

General

The swimming pools and spas consist of one-piece fiberglass construction shop-formed over a mold. The material is fiberglass reinforced plastic (FRP), a minimum of 1/4 inch (6.4 mm) thick, composed of isophthalic resin, vinyl ester resin, and fiberglass. The surface finish is a neo-pentyl glycol gel coat. Viking Pools produces various styles of swimming pools and spas. When installed in accordance to Viking Pools installation procedures, the pools and spas comply with applicable requirements of the following codes:

2015/2018 International Residential Building Code® (IRC)

2018 International Residential Code (IRC)

BOCA® National Building Code®/2003 (BNBC)

2018 International Plumbing Code® (IPC)

2012 ANSI/AI/NSPI-5 Residential Inground Swimming Pools

2014 ANSI/AI/SPS/ICC-3 Permanently Installed Residential Spas and

Swim Spas

2020 Florida Building Code 7th Edition

2020 Florida Fuel/Gas Code 7th Edition

2020 Florida Mechanical Code 7th Edition

2020 Florida Residential Code 7th Edition

2006 ANSI/AI/SPS-7

2013 ANSI/AI/SPS/ICC-7 Suction Entrapment Avoidance

2018/2021 International Swimming Pool and Spa Code -

(ISPSC-ICC)

2007 ANSI/ASME-A112.19.8

2015/2018 National Electric Code (NEC)

2014/2017/2020 National Uniform Swimming Pool, Spa, Hot tub Code (IAPMO)

The overall pool dimensions, depths and capacities are shown in Table 1. The units comply with ANSI/NSPI-5, specified in Section AG103.1 of the IRC, and IAPMO IGC-2000*, specified in the UPC.

Models described in Table 1 and Table 3 can be placed up to 19-1/2 inches (49.5mm) above ground. These pools and spas may be placed with or without concrete or wood decking. Unless elevated, portions of the units are protected from sunlight by soil beams, decking, etc., these portions must be coated with a UV-inhibiting opaque paint that is compatible with the laminate. All plumbing must comply with the IPC or UPC. Electrical work must comply with the code in effect at the construction site. The pool and spa must remain full of water at all times. A permanent sign, bearing the following statement, must be attached to the pumping equipment: Notice-The pool or spa is designed to remain full of water at all times. The pool shell may be damaged if the water level is allowed to drop below the skimmer. When appreciable draw-down is noticed or if it becomes necessary to drain the pool or spa, contact Viking Pools or its dealers for instructions.

A permanent label must be installed adjacent to the above sign indicating the Viking Pools Dealer's name, address and telephone number.

Installation Procedure:

Viking pools and spas may be installed without a soil investigation by a registered design professional (RDP), subject to the building official's approval, provided none of the following conditions are encountered at the site:

1. The existence of uncontrollable groundwater within the depth of the pool or spa excavation.
2. The existence of an uncompacted fill in contact with any portion of the pool or spa.
3. The existence of any soil types with an angle of repose that will not support the walls of the excavation at desired slopes.
4. Danger to adjacent structures posed by the proposed pool or spa location.
5. The existence of any cracks or openings in soil that would not confine sand or 1/2" clean gravel bedding.

If any of the conditions above is encountered, excavation must cease immediately. The specified conditions at the site must then be

General Notes

reviewed and recommendations made by the RDP. The building official must approve the RDP's report before work is completed.

The pool or spa excavation profile must coincide with the contours of the pool. The over excavation is minimum 6 inches (152mm) on the sides and ends. The over excavation at the pool bottom is minimum 4 inches (102mm). The backfill for the pool or spa bottom is a layer of 3-inch-thick (76mm) bedding sand matching the pool or spa profile.

This sand layer is compacted using a manual tamper and water. The pool or spa is then set into place using a crane, excavator or manually and be within 1 inch (25mm) of level. Simultaneous waterfill and sand backfill operations then commence. The sand is compacted with a tamper and water. The installer must ensure that the backfill level and water level are approximately the same throughout this procedure.

Decks are prepared as indicated in Figures 1 through 4:

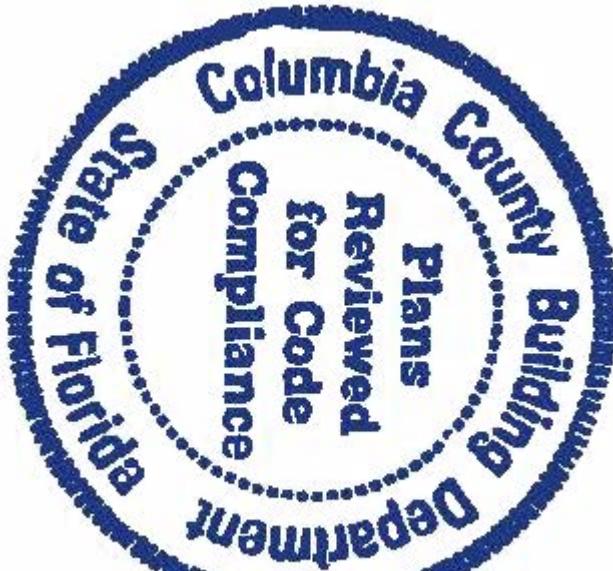
1. Cantilevered concrete decks are constructed as noted in Figure 1 in all cases.
2. Cantilevered decks are constructed with brick or stone as noted in Figure 2 in all cases.
3. Raised bond beams are constructed as noted in Figure 3 in all cases.
4. Aboveground installations are constructed as noted in Figure 4 in all cases.

Barriers are required where pools are on premises of UBC Group R, Division 3, Occupancies or IBC Group R Occupancies. The barriers must comply with Appendix Chapter 4, Division 1, of the UBC or Section 3109.4 of the IBC.

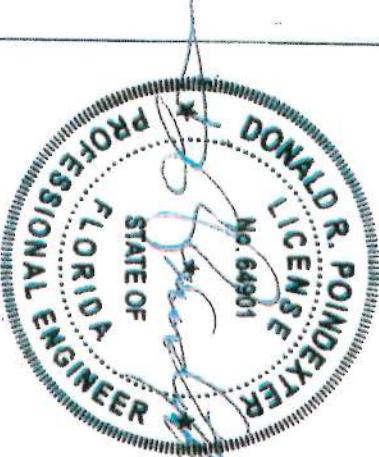
Expansive soils: For installation of pools or spas in expansive soils, the following additional installation details must be followed subject to code officials approval:

1. All surfaces adjacent to the pool or spas must be excavated to a minimum depth of 12 inches (305 mm) beneath the pool bottom and minimum 6 inches (152 mm) behind the pool walls.
2. Any soft or loose soils exposed by step 1 must be removed until exposed material is solid. If the soil is still soft and loose, the upper 6 inches (152 mm) of all horizontal excavation surfaces must be scarified and compacted with mechanical equipment. The compacted surfaces and the excavated wall must be maintained in a moist condition until the first lift of backfill or fill is placed against the surface. The term compaction implies any method necessary to consolidate the native and fill materials to keep the pool or structure from settling.
3. The excavated bottom area of the pool or spa must be backfilled with granular import material to approximately 6 inches (152 mm) below the bottom of the pool or spa, wetted and compacted.
4. The remaining 6 inches (152 mm) must be backfilled beneath the pool or spa and outside the pool walls with compacted clean sand. The pool or spa must be filled with water as backfilling progresses to a level equivalent to that of the backfill. The backfill must be placed in compacted layers of approximately 6 inches (152 mm) while a uniform height of backfill is maintained around the pool or spa.
5. Positive surface drainage away from the perimeter of the pool and surrounding deck is required and critical to installations in highly expansive soils. Surface area drains and surface drainage swales or subdrains must be placed as needed to prevent ponding or saturation of the soil around the perimeter and vicinity of the pool to prevent excessive shrink-swell or volume changes in the soil.

Reviewed by:
Donald R. Poldrester, PE
Florida Lic. No. 64901
4119 Trinity Dr. Santa Rosa CA 95405
Phone 707-494-8761
Seal:



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**Latham Pool Products Inc.**
DBA Latham Grand, Latham Select
Viking Pool, Blue Hawaiian Pools, Trilogy Pools
ICC Evaluation Report Number (ESR-2014)

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Zephyrhills, FL Phone: (813) 783-7439 Fax: (813) 783-7214

Date 01/20/21

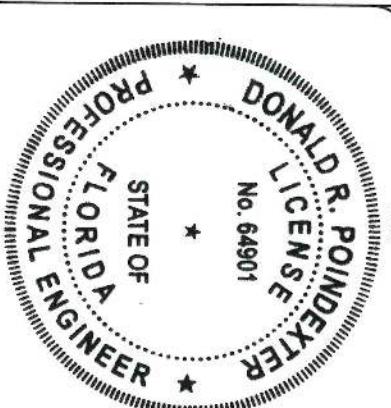
LP1046

TABLE 1- POOLS

POOL	CODE	SIZE	DEPTHs	GALLONS	SQUARE	PAGE	POOL
		WIDTH x LENGTH	SHALLOW, DEEP APPROX. FEET				
Aruba	ARU	11' x 22'	3'-6", 5'	5,200	177	4	TYPE 0
Axiom 15	CRUJ	16' x 35'	3'-6", 6'-6"	11,600	395	5	TYPE 0
Bay Isle	BHBY	14'-6" x 29'-10"	3', 6'-6"	10,000	318	4	TYPE 0
Bermuda	AL	12' x 26'	3'-6", 5'-6"	7,000	226	4	TYPE 0
Cape Cod	CA	14' x 31'	3'-6", 6'	12,000	325	4	TYPE 0
Carmel	FF	13'-8" x 30'	3'-6", 6'	12,000	345	4	TYPE 0
Chesapeake	CP	12' x 31'	3'-7", 5'	10,500	292	4	TYPE 0
Claremont	V	14' x 33'	3'-7", 5'-4"	11,700	416	4	TYPE 0
Classic Cove	BHCC	13'-6" x 32'-10"	3', 6'-2"	11,300	376	4	TYPE 0
Clearwater	SP	10'-11" x 20'	3'-5", 5'	3,600	165	4	TYPE 0
Corinthian 12	RT12	12' x 25'	3'-6", 5'-5"	5,100	254	4	TYPE 0
Corinthian 14	RT14	14' x 30'	3'-6", 6'	8,200	365	4	TYPE 0
Coronado	BHBI	15' x 34'	3'-6", 6'-6"	13,000	410	4	TYPE 0
Delray	B	11'-10" x 25'-5"	4'-6"	8,100	264	4	TYPE 0
Eclipse/Axiom 12	CRUM	12' x 26'	4' x 5'	5,300	214	4	TYPE 0
Empress/Olympia 12	FR12	12' x 26'	3'-6", 5'-8"	7,600	275	4	TYPE 0
Freeport	FP	12' x 25'-1"	3'-7", 5'-5"	6,000	213	4	TYPE 0
Jamaica	LD	9'-10" x 19'-9"	3'-2", 5'	3,750	138	4	TYPE 0
Java	JV	12' x 26'-9"	3'-6", 5'-5"	6,800	233	4	TYPE 0
Key West	BFF	12' x 25'-7"	3'-7", 6'	9,000	230	5	TYPE 0
Laguna	LG	14' x 30'	3'-6", 6'	10,000	310	5	TYPE 0
Laguna Deluxe	LGX	14' x 30'	4', 6'	9,000	300	5	TYPE 0
Majesty	FR14	14' x 30'	3'-6", 6'	1,120	377	5	TYPE 0
Malibu/Axiom 12 Deluxe	CRUD	12' x 26'	3' x 4'-7"	4,400	209	5	TYPE 0
Maui	MTK	9'-3" x 16'	3'-4", 4'	2,300	103	5	TYPE 0
Milan	CTL	10' x 16'	4'	2,450	135	5	TYPE 0
Nebula/Axiom 14	CRUL	14' x 30'	4' x 6'	8,000	297	5	TYPE 0
Picasso	TPIC	12'-2" x 24'-1"	3'-9", 5'-4"	5,600	213	5	TYPE 0
Pleasant Cove	BHPL	11' x 24'	3'-5", 5'-6"	5,000	173	5	TYPE 0
Rockport	RP	14' x 30'	3'-7", 5'-11"	12,800	314	5	TYPE 0
Sandy Cove	BH38	11' x 18'	4'-1"	3,600	177	5	TYPE 0
St. Lucia	CM	12'-3" x 23'-11"	3'-6", 5'	6,000	211	5	TYPE 0
St. Thomas	L	14' x 31'-6"	3'-7", 7'	13,700	396	5	TYPE 0
Stargaze 14	RRT14	14' x 30'	3'-6", 6'	10,500	365	5	TYPE 0
Sunset Bay	BHSY	14' x 32'	3'-4", 5'-5"	10,000	365	5	TYPE 0
Valencia	ST	14'-4" x 27'-7"	3'-7", 5'-10"	10,000	288	5	TYPE 0
Vista Isle	BHVI	12' x 28'	3', 6'-10"	8,000	294	5	TYPE 0

TABLE 3- SPAS

SPAS	CODE	SIZE	DEPTHs	GALLONS	SQUARE	PAGE
		WIDTH x LENGTH	SHALLOW, DEEP	APPROX.	FEET	NUMBER
Mystic	M	10' x 10'	3'-4"	550	64	6
Mystic Spillover	MSW	10' x 11'	3'-4"	550	64	6
Placid	BOS	8'-4" x 8'-4"	3'	475	45	6
Placid Spillover	BOSSW	8'-4" x 9'-4"	3'	475	45	6
Regal	RG	8' x 10'	3'-4"	600	52	6
Regal Spillover	RGSW	9' x 10'	3'-4"	600	52	6
Royal	RY	8' x 10'	3'-4"	600	63	6
Royal Spillover	RYSW	8'-10" x 10'	3'-4"	600	63	6
Shasta	RS	7' x 7'	3'	420	31	6
Shasta Spillover	RSW	7' x 8'	3'	420	31	6
Superior	CS	8' x 12'-5"	3'	700	73	6
Superior Spillover	CSSW	9' x 12'-5"	3'	700	73	6
Tahoe	LOS	7'-6" x 7'-6"	3'	450	37	6
Tahoe Spillover	LOSSW	7'-6" x 8'-6"	3'	450	37	6
Hermosa	VFTL	6'-10" x 10'-7"	10"	200	50	6
Semicircle	TSCT	8'-4" x 16'	10"	400	92	6



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NOTES

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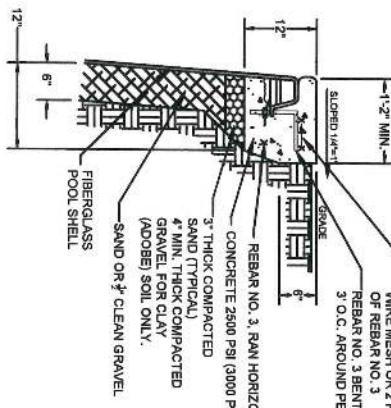


FIG. 1
TYPICAL CANTILEVER CONCRETE DECK
(For rectangle pools up to 12' wide or freeform pools up to 14' wide)
(NOT FOR USE IN EXPANSIVE SOILS)

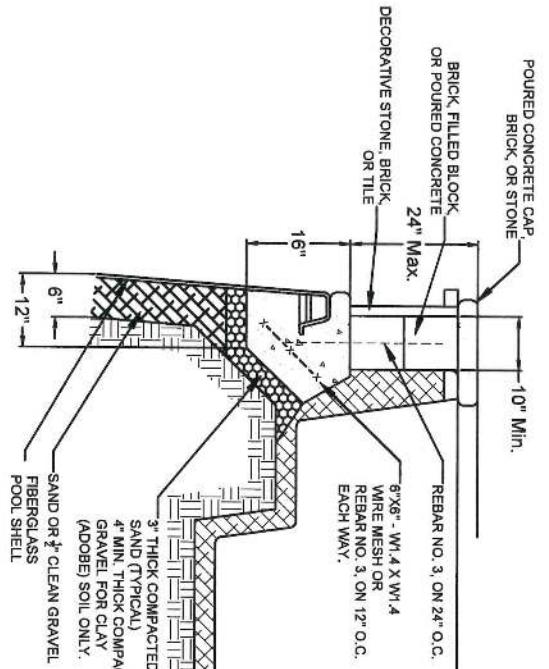


FIG. 2
CONCRETE DECK
WITH BRICK OR STONE
W/ 6"X6"-W1.4 X W1.4
WIRE MESH OR
REBAR NO. 3, ON 2 O.C.
EACH WAY.

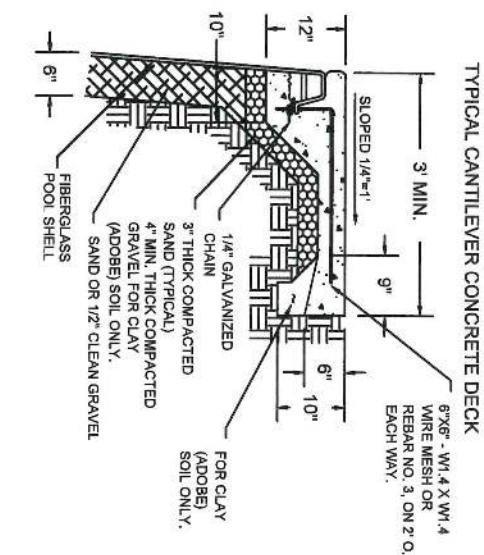


FIG. 3

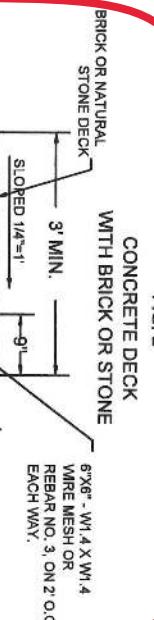
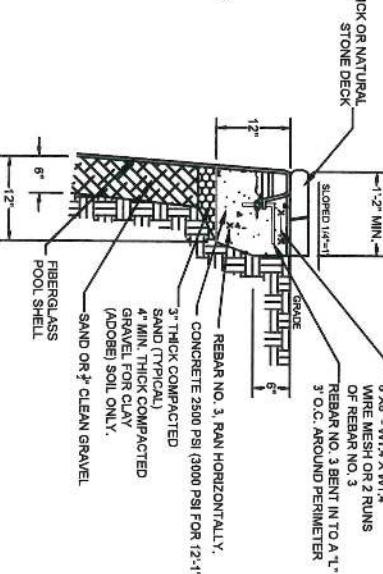


FIG. 5
TYPICAL BOND BEAM
WITH SPA
W/ 6"X6"-W1.4 X W1.4
WIRE MESH OR
REBAR NO. 3, ON 2 O.C.
EACH WAY.

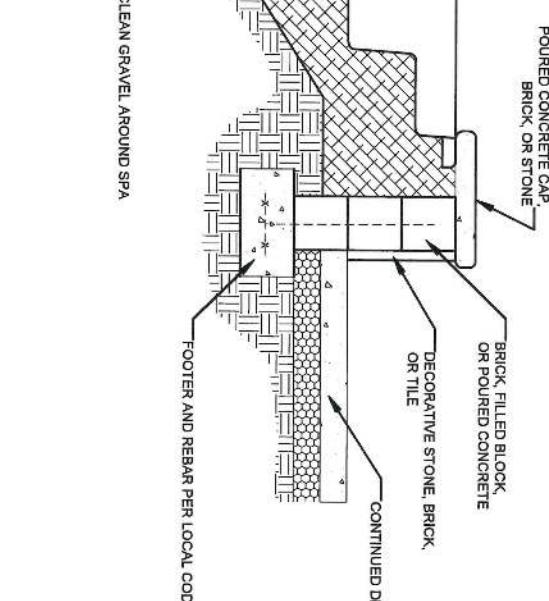


FIG. 6
TYPICAL CANTILEVER CONCRETE DECK
(For rectangle pools up to 12' wide or freeform pools up to 14' wide)
(NOT FOR USE IN EXPANSIVE SOILS)

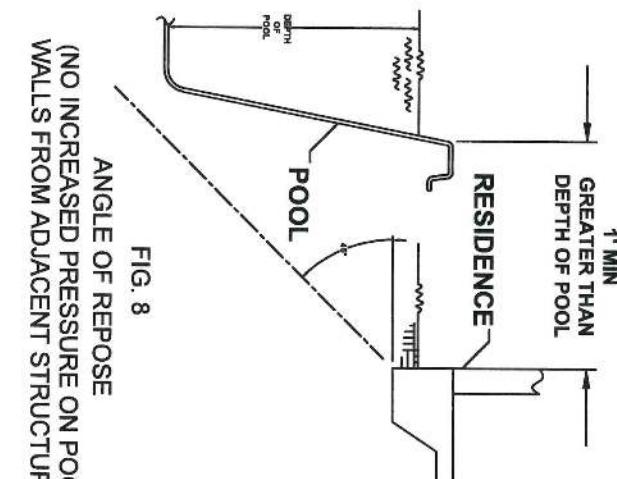


FIG. 7
CONCRETE DECK WITH BRICK OR STONE
(For rectangle pools up to 12' wide or freeform pools up to 14' wide)
(NOT FOR USE IN EXPANSIVE SOILS)

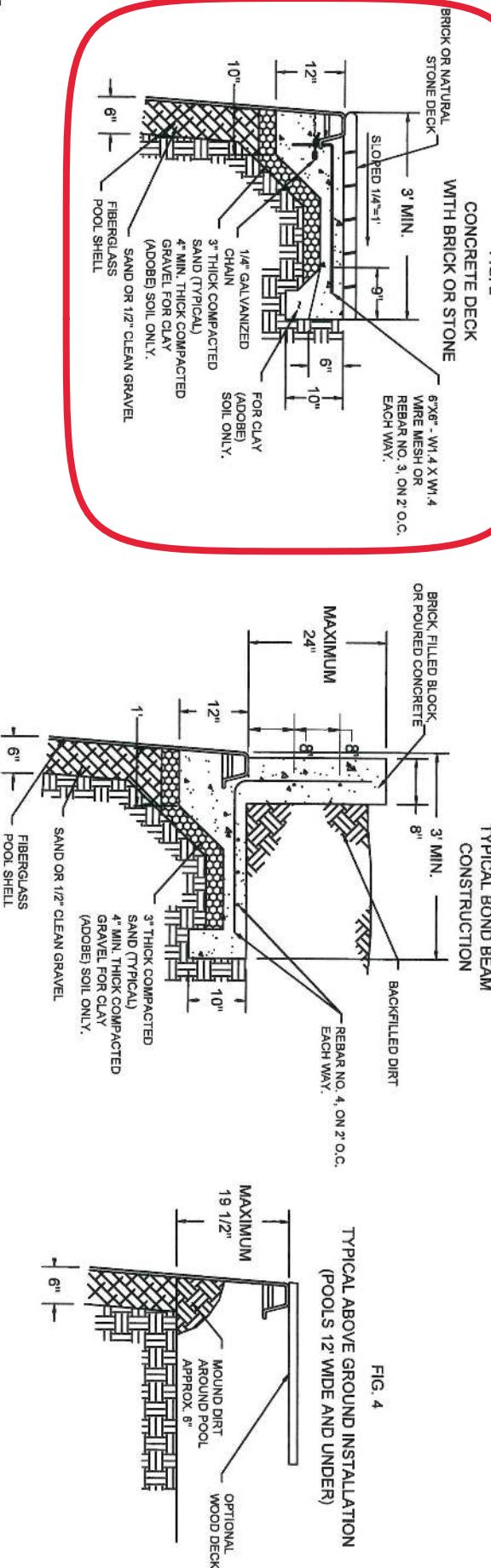
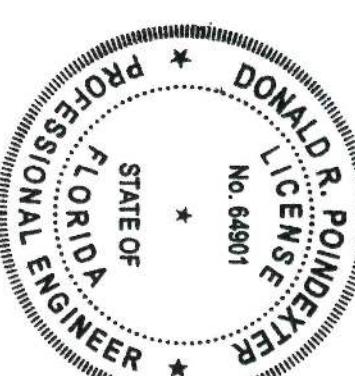


FIG. 8
ANGLE OF REPOSE
(NO INCREASED PRESSURE ON POOL
WALLS FROM ADJACENT STRUCTURE)



Reviewed by:

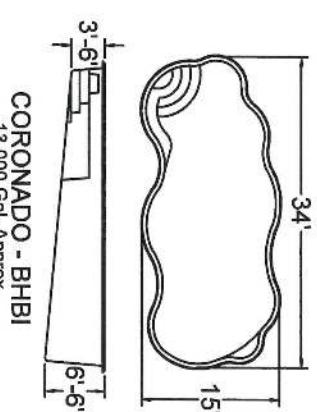
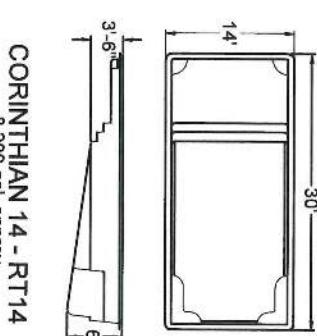
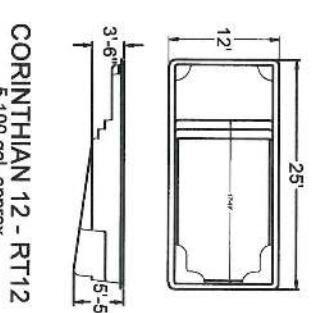
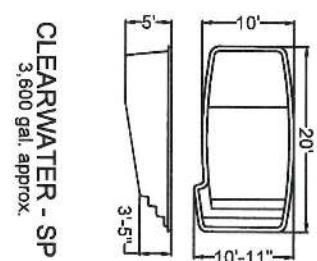
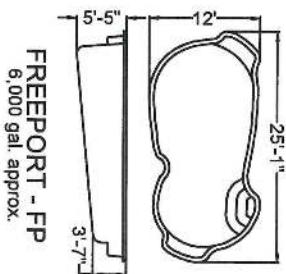
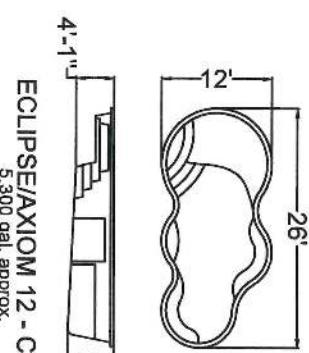
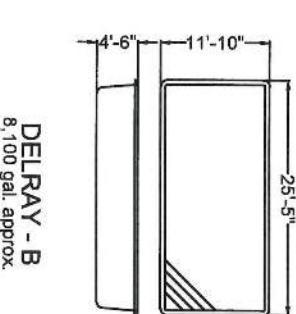
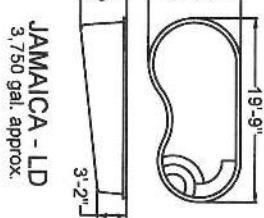
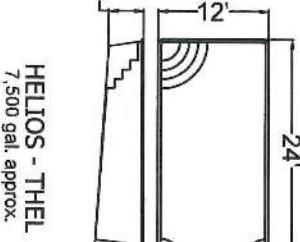
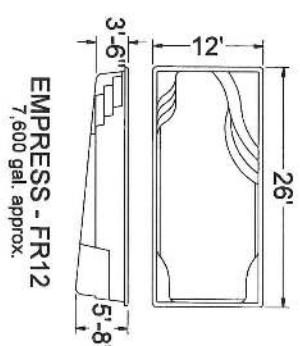
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NOTES

Length, width and depth may vary up to 3% - all dimensions are to outside edge of coping, measured from parallel lines.

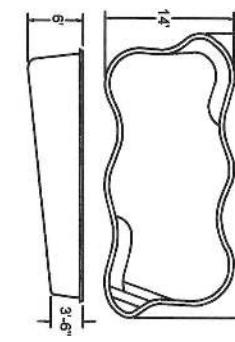
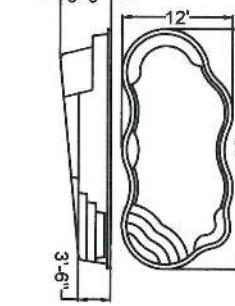
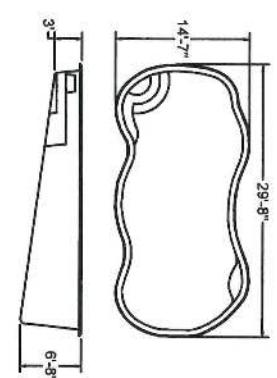
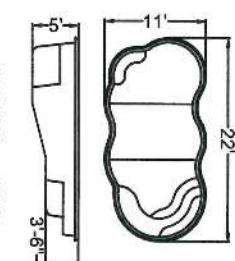
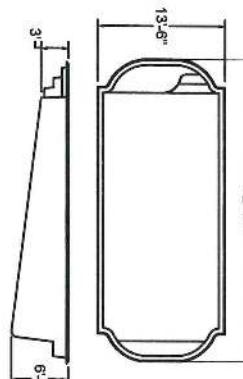
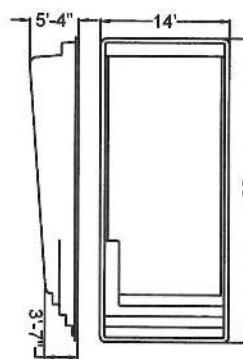
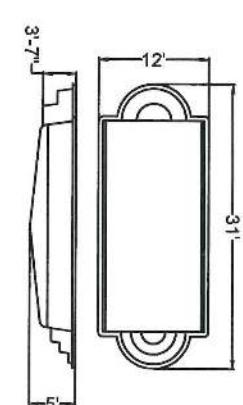
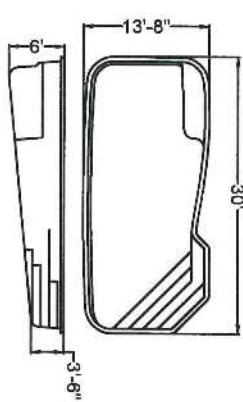


CARMEL - FF
12,000 gal. approx.

CHESAPEAKE - CP
10,500 gal. approx.

CLAREMONT - V
11,700 Gal. Approx.

CLASSIC COVE - BHCC
11,300 Gal. Approx.



EMPRESS - FR12
7,600 gal. approx.

HELIOS - THEL
7,500 gal. approx.

JAMAICA - LD
3,750 gal. approx.

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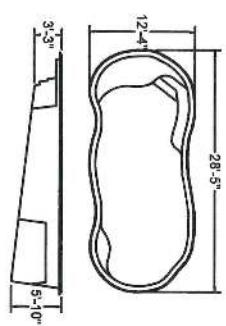
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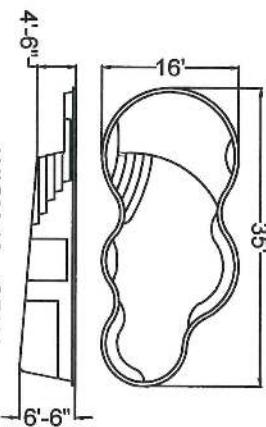
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Models in this frame are not currently on the ICC
ESR-2014 Report.

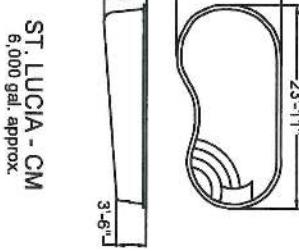
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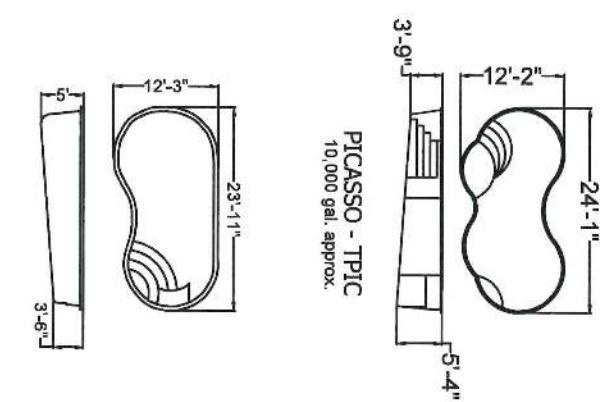
VISTA ISLE - BHVI
8,000 Gal. Approx.



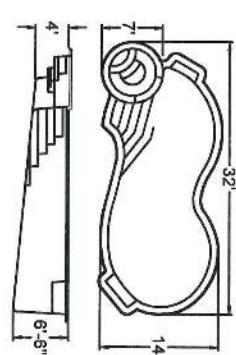
AXIOM 16 - CRUJ
11,600 gal. approx.



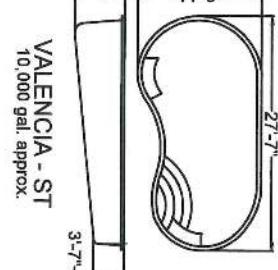
ST. LUCIA - CM
6,000 gal. approx.



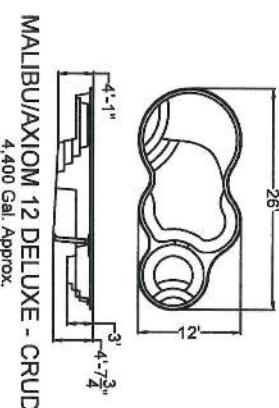
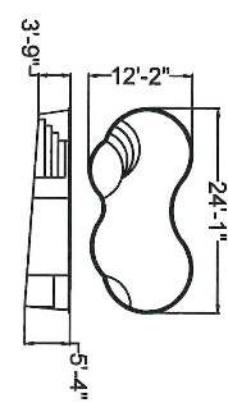
PICASSO - TPIC
10,000 gal. approx.



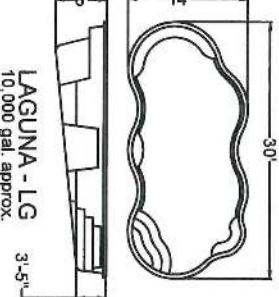
SUNSET BAY - BHSY
10,000 Gal. Approx.



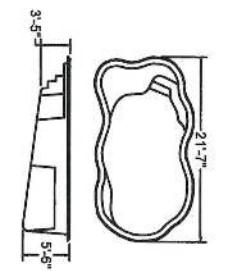
VALENCIA - ST
10,000 gal. approx.



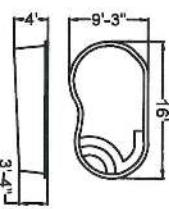
KEY WEST - BFF
9,000 gal. approx.



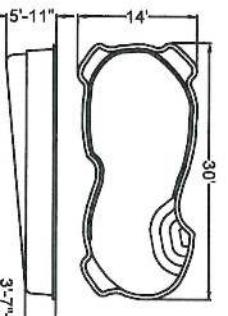
LAGUNA - LG
10,000 gal. approx.



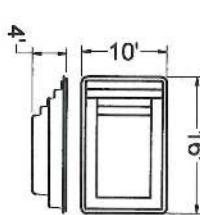
PLEASANT COVE - BHPL
5,000 Gal. Approx.



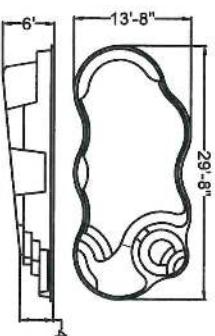
MAUI - MTK
2,300 gal. approx.



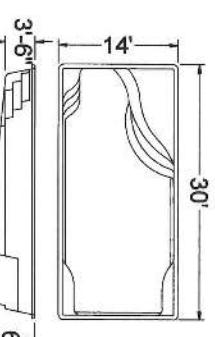
ROCKPORT - RP
12,800 gal. approx.



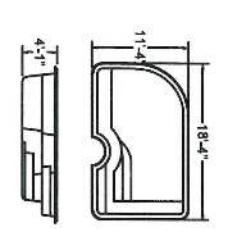
NEBULA/AXIOM 14 - CRUL
8,000 gal. approx.



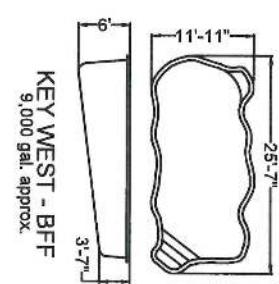
LAGUNA DELUXE - LGX
9,000 gal. approx.



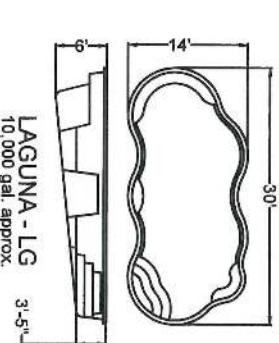
MAJESTY/OLYMPIA 14 - FR14
11,200 gal. approx.



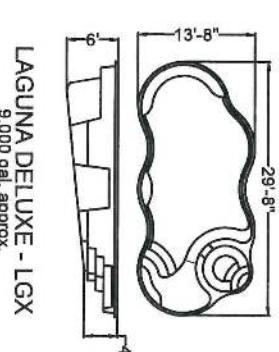
SANDY COVE - BH38
3,600 Gal. Approx.



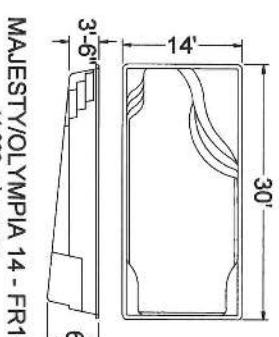
KEY WEST - BFF
9,000 gal. approx.



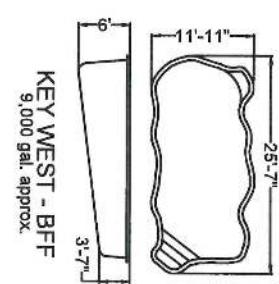
LAGUNA - LG
10,000 gal. approx.



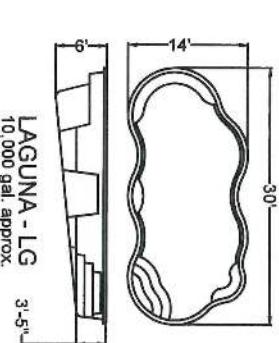
LAGUNA DELUXE - LGX
9,000 gal. approx.



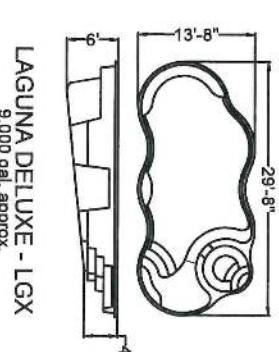
MAJESTY/OLYMPIA 14 - FR14
11,200 gal. approx.



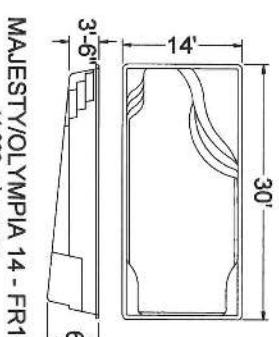
KEY WEST - BFF
9,000 gal. approx.



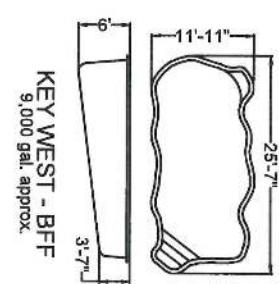
LAGUNA - LG
10,000 gal. approx.



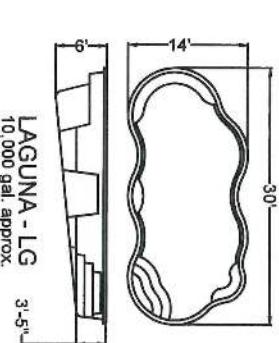
LAGUNA DELUXE - LGX
9,000 gal. approx.



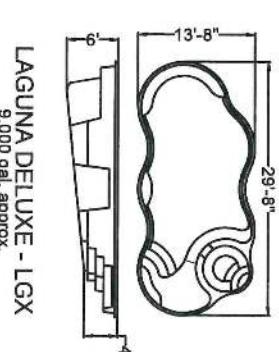
MAJESTY/OLYMPIA 14 - FR14
11,200 gal. approx.



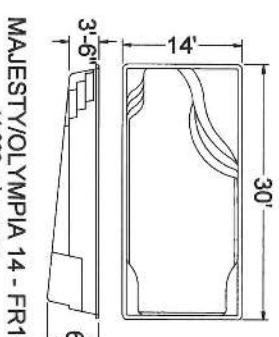
KEY WEST - BFF
9,000 gal. approx.



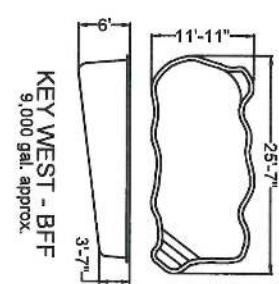
LAGUNA - LG
10,000 gal. approx.



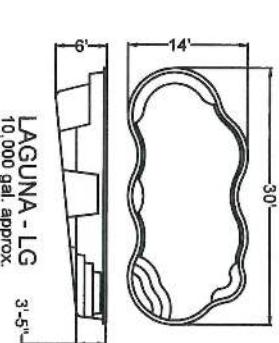
LAGUNA DELUXE - LGX
9,000 gal. approx.



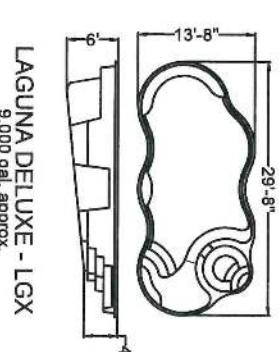
MAJESTY/OLYMPIA 14 - FR14
11,200 gal. approx.



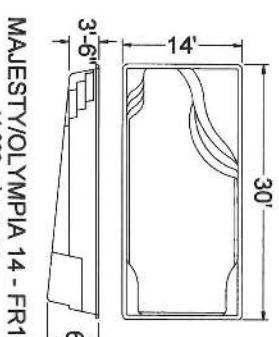
KEY WEST - BFF
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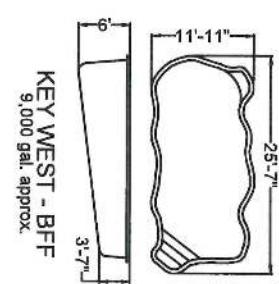
LAGUNA - LG
10,000 gal. approx.



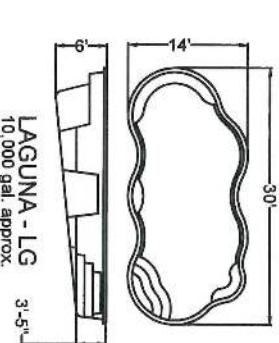
LAGUNA DELUXE - LGX
9,000 gal. approx.



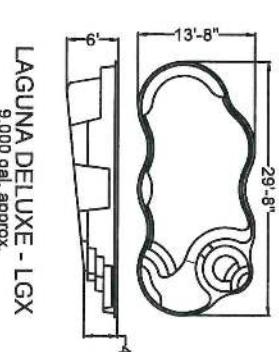
MAJESTY/OLYMPIA 14 - FR14
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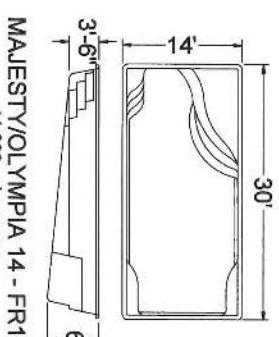
KEY WEST - BFF
9,000 gal. approx.



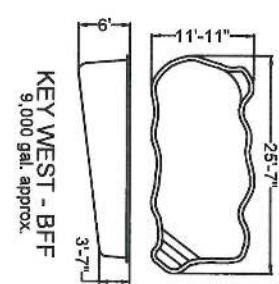
LAGUNA - LG
10,000 gal. approx.



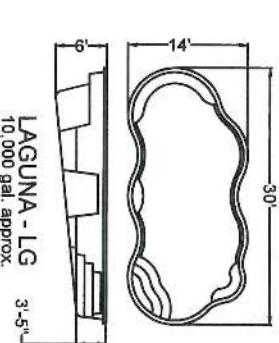
LAGUNA DELUXE - LGX
9,000 gal. approx.



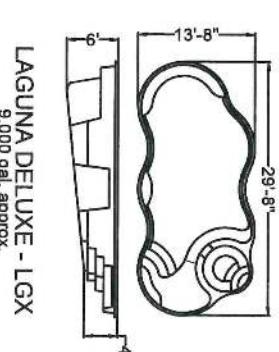
MAJESTY/OLYMPIA 14 - FR14
11,200 gal. approx.



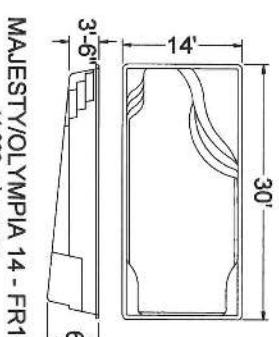
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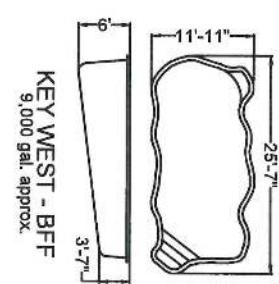
LAGUNA - LG
10,000 gal. approx.



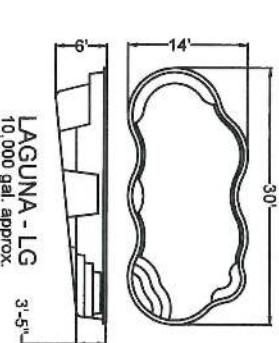
LAGUNA DELUXE - LGX
9,000 gal. approx.



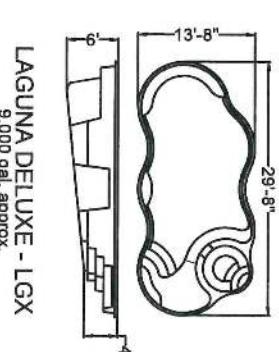
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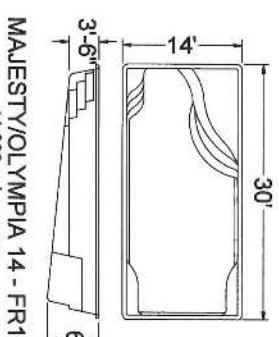
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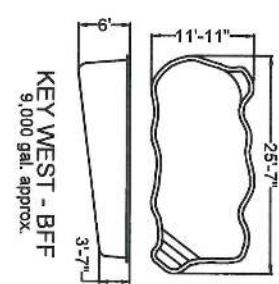
LAGUNA - LG
10,000 gal. approx.



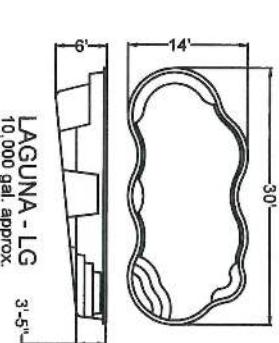
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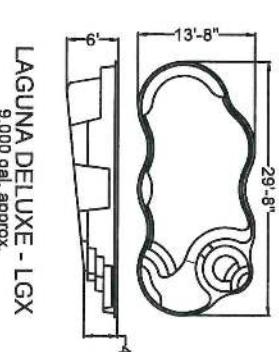
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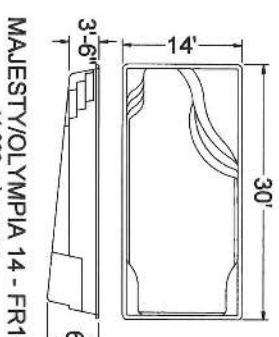
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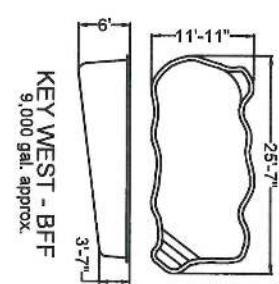
LAGUNA - LG
10,000 gal. approx.



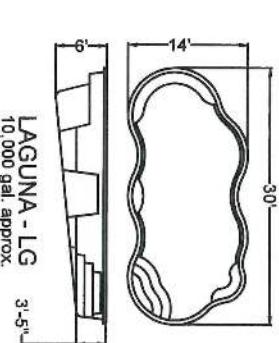
LAGUNA DELUXE - LGX
9,000 gal. approx.



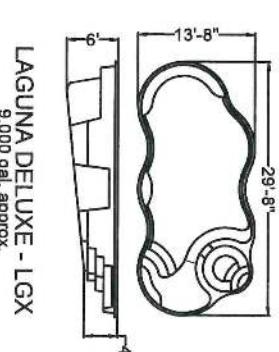
MAJESTY/OLYMPIA 14 - FR14
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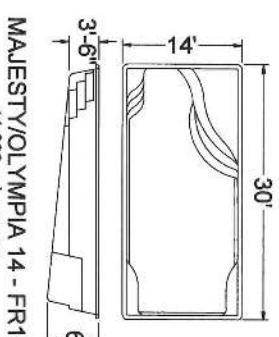
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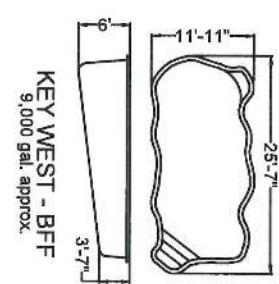
LAGUNA - LG
10,000 gal. approx.



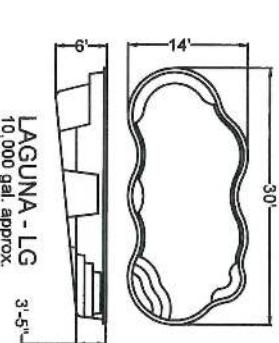
LAGUNA DELUXE - LGX
9,000 gal. approx.



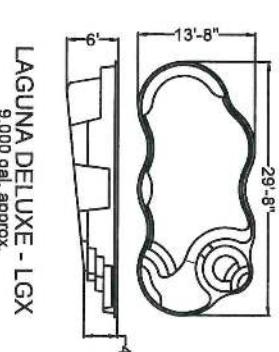
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11,200 gal. approx.



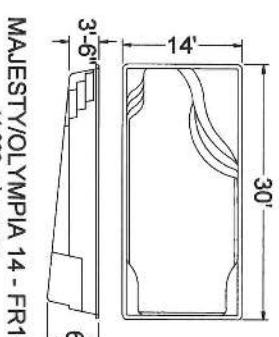
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9,000 gal. approx.



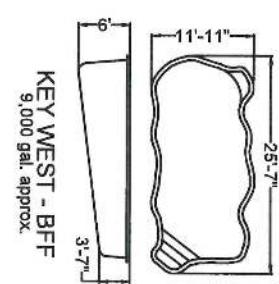
LAGUNA - LG
10,000 gal. approx.



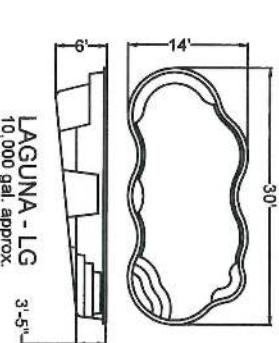
LAGUNA DELUXE - LGX
9,000 gal. approx.



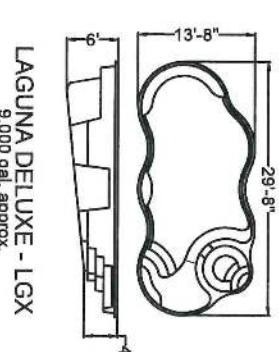
MAJESTY/OLYMPIA 14 - FR14
11,200 gal. approx.



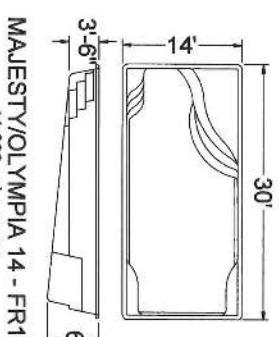
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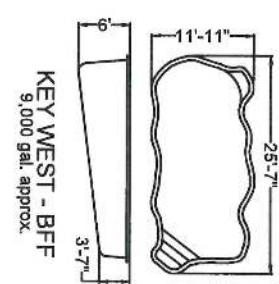
LAGUNA - LG
10,000 gal. approx.



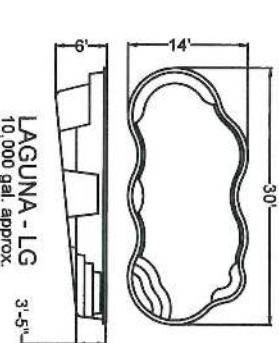
LAGUNA DELUXE - LGX
9,000 gal. approx.



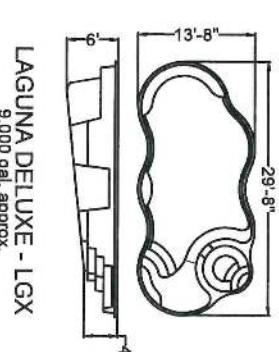
MAJESTY/OLYMPIA 14 - FR14
11,200 gal. approx.



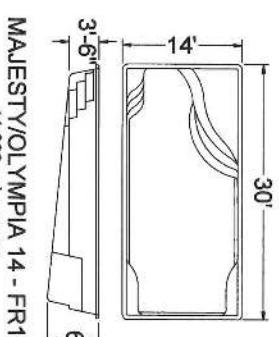
KEY WEST - BFF
9,000 gal. approx.



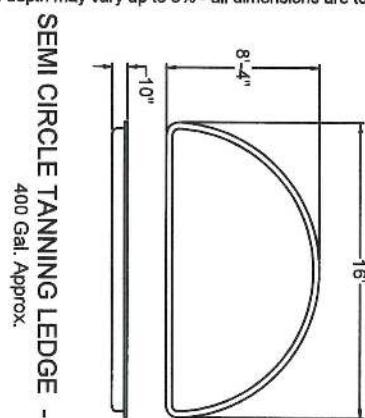
LAGUNA - LG
10,000 gal. approx.



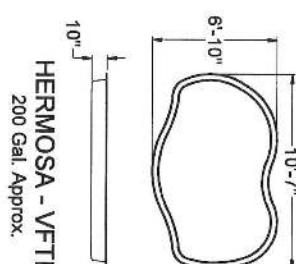
LAGUNA DELUXE - LGX
9,000 gal. approx.



Length, width and depth may vary up to 3% - all dimensions are to outside edge of coping, measured from parallel lines.

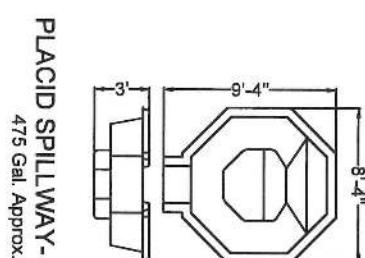


SEMI CIRCLE TANNING LEDGE - TSCT



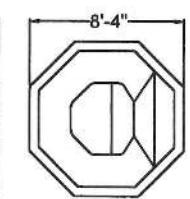
HERMOSA - VFTL

400 Gal. Approx.



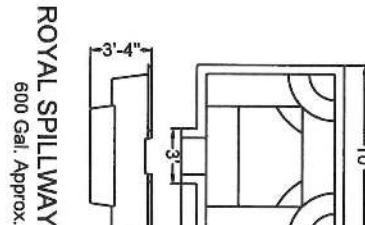
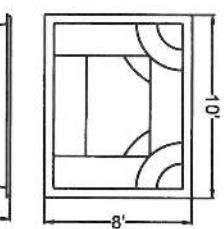
PLACID - BOS

475 Gal. Approx.



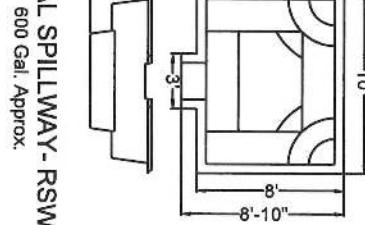
ROYAL - RY

600 Gal. Approx.



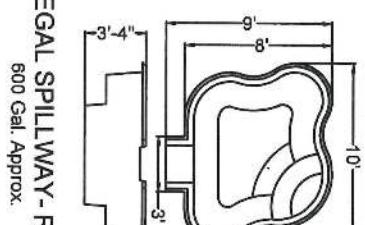
PLACID SPILLWAY - BOSSW

475 Gal. Approx.



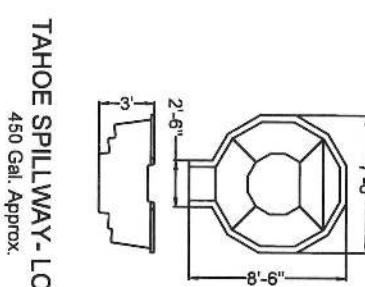
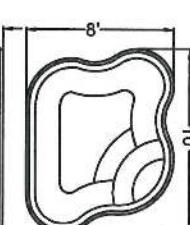
ROYAL SPILLWAY - RSW

600 Gal. Approx.



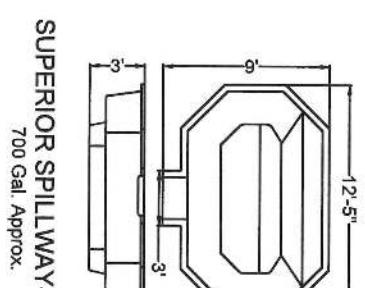
REGAL - RG

600 Gal. Approx.



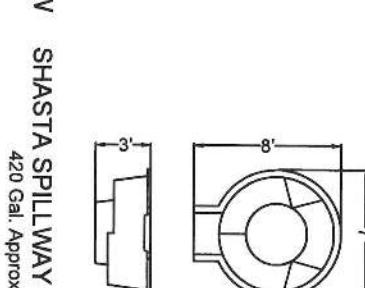
TAHOE SPILLWAY - LOSSW

450 Gal. Approx.



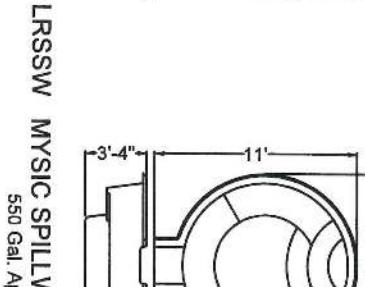
SUPERIOR SPILLWAY - CSSW

700 Gal. Approx.



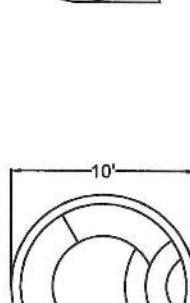
SHASTA SPILLWAY - LRSSW

420 Gal. Approx.



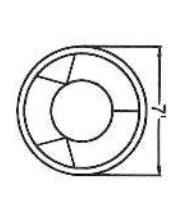
MYSTIC SPILLWAY - MSW

550 Gal. Approx.



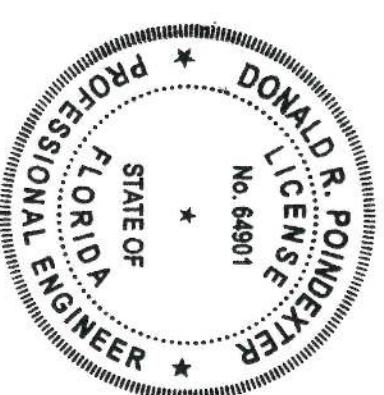
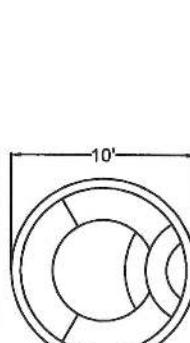
SHASTA - LRS

420 Gal. Approx.



MYSTIC - M

550 Gal. Approx.



Reviewed by:

Donald R. Poincexter, PE
Florida Lic. No. 64901
4119 Trinity Dr Santa Rosa CA 95405
Phone 707-494-8761

Seal:

Latham Pool Products Inc.

DBA Latham Grand, Latham Select
Viking Pool, Blue Hawaiian Pools, Trilogy Pools
ICC Evaluation Report Number (ESR-2014)

Latham, NY Phone: (800) 833-3800

Jane Lew, WV Phone: (304) 884-6954 Fax: (304) 884-7198

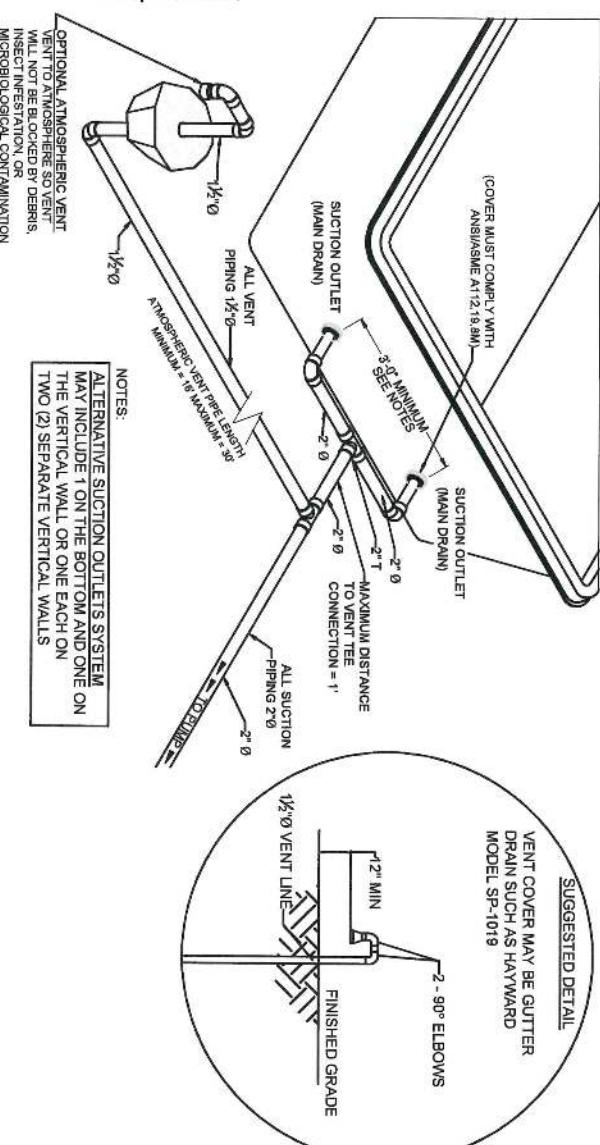
Midland, TX Phone: (432) 561-9933 Fax: (432) 561-9934

Williams, CA Phone: (530) 473-5319 Fax: (530) 473-5393

Zephyrhills, FL Phone: (813) 783-7439 Fax: (813) 783-7214

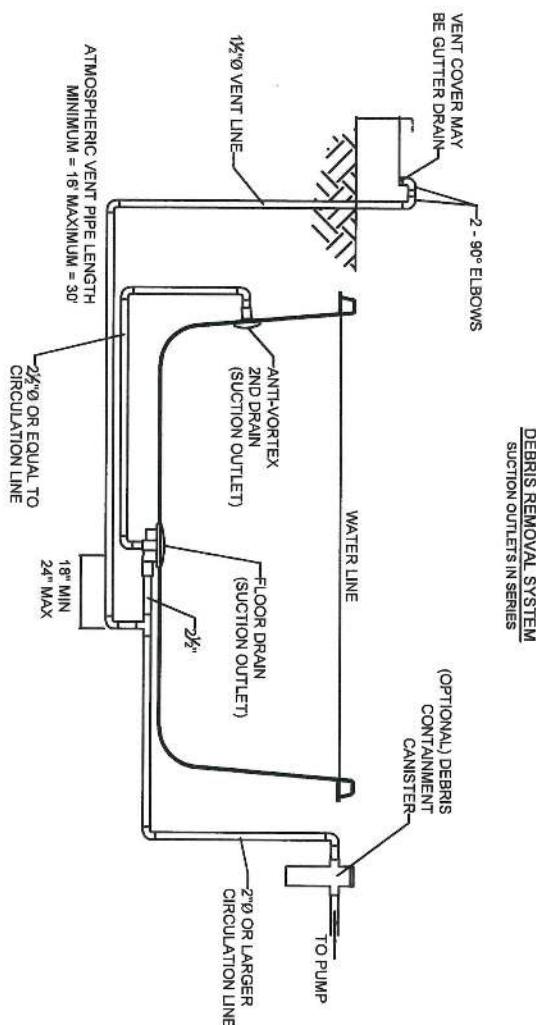
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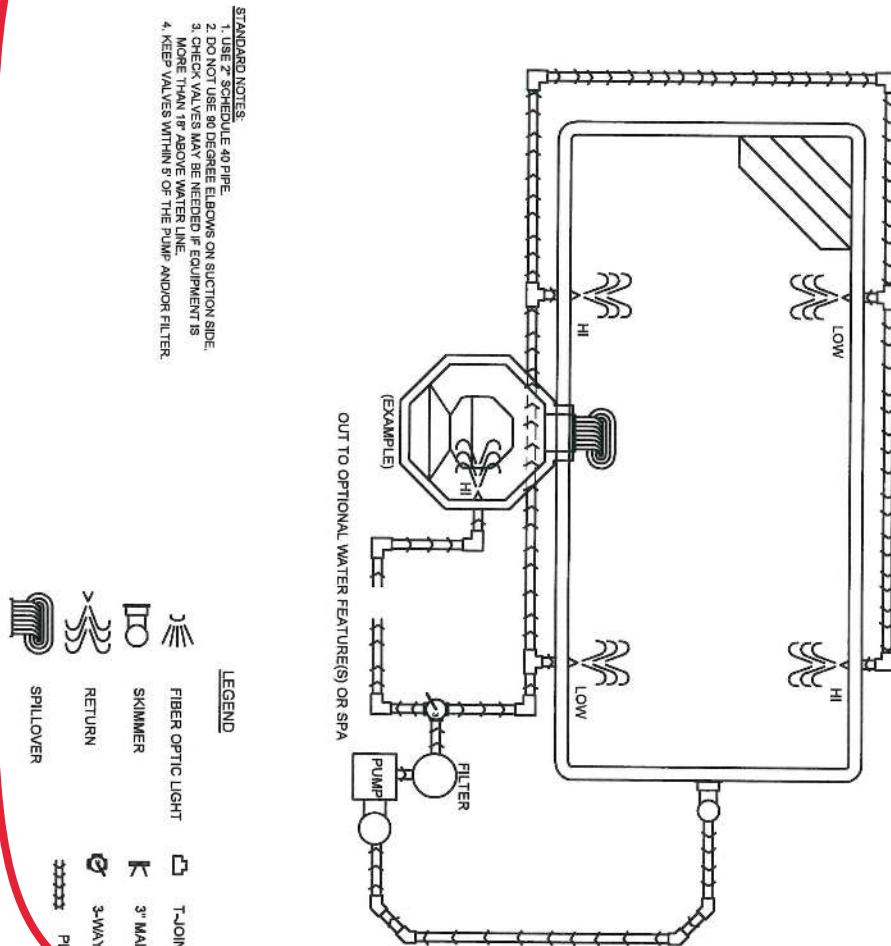


GENERAL NOTES

1. THE DEBRIS REMOVAL SYSTEM IS TO BE INSTALLED IN ACCORDANCE WITH DRAIN MANUFACTURER'S RECOMMENDATIONS.
2. CONTRACTOR TO INSTALL VACUUM RELIEF BACKUP SYSTEM IN ACCORDANCE WITH FBC-BUILDING AND RESIDENTIAL.
3. ALL PIPING TO BE SCHEDULE 40 PVC BEARING NSF APPROVAL UNLESS OTHERWISE NOTED.
4. THE FLOOR DRAIN AND DRAIN COVERS MEET THE REQUIREMENTS OF ANSI/APSP/ICC-16 2017 SUCTION OUTLET FITTING ASSEMBLIES AND ANSI/APSP/ICC-2013 STANDARD FOR SUCTION ENTRAPMENT AVOIDANCE.
5. THIS DRAWING WILL SUPPLEMENT CONTRACTOR'S SPECIFICATION DRAWING ON FILE. FOR METHODS AND FILE WITH THE BUILDING DEPARTMENT.
6. (ATTACH PLACARD WHICH STATES THAT VENT IS A SWIMMING POOL SAFETY DEVICE AND SHOULD NOT BE TAMPERED WITH.
7. THE MAXIMUM VACUUM WITH ONE SUMP PLUGGED AND TO RELEASE A BODY ENTRAPMENT ON THE OTHER SUMP WILL NOT EXCEED 4.5 INCHES OF MERCURY IN 3 SECONDS.
8. MAXIMUM SUCTION PIPE VELOCITY SIX (6) FPS OR 59 GPM.
9. AN APPROVED VACUUM RELEASE SYSTEM SUCH AS THE VAC-ALERT SVRS SYSTEM IS AN ALTERNATIVE TO THE OTHER SYSTEMS SHOWN.



SUMMING POOL WITHOUT RECIRCULATION MAIN DRAINS



DUAL SUCTION OUTLETS IN PARALLEL WITH OPTIONAL ATMOSPHERIC VENT SYSTEM
TO BE INSTALLED IN ACCORD WITH 2020 FBC-BUILDING AND RESIDENTIAL,
ANSI/APSP/ICC-16 AND ANSI/APSP/ICC-7 2013. N.T.S.