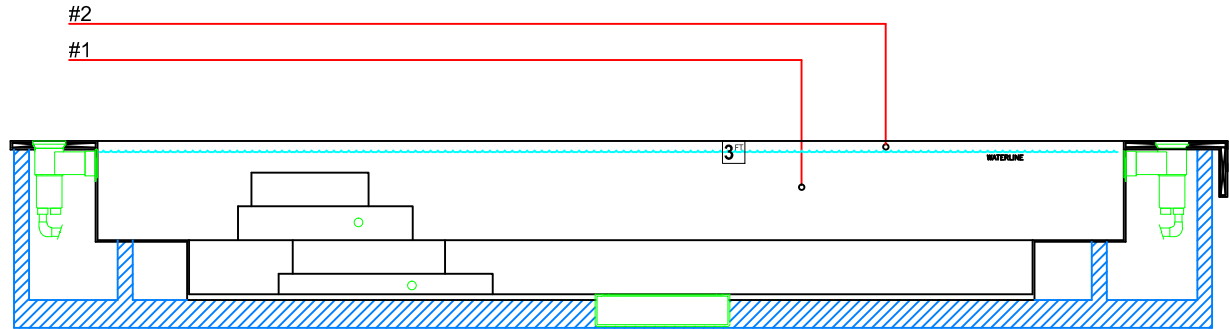
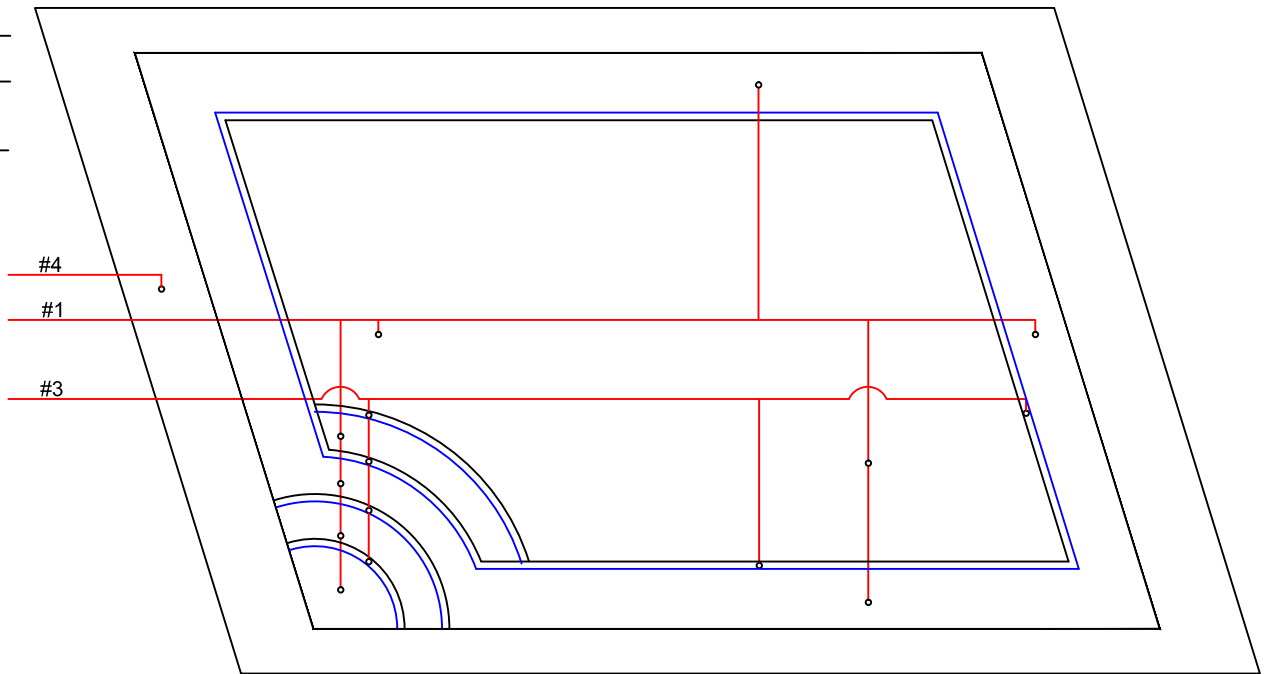
#3 - GROUT: \_\_\_\_\_



Dal Tile D014  
Desert Grey 2 x 2



Dal Tile D023  
Galaxy 2 x 2



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



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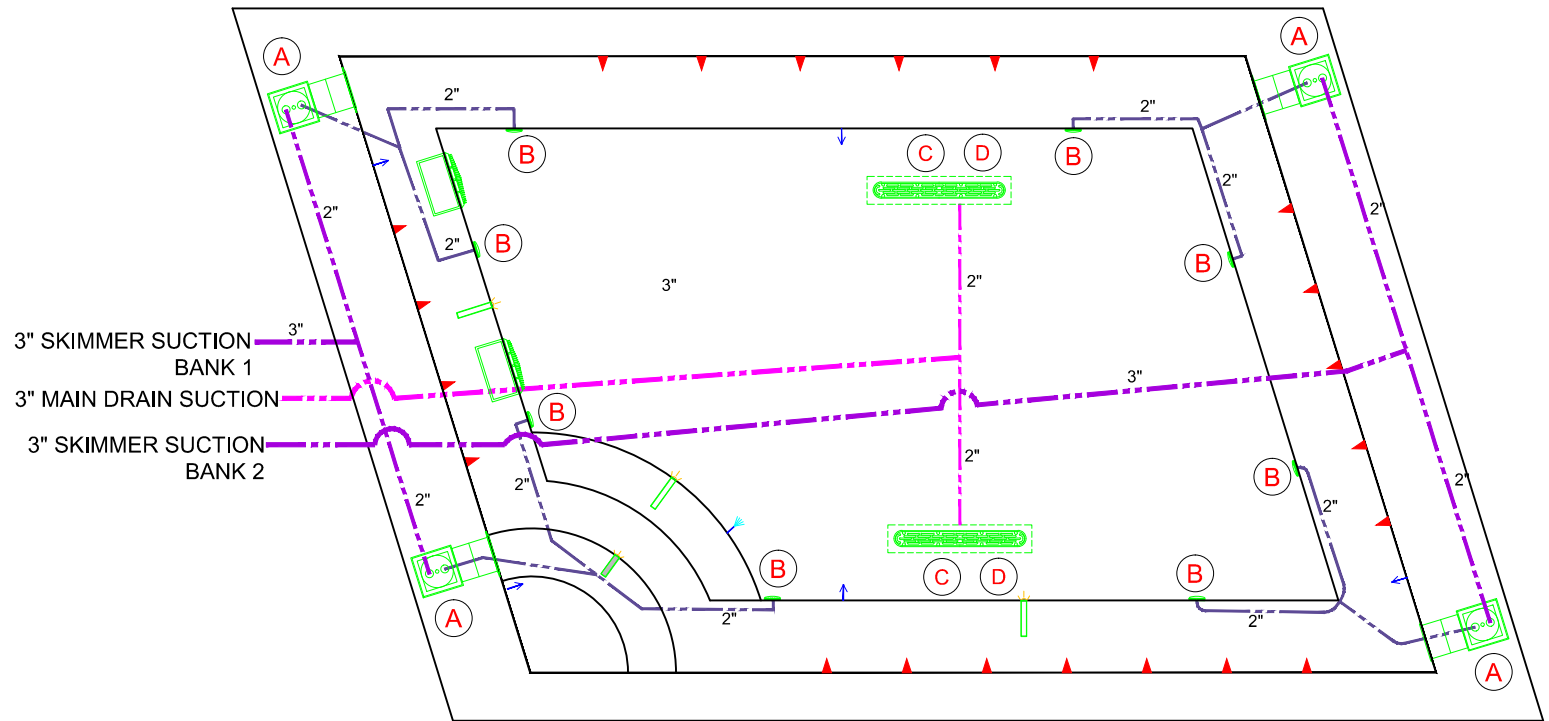
DWG NAME  
THE HUB - **LEGACY PARA** - Roof Spa

DATE  
12/4/2014

DWG TYPE  
Roof Spa TILE  
SHEET  
PAGE 2 OF 9

# Circulation Suction Plumbing

<b>SKIMMER</b>	<b>(A)</b>
 <p>HAYWARD SP-1084FVE SURFACE SKIMMER W/ EQUALIZER, NSF APPROVED</p>	
<b>EQUALIZER</b>	<b>(B)</b>
 <p>4" Round Hockey Puck AquaStar 4HPHxxx Sumpless Suction Outlet Floor/wall: 56 GPM at 3.5 fps 5.2 square inch opening Complies w/ ANSI Code ASME A112.19.8-2007 &amp; VGB 2008</p>	
<b>MAIN DRAIN</b>	<b>(C)</b>
 <p>AquaStar 32CDFLFR, 32" Channel Drain, Approved Max Flow Rate: Floor = 236 GPM @ 3.4 fps Wall = 136 GPM @ 1.9 fps Complies w/ ANSI / ASME A112.19.8 &amp; NSF / ANSI 16-2011</p>	
<b>MAIN DRAIN SUMP</b>	<b>(D)</b>
 <p>Nespa AquaStar Approved Sump HPMO Approval # SP4900</p>	



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

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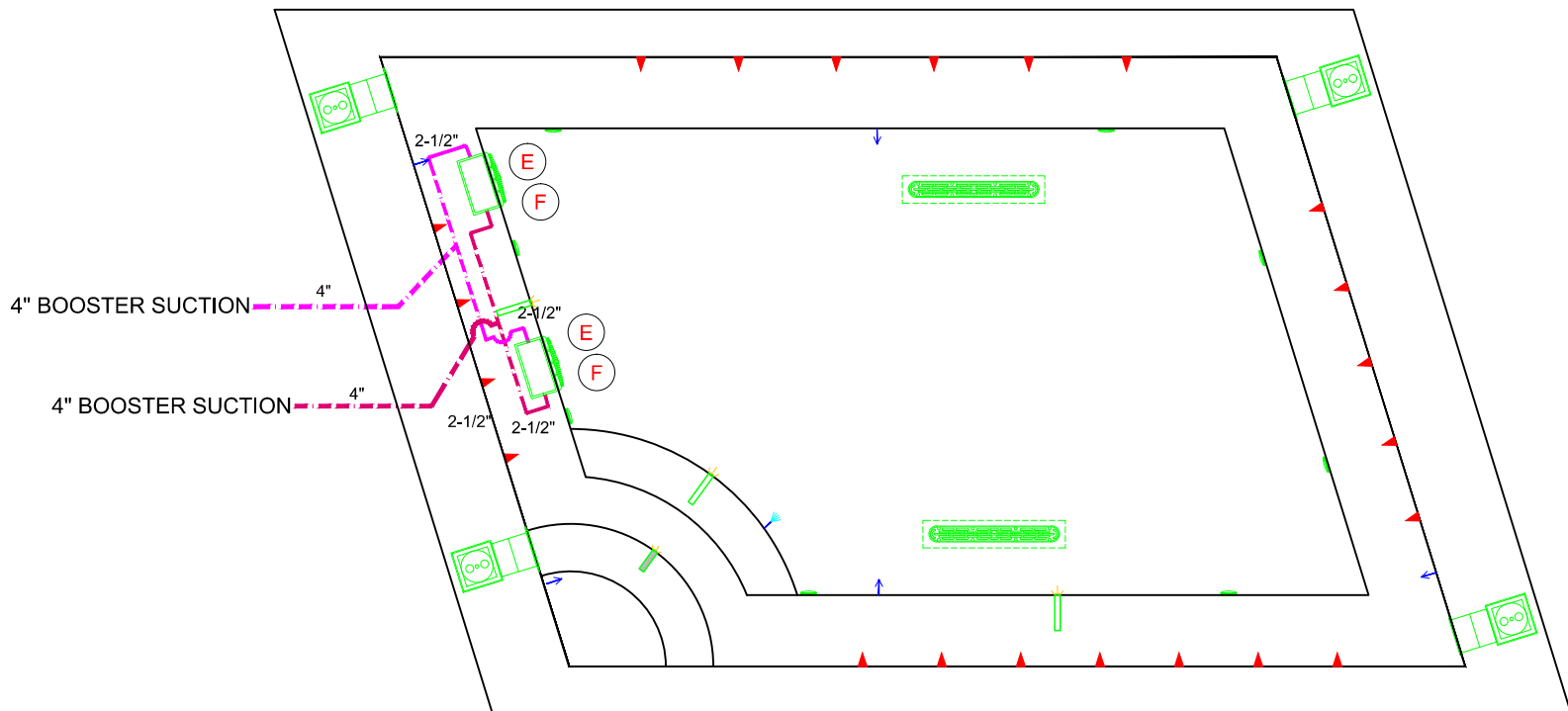
DWG TYPE  
Roof Spa Circ Suction Plumbing

DWG NAME  
THE HUB - **LEGACY PARA** - Roof Spa

DATE 12/10/2014 SHEET PAGE 3 OF 9

# Booster Jet Suction Plumbing

	<b>SIDEWALL SUCTION</b> AquaStar WAV12, 12" X 12" Frame, Approved Max Flow Rate: Floor/Wall = 361 GPM @ 1.3 fps Floor/Wall = 400 GPM @ 1.5 fps 85.2 Sq In - Open Area V.G.B Approved Safety Drain	<b>E</b>
	<b>SIDEWALL SUMP</b> Nespa Aquastar Approved Sump IAPMO Approval # SP4900	<b>F</b>



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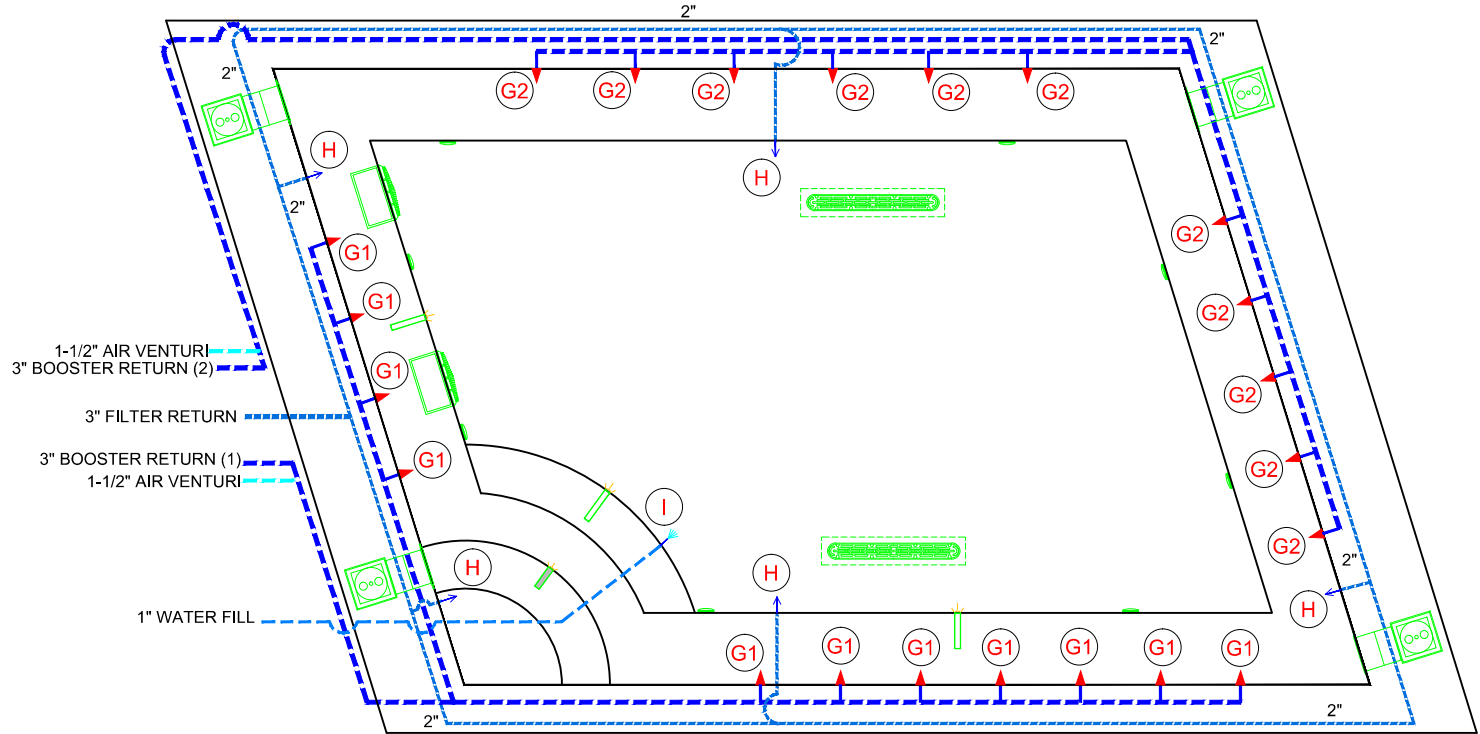
DWG NAME  
**THE HUB - LEGACY PARA - Roof Spa**

SCALE  
**1/4" = 1'**

DWG TYPE <b>Roof Spa Booster Suction Plumbing</b>	
DATE <b>12/10/2014</b>	SHEET <b>PAGE 4 OF 9</b>

# Filter and Booster Jet Return Plumbing

<b>JET</b>	HYDRO INLETS 1-1/2" WATER - 1-1/2" AIR HYDROAIR #10-5100 COMPLIES W/ ANSI CODE ASME A112.19.8-08 UL APPROVED	(G)
<b>RETURN</b>	INLET FITTINGS 1-1/2" WALL TYPE W/ EYEBALL HYDROAIR #10-3500 COMPLIES W/ ANSI CODE ASME A112.19.8-08 UL APPROVED	(H)
<b>FILL</b>	INLET FITTINGS 1-1/2" WALL TYPE W/ EYEBALL HYDROAIR #10-3500 COMPLIES W/ ANSI CODE ASME A112.19.8-08 UL APPROVED	(I)



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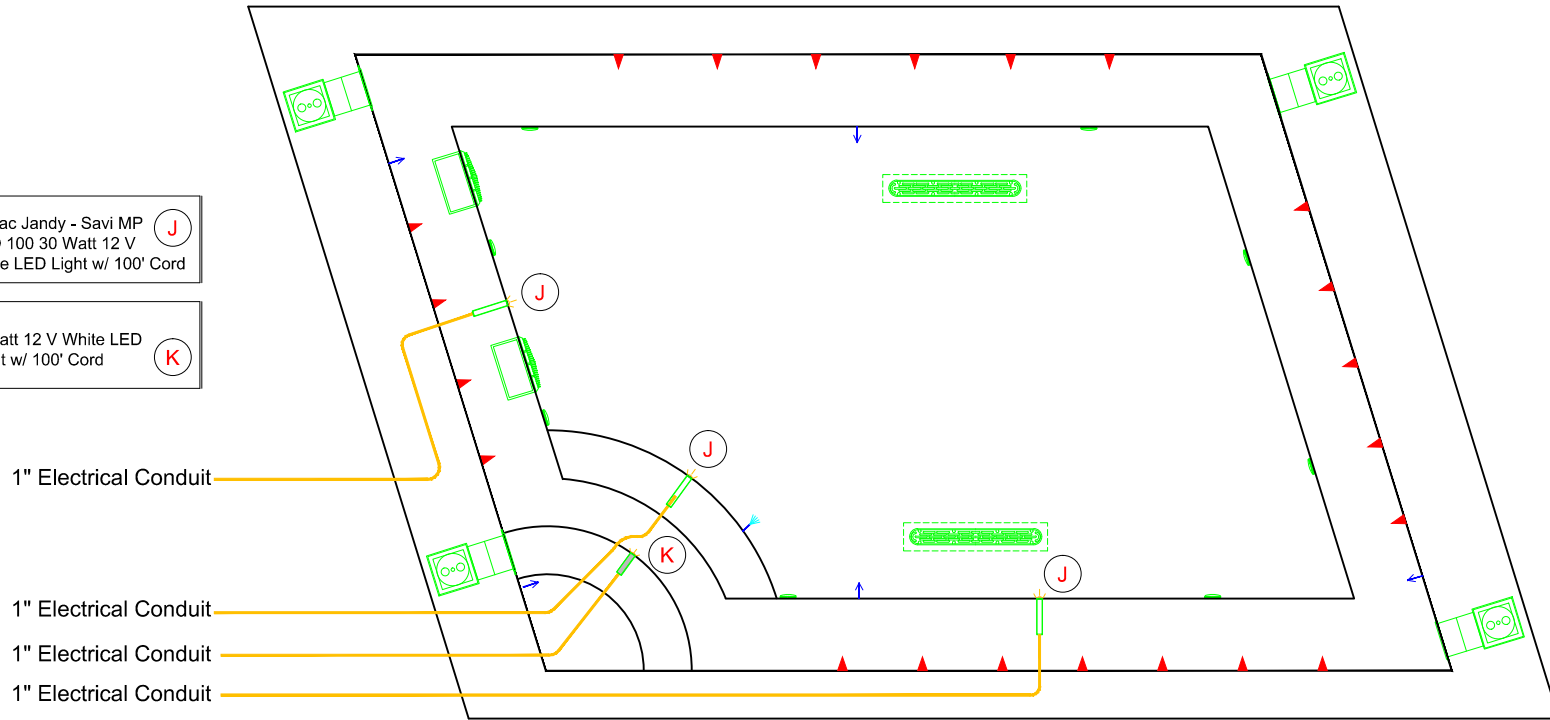


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 DWG NAME: THE HUB - LEGACY PARA - Roof Spa

DWG TYPE: Roof Spa Return Plumbing  
 DATE: 12/10/2014  
 SHEET: PAGE 5 OF 9

# LED Lighting Plan

- LIGHT** Zodiac Jandy - Savi MP (J)  
PRO 100 30 Watt 12 V  
White LED Light w/ 100' Cord
- LIGHT** 5 Watt 12 V White LED (K)  
Light w/ 100' Cord



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**If printing as a PDF:**

Page Scaling:

SCALE  
1/4" = 1'

DWG TYPE

Roof Spa Electrical

DWG NAME

THE HUB - **LEGACY PARA** - Roof Spa

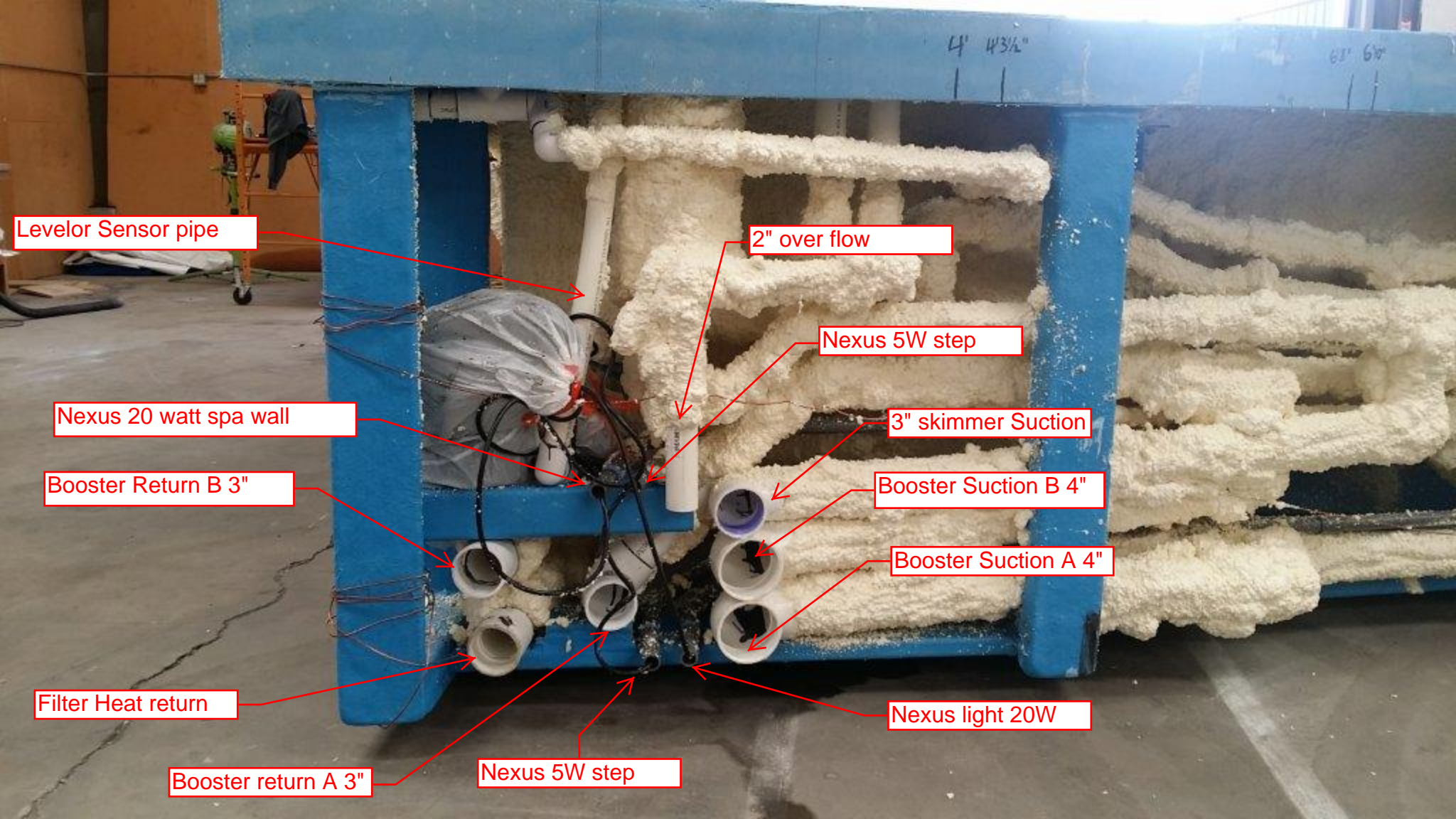
DATE

12/10/2014

SHEET

PAGE 6 OF 9





Levelor Sensor pipe

2" over flow

Nexus 5W step

Nexus 20 watt spa wall

3" skimmer Suction

Booster Return B 3"

Booster Suction B 4"

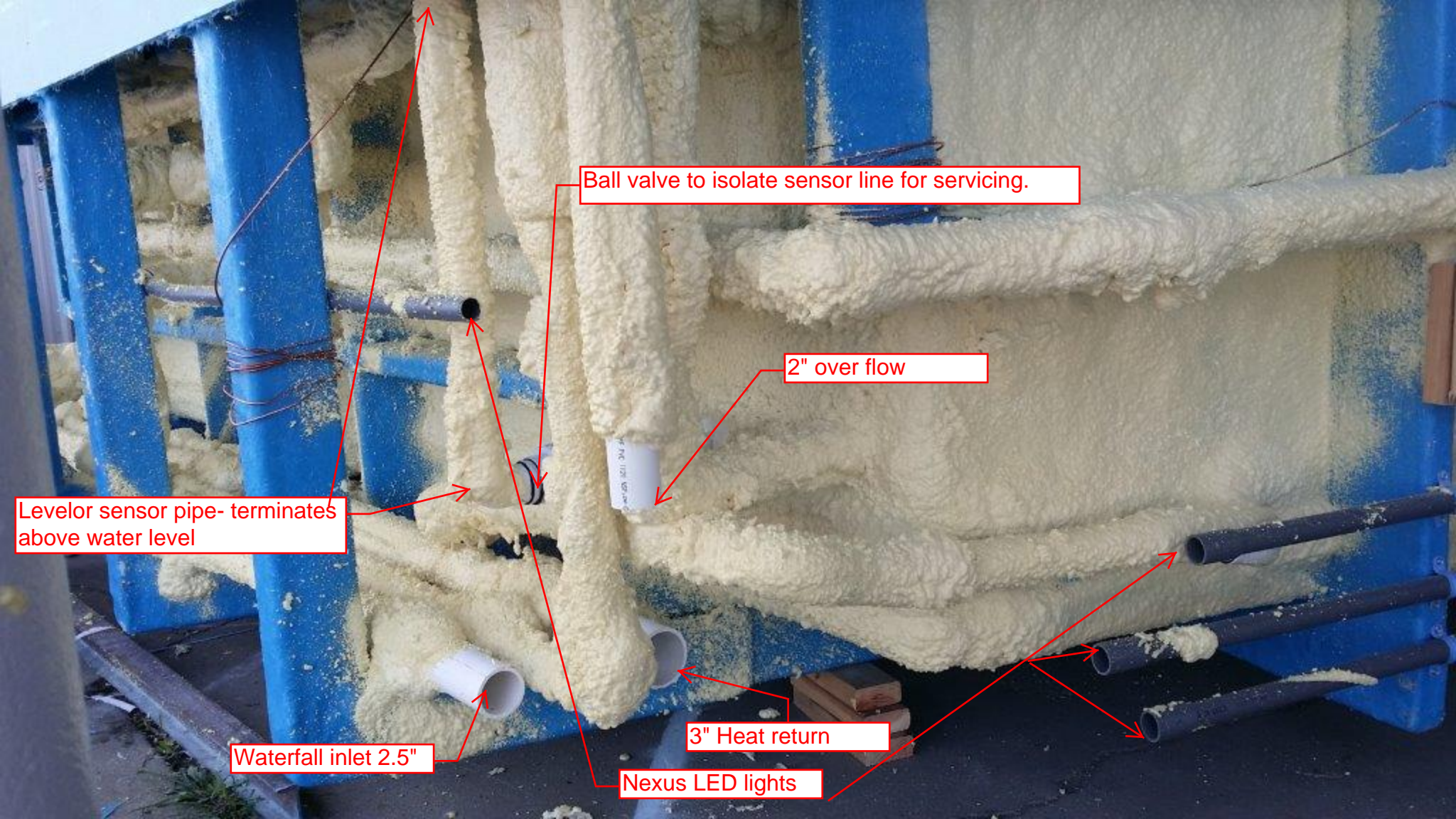
Booster Suction A 4"

Filter Heat return

Nexus light 20W

Booster return A 3"

Nexus 5W step



Ball valve to isolate sensor line for servicing.

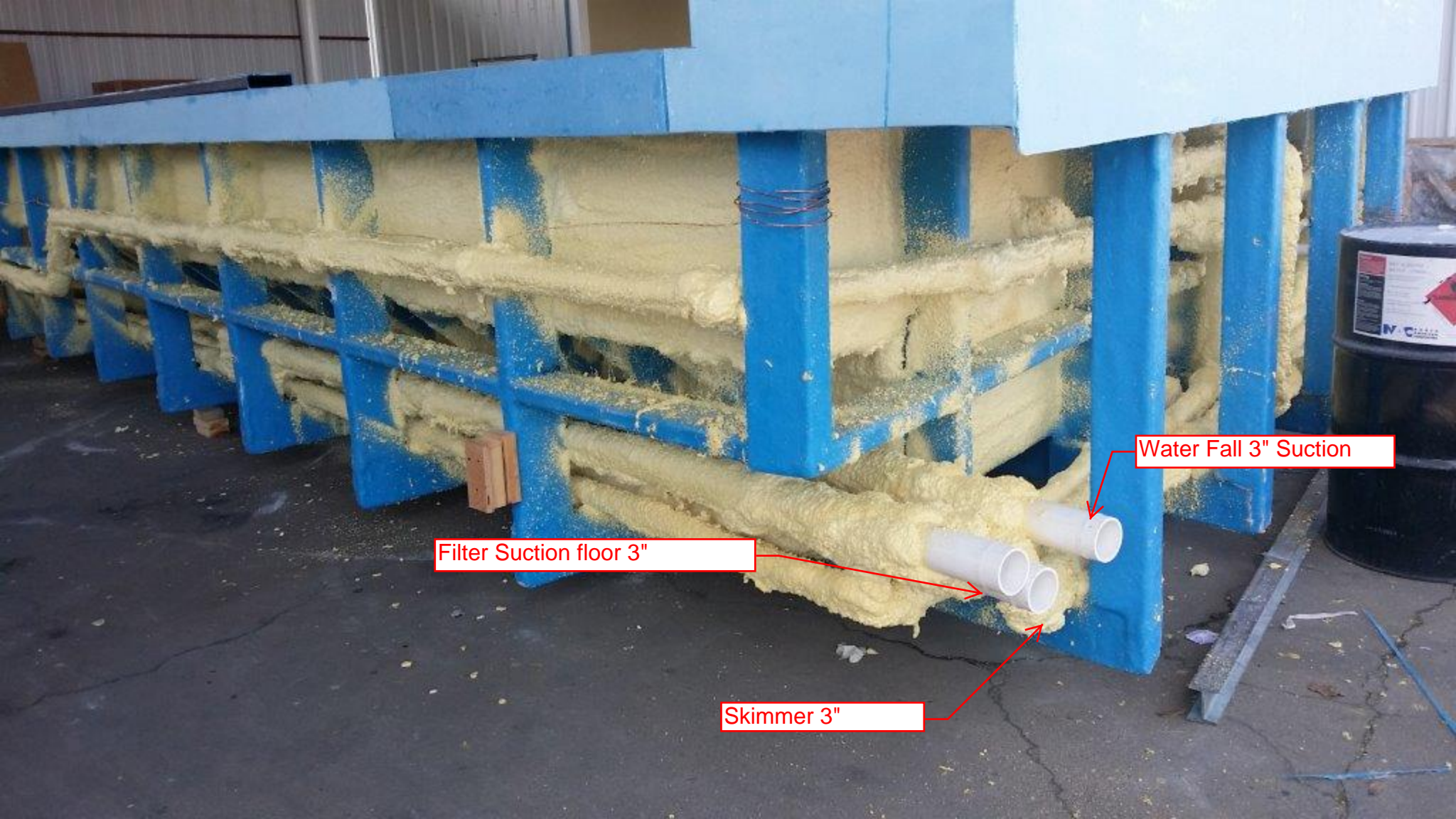
2" over flow

Levelor sensor pipe- terminates above water level

Waterfall inlet 2.5"

3" Heat return

Nexus LED lights



Filter Suction floor 3"

Skimmer 3"

Water Fall 3" Suction

Skimmer suction



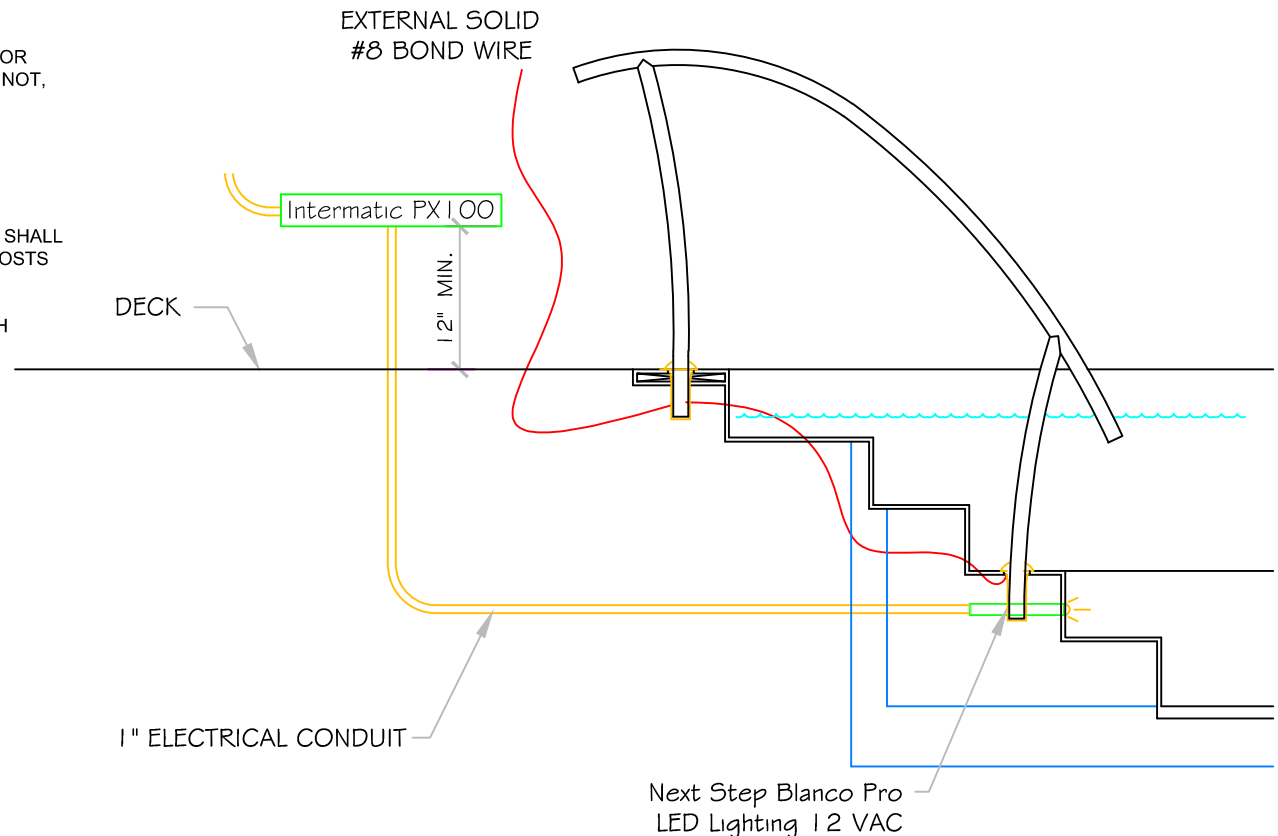
Filter Suction



## 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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If printing as a PDF:

Page Scaling:

SCALE  
 1/2" = 1'

DWG TYPE

Roof Spa Light Detail

DWG NAME

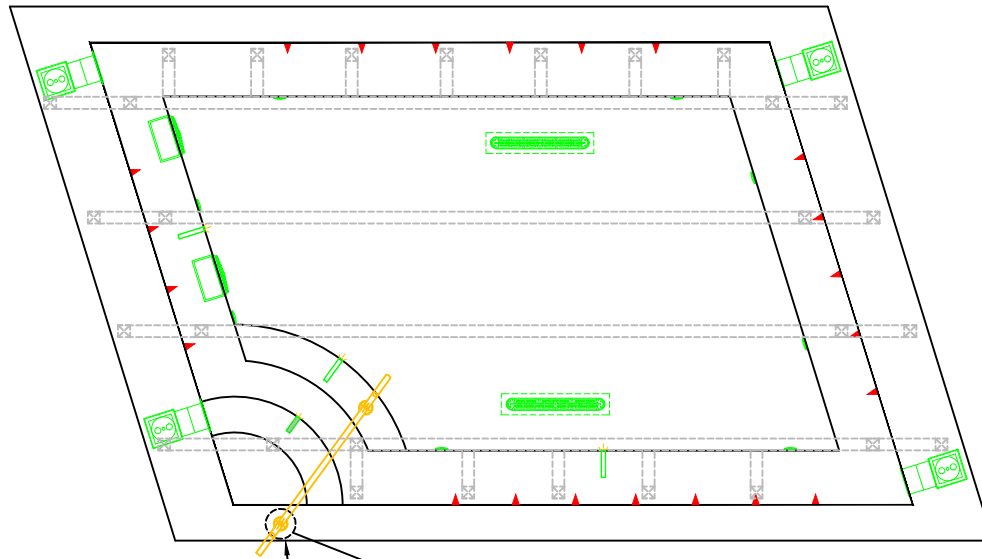
THE HUB - **LEGACY PARA** - Roof Spa

DATE

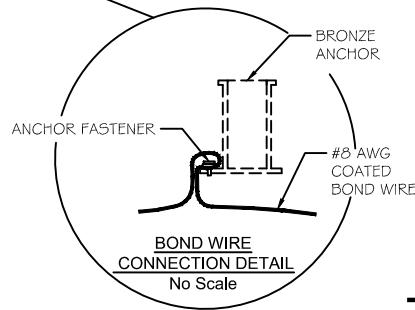
10/9/2014

SHEET

PAGE 7 OF 9



HANDRAILS AND ANCHORS



### 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

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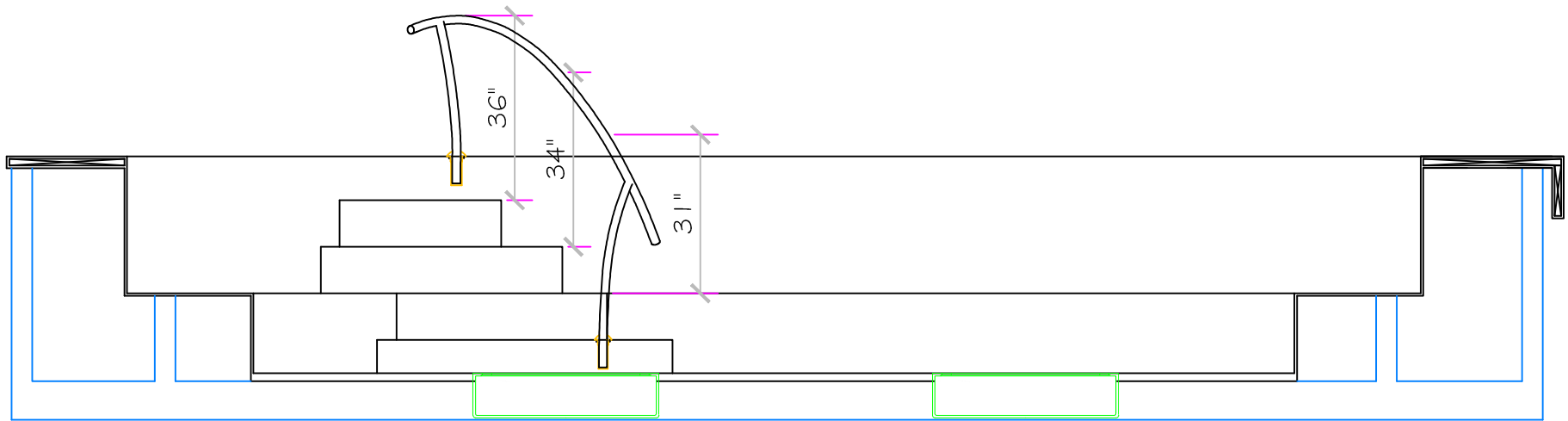
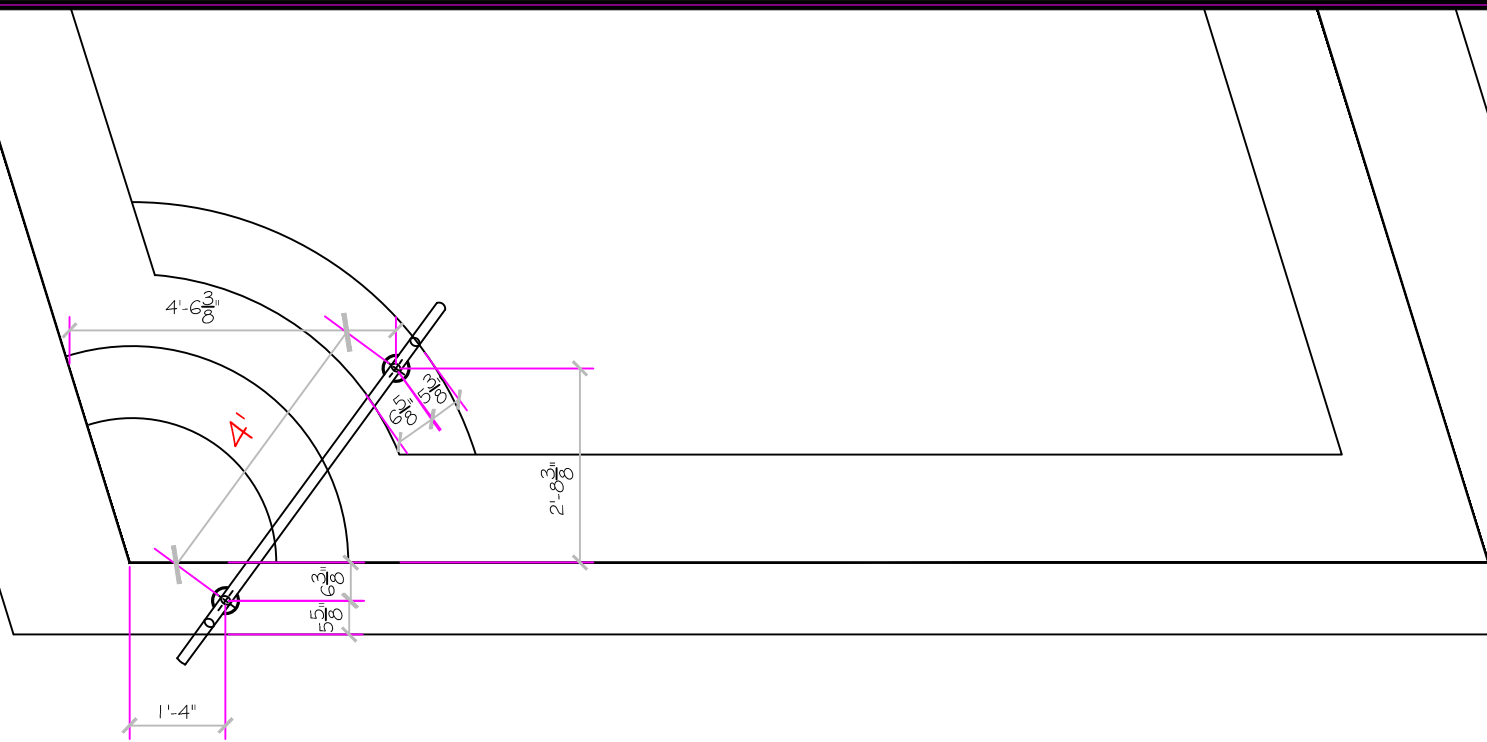
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DWG TYPE  
 Roof Spa Bonding

DWG NAME  
 THE HUB - **LEGACY PARA** - Roof Spa

DATE  
 12/4/2014

SHEET  
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If printing as a PDF:

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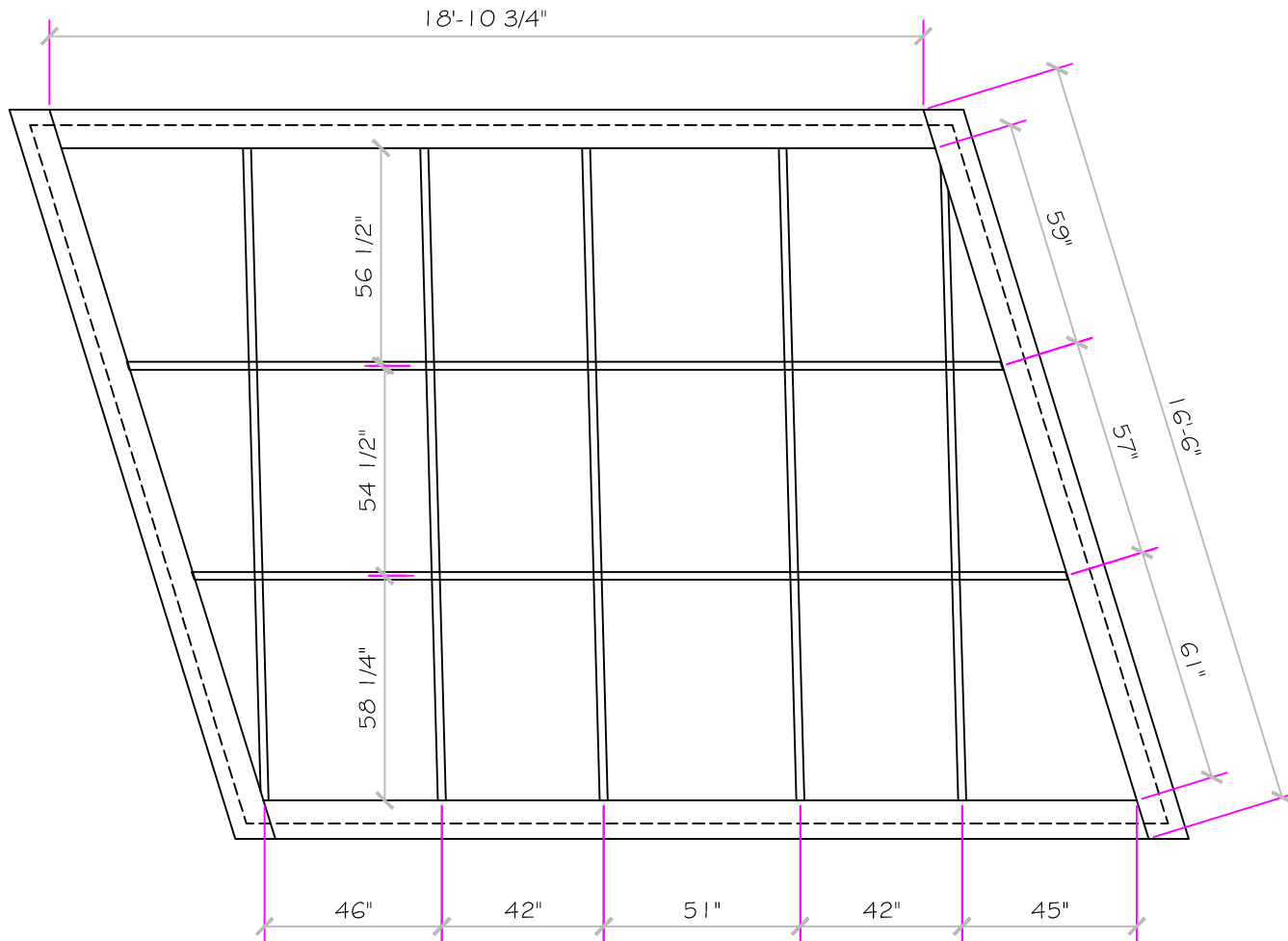
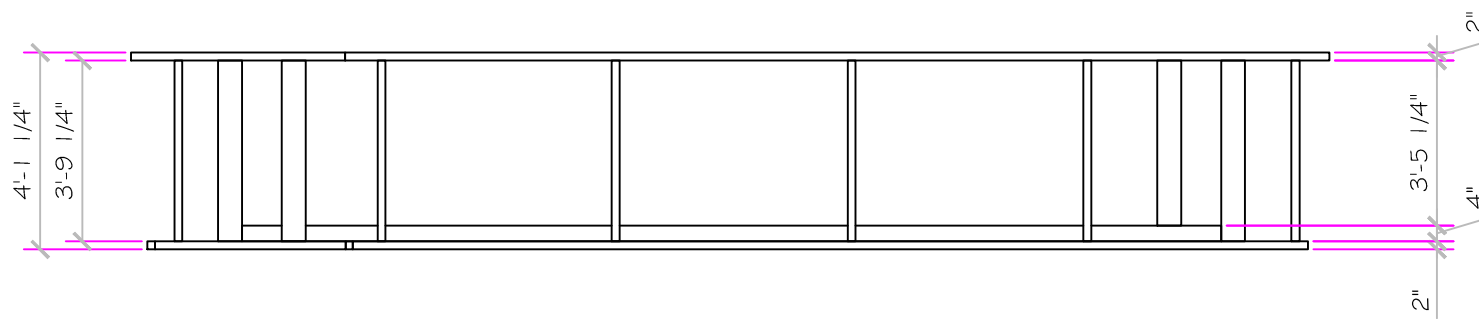
DWG TYPE

Roof Spa Handrail

DWG NAME  
 THE HUB - **LEGACY PARA** - Roof Spa

DATE  
 12/4/2014

SHEET  
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Page Scaling:

SCALE  
 1/4" = 1'



DWG NAME  
**THE HUB - LEGACY PARA - Roof Spa**

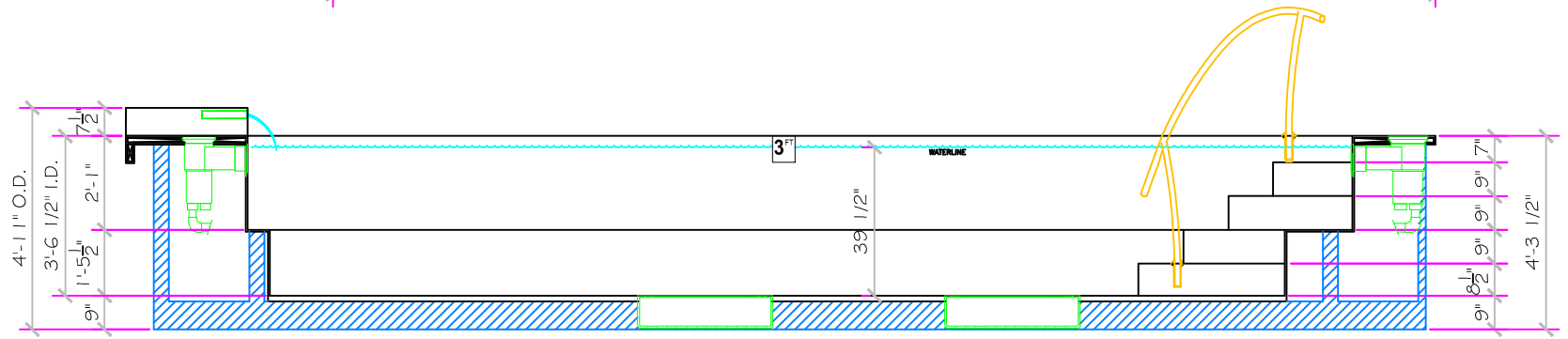
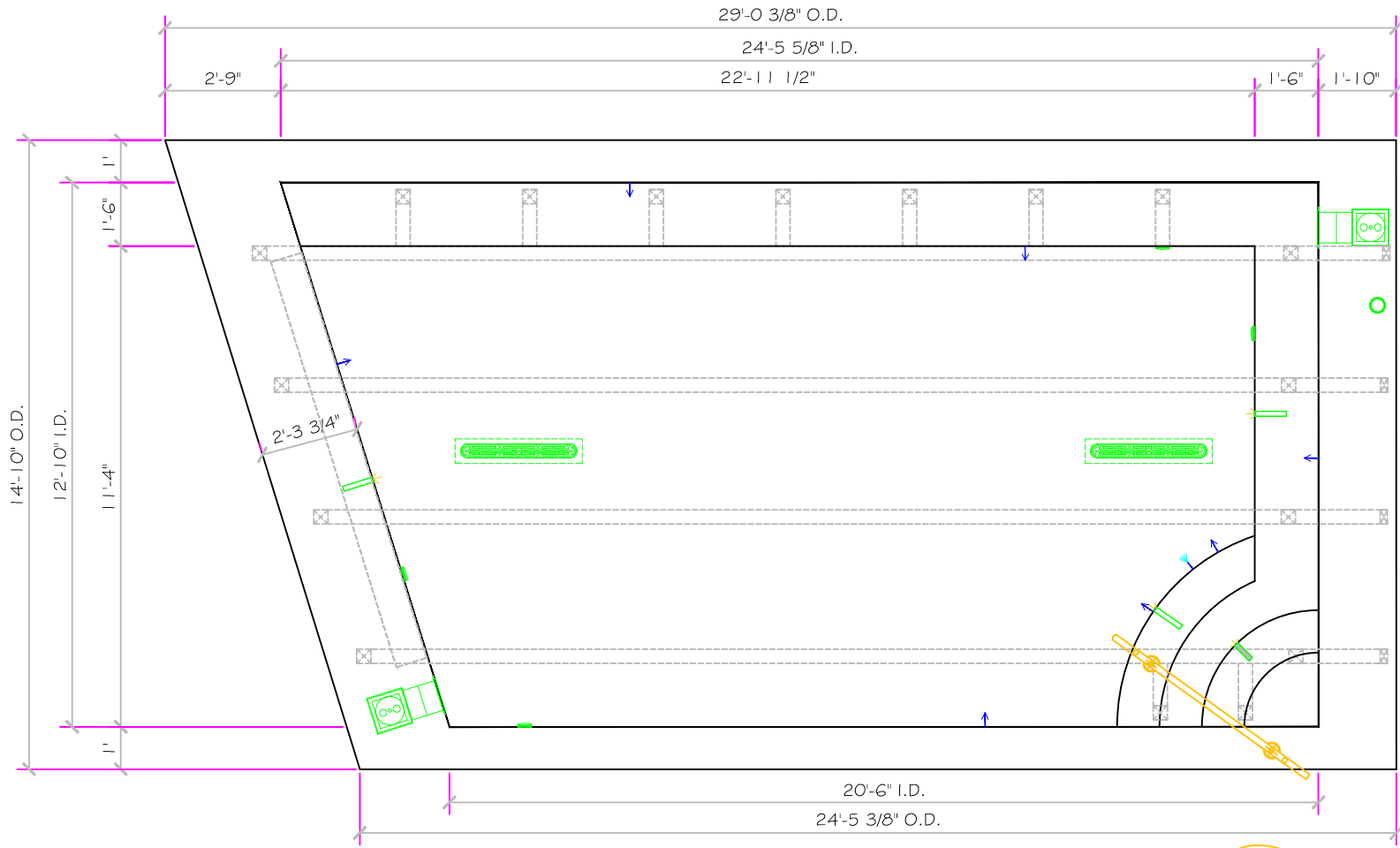
DATE  
 11/18/2014

DWG TYPE  
 Roof Spa Steel  
 SHEET  
 PAGE 1 OF 1



SPECIFICATIONS	
MODEL	LEGACY C
SHELL WEIGHT	15000 LBS.
WATER WEIGHT	52399 LBS.
TOTAL SHELL & WATER WEIGHT	67399 LBS.
WATER VOLUME	840 Cu. Ft.
WATER GALLONS	6283 GAL.
SURFACE AREA	288.7 SQ. FT.
ICC ES LISTED #	PMG-1161

SKID SUPPORT STRUCTURE* BONDED TO SPA	
	*SKIDS SUPPLIED BY NESPA
LIGHT NICHE	
	Zodiac Jandy - Savi MP PRO 100 30 Watt 12 V White LED Light w/ 100' Cord
	5 Watt 12 V White LED Light w/ 100' Cord
MAIN DRAIN	
	AquaStar 32CDFLFR, 32" Channel Drain, Approved Max Flow Rate: Floor = 236 GPM @ 3.4 lbs. Water = 150 GPM @ 1.5 lbs. Complies w/ ANSI / ASME A112.19.8 & NSF / ANSI 18-2011
MAIN DRAIN SUMP	
	Heppel Aquastar Approved Sump IAPMO Approval # SP4900
SKIMMER	
	HAYWARD SP-108FIVE SURFACE SKIMMER W/ EQUALIZER, NSF APPROVED
JET	
	HYDRO INLETS 1-1/2" WATER - 1-1/2" AIR HYDROAIR #10-3500 COMPLIES W/ ANSI CODE ASME A112.19.8-08 UL APPROVED
RETURN	
	INLET FITTINGS 1-1/2" WALL TYPE W/ EYEBALL HYDROAIR #10-3500 COMPLIES W/ ANSI CODE ASME A112.19.8-08 UL APPROVED
FILL	
	INLET FITTINGS 1-1/2" WALL TYPE W/ EYEBALL HYDROAIR #10-3500 COMPLIES W/ ANSI CODE ASME A112.19.8-08 UL APPROVED



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**AS-BUILT**

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 DWG NAME  
**THE HUB - LEGACY C - Roof Pool**

SCALE  
 1/4" = 1'  
 DATE  
 12/10/2014

DWG TYPE  
**Roof Pool SD**  
 SHEET  
**PAGE 1 OF 8**

- #1 - FIELD TILE: Dal Tile D014 Desert Grey 2 x 2
- #2 - WATERLINE (optional): Dal Tile D023 Galaxy 2 x 2
- #3 - BENCH & STEP EDGES (optional): Dal Tile D023 Galaxy 2 x 2
- #4 - TILED LIP (optional): Dal Tile D014 Desert Grey 2 x 2

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

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

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

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

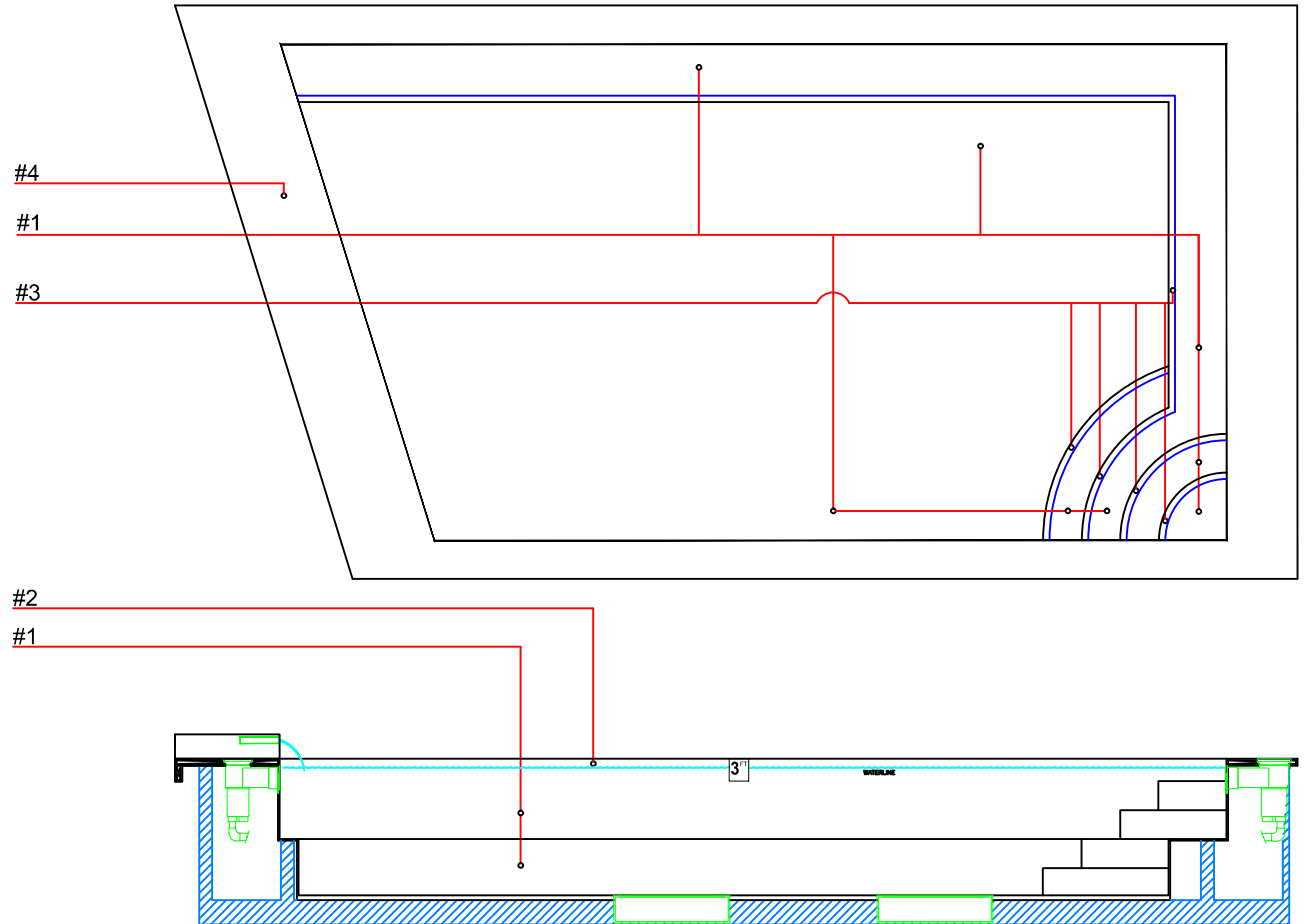
#3 - GROUT: \_\_\_\_\_



Dal Tile D014  
Desert Grey 2 x 2



Dal Tile D023  
Galaxy 2 x 2



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



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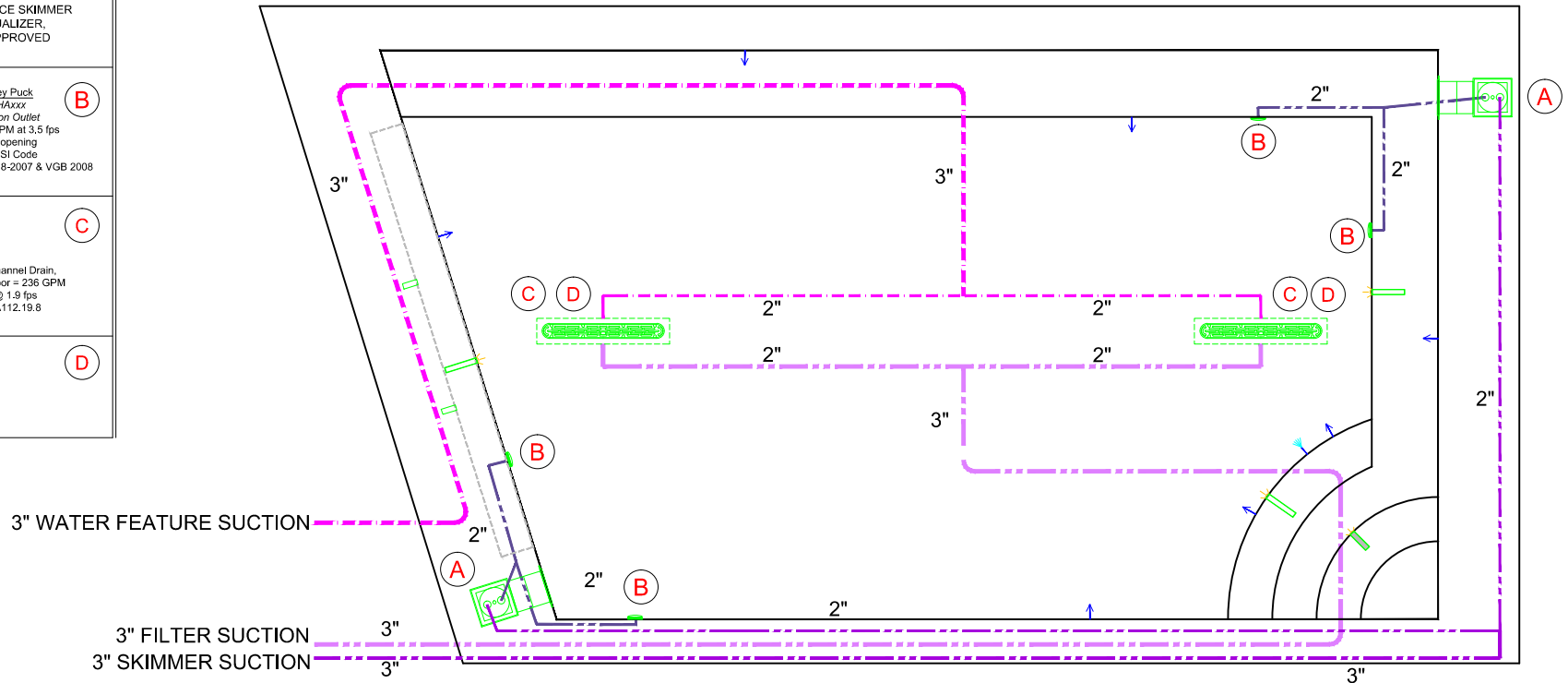
DATE  
12/4/2014

DWG TYPE  
Roof Pool TILE

SHEET  
PAGE 2 OF 8

# Circulation Suction Plumbing

<b>SKIMMER</b>	(A)
	HAYWARD SP-1084FVE SURFACE SKIMMER W/ EQUALIZER, NSF APPROVED
<b>EQUALIZER</b>	(B)
	4" Round Hockey Puck AquaStar 4HPHxxx Sumplex Suction Outlet Floorwall: 56 GPM at 3.5 fps 5.2 square inch opening Complies w/ ANSI Code ASME A112.19.8-2007 & VGB 2008
<b>MAIN DRAIN</b>	(C)
	AquaStar 32CDFLFR, 32" Channel Drain, Approved Max Flow Rate: Floor = 236 GPM @ 3.4 fps Wall = 136 GPM @ 1.9 fps Complies w/ ANSI / ASME A112.19.8 & NSF / ANSI 16-2011
<b>MAIN DRAIN SUMP</b>	(D)
	Wepac Equalizer Approved Sump IAPMO Approval # SP4900



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
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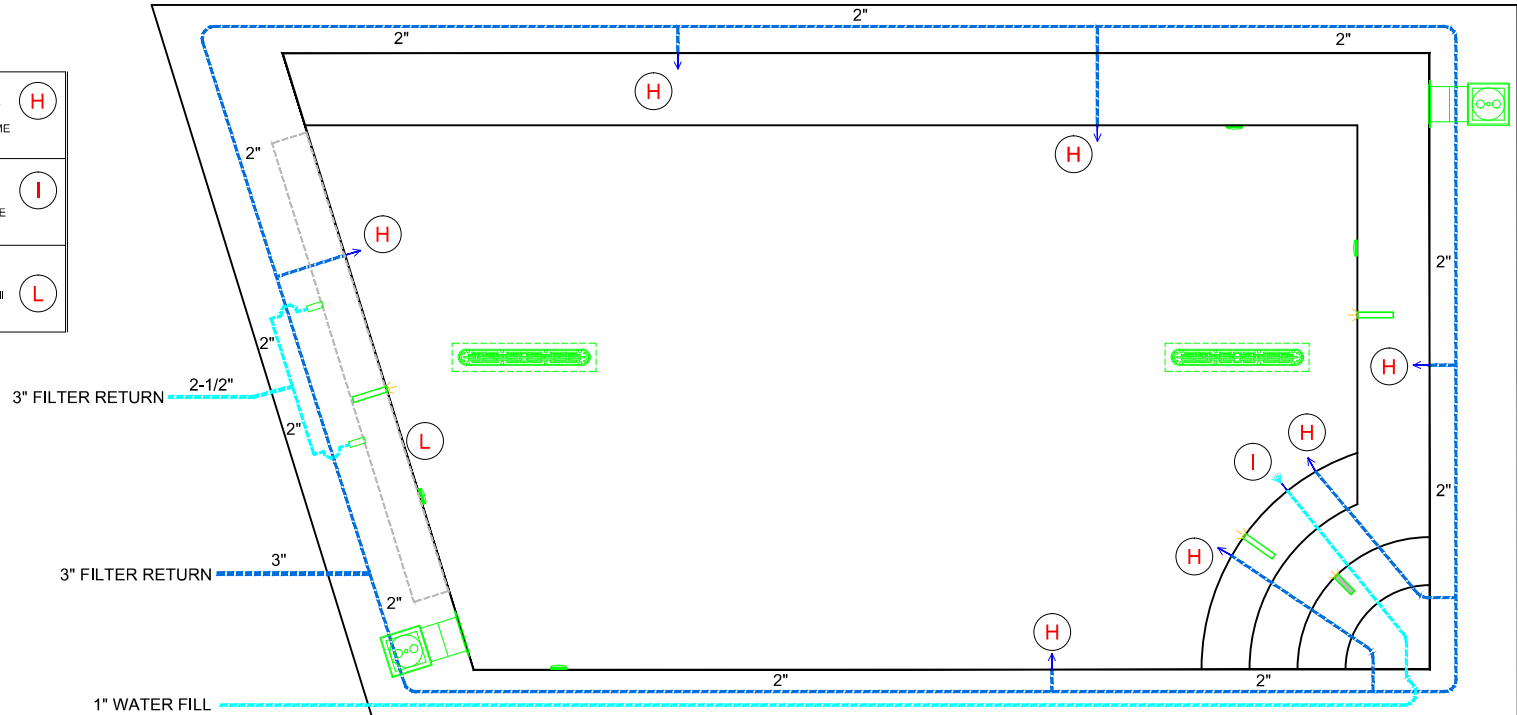
DWG TYPE  
Roof Pool Circ Suction Plumbing

DWG NAME  
THE HUB - **LEGACY C** - Roof Pool

DATE 12/10/2014 SHEET PAGE 3 OF 8

# Filter Return Plumbing

<b>RETURN</b>	<b>INLET FITTINGS</b> 1-1/2" WALL TYPE W/ EYEBALL HYDROAIR #10-3500 COMPLIES W/ ANSI CODE ASME A112.19.8-08 UL APPROVED	<b>H</b>
<b>FILL</b>	<b>INLET FITTINGS</b> 1-1/2" WALL TYPE W/ EYEBALL HYDROAIR #10-3500 COMPLIES W/ ANSI CODE ASME A112.19.8-08 UL APPROVED	<b>I</b>
	<b>OREQ - CUSTOM CASCADE</b> 2000 Series - Stainless Steel Sheet Metal Waterfall 1-1/2" Coupling	<b>L</b>



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Page Scaling:

SCALE  
1/4" = 1'

DWG TYPE  
Roof Pool Return Plumbing

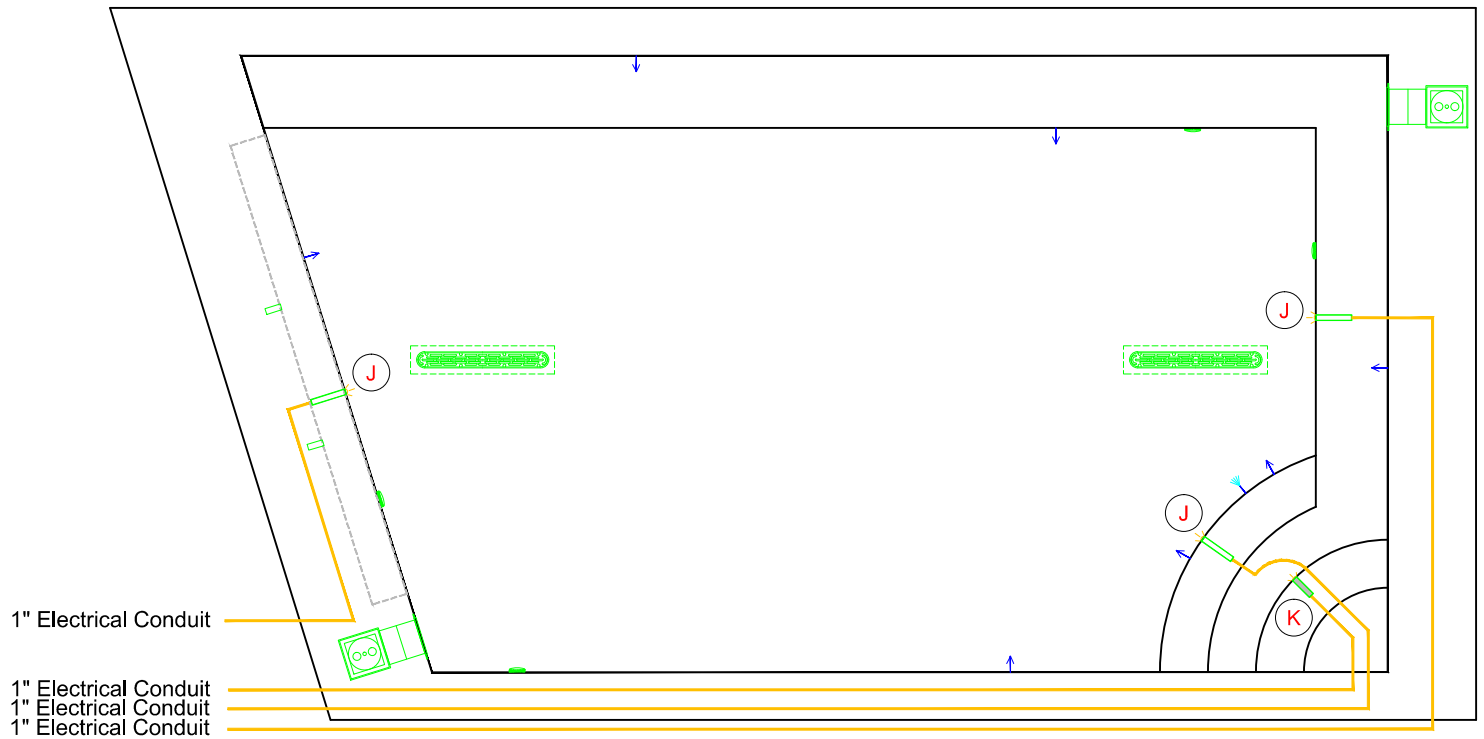
DWG NAME  
THE HUB - **LEGACY C** - Roof Pool

DATE  
12/10/2014

SHEET  
PAGE 4 OF 8

**LIGHT** Zodiac Jandy - Savi MP (J)  
 PRO 100 30 Watt 12 V  
 White LED Light w/ 100' Cord

**LIGHT** 5 Watt 12 V White LED  
 Light w/ 100' Cord (K)



1" Electrical Conduit  
 1" Electrical Conduit  
 1" Electrical Conduit  
 1" Electrical Conduit

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Page Scaling: None

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DWG TYPE  
 Roof Pool Electrical

DWG NAME  
 THE HUB - **LEGACY C** - Roof Pool

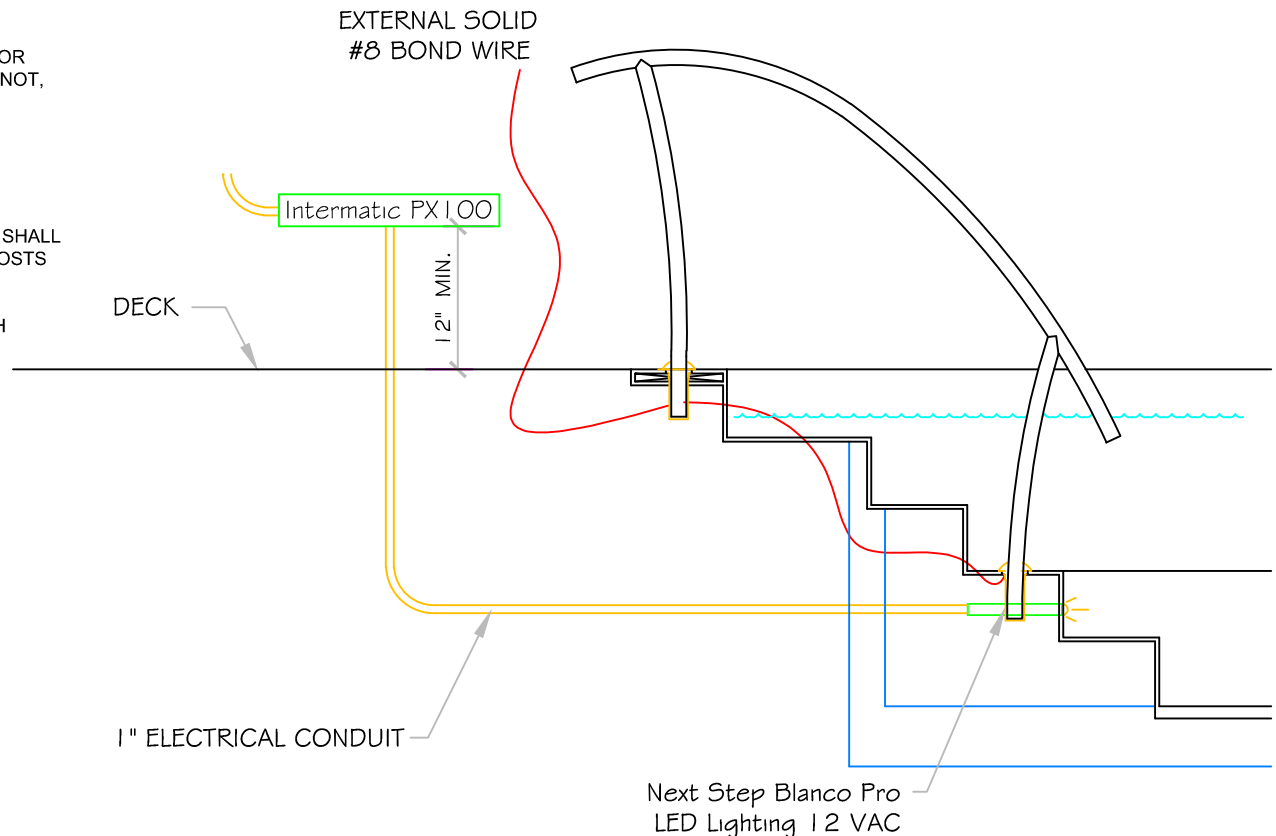
DATE  
 12/10/2014

SHEET  
 PAGE 5 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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DWG TYPE

Roof Pool Light Detail

DWG NAME

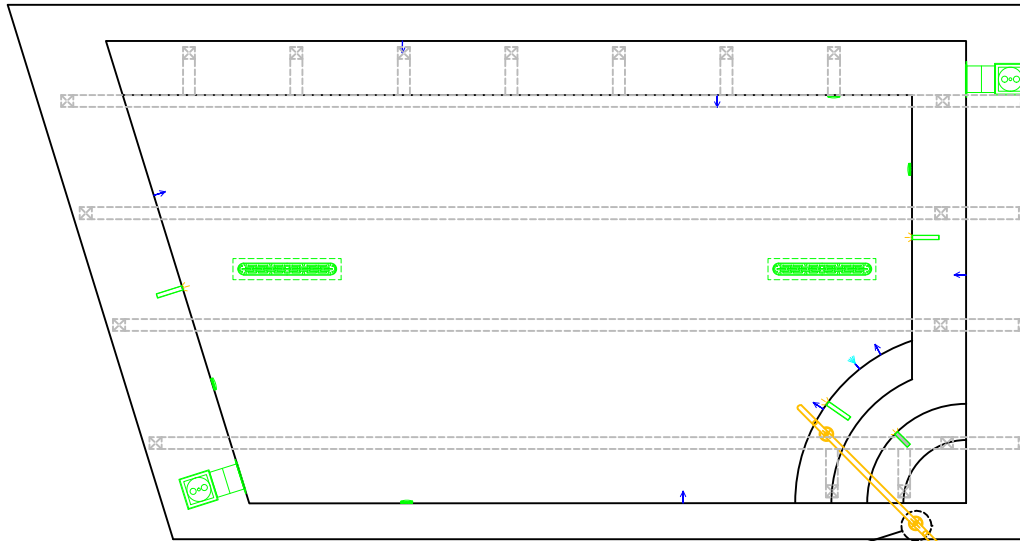
THE HUB - **LEGACY C** - Roof Pool

DATE

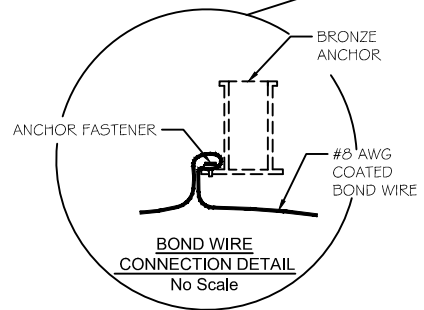
10/9/2014

SHEET

PAGE 6 OF 8



HANDRAILS AND ANCHORS



### 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

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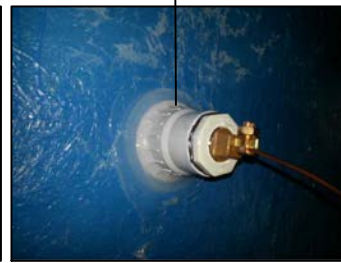
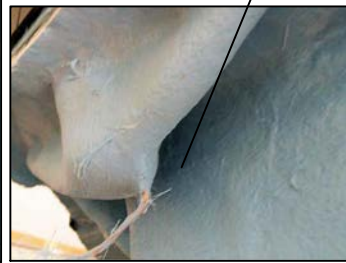
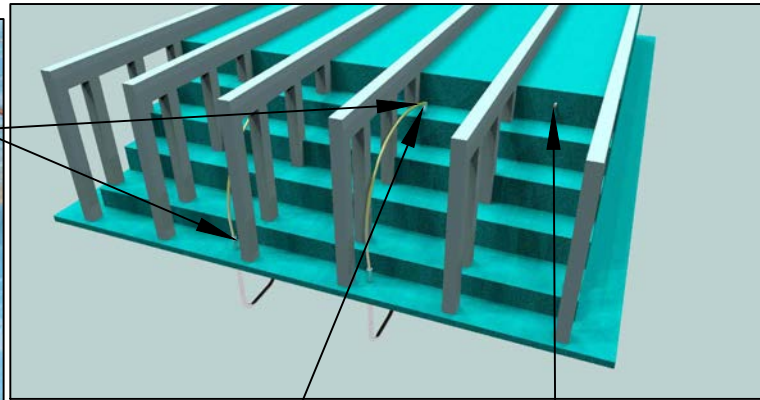
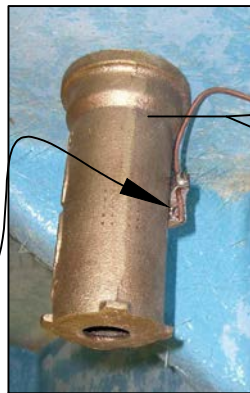
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DWG TYPE	Roof Pool Bonding
DATE	12/10/2014
SHEET	PAGE 7 OF 8

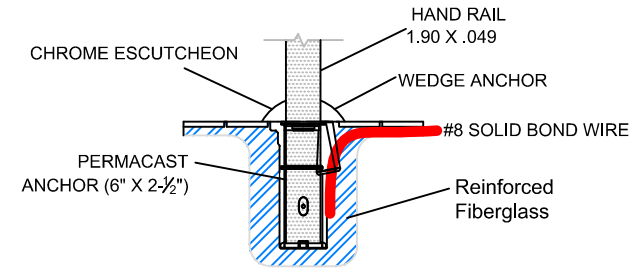
# BONDING DETAIL



Typical Cup Anchor



## TYPICAL NESPA SHELL CUP Anchor Installation



**NOTE:**

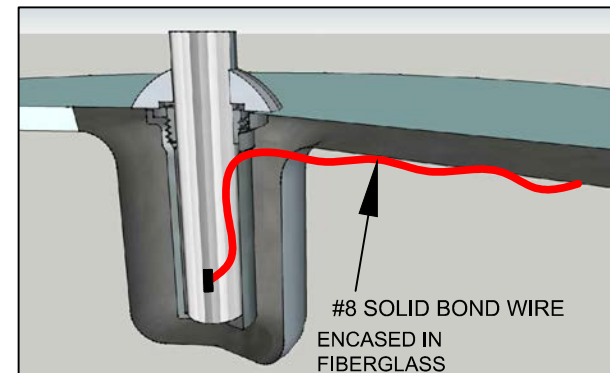
DETAIL REFLECTS ANCHOR INSTALLATION IN NESPA SHELLS ONLY.

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



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N/A

DWG TYPE

Bonding Detail (3)

DWG NAME

THE HUB - **LEGACY C** - Roof Pool

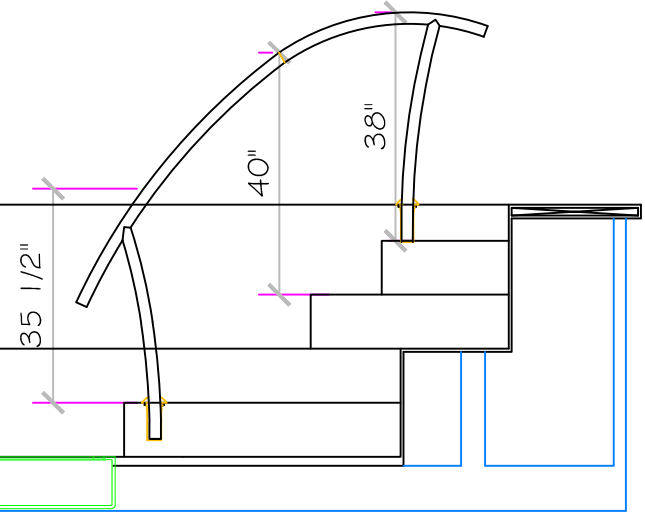
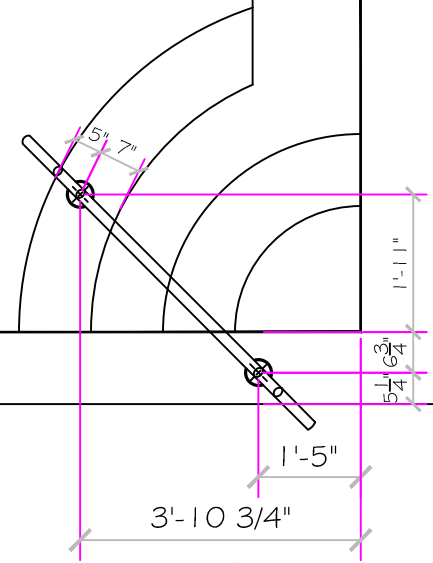
DATE

10/9/2014

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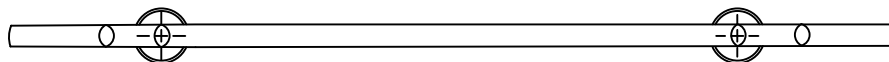
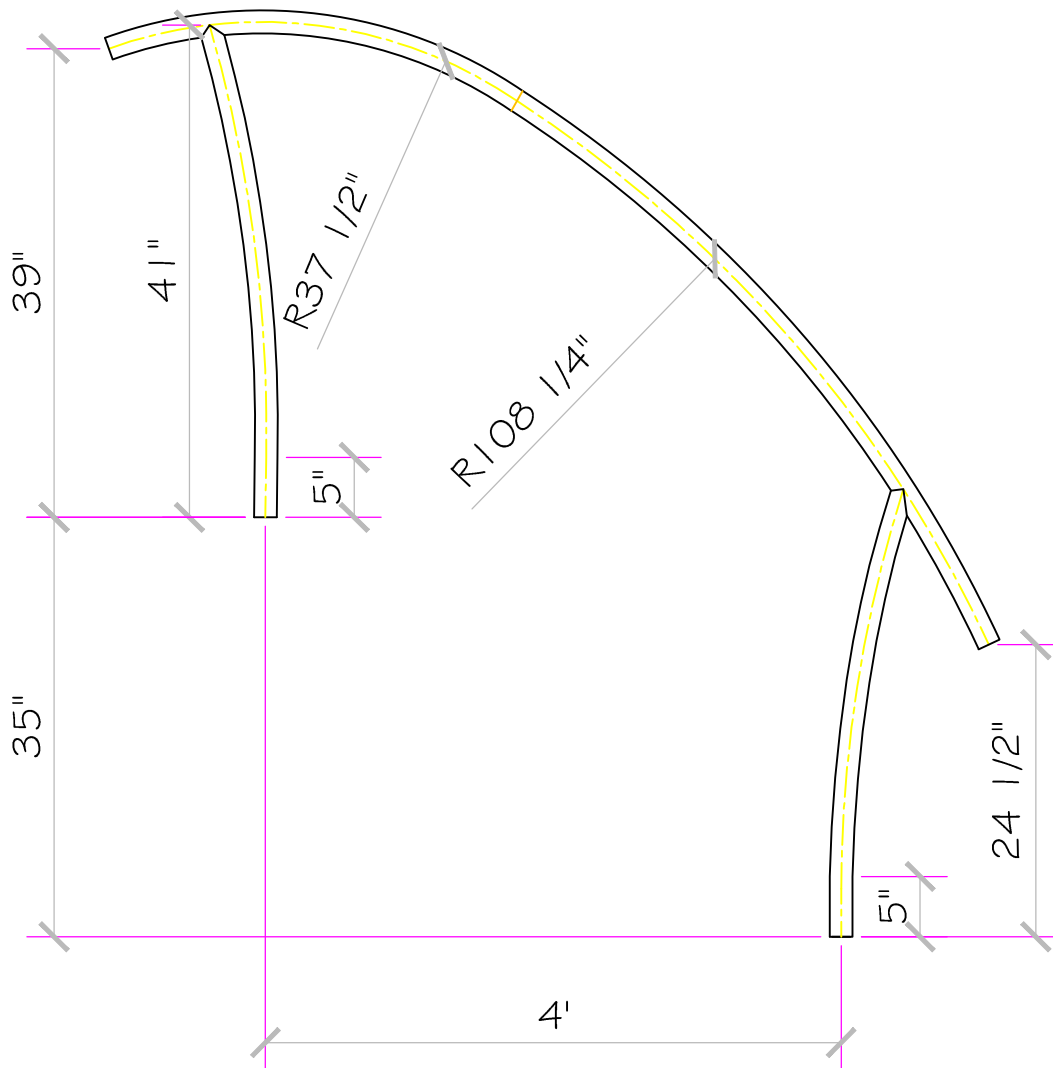
DWG TYPE  
 Roof Pool Handrail

DWG NAME  
 THE HUB - **LEGACY C** - Roof Pool

DATE  
 12/3/2014

SHEET  
 PAGE 1 OF 1





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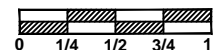
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DWG TYPE

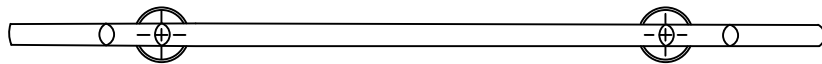
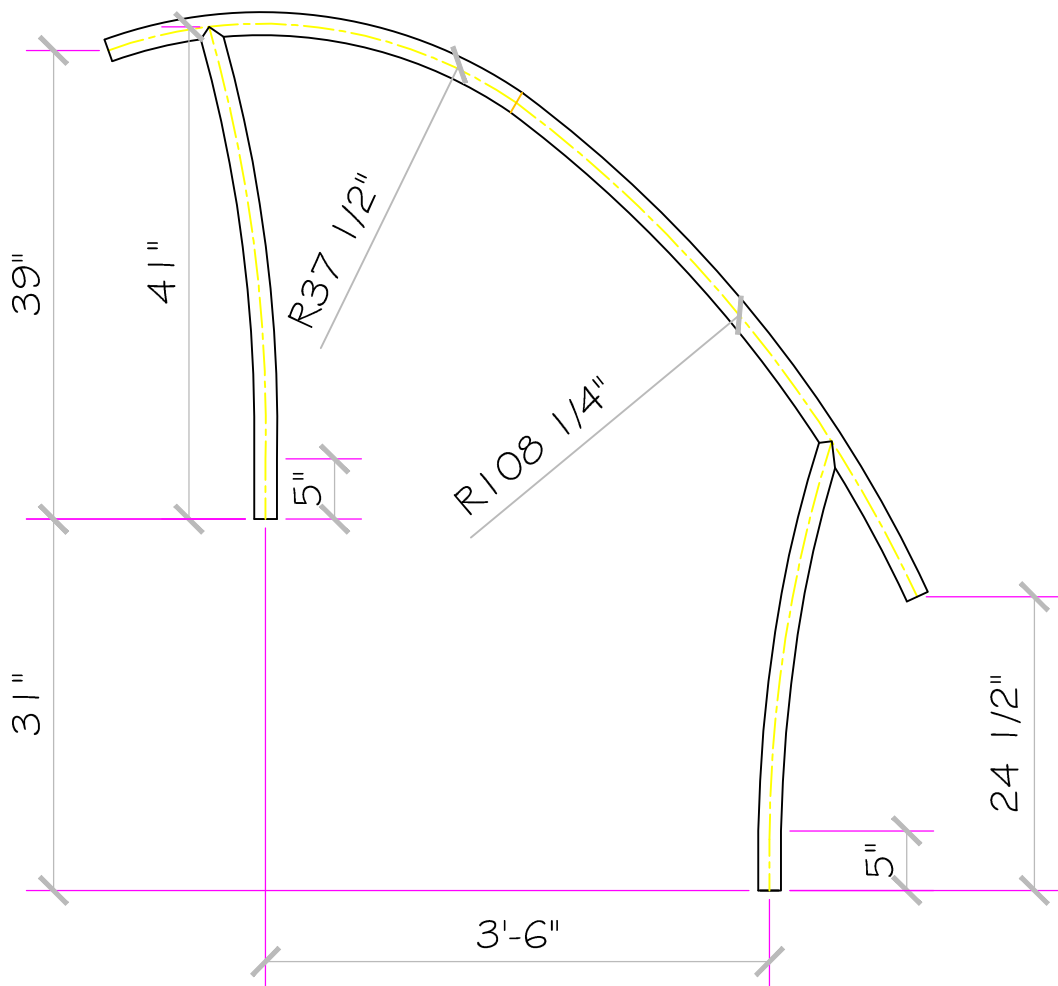
Spa Handrail

DATE

12/3/2014

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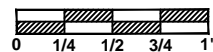
Page Scaling:

DWG NAME

HUB ROFTOP

SCALE

3/4" = 1'



DWG TYPE

Pool Handrail

DATE

12/3/2014

SHEET

PAGE 1 OF 1

# 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.**

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**IN-GROUND**

**INSTALLATION**

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

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

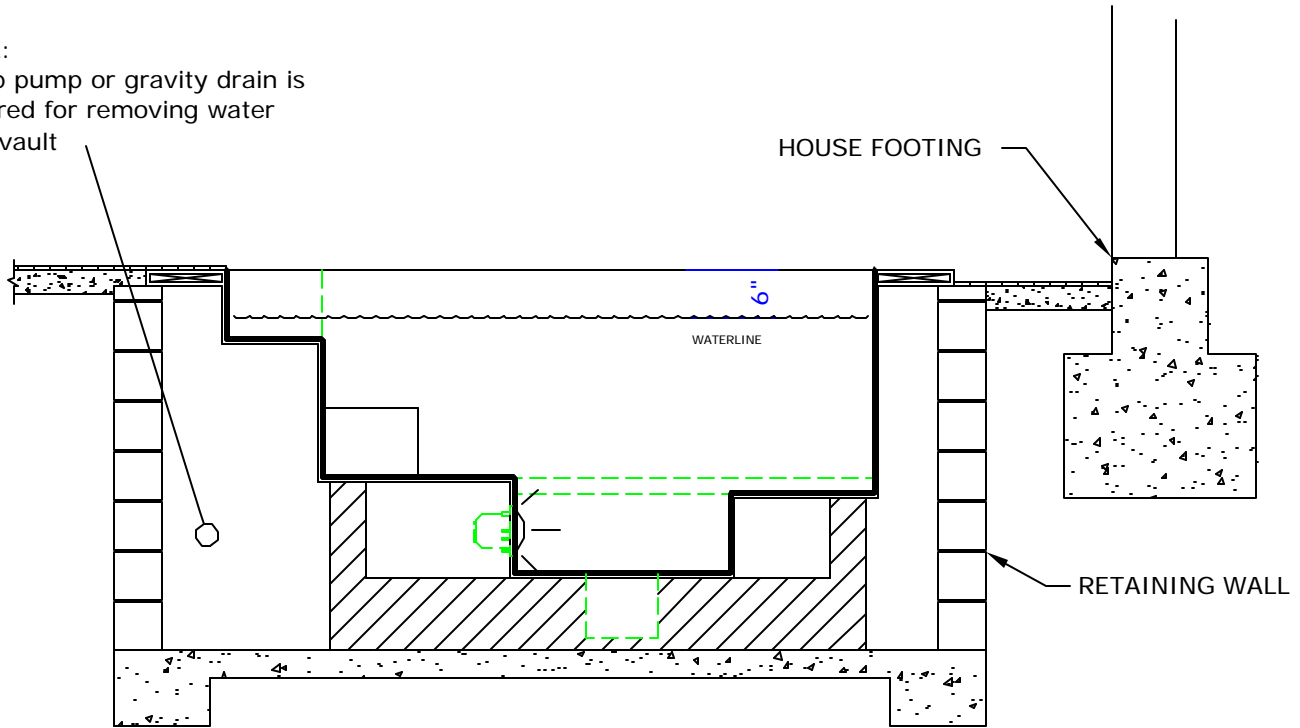
DATE: 3/27/02

JOB : STANDARD INSTALL

DW #: SI-1, SI-2

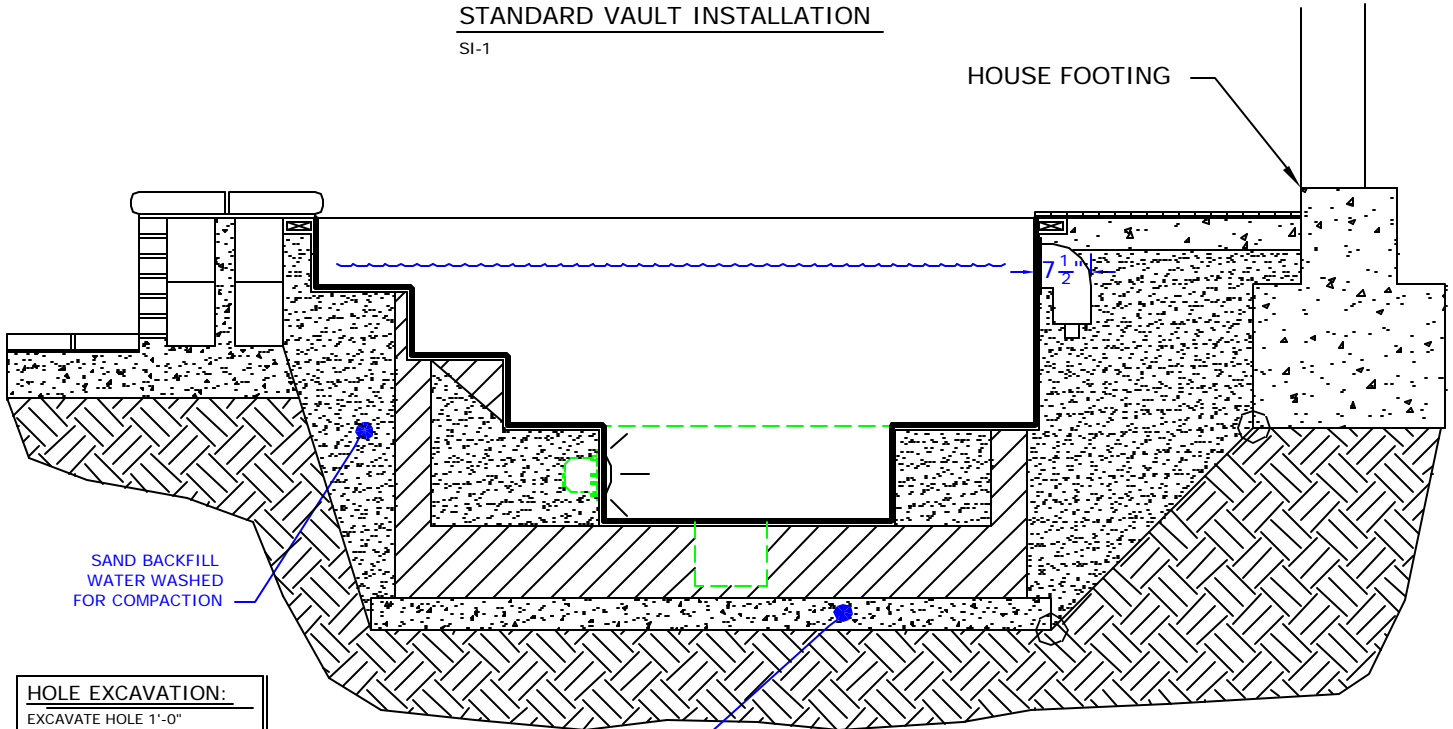
**NOTE:**

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



**STANDARD VAULT INSTALLATION**

SI-1



**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

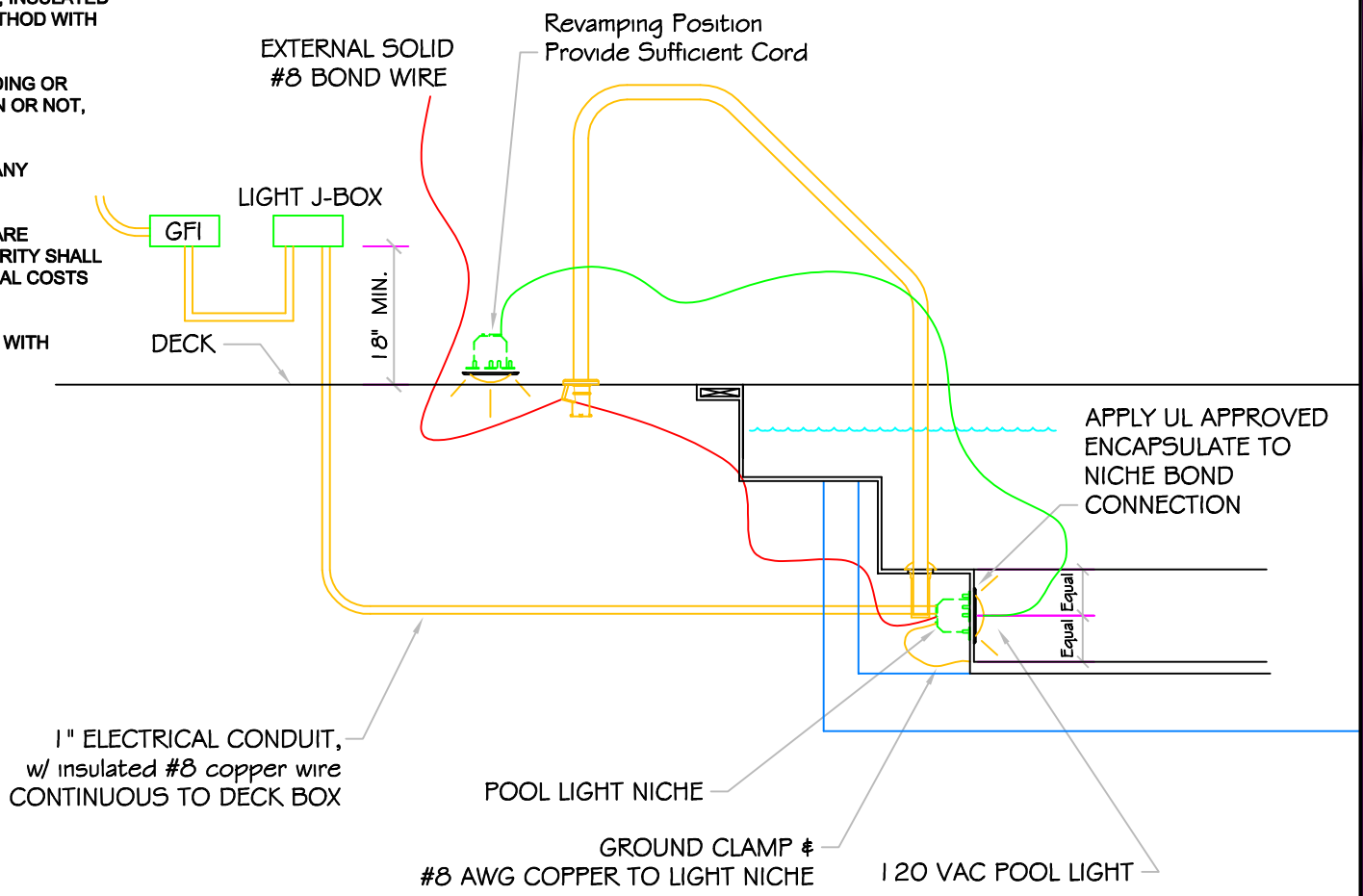
**NOTE:**

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.**