

WHERE THE  
D INTERSECT.

4-A	
4-B	
4-C	
4-D	
4-E	
4-F	
4-G	



# » 48" PANEL HEIGHT

## Drawing & Dig Specification Manual





## WARNINGS TO INSTALLER



# CAUTION

**CARE SHOULD BE TAKEN WHEN INSTALLING  
A POOL. SERIOUS INJURY CAN OCCUR IF PROPER  
PRECAUTIONS ARE NOT TAKEN DURING INSTALLATION.**

A safety package should be provided with the pool. Its contents should be reviewed with the pool owner. The package should include a pool safety sign, "NO DIVING" decals and placement instructions, the Association of Pool and Spa Professionals Minimum Standards for Residential Swimming Pools, and safety booklets such as: the Sensible Way to Enjoy Your Inground Swimming Pool, Greg Louganis on Diving, and Children Aren't Waterproof. You may obtain a safety package by contacting:

Customer Service  
33 Wade Road  
Latham, NY 12110  
(518) 786-1200

The installer should place all warnings according to the manufacturer's instructions prior to use of this pool.

NOTICE: It is not recommended to use diving and/or sliding equipment on residential pools. Such equipment, its installation, and use is the responsibility of the pool owner.

These pools are designed for private, residential use only. If this is not a private, residential pool, you should contact your local building department and the Association of Pool and Spa Professionals for standards relevant to its use, since they may be quite different.

**Association of Pool and Spa Professionals  
211 Eisenhower Avenue  
Alexandria, Virginia 22314**

For Pool Regulations and Standards refer to your Installation Manual-APSP Standards for Residential Swimming Pools.

## WARNINGS TO POOL OWNER

Before using your pool, the dealer and/or installer should provide you with a safety package which should include a pool safety sign, "NO DIVING" decals and placement instructions, the Association of Pool and Spa Professionals Minimum Standards for Residential Swimming Pools, and the following pool safety booklets:

1. The Sensible Way to Enjoy Your Inground Swimming Pool.
2. Greg Louganis on Diving - Knowing How to Dive Can Be Worth More Than Gold. It Can Be Worth Your Life.
3. Children Aren't Waterproof.

A safety package can be obtained by contacting:

Customer Service  
33 Wade Road  
Latham, NY 12110  
(518) 786-1200



# WARNING



**DIVING OR JUMPING  
INTO POOL MAY RESULT  
IN SERIOUS INJURY**

### Swimming & Diving Safety

Imperial does not recommend the use of diving and/or sliding equipment on residential pools. If you choose to dive, a thorough familiarity with the pool bottom, awareness of depths, and understanding of the principles of head-first entry into the water are critical factors in safe diving.

# HEADFIRST ENTRY - DIVING & SLIDING

Do not allow any diving or head-first entry into any pool until you are sure the pool is designed for diving and meets all standards for diving pools, such as the APSP standards. Consult your pool builder or APSP member if you have any doubts. Do not allow diving into a pool, or any part of the pool, that is not deep enough for diving. It is recommended that "No Diving" signs be placed at all areas of the pool where diving is not appropriate.

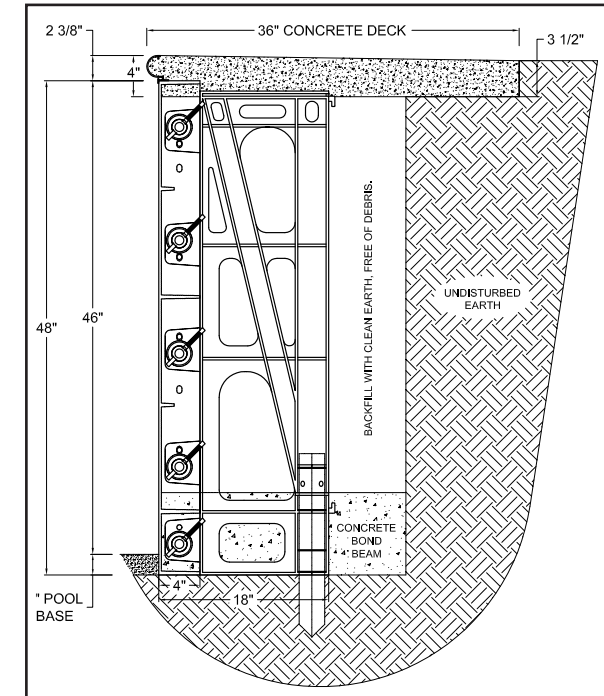
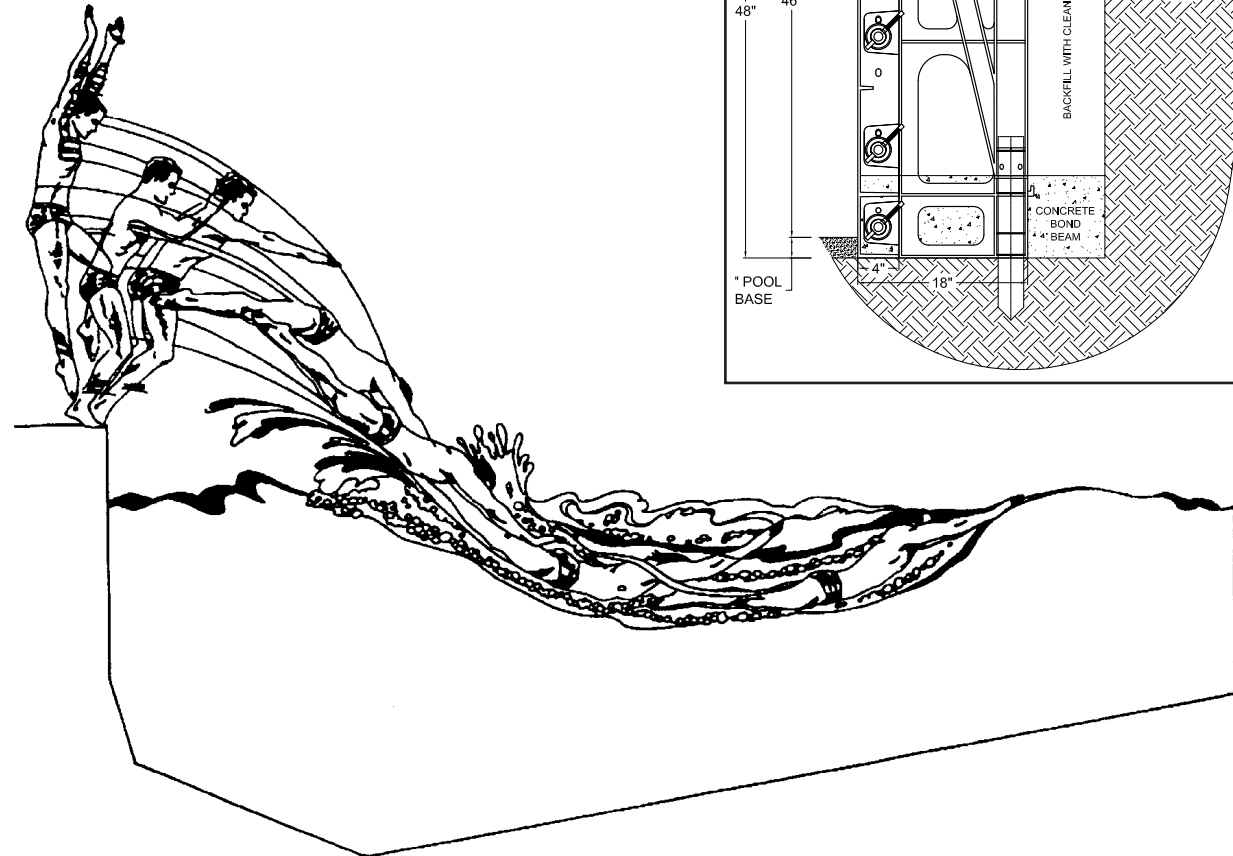
## Safe Diving Tips

**Think Ahead:** Once you've started your dive, you don't have time to think. Know the depth of the water. Plan your dive path. Never dive where you don't know the water depth or where there may be hidden obstructions.

**Steer Up:** When you dive down, you must be ready to steer up. As you enter the water, your arms must be extended over your head, hands flat and aiming up. Hold your head up and arch your back. This way, your whole body helps you steer up, away from the bottom. Plan a shallow dive, immediately steering up. Don't try the straight vertical-entry dives you see in competition. These dives take a long time to slow down and must be done only after careful training and in pools designed for competitive diving.

**Head and Hands Up:** Your extended arms and hands not only help you to steer up to the surface, they can also protect your head. If a diver's head hits bottom, major injury to neck and spine can result. So always remember, head and hands up!

**Control Your Dive:** Sometimes divers lose control through improper use of hands and arms. Practice holding your arms extended, hands flat and tipped up. Like learning to swim or ride a bicycle, you have to learn to make the right moves automatically. Carefully rehearse the proper diving techniques before you dive.



**Rectangle - 2' Radius**

12' x 24'	1
14' x 28'	2
16' x 32'	3
16' x 36'	4
18' x 36'	5
20' x 40'	6
16' x 38' x 24' 90° EL Left	7
16' x 38' x 24' 90° EL Right	8
18' x 38' x 26' 90° EL Left	9
18' x 38' x 26' 90° EL Right	10
20' x 44' x 30' 90° EL Left	11
20' x 44' x 30' 90° EL Right	12
16' x 42' Lazy EL Left	13
16' x 42' Lazy EL Right	14
18' x 43' Lazy EL Left	15
18' x 43' Lazy EL Right	16
20' x 48' Lazy EL Left	17
20' x 48' Lazy EL Right	18

**Rectangle - 4' Radius**

16' x 32'	19
16' x 36'	20
18' x 36'	21
20' x 40'	22
16' x 42' x 26' 90° EL Left	23
16' x 42' x 26' 90° EL Right	24
18' x 42' x 28' 90° EL Left	25
18' x 42' x 28' 90° EL Right	26
20' x 44' x 30' 90° EL Left	27
20' x 44' x 30' 90° EL Right	28
16' x 42' Lazy EL Left	29
16' x 42' Lazy EL Right	30
18' x 44' Lazy EL Left	31
18' x 44' Lazy EL Right	32
20' x 47' Lazy EL Left	33
20' x 47' Lazy EL Right	34

**Grecian**

16' 6" x 32' 6"	35
16' 6" x 36' 6"	36
18' 6" x 36' 6"	37
19' x 37'	38
19' x 41'	39
16' 6" x 42' 6" Lazy EL Left	40
16' 6" x 42' 6" Lazy EL Right	41
19' x 46' Lazy EL Left	42
19' x 46' Lazy EL Right	43

**Oval**

16' x 33'	44
18' x 36'	45
20' x 41'	46

**Roman End**

16' x 37'	47
18' x 38'	48
20' x 42'	49
16' x 42' Lazy EL Left	50
16' x 42' Lazy EL Right	51
18' x 45' Lazy EL Left	52
18' x 45' Lazy EL Right	53
20' x 49' Lazy EL Left	54
20' x 49' Lazy EL Right	55

**Keyhole - 2' Radius**

16' x 32' Standard View	56
16' x 32' Reverse View	57
18' x 36' Standard View	58
18' x 36' Reverse View	59
20' x 40' Standard View	60
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**Keyhole - Full Radius**

16' x 32' Standard View	62
16' x 32' Reverse View	63
18' x 36' Standard View	64
18' x 36' Reverse View	65
20' x 40' Standard View	66
20' x 40' Reverse View	67

**Kidney**

14' x 28' Left	68
14' x 28' Right	69
16' x 32' Left	70
16' x 32' Right	71
20' x 38' Left	72 - 73
20' x 38' Right	74 - 75

**Mountain Lake**

20' x 33' Standard View	76 - 77
20' x 33' Reverse View	78 - 79
21' x 35' Standard View	80 - 81
21' x 35' Reverse View	82 - 83
26' x 39' Standard View	84 - 85
26' x 39' Reverse View	86 - 87

**Lagoon**

16' x 34' x 25' Left	88 - 89
16' x 34' x 25' Right	90 - 91
18' x 38' x 29' Left	92 - 93
18' x 38' x 29' Right	94 - 95
20' x 42' x 30' Left	96 - 97
20' x 42' x 30' Right	98 - 99

**Figure 8**

16' x 37'	100 - 101
20' x 40'	102 - 103

**Appendix**

Skimmer Panel Cutouts	A1
Skimmer Cutout Procedure	A2
Key-Loc, Vee Filler & Grecian	A3
Corner Sleeve	
Nexus Connection System	A4
Panel Template & Bolted Step	A5
Connection	
Versa-Wall Panel & Straps	A6
Coping Layouts	A7 - A15
Panel Dig Cross Section	A15



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**MATRIX [PLUS]**  
POOL SYSTEM

**2' RADIUS RECTANGLE**  
14' x 28'

POOL SURFACE AREA	→ 388.6 ft <sup>2</sup> 36.1 m <sup>2</sup>	LINER SQ. FT.	→ 392.00 ft <sup>2</sup>
POOL VOLUME	→ 12250 gal 46300 L	POOL PERIMETER	→ 80'-7" 24,56 m

**NO DIVING ALLOWED IN THIS POOL**

ITEM DESCRIPTION	PART #
2 2' PLAIN PANEL	48101
1 2' PLAIN PANEL	48102
13 4' PLAIN PANEL	48106
1 4' SKIMMER PANEL	48106S
4 4' VERSA-FLEX PANEL	48115
4 4' 2' RADIUS STRAP SET	86327S
104 PUSH NUTS	09115
22 BRACE SYSTEM COMPLETE	48146
1 8' STEP & REST	07418SNR48
14* 3/8"-16X HEX WASHER HEAD BOLT	148838
14* 3/8"-16 HEX WASHER HEAD NUT	149664
CHANNEL-LOC SONOTUBE	86152
2' STANDARD LIGHT PANEL	48102L

\* - use bolts at step connection

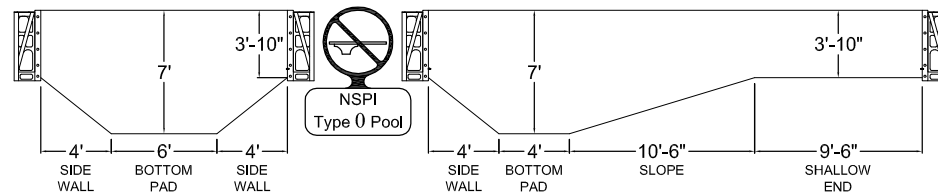
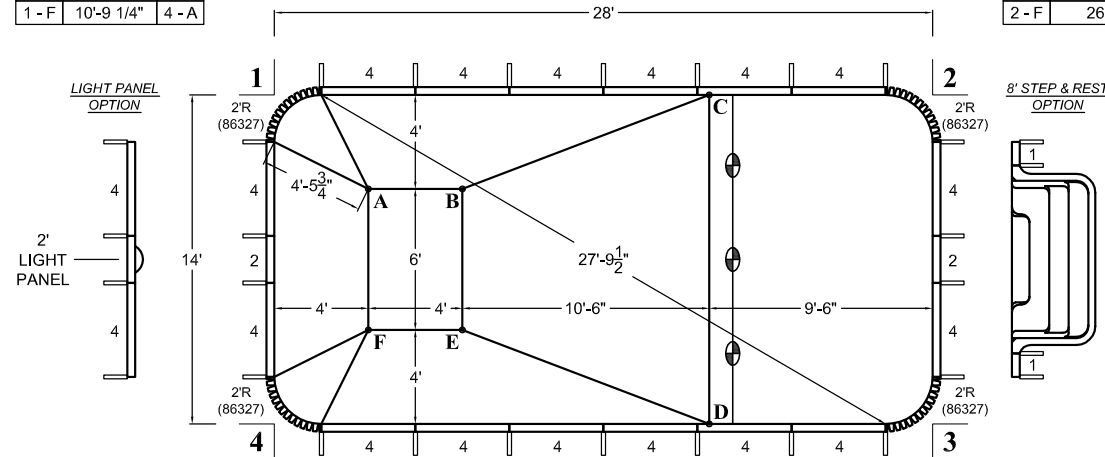
- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
- All inside pool dimensions are to be finished dimensions.
- Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI/ANSI suggested minimum standards for pools that are NOT approved for diving.

1 - A	5'-8"	4 - F
1 - B	8'-11 1/4"	4 - E
1 - C	18'-6"	4 - D
1 - D	23'-2 1/2"	4 - C
1 - E	12'-9 3/4"	4 - B
1 - F	10'-9 1/4"	4 - A

1 - 3	31'-3 3/4"
2 - 4	

2 - A	24'-4"	3 - F
2 - B	20'-4 3/4"	3 - E
2 - C	9'-6"	3 - D
2 - D	16'-11"	3 - C
2 - E	22'-4 1/4"	3 - B
2 - F	26'	3 - A





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**MATRIX [PLUS]**  
POOL SYSTEM

**2' RADIUS RECTANGLE**  
16' x 36'

8' SIDE STEP	8' STRAIGHT STEP	NO STEP	POOL SURFACE AREA →	572.6 ft <sup>2</sup> 53.2 m <sup>2</sup>	LINER SQ. FT. →	576.00 ft <sup>2</sup>
			POOL VOLUME →	19550 gal 74000 L	POOL PERIMETER →	100'-7" 30.66 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

			ITEM DESCRIPTION	PART #
2			2' PLAIN PANEL	48102
19	18	21	4' PLAIN PANEL	48106
1	1	1	4' SKIMMER PANEL	48106S
4	4	4	VERSA-FLEX PANEL	48115
4	4	4	2' RADIUS STRAP SET	86327S
104	104	104	PUSH NUTS	09115
25	26	26	BRACE SYSTEM COMPLETE	48146
1	1		8' STEP & REST	07418SNR48
14*	14*		3/8"-16X HEX WASHER HEAD BOLT	148838
14*	14*		3/8"-16 HEX WASHER HEAD NUT	149664
			CHANNEL-LOC SONOTUBE	86152
			4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection

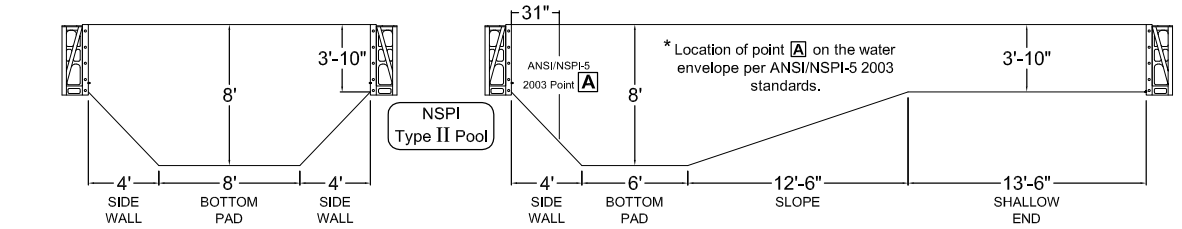
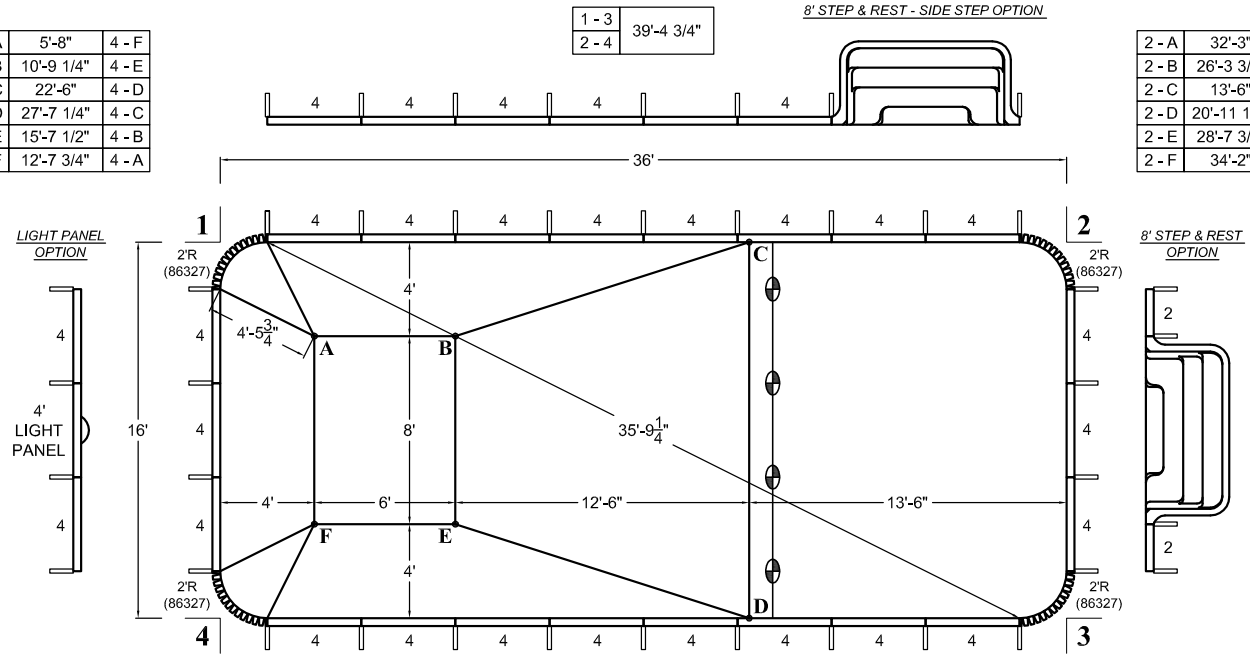
- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
- All inside pool dimensions are to be finished dimensions.
- Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

1 - A	5'-8"	4 - F
1 - B	10'-9 1/4"	4 - E
1 - C	22'-6"	4 - D
1 - D	27'-7 1/4"	4 - C
1 - E	15'-7 1/2"	4 - B
1 - F	12'-7 3/4"	4 - A

1 - 3	39'-4 3/4"
2 - 4	

2 - A	32'-3"	3 - F
2 - B	26'-3 3/4"	3 - E
2 - C	13'-6"	3 - D
2 - D	20'-11 1/4"	3 - C
2 - E	28'-7 3/4"	3 - B
2 - F	34'-2"	3 - A







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**MATRIX [PLUS]**  
POOL SYSTEM

**2' RADIUS RECTANGLE**  
20' x 40'

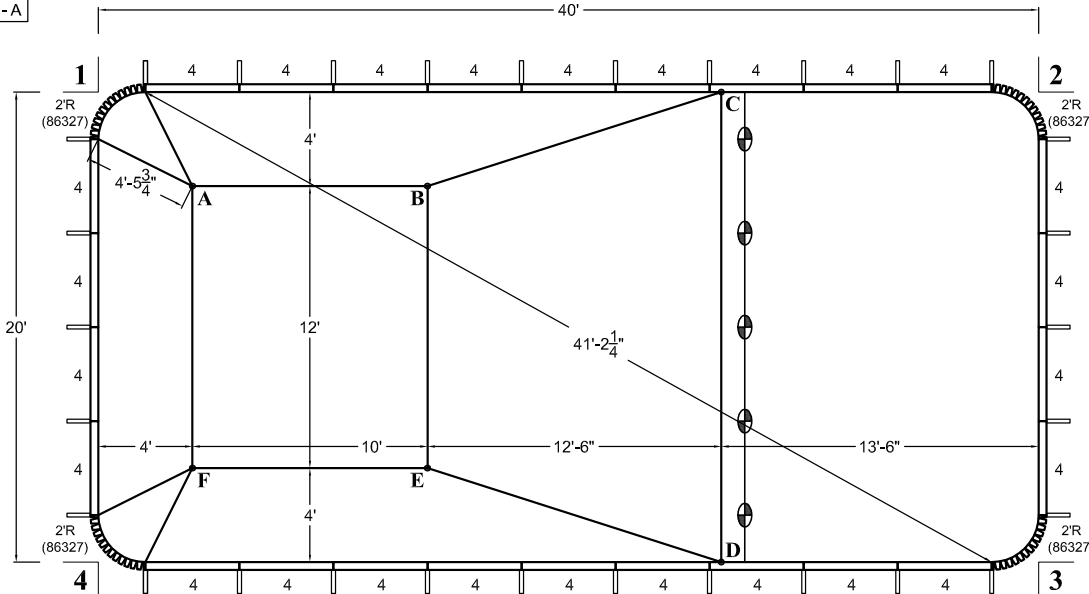
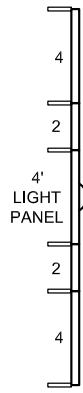
1 - A	5'-8"	4 - F
1 - B	14'-6 3/4"	4 - E
1 - C	26'-6"	4 - D
1 - D	33'-2 1/2"	4 - C
1 - E	21'-3"	4 - B
1 - F	16'-6"	4 - A

1 - 3	44'-8 3/4"
2 - 4	

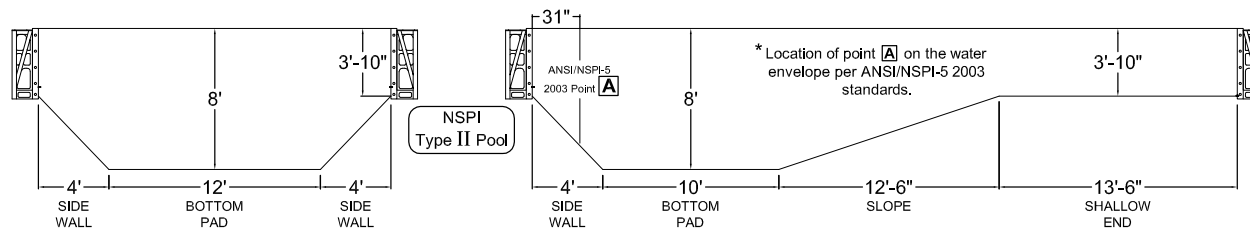
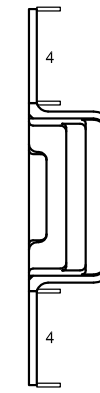
8' STEP & REST - SIDE STEP OPTION

2 - A	36'-2 3/4"	3 - F
2 - B	26'-3 3/4"	3 - E
2 - C	13'-6"	3 - D
2 - D	24'-1 1/2"	3 - C
2 - E	30'-6 1/4"	3 - B
2 - F	39'-4 3/4"	3 - A

LIGHT PANEL  
OPTION



8' STEP & REST  
OPTION



POOL SURFACE AREA	→ 796.6 ft <sup>2</sup>	LINER SQ. FT.	→ 800.00 ft <sup>2</sup>
POOL VOLUME	→ 28850 gal	POOL PERIMETER	→ 116'-7"
	109200 L		35.53 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM DESCRIPTION	PART #
2' PLAIN PANEL	48102
4' PLAIN PANEL	48106
4' SKIMMER PANEL	48106S
VERSA-FLEX PANEL	48115
2' RADIUS STRAP SET	86327S
PUSH NUTS	09115
BRACE SYSTEM COMPLETE	48146
8' STEP & REST	07418SNR48
3/8"-16X HEX WASHER HEAD BOLT	148838
3/8"-16 HEX WASHER HEAD NUT	149664
CHANNEL-LOC SONOTUBE	86152
4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection

1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 10' to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

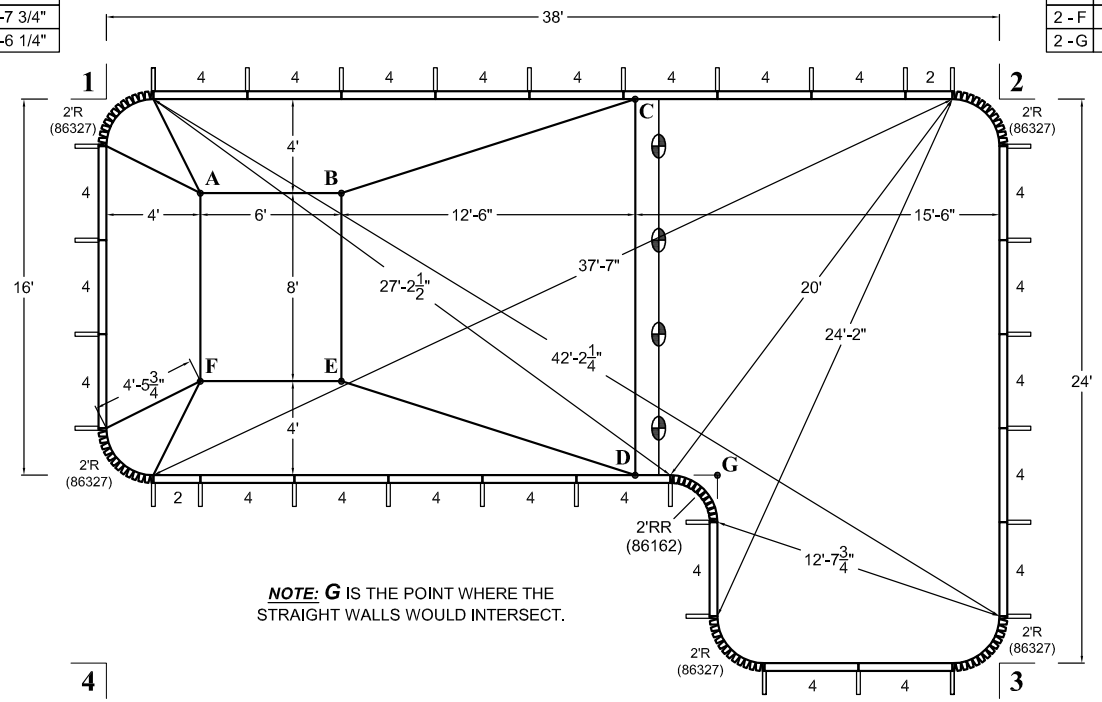
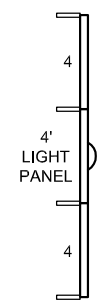
**2' RADIUS 90° EL LEFT**  
**16' x 38' x 24'**

1 - A	5'-8"
1 - B	10'-9 1/4"
1 - C	22'-6"
1 - D	27'-7 1/4"
1 - E	15'-7 1/2"
1 - F	12'-7 3/4"
1 - G	30'-6 1/4"

1 - 3	44'-11 1/4"
2 - 4	

2 - A	34'-2 3/4"
2 - B	28'-3 1/2"
2 - C	15'-6"
2 - D	22'-3 1/4"
2 - E	30'-5 1/2"
2 - F	36'-0 3/4"
2 - G	20'

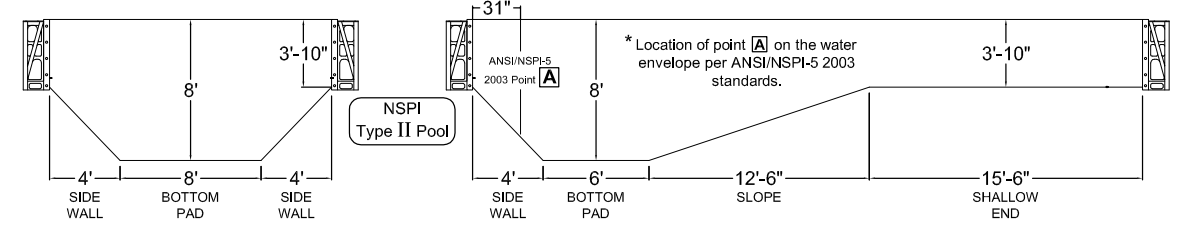
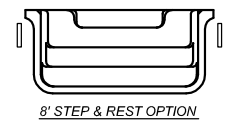
LIGHT PANEL  
OPTION



**NOTE: G IS THE POINT WHERE THE STRAIGHT WALLS WOULD INTERSECT.**

4 - A	20'-4 3/4"
4 - B	22'-4 1/4"
4 - C	32'-10 3/4"
4 - D	23'-10 1/2"
4 - E	15'-7 1/2"
4 - F	12'-7 3/4"
4 - G	27'-2 1/2"

3 - A	39'-5 1/4"
3 - B	34'-5"
3 - C	28'-6 3/4"
3 - D	17'-5 1/4"
3 - E	30'-5 1/2"
3 - F	36'-0 3/4"
3 - G	14'-5"



\* - use bolts at  
step connection

8' STRAIGHT STEP  
NO STEP

POOL SURFACE AREA	700.6 ft <sup>2</sup>	LINER SQ. FT.	704.00 ft <sup>2</sup>
POOL VOLUME	22800 gal	POOL PERIMETER	119'
	86300 L		36.27 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM	DESCRIPTION	PART #
2	2' PLAIN PANEL	48102
20	4' PLAIN PANEL	48106
2	4' SKIMMER PANEL	48106S
6	VERSA-FLEX PANEL	48115
5	2' RADIUS STRAP SET	86327S
1	2' REVERSE RADIUS STRAP SET	86162S
156	PUSH NUTS	09115
31	BRACE SYSTEM COMPLETE	48146
1	8' STEP & REST	07418SNR48
14*	3/8"-16X HEX WASHER HEAD BOLT	148838
14*	3/8"-16 HEX WASHER HEAD NUT	149664
	CHANNEL-LOC SONOTUBE	86152
	4' STANDARD LIGHT PANEL	48106L

1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1' away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

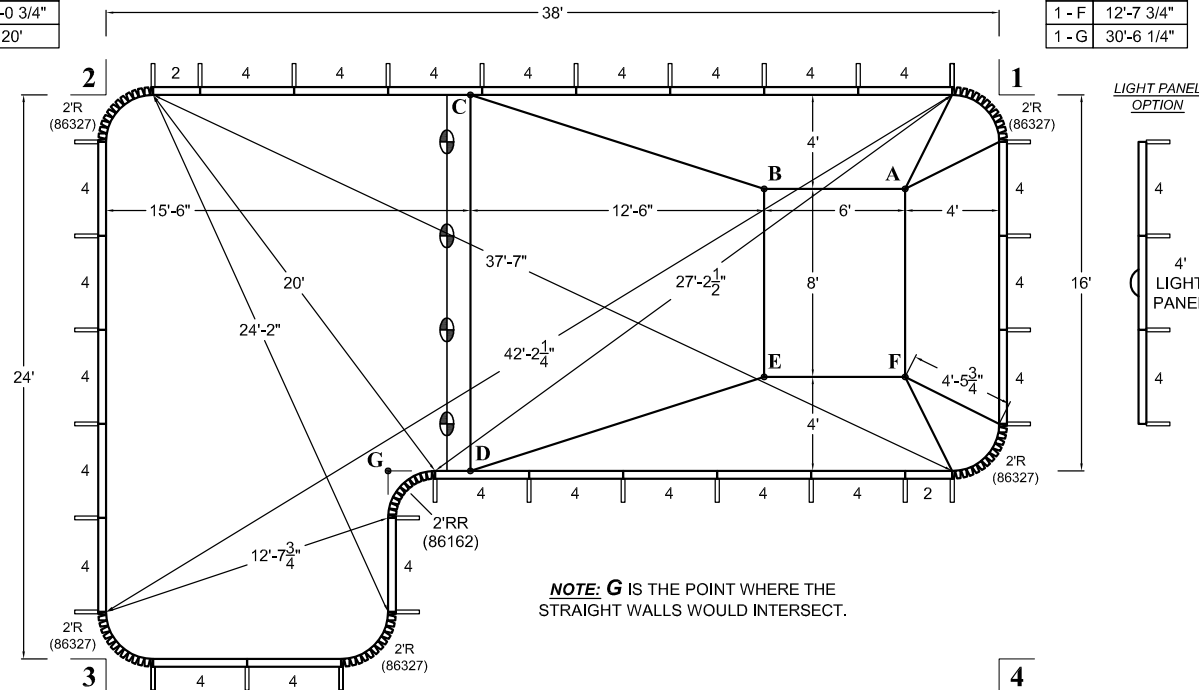
The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

**2' RADIUS 90° EL RIGHT**  
**16' x 38' x 24'**

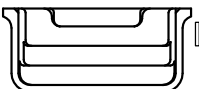
2 - A	34'-2 3/4"
2 - B	28'-3 1/2"
2 - C	15'-6"
2 - D	22'-3 1/4"
2 - E	30'-5 1/2"
2 - F	36'-0 3/4"
2 - G	20'

1 - 3	
2 - 4	

1 - A	5'-8"
1 - B	10'-9 1/4"
1 - C	22'-6"
1 - D	27'-7 1/4"
1 - E	15'-7 1/2"
1 - F	12'-7 3/4"
1 - G	30'-6 1/4"

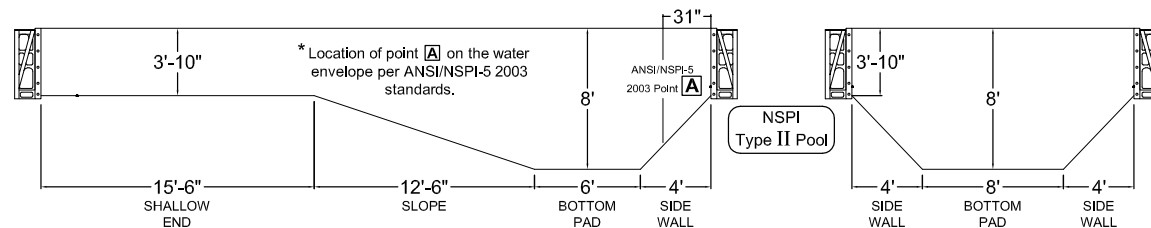


3 - A	39'-5 1/4"
3 - B	34'-5"
3 - C	28'-6 3/4"
3 - D	17'-5 1/4"
3 - E	30'-5 1/2"
3 - F	36'-0 3/4"
3 - G	14'-5"



8' STEP & REST OPTION

4 - A	20'-4 3/4"
4 - B	22'-4 1/4"
4 - C	32'-10 3/4"
4 - D	23'-10 1/2"
4 - E	15'-7 1/2"
4 - F	12'-7 3/4"
4 - G	27'-2 1/2"



POOL SURFACE AREA	700.6 ft <sup>2</sup> 65.1 m <sup>2</sup>	LINER SQ. FT.	704.00 ft <sup>2</sup>
POOL VOLUME	22800 gal 86300 L	POOL PERIMETER	119' 36.27 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM DESCRIPTION	PART #
2 2 2' PLAIN PANEL	48102
20 22 4' PLAIN PANEL	48106
2 2 4' SKIMMER PANEL	48106S
6 6 VERSA-FLEX PANEL	48115
5 5 2' RADIUS STRAP SET	86327S
1 1 2' REVERSE RADIUS STRAP SET	86162S
156 156 PUSH NUTS	09115
31 32 BRACE SYSTEM COMPLETE	48146
1 1 8' STEP & REST	07418SNR48
14* 3/8"-16X HEX WASHER HEAD BOLT	148838
14* 3/8"-16 HEX WASHER HEAD NUT	149664
CHANNEL-LOC SONOTUBE	86152
4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection

1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

**2' RADIUS 90° EL LEFT**  
**18' x 38' x 26'**

POOL SURFACE AREA	→ 776.6 ft <sup>2</sup>	LINER SQ. FT.	→ 780.00 ft <sup>2</sup>
POOL VOLUME	→ 25500 gal	POOL PERIMETER	→ 123'
	96500 L		37.49 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

8' STRAIGHT STEP	NO STEP	ITEM DESCRIPTION	PART #
		1' PLAIN PANEL	48101
4	4	2' PLAIN PANEL	48102
20	22	4' PLAIN PANEL	48106
2	2	4' SKIMMER PANEL	48106S
6	6	VERSA-FLEX PANEL	48115
5	5	2' RADIUS STRAP SET	86327S
1	1	2' REVERSE RADIUS STRAP SET	86162S
156	156	PUSH NUTS	09115
33	34	BRACE SYSTEM COMPLETE	48146
1		8' STEP & REST	07418SNR48
14*		3/8"-16X HEX WASHER HEAD BOLT	148838
14*		3/8"-16 HEX WASHER HEAD NUT	149664
		CHANNEL-LOC SONOTUBE	86152
		4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection

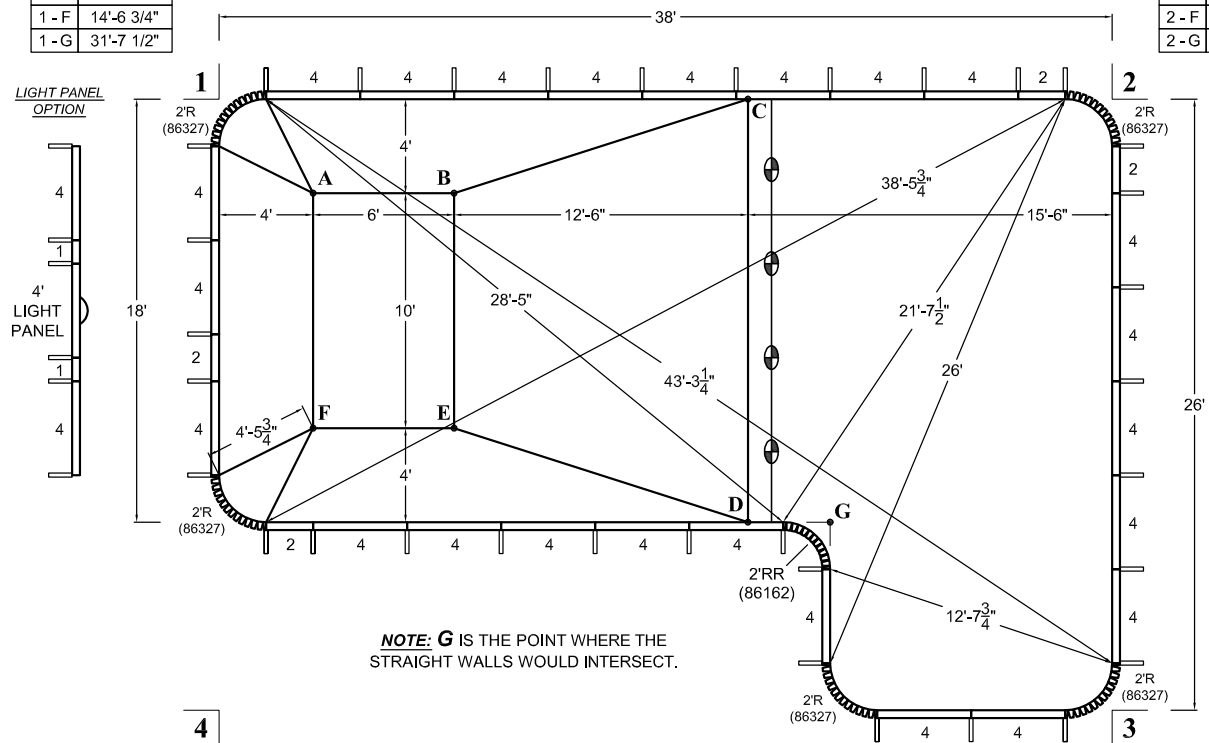
1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1' away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the pool.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

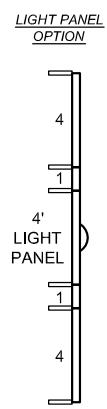
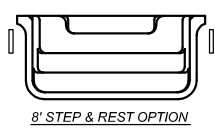
1 - A	5'-8"
1 - B	10'-9 1/4"
1 - C	22'-6"
1 - D	28'-9 3/4"
1 - E	17'-2 1/2"
1 - F	14'-6 3/4"
1 - G	31'-7 1/2"

1 - 3	46'-0 1/2"
2 - 4	

2 - A	34'-2 3/4"
2 - B	28'-3 1/2"
2 - C	15'-6"
2 - D	23'-9"
2 - E	31'-3 3/4"
2 - F	36'-9 1/4"
2 - G	21'-7 1/2"

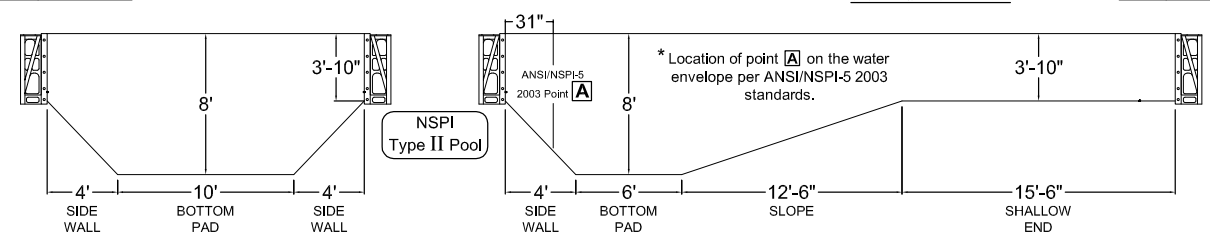


**NOTE: G IS THE POINT WHERE THE STRAIGHT WALLS WOULD INTERSECT.**



4 - A	22'-4 1/4"
4 - B	24'-2"
4 - C	34'-4 1/2"
4 - D	23'-10 1/2"
4 - E	15'-7 1/2"
4 - F	12'-7 3/4"
4 - G	27'-2 1/2"

3 - A	40'-6"
3 - B	35'-7 1/4"
3 - C	30'-3 1/4"
3 - D	17'-5 1/4"
3 - E	30'-5 1/2"
3 - F	36'-0 3/4"
3 - G	14'-5"



\* Location of point A on the water envelope per ANS/NSPI-5 2003 standards.

JANUARY  
2011

**MATRIX [PLUS]**  
POOL SYSTEM

**2' RADIUS 90° EL RIGHT**  
**18' x 38' x 26'**

POOL SURFACE AREA	→ 776.6 ft <sup>2</sup> 72.1 m <sup>2</sup>	LINER SQ. FT.	→ 780.00 ft <sup>2</sup>
POOL VOLUME	→ 25500 gal 96500 L	POOL PERIMETER	→ 123' 37.49 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM DESCRIPTION	PART #
1' PLAIN PANEL	48101
2' PLAIN PANEL	48102
4' PLAIN PANEL	48106
4' SKIMMER PANEL	48106S
VERS-A-FLEX PANEL	48115
2' RADIUS STRAP SET	86327S
2' REVERSE RADIUS STRAP SET	86162S
PUSH NUTS	09115
BRACE SYSTEM COMPLETE	48146
8' STEP & REST	07418SNR48
3/8"-16X HEX WASHER HEAD BOLT	148838
3/8"-16 HEX WASHER HEAD NUT	149664
CHANNEL-LOC SONOTUBE	86152
4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection

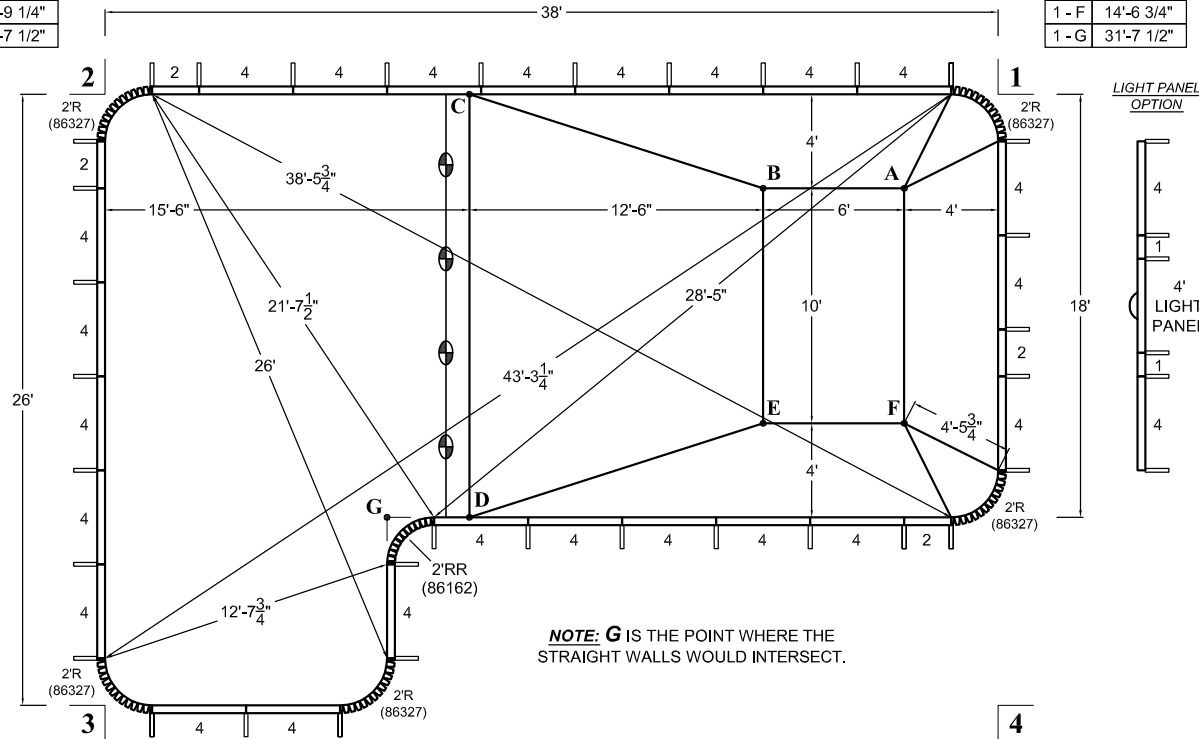
1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1' away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

2 - A	34'-2 3/4"
2 - B	28'-3 1/2"
2 - C	15'-6"
2 - D	23'-9"
2 - E	31'-3 3/4"
2 - F	36'-9 1/4"
2 - G	21'-7 1/2"

1 - 3	46'-0 1/2"
2 - 4	

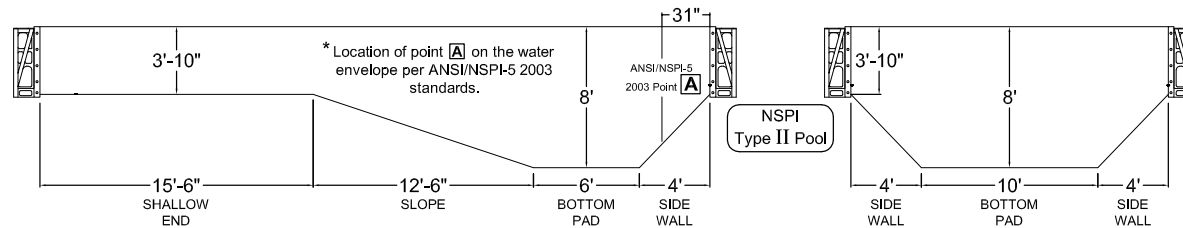
1 - A	5'-8"
1 - B	10'-9 1/4"
1 - C	22'-6"
1 - D	28'-9 3/4"
1 - E	17'-2 1/2"
1 - F	14'-6 3/4"
1 - G	31'-7 1/2"



3 - A	40'-6"
3 - B	35'-7 1/4"
3 - C	30'-3 1/4"
3 - D	17'-5 1/4"
3 - E	30'-5 1/2"
3 - F	36'-0 3/4"
3 - G	14'-5"

8' STEP & REST OPTION

4 - A	22'-4 1/4"
4 - B	24'-2"
4 - C	34'-4 1/2"
4 - D	23'-10 1/2"
4 - E	15'-7 1/2"
4 - F	12'-7 3/4"
4 - G	27'-2 1/2"



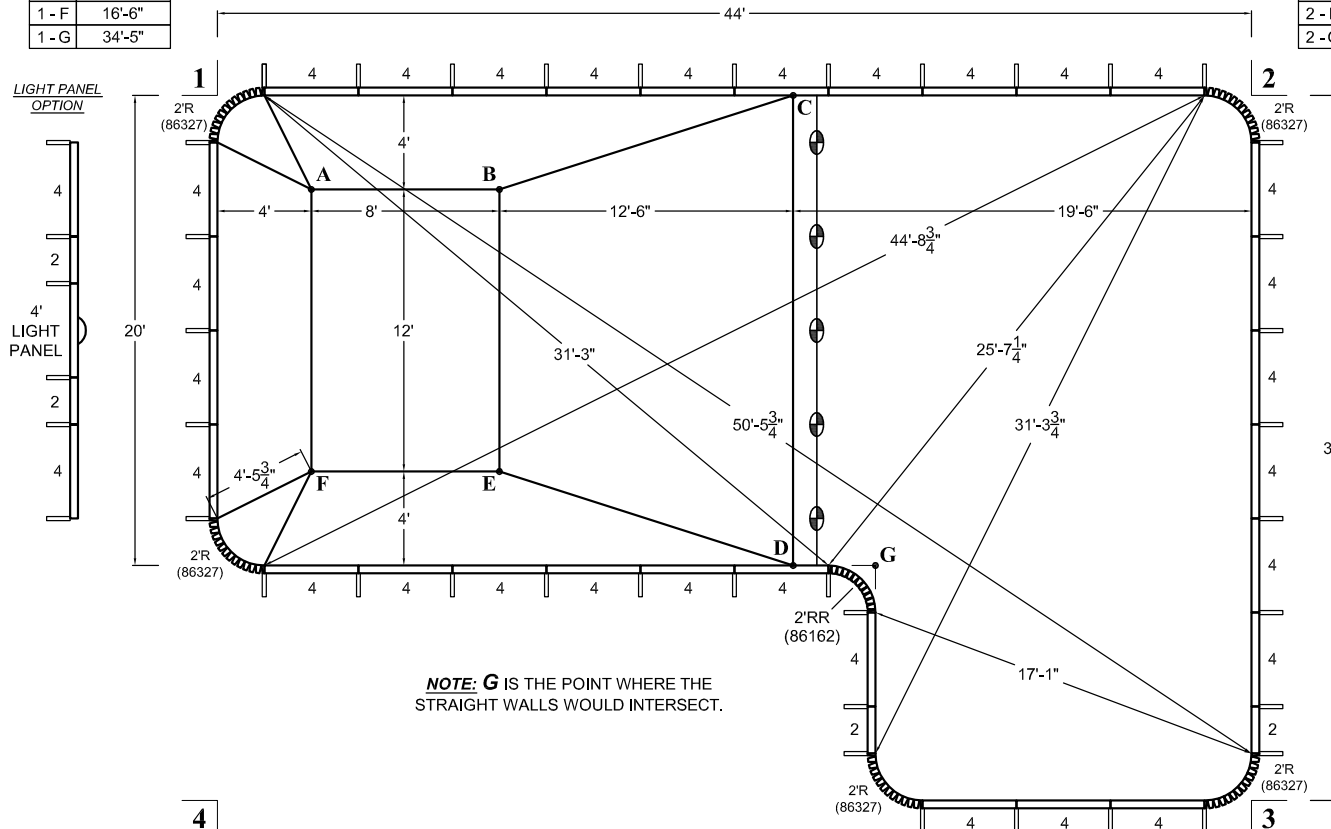
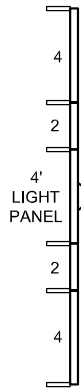
NSPI Type II Pool

1 - A	5'-8"
1 - B	12'-7 3/4"
1 - C	24'-6"
1 - D	31'-7 1/2"
1 - E	20'
1 - F	16'-6"
1 - G	34'-5"

1 - 3	53'-3"
2 - 4	

2 - A	40'-2 1/2"
2 - B	32'-3"
2 - C	19'-6"
2 - D	27'-11 1/4"
2 - E	35'-9 1/4"
2 - F	43'-1"
2 - G	25'-7 1/4"

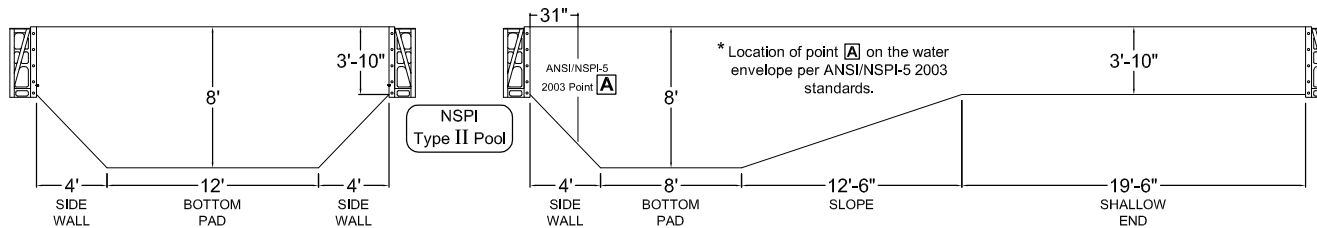
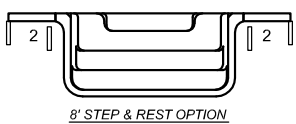
LIGHT PANEL OPTION



NOTE: G IS THE POINT WHERE THE STRAIGHT WALLS WOULD INTERSECT.

4 - A	26'-3 3/4"
4 - B	28'-7 3/4"
4 - C	38'-8 3/4"
4 - D	26'-5 1/2"
4 - E	18'-5 1/4"
4 - F	14'-6 3/4"
4 - G	29'-8 3/4"

3 - A	47'-8 1/2"
3 - B	41'-2 3/4"
3 - C	35'-9 1/4"
3 - D	21'-11"
3 - E	34'-11 1/4"
3 - F	42'-4 1/2"
3 - G	18'-10 1/2"



\* Location of point A on the water envelope per ANSI/NSPI-5 2003 standards.

JANUARY 2011

**MATRIX [PLUS]**  
POOL SYSTEM

2' RADIUS 90° EL LEFT  
20' x 44' x 30'

POOL SURFACE AREA	→ 1036.6 ft <sup>2</sup>	LINER SQ. FT.	→ 1040.00 ft <sup>2</sup>
POOL VOLUME	→ 33800 gal	POOL PERIMETER	→ 143'
	127900 L		43.59 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM DESCRIPTION	PART #
4 2 2' PLAIN PANEL	48102
25 28 4' PLAIN PANEL	48106
2 2 4' SKIMMER PANEL	48106S
6 6 VERSA-FLEX PANEL	48115
5 5 2' RADIUS STRAP SET	86327S
1 1 2' REVERSE RADIUS STRAP SET	86162S
156 156 PUSH NUTS	09115
38 38 BRACE SYSTEM COMPLETE	48146
1 8' STEP & REST	07418SNR48
14* 3/8"-16X HEX WASHER HEAD BOLT	148838
14* 3/8"-16 HEX WASHER HEAD NUT	149664
CHANNEL-LOC SONOTUBE	86152
4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection

1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1' away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.



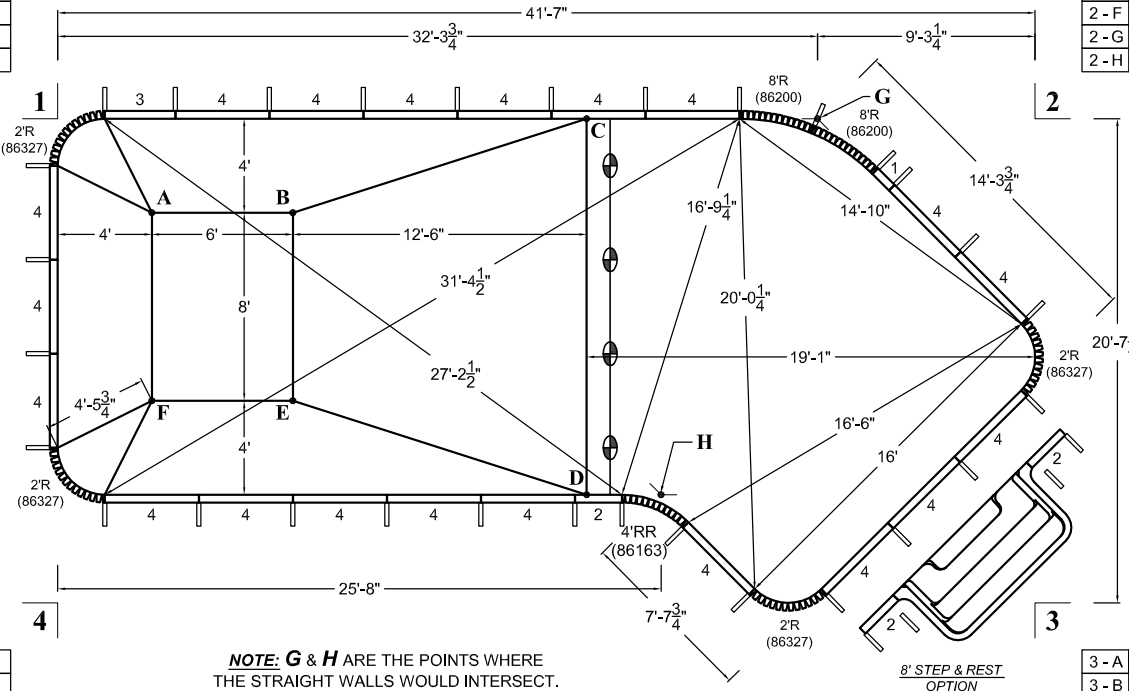
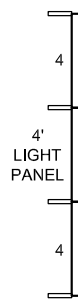
**2' RADIUS LAZY EL LEFT**  
**16' x 42'**

1 - A	5'-8"
1 - B	10'-9 1/4"
1 - C	22'-6"
1 - D	27'-7 1/4"
1 - E	15'-7 1/2"
1 - F	12'-7 3/4"
1 - G	32'-3 3/4"
1 - H	30'-3"

1 - 3	46'-4 3/4"
2 - 4	

2 - A	37'-9 1/2"
2 - B	31'-10"
2 - C	19'-1"
2 - D	24'-10 3/4"
2 - E	33'-9 1/2"
2 - F	39'-5 1/2"
2 - G	9'-3"
2 - H	22'-6 3/4"

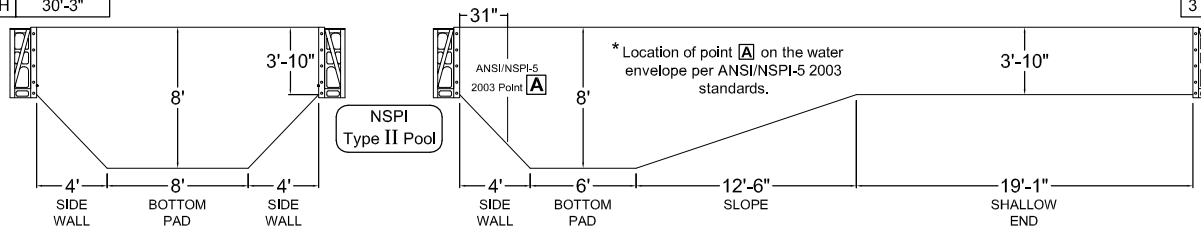
LIGHT PANEL  
OPTION



**NOTE: G & H ARE THE POINTS WHERE THE STRAIGHT WALLS WOULD INTERSECT.**

4 - A	5'-8"
4 - B	10'-9 1/4"
4 - C	30'-6"
4 - D	22'-11 1/2"
4 - E	15'-7 1/2"
4 - F	12'-7 3/4"
4 - G	32'-3 3/4"
4 - H	30'-3"

3 - A	41'-1"
3 - B	35'-8"
3 - C	28'-1"
3 - D	19'-7 1/2"
3 - E	32'-8 3/4"
3 - F	38'-6 1/2"
3 - G	22'-7"
3 - H	16'-6 3/4"



\* Location of point **A** on the water envelope per ANSI/NSPI-5 2003 standards.

NSPI  
Type II Pool

POOL SURFACE AREA	→ 635.1 ft <sup>2</sup>	LINER SQ. FT.	→ 746.00 ft <sup>2</sup>
POOL VOLUME	→ 21100 gal	POOL PERIMETER	→ 108'
	79900 L		32.92 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM DESCRIPTION	PART #
1' PLAIN PANEL	48101
2' PLAIN PANEL	48102
3' PLAIN PANEL	48108
4' PLAIN PANEL	48106
4' SKIMMER PANEL	48106S
VERSA-FLEX PANEL	48115
8' RADIUS STRAP SET	86200S
2' RADIUS STRAP SET	86327S
4' REVERSE RADIUS STRAP SET	86163S
PUSH NUTS	09115
BRACE SYSTEM COMPLETE	48146
8' STEP & REST	07418SNR48
3/8"-16X HEX WASHER HEAD BOLT	148838
3/8"-16 HEX WASHER HEAD NUT	149664
CHANNEL-LOC SONOTUBE	86152
4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection

1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3" wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 10" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.





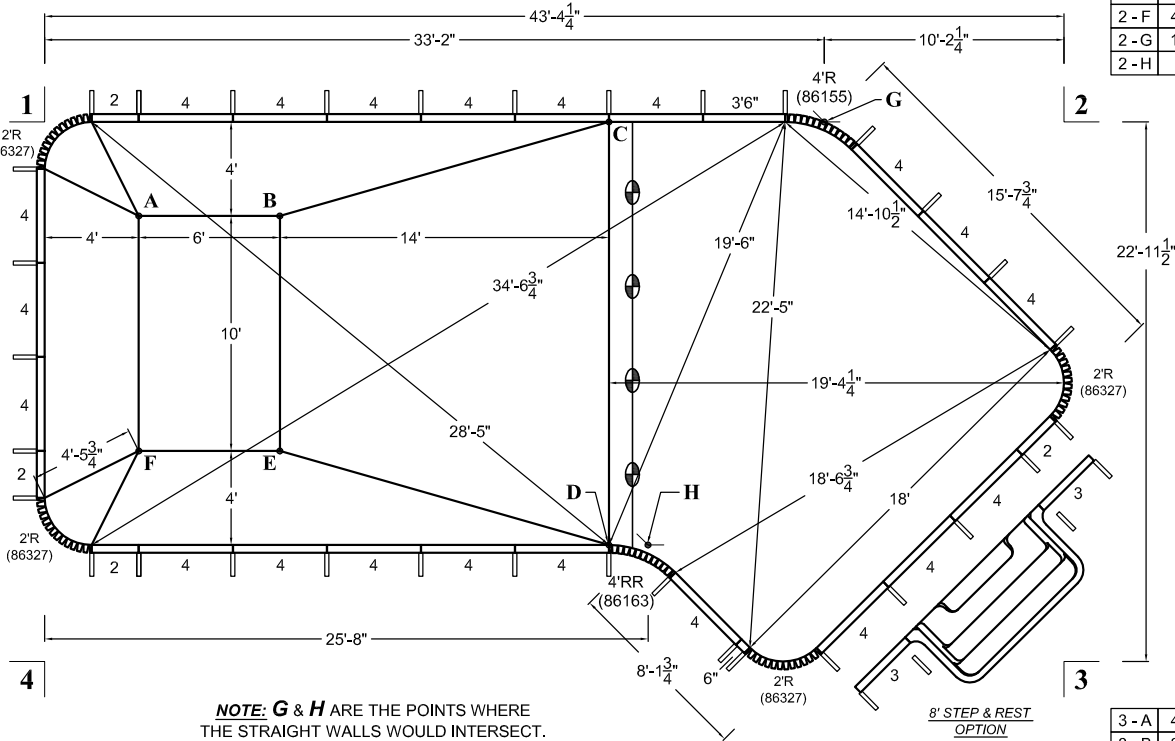
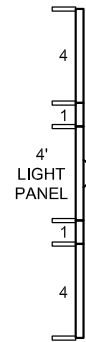
**2' RADIUS LAZY EL LEFT**  
**18' x 43'**

1 - A	5'-8"
1 - B	10'-9 1/4"
1 - C	24'
1 - D	30'
1 - E	17'-2 1/2"
1 - F	14'-6 3/4"
1 - G	33'-2"
1 - H	31'-4 1/4"

1 - 3	49'-0 3/4"
2 - 4	

2 - A	39'-6 3/4"
2 - B	33'-7 1/4"
2 - C	19'-4 1/4"
2 - D	26'-5 1/4"
2 - E	36'-2"
2 - F	41'-9 1/4"
2 - G	10'-2 1/4"
2 - H	25'-3"

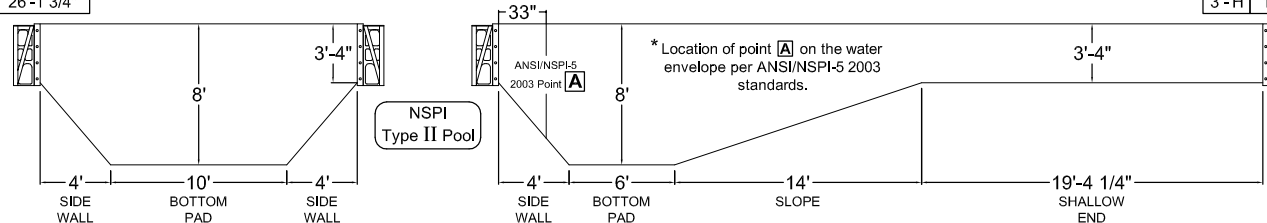
LIGHT PANEL  
OPTION



4 - A	19'-4 1/2"
4 - B	21'-5 1/4"
4 - C	33'-2 1/2"
4 - D	24'-6"
4 - E	13'-5"
4 - F	9'-9 3/4"
4 - G	40'-4"
4 - H	26'-1 3/4"

**NOTE: G & H ARE THE POINTS WHERE THE STRAIGHT WALLS WOULD INTERSECT.**

3 - A	43'-8 1/4"
3 - B	38'-4 1/2"
3 - C	30'-0 1/4"
3 - D	19'-11 3/4"
3 - E	34'-6 1/2"
3 - F	40'-4 1/4"
3 - G	25'-1 1/2"
3 - H	18'-4 1/2"



POOL SURFACE AREA	→ 740.3 ft <sup>2</sup>	LINER SQ. FT.	→ 878.6250 ft <sup>2</sup>
			→ 68.8 m <sup>2</sup>
POOL VOLUME	→ 24600 gal	POOL PERIMETER	→ 114'-10"
			→ 93100 L

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM DESCRIPTION	PART #
1 1 6" PLAIN PANEL	48100
1 1 1' PLAIN PANEL	48101
3 4 2' PLAIN PANEL	48102
2 3' PLAIN PANEL	48108
1 1 3'6" PLAIN PANEL	48105
16 19 4' PLAIN PANEL	48106
2 2 4' SKIMMER PANEL	48106S
6 6 VERSA-FLEX PANEL	48115
1 1 8' RADIUS STRAP SET	86200S
4 4 2' RADIUS STRAP SET	86327S
1 1 4' REVERSE RADIUS STRAP SET	86163S
156 156 PUSH NUTS	09115
32 33 BRACE SYSTEM COMPLETE	48146
1 8' STEP & REST	07418SNR48
14* 3/8"-16X HEX WASHER HEAD BOLT	148838
14* 3/8"-16 HEX WASHER HEAD NUT	149664
CHANNEL-LOC SONOTUBE	86152
4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection

- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1' away from the pool.
- All inside pool dimensions are to be finished dimensions.
- Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 10" to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

**2' RADIUS LAZY EL RIGHT**  
**18' x 43'**

POOL SURFACE AREA	→ 740.3 ft <sup>2</sup>	LINER SQ. FT.	→ 878.6250 ft <sup>2</sup>
POOL VOLUME	→ 24600 gal	POOL PERIMETER	→ 114'-10"
	93100 L		35.00 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

8' STRAIGHT STEP

ITEM	DESCRIPTION	PART #
1	6" PLAIN PANEL	48100
1	1' PLAIN PANEL	48101
3	2' PLAIN PANEL	48102
2	3' PLAIN PANEL	48108
1	3'6" PLAIN PANEL	48105
16	4' PLAIN PANEL	48106
2	4' SKIMMER PANEL	48106S
6	VERSA-FLEX PANEL	48115
1	8' RADIUS STRAP SET	86200S
4	2' RADIUS STRAP SET	86327S
1	4' REVERSE RADIUS STRAP SET	86163S
156	PUSH NUTS	09115
32	BRACE SYSTEM COMPLETE	48146
1	8' STEP & REST	07418SNR48
14*	3/8"-16X HEX WASHER HEAD BOLT	148838
14*	3/8"-16 HEX WASHER HEAD NUT	149664
	CHANNEL-LOC SONOTUBE	86152
	4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection

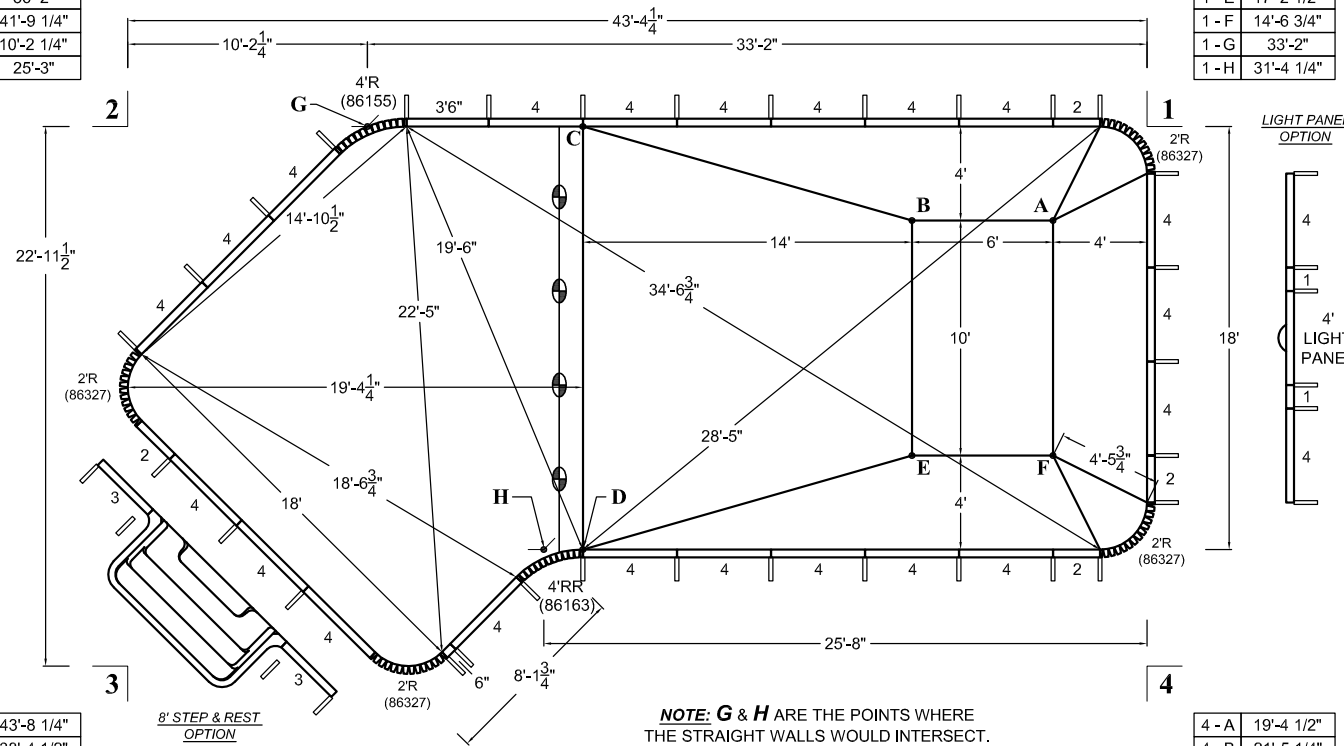
- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
- All inside pool dimensions are to be finished dimensions.
- Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

2 - A	39'-6 3/4"
2 - B	33'-7 1/4"
2 - C	19'-4 1/4"
2 - D	26'-5 1/4"
2 - E	36'-2"
2 - F	41'-9 1/4"
2 - G	10'-2 1/4"
2 - H	25'-3"

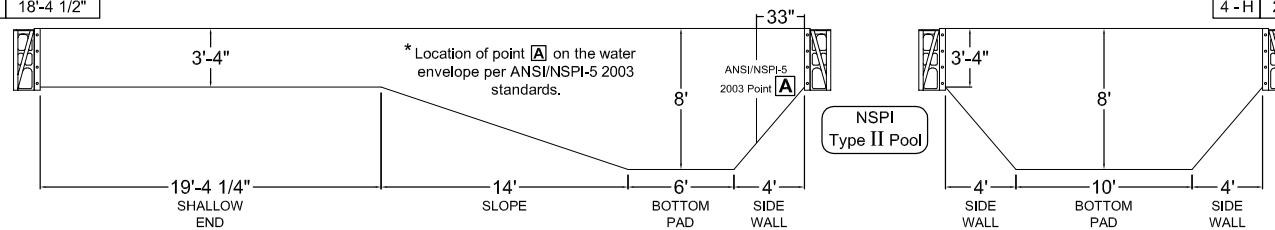
1 - 3	49'-0 3/4"
2 - 4	

1 - A	5'-8"
1 - B	10'-9 1/4"
1 - C	24'
1 - D	30'
1 - E	17'-2 1/2"
1 - F	14'-6 3/4"
1 - G	33'-2"
1 - H	31'-4 1/4"



3 - A	43'-8 1/4"
3 - B	38'-4 1/2"
3 - C	30'-0 1/4"
3 - D	19'-11 3/4"
3 - E	34'-6 1/2"
3 - F	40'-4 1/4"
3 - G	25'-1 1/2"
3 - H	18'-4 1/2"

4 - A	19'-4 1/2"
4 - B	21'-5 1/4"
4 - C	33'-2 1/2"
4 - D	24'-6"
4 - E	13'-5"
4 - F	9'-9 3/4"
4 - G	40'-4"
4 - H	26'-1 3/4"



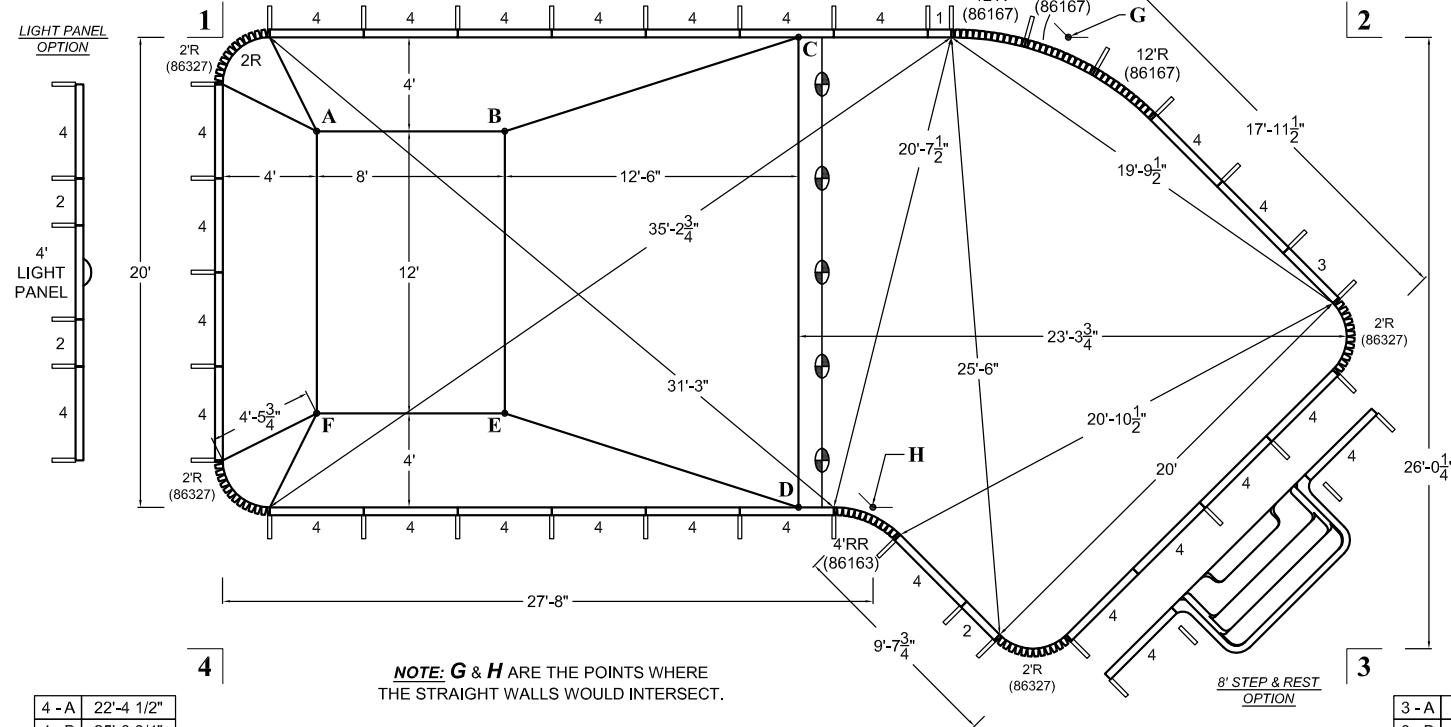
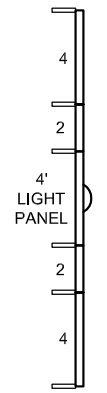
**2' RADIUS LAZY EL LEFT**  
**20' x 48'**

1 - A	5'-8"
1 - B	12'-7 3/4"
1 - C	24'-6"
1 - D	31'-7 1/2"
1 - E	20'
1 - F	16'-6"
1 - G	35'-11 3/4"
1 - H	34'-1 3/4"

1 - 3	54'-5 1/4"
2 - 4	

2 - A	44'
2 - B	36'-0 1/2"
2 - C	23'-3 3/4"
2 - D	30'-8 3/4"
2 - E	39'-2 3/4"
2 - F	46'-7 3/4"
2 - G	11'-10"
2 - H	28'-4 3/4"

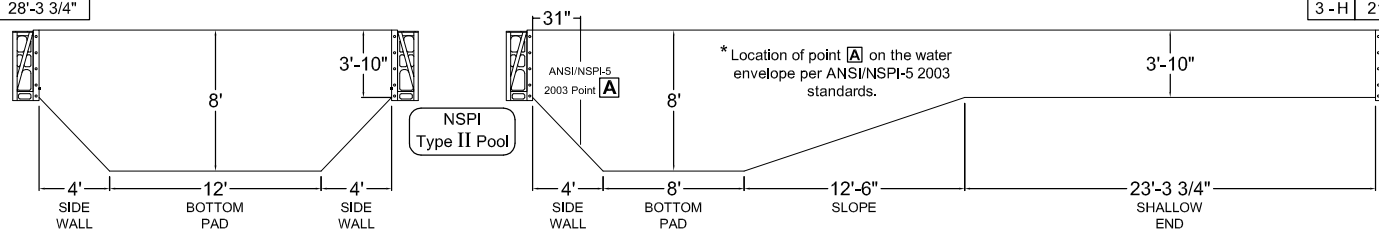
LIGHT PANEL  
OPTION



4 - A	22'-4 1/2"
4 - B	25'-0 3/4"
4 - C	35'-8 3/4"
4 - D	25'-2 3/4"
4 - E	15'-7 1/2"
4 - F	10'-9 1/2"
4 - G	44'-4 3/4"
4 - H	28'-3 3/4"

**NOTE: G & H ARE THE POINTS WHERE THE STRAIGHT WALLS WOULD INTERSECT.**

3 - A	49'-0 1/2"
3 - B	42'-0 1/2"
3 - C	34'-11 1/4"
3 - D	24'-1"
3 - E	37'-2 1/4"
3 - F	44'-11 1/2"
3 - G	28'-7"
3 - H	21'-0 1/2"



POOL SURFACE AREA	→ 906.4 ft <sup>2</sup>	LINER SQ. FT.	→ 1078.75 ft <sup>2</sup>
POOL VOLUME	→ 30600 gal	POOL PERIMETER	→ 127'-2"
	115800 L		38.76 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM DESCRIPTION	PART #
1' PLAIN PANEL	48101
2' PLAIN PANEL	48102
3' PLAIN PANEL	48108
4' PLAIN PANEL	48106
4' SKIMMER PANEL	48106S
VERSA-FLEX PANEL	48115
12' RADIUS STRAP SET	86167S
2' RADIUS STRAP SET	86327S
4' REVERSE RADIUS STRAP SET	86163S
PUSH NUTS	09115
BRACE SYSTEM COMPLETE	48146
8' STEP & REST	07418SNR48
3/8"-16X HEX WASHER HEAD BOLT	148838
3/8"-16 HEX WASHER HEAD NUT	149664
CHANNEL-LOC SONOTUBE	86152
4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection

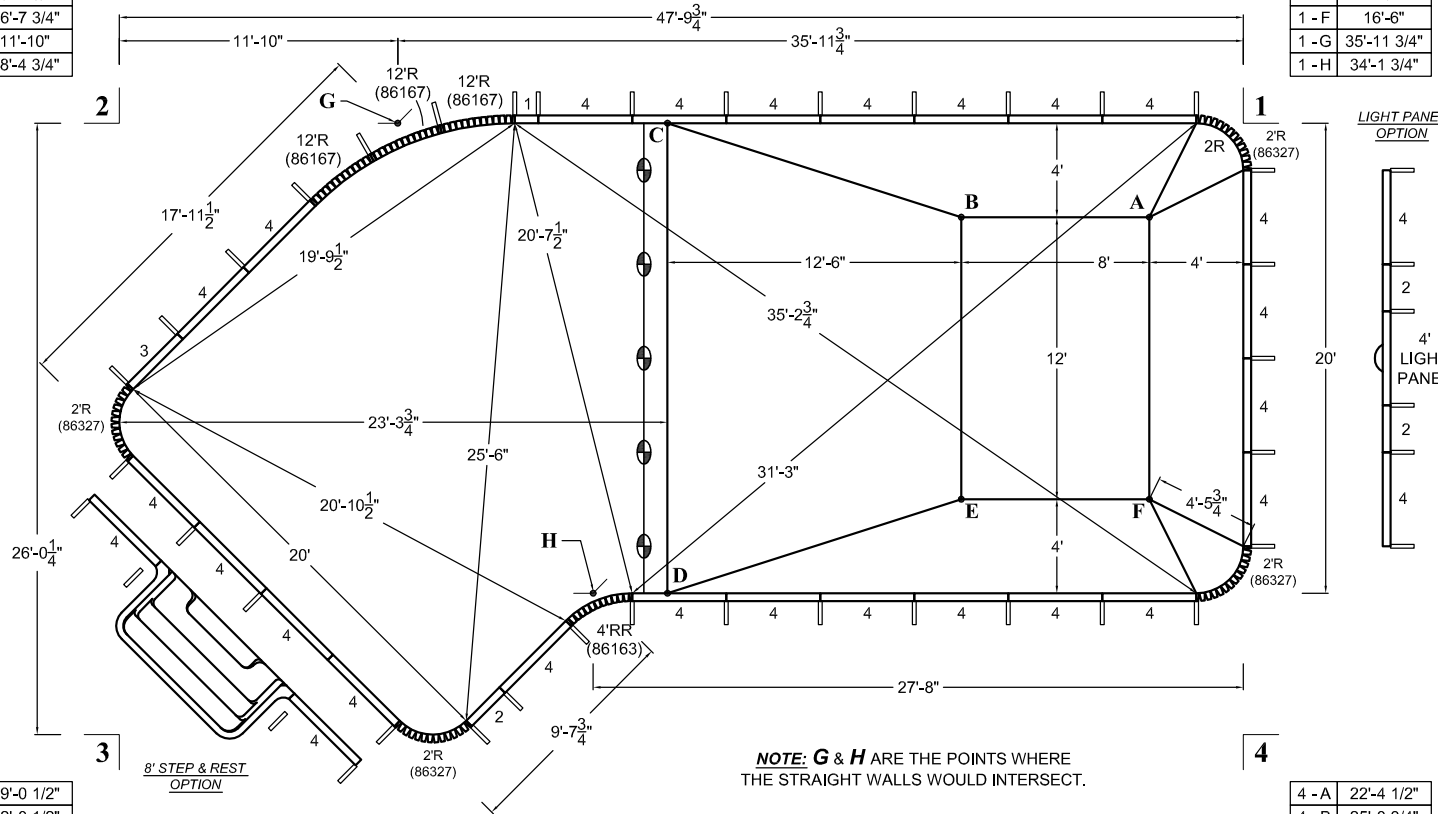
1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1' away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 10" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

2 - A	44"
2 - B	36'-0 1/2"
2 - C	23'-3 3/4"
2 - D	30'-8 3/4"
2 - E	39'-2 3/4"
2 - F	46'-7 3/4"
2 - G	11'-10"
2 - H	28'-4 3/4"

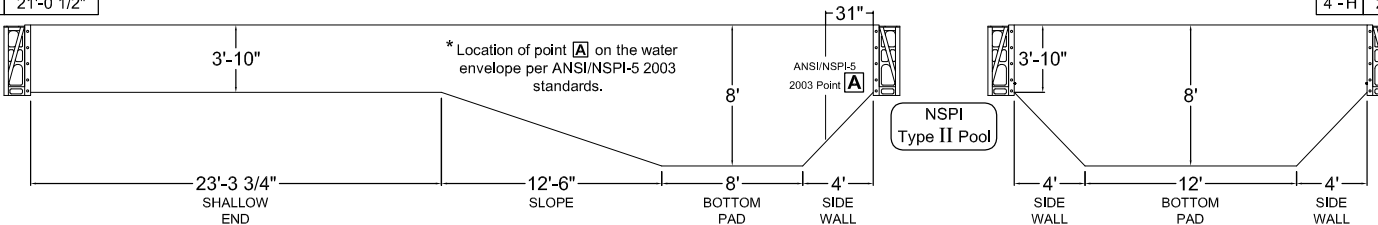
1 - 3	54'-5 1/4"
2 - 4	

1 - A	5'-8"
1 - B	12'-7 3/4"
1 - C	24'-6"
1 - D	31'-7 1/2"
1 - E	20'
1 - F	16'-6"
1 - G	35'-11 3/4"
1 - H	34'-1 3/4"



3 - A	49'-0 1/2"
3 - B	42'-0 1/2"
3 - C	34'-11 1/4"
3 - D	24'-1"
3 - E	37'-2 1/4"
3 - F	44'-11 1/2"
3 - G	28'-7"
3 - H	21'-0 1/2"

4 - A	22'-4 1/2"
4 - B	25'-0 3/4"
4 - C	35'-8 3/4"
4 - D	25'-2 3/4"
4 - E	15'-7 1/2"
4 - F	10'-9 1/2"
4 - G	44'-4 3/4"
4 - H	28'-3 3/4"



JANUARY 2011

**MATRIX [PLUS]**  
POOL SYSTEM

**2' RADIUS LAZY EL RIGHT**  
**20' x 48'**

POOL SURFACE AREA	→ 906.4 ft <sup>2</sup>	LINER SQ. FT.	→ 1078.75 ft <sup>2</sup>
POOL VOLUME	→ 30600 gal	POOL PERIMETER	→ 127'-2"
	115800 L		38.76 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM DESCRIPTION	PART #
1' PLAIN PANEL	48101
2' PLAIN PANEL	48102
3' PLAIN PANEL	48108
4' PLAIN PANEL	48106
4' SKIMMER PANEL	48106S
VERSA-FLEX PANEL	48115
12' RADIUS STRAP SET	86167S
2' RADIUS STRAP SET	86327S
4' REVERSE RADIUS STRAP SET	86163S
PUSH NUTS	09115
BRACE SYSTEM COMPLETE	48146
8' STEP & REST	07418SNR48
3/8"-16X HEX WASHER HEAD BOLT	148838
3/8"-16 HEX WASHER HEAD NUT	149664
CHANNEL-LOC SONOTUBE	86152
4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection

1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.





**4' RADIUS RECTANGLE  
18' x 36'**

POOL SURFACE AREA →	634.3 ft <sup>2</sup> 58.9 m <sup>2</sup>	LINER SQ. FT. →	648.00 ft <sup>2</sup>
POOL VOLUME →	22000 gal 83300 L	POOL PERIMETER →	101'-2" 30.84 m

**DIVING PERMITTED ONLY FROM  
DESIGNATED DIVING AREA**

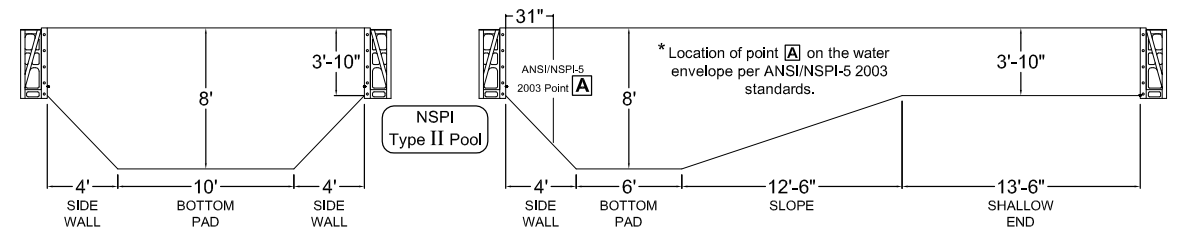
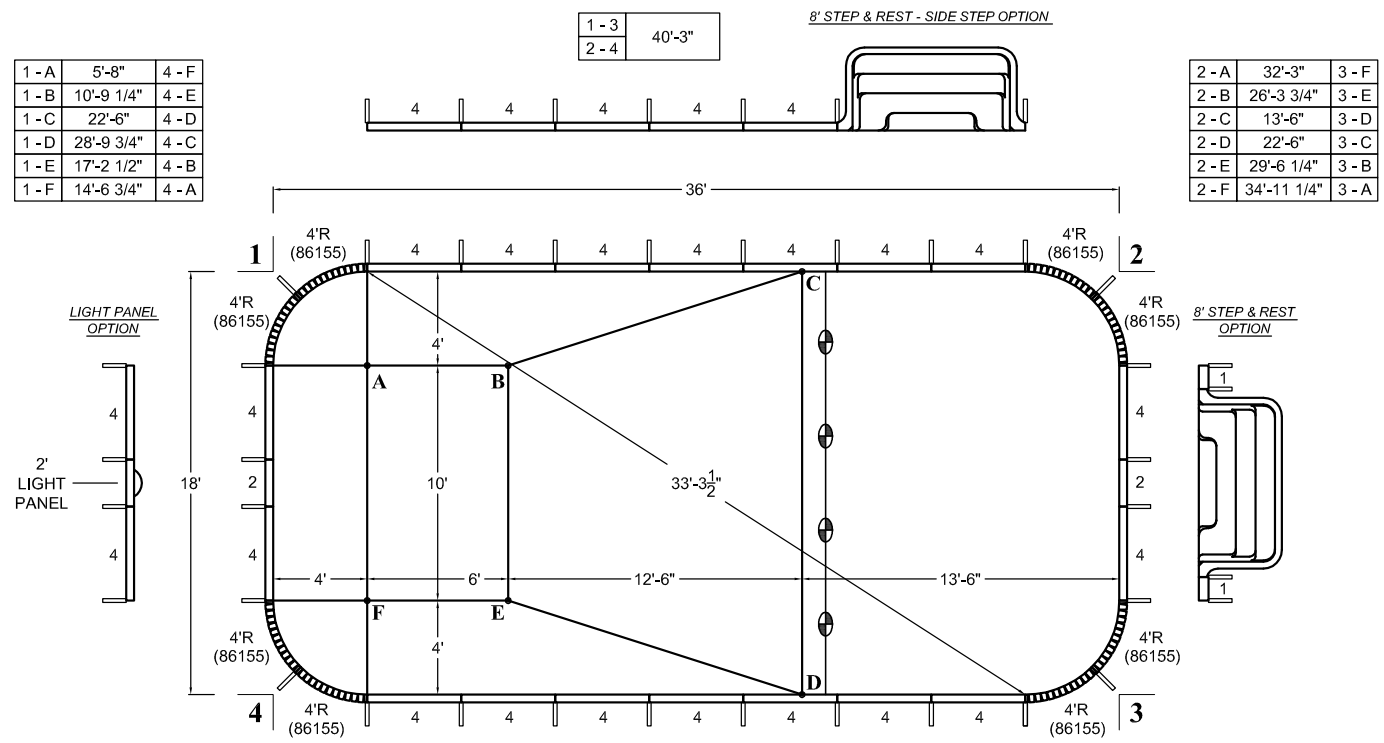
8' SIDE STEP  
8' STRAIGHT STEP  
NO STEP

ITEM DESCRIPTION	PART #
1' PLAIN PANEL	48101
2' PLAIN PANEL	48102
4' PLAIN PANEL	48106
4' SKIMMER PANEL	48106S
VERSA-FLEX PANEL	48115
4' RADIUS STRAP SET	86155S
PUSH NUTS	09115
BRACE SYSTEM COMPLETE	48146
8' STEP & REST	07418SNR48
3/8"-16X HEX WASHER HEAD BOLT	148838
3/8"-16 HEX WASHER HEAD NUT	149664
CHANNEL-LOC SONOTUBE	86152
2' STANDARD LIGHT PANEL	48102L

\* - use bolts at  
step connection

1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3" wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1' away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 10" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.







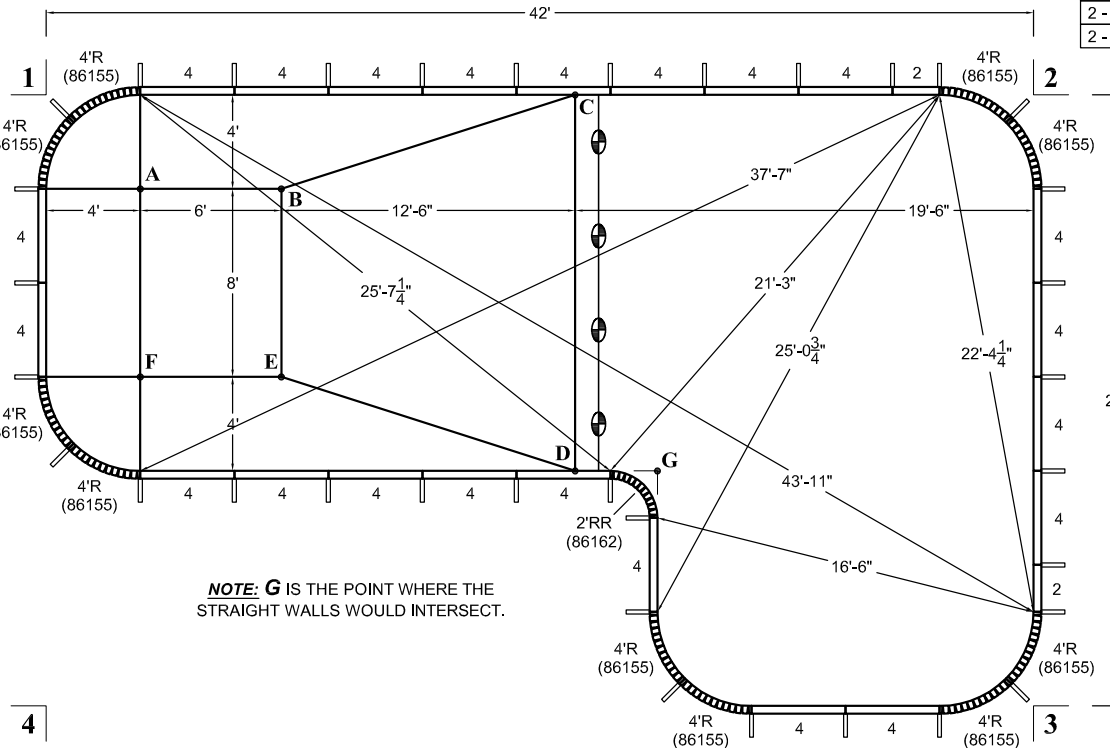
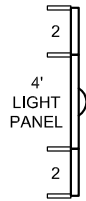
**4' RADIUS 90° EL LEFT**  
**16' x 42' x 26'**

1 - A	5'-8"
1 - B	10'-9 1/4"
1 - C	22'-6"
1 - D	27'-7 1/4"
1 - E	15'-7 1/2"
1 - F	12'-7 3/4"
1 - G	30'-6 1/4"

1 - 3	49'-4 3/4"
2 - 4	

2 - A	38'-2 1/2"
2 - B	32'-3"
2 - C	19'-6"
2 - D	25'-2 3/4"
2 - E	34'-2"
2 - F	39'-10 1/4"
2 - G	22'-7 1/2"

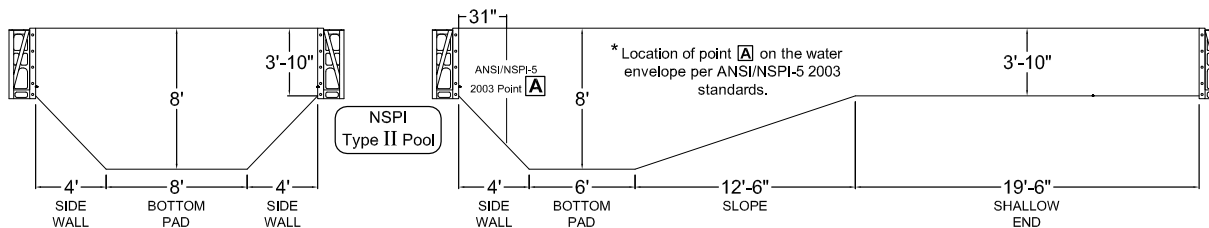
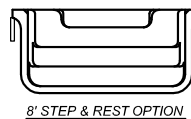
LIGHT PANEL  
OPTION



**NOTE: G IS THE POINT WHERE THE STRAIGHT WALLS WOULD INTERSECT.**

4 - A	22'-4 1/4"
4 - B	24'-2"
4 - C	34'-4 1/2"
4 - D	24'-7 1/2"
4 - E	17'-2 1/2"
4 - F	14'-6 3/4"
4 - G	27'-10 1/4"

3 - A	43'-11"
3 - B	38'-10"
3 - C	32'-6"
3 - D	21'-11"
3 - E	34'-11 1/4"
3 - F	40'-6"
3 - G	18'-10 1/2"



\* Location of point **A** on the water envelope per ANSI/NSPI-5 2003 standards.

NSPI  
Type II Pool

POOL SURFACE AREA	815.7 ft <sup>2</sup>	LINER SQ. FT.	832.00 ft <sup>2</sup>
POOL VOLUME	25500 gal	POOL PERIMETER	126'-7"
	96500 L		38.58 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM DESCRIPTION	PART #
2' PLAIN PANEL	48102
4' PLAIN PANEL	48106
4' SKIMMER PANEL	48106S
VERSA-FLEX PANEL	48115
2' REVERSE RADIUS STRAP SET	86162S
4' RADIUS STRAP SET	86155S
PUSH NUTS	09115
BRACE SYSTEM COMPLETE	48146
8' STEP & REST	07418SNR48
3/8"-16X HEX WASHER HEAD BOLT	148838
3/8"-16 HEX WASHER HEAD NUT	149664
CHANNEL-LOC SONOTUBE	86152
4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection

1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1' away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

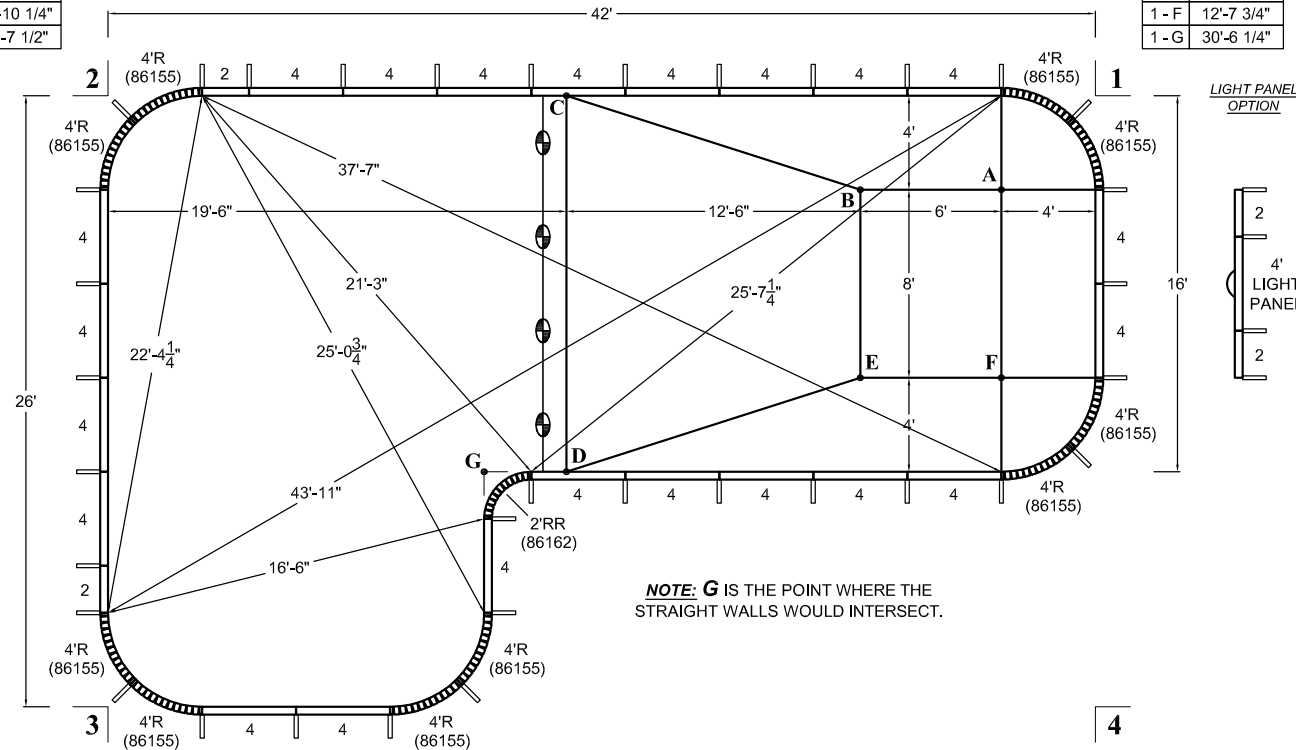
The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

**4' RADIUS 90° EL RIGHT**  
**16' x 42' x 26'**

2 - A	38'-2 1/2"
2 - B	32'-3"
2 - C	19'-6"
2 - D	25'-2 3/4"
2 - E	34'-2"
2 - F	39'-10 1/4"
2 - G	22'-7 1/2"

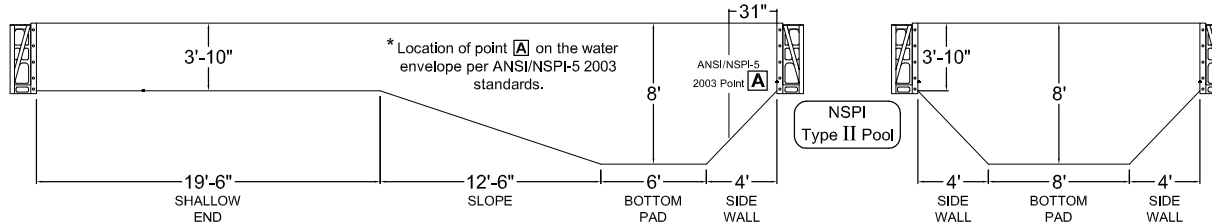
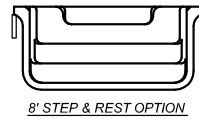
1 - 3	49'-4 3/4"
2 - 4	

1 - A	5'-8"
1 - B	10'-9 1/4"
1 - C	22'-6"
1 - D	27'-7 1/4"
1 - E	15'-7 1/2"
1 - F	12'-7 3/4"
1 - G	30'-6 1/4"



3 - A	43'-11"
3 - B	38'-10"
3 - C	32'-6"
3 - D	21'-11"
3 - E	34'-11 1/4"
3 - F	40'-6"
3 - G	18'-10 1/2"

4 - A	22'-4 1/4"
4 - B	24'-2"
4 - C	34'-4 1/2"
4 - D	24'-7 1/2"
4 - E	17'-2 1/2"
4 - F	14'-6 3/4"
4 - G	27'-10 1/4"



POOL SURFACE AREA	815.7 ft <sup>2</sup>	LINER SQ. FT.	832.00 ft <sup>2</sup>
POOL VOLUME	25500 gal	POOL PERIMETER	126'-7"
	96500 L		38.58 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM DESCRIPTION	PART #
2' PLAIN PANEL	48102
4' PLAIN PANEL	48106
4' SKIMMER PANEL	48106S
VERSA-FLEX PANEL	48115
2' REVERSE RADIUS STRAP SET	86162S
4' RADIUS STRAP SET	86155S
PUSH NUTS	09115
BRACE SYSTEM COMPLETE	48146
8' STEP & REST	07418SNR48
3/8"-16X HEX WASHER HEAD BOLT	148838
3/8"-16 HEX WASHER HEAD NUT	149664
CHANNEL-LOC SONOTUBE	86152
4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection

1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

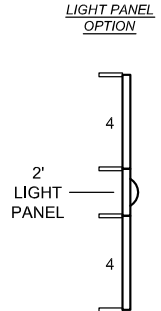
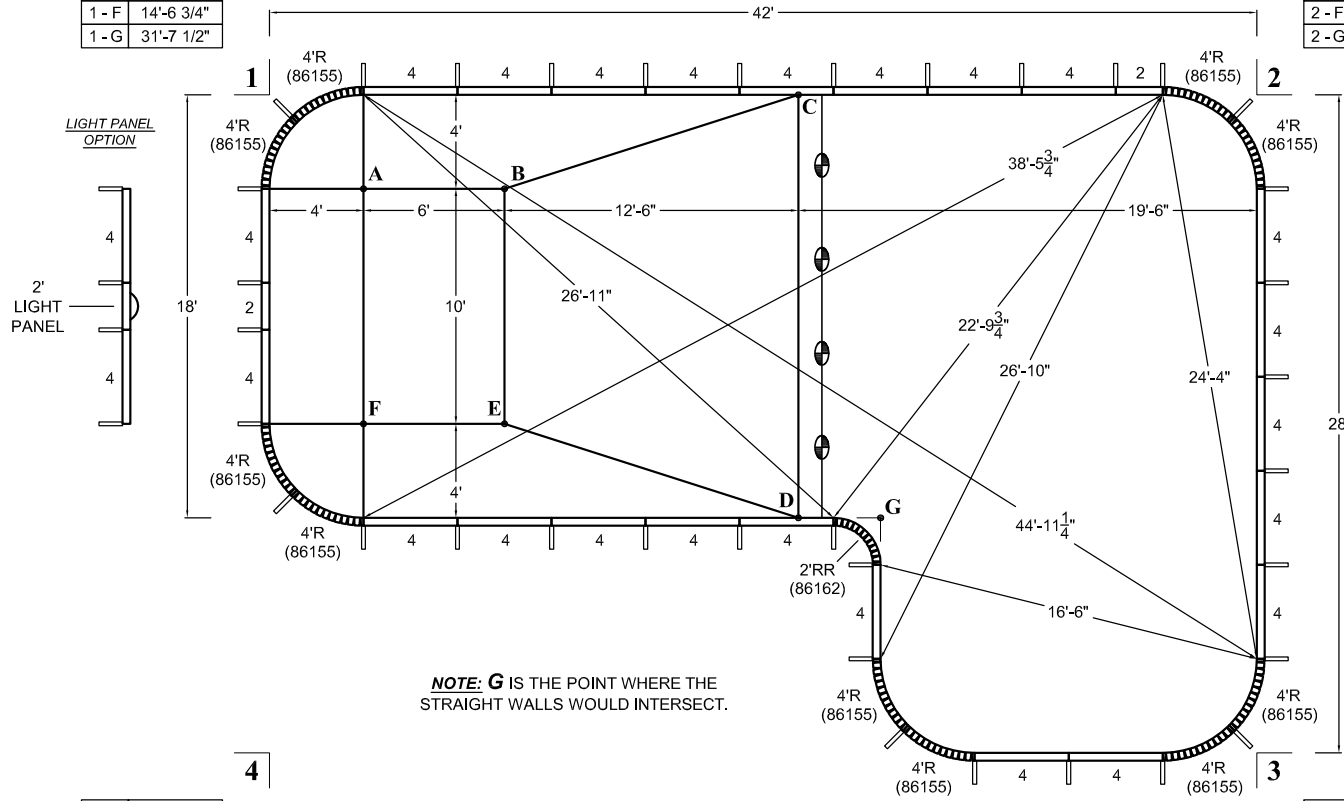
The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

**4' RADIUS 90° EL LEFT**  
**18' x 42' x 28'**

1 - A	5'-8"
1 - B	10'-9 1/4"
1 - C	22'-6"
1 - D	28'-9 3/4"
1 - E	17'-2 1/2"
1 - F	14'-6 3/4"
1 - G	31'-7 1/2"

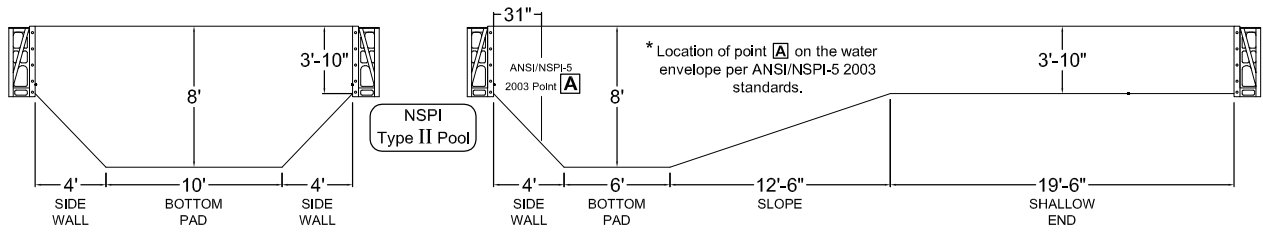
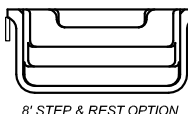
1 - 3	50'-5 3/4"
2 - 4	

2 - A	38'-2 1/2"
2 - B	32'-3"
2 - C	19'-6"
2 - D	26'-6 1/2"
2 - E	34'-11 1/4"
2 - F	40'-6"
2 - G	24'-1"



4 - A	24'-4"
4 - B	26'
4 - C	35'-11"
4 - D	24'-7 1/2"
4 - E	17'-2 1/2"
4 - F	14'-6 3/4"
4 - G	27'-10 1/4"

3 - A	44'-11 1/4"
3 - B	40'
3 - C	34'-1 1/2"
3 - D	21'-11"
3 - E	34'-11 1/4"
3 - F	40'-6"
3 - G	18'-10 1/2"



POOL SURFACE AREA	899.7 ft <sup>2</sup>	LINER SQ. FT.	916.00 ft <sup>2</sup>
POOL VOLUME	28500 gal	POOL PERIMETER	130'-7"
	107800 L		39.80 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM DESCRIPTION	PART #
2' PLAIN PANEL	48102
4' PLAIN PANEL	48106
4' SKIMMER PANEL	48106S
VERSA-FLEX PANEL	48115
2' REVERSE RADIUS STRAP SET	86162S
4' RADIUS STRAP SET	86155S
PUSH NUTS	09115
BRACE SYSTEM COMPLETE	48146
8' STEP & REST	07418SNR48
3/8"-16X HEX WASHER HEAD BOLT	148838
3/8"-16 HEX WASHER HEAD NUT	149664
CHANNEL-LOC SONOTUBE	86152
4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection

- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1' away from the pool.
- All inside pool dimensions are to be finished dimensions.
- Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 10' to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.



**4' RADIUS 90° EL LEFT**  
**20' x 44' x 30'**

POOL SURFACE AREA	→ 1023.7 ft <sup>2</sup>	LINER SQ. FT.	→ 1040.00 ft <sup>2</sup>
POOL VOLUME	→ 33500 gal	POOL PERIMETER	→ 138'-7"
	126800 L		42.23 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM #	ITEM DESCRIPTION	PART #
2	2' PLAIN PANEL	48102
21	4' PLAIN PANEL	48106
2	4' SKIMMER PANEL	48106S
11	VERSA-FLEX PANEL	48115
1	2' REVERSE RADIUS STRAP SET	86162S
10	4' RADIUS STRAP SET	86155S
286	PUSH NUTS	09115
37	BRACE SYSTEM COMPLETE	48146
1	8' STEP & REST	07418SNR48
14*	3/8"-16X HEX WASHER HEAD BOLT	148838
14*	3/8"-16 HEX WASHER HEAD NUT	149664
	CHANNEL-LOC SONOTUBE	86152
	4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection

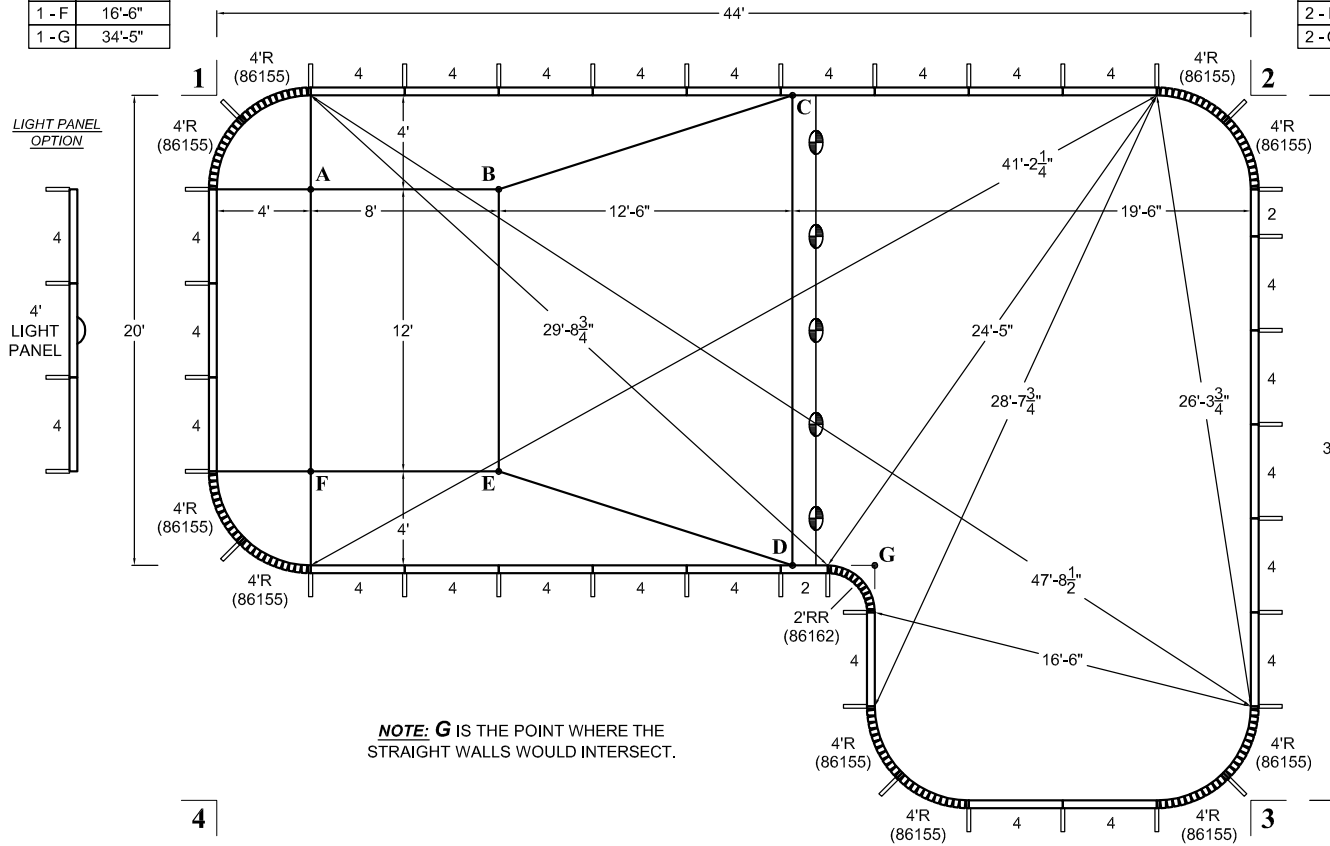
1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1' away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

1 - A	5'-8"
1 - B	12'-7 3/4"
1 - C	24'-6"
1 - D	31'-7 1/2"
1 - E	20'
1 - F	16'-6"
1 - G	34'-5"

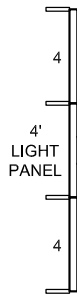
1 - 3	53'-3"
2 - 4	

2 - A	40'-2 1/2"
2 - B	32'-3"
2 - C	19'-6"
2 - D	27'-11 1/4"
2 - E	35'-9 1/4"
2 - F	43'-1"
2 - G	25'-7 1/4"



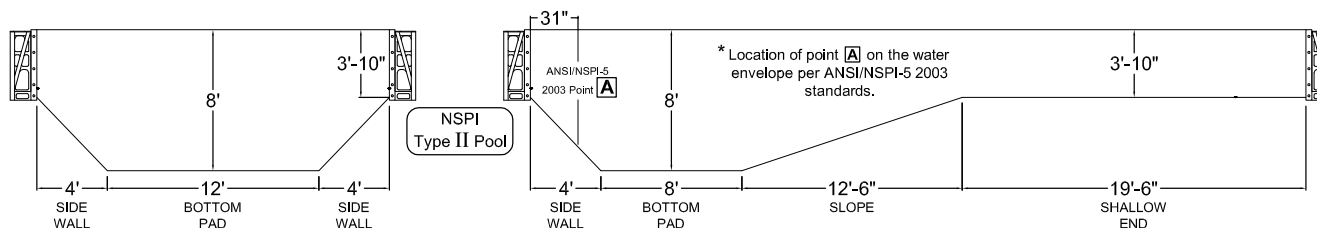
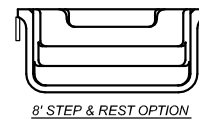
**NOTE: G IS THE POINT WHERE THE STRAIGHT WALLS WOULD INTERSECT.**

LIGHT PANEL OPTION



4 - A	26'-3 3/4"
4 - B	28'-7 3/4"
4 - C	38'-8 3/4"
4 - D	26'-5 1/2"
4 - E	18'-5 1/4"
4 - F	14'-6 3/4"
4 - G	29'-8 3/4"

3 - A	47'-8 1/2"
3 - B	41'-2 3/4"
3 - C	35'-9 1/4"
3 - D	21'-11"
3 - E	34'-11 1/4"
3 - F	42'-4 1/2"
3 - G	18'-10 1/2"



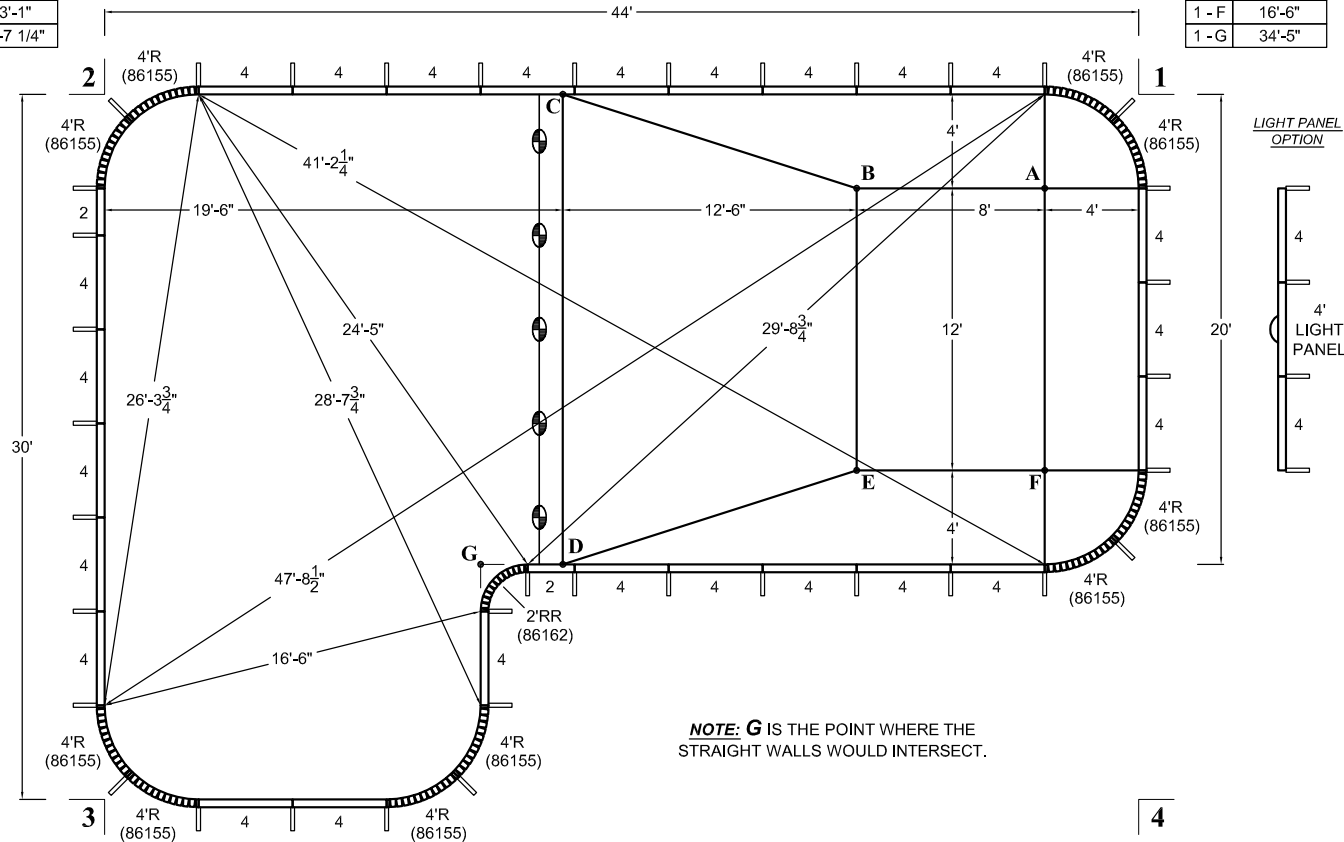
\* Location of point A on the water envelope per ANSI/NSPI-5 2003 standards.

NSPI Type II Pool

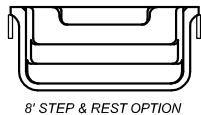
2 - A	40'-2 1/2"
2 - B	32'-3"
2 - C	19'-6"
2 - D	27'-11 1/4"
2 - E	35'-9 1/4"
2 - F	43'-1"
2 - G	25'-7 1/4"

1 - 3	53'-3"
2 - 4	

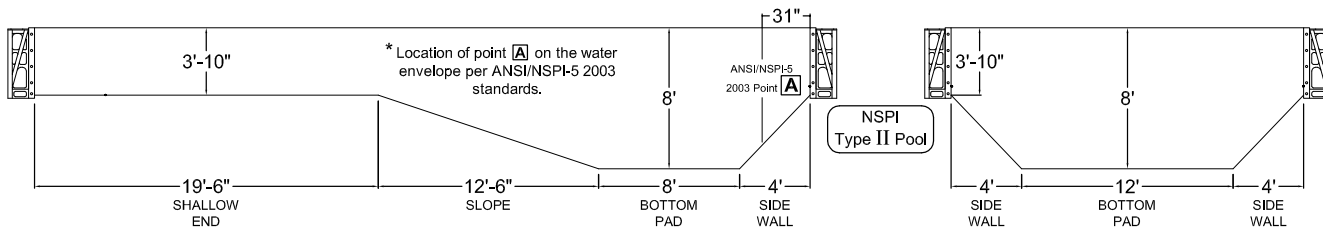
1 - A	5'-8"
1 - B	12'-7 3/4"
1 - C	24'-6"
1 - D	31'-7 1/2"
1 - E	20'
1 - F	16'-6"
1 - G	34'-5"



3 - A	47'-8 1/2"
3 - B	41'-2 3/4"
3 - C	35'-9 1/4"
3 - D	21'-11"
3 - E	34'-11 1/4"
3 - F	42'-4 1/2"
3 - G	18'-10 1/2"



4 - A	26'-3 3/4"
4 - B	28'-7 3/4"
4 - C	38'-8 3/4"
4 - D	26'-5 1/2"
4 - E	18'-5 1/4"
4 - F	14'-6 3/4"
4 - G	29'-8 3/4"



JANUARY  
2011

**MATRIX [PLUS]**  
POOL SYSTEM

**4' RADIUS 90° EL RIGHT**  
**20' x 44' x 30'**

POOL SURFACE AREA	→ 1023.7 ft <sup>2</sup> 95.1 m <sup>2</sup>	LINER SQ. FT.	→ 1040.00 ft <sup>2</sup>
POOL VOLUME	→ 33500 gal 126800 L	POOL PERIMETER	→ 138'-7"

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM DESCRIPTION	PART #
2 2 2' PLAIN PANEL	48102
21 23 4' PLAIN PANEL	48106
2 2 4' SKIMMER PANEL	48106S
11 11 VERSA-FLEX PANEL	48115
1 1 2' REVERSE RADIUS STRAP SET	86162S
10 10 4' RADIUS STRAP SET	86155S
286 286 PUSH NUTS	09115
37 38 BRACE SYSTEM COMPLETE	48146
1 8' STEP & REST	07418SNR48
14* 3/8"-16X HEX WASHER HEAD BOLT	148838
14* 3/8"-16 HEX WASHER HEAD NUT	149664
CHANNEL-LOC SONOTUBE	86152
4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection

- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
- All inside pool dimensions are to be finished dimensions.
- Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.





JANUARY  
2011

**MATRIX [PLUS]**  
POOL SYSTEM

**4' RADIUS LAZY EL RIGHT**  
16' x 42'

POOL SURFACE AREA	→	656.8 ft <sup>2</sup>	LINER SQ. FT.	→	778.00 ft <sup>2</sup>
		61.0 m <sup>2</sup>			
POOL VOLUME	→	21650 gal	POOL PERIMETER	→	108'-7"
		82000 L			33.10 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM	DESCRIPTION	PART #
2	1' PLAIN PANEL	48101
	2' PLAIN PANEL	48102
14	4' PLAIN PANEL	48106
2	4' SKIMMER PANEL	48106S
11	VERSA-FLEX PANEL	48115
1	4' REVERSE RADIUS STRAP SET	86163S
2	8' RADIUS STRAP SET	86200S
8	4' RADIUS STRAP SET	86155S
286	PUSH NUTS	09115
30	BRACE SYSTEM COMPLETE	48146
1	8' STEP & REST	07418SNR48
14*	3/8"-16X HEX WASHER HEAD BOLT	148838
14*	3/8"-16 HEX WASHER HEAD NUT	149664
	CHANNEL-LOC SONOTUBE	86152
	4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection

- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
- All inside pool dimensions are to be finished dimensions.
- Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

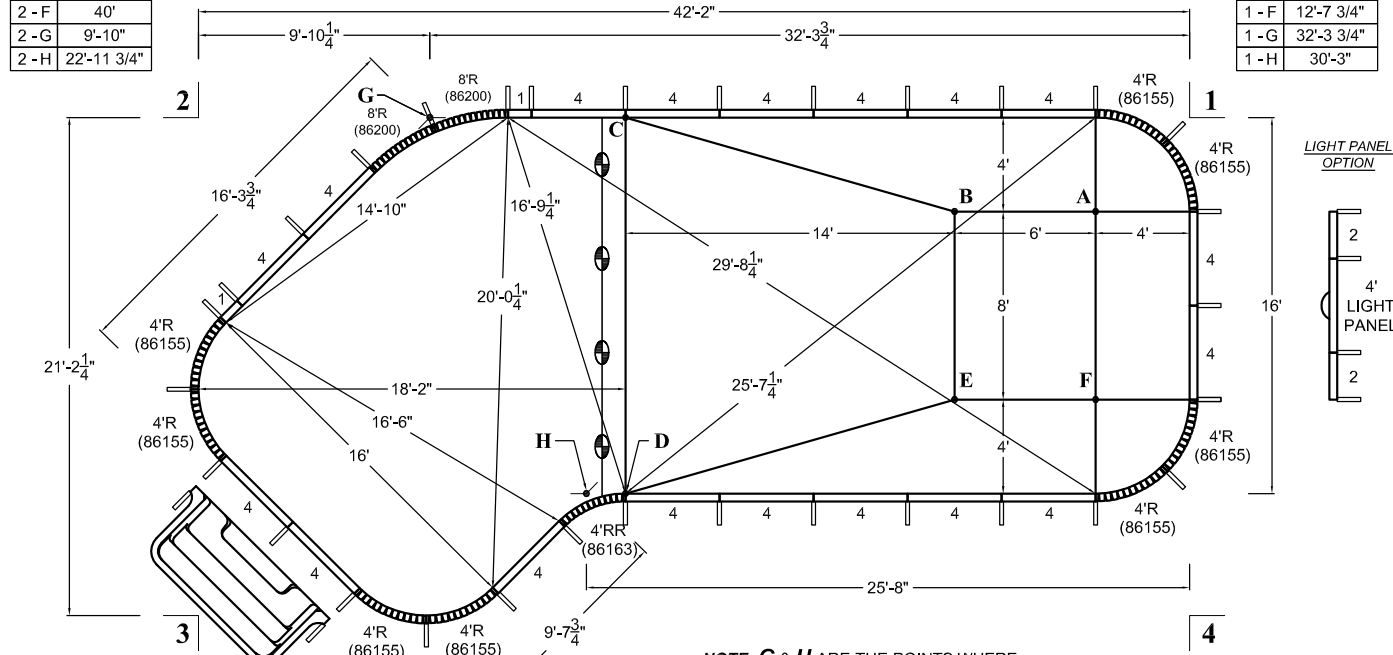
The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

**30**

2 - A	38'-4 1/2"
2 - B	32'-5"
2 - C	19'-8"
2 - D	25'-4 1/4"
2 - E	34'-4"
2 - F	40'
2 - G	9'-10"
2 - H	22'-11 3/4"

1 - 3	47'-2 1/4"
2 - 4	

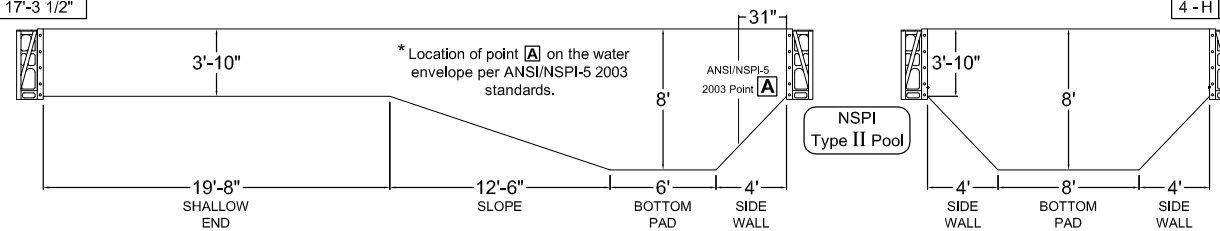
1 - A	5'-8"
1 - B	10'-9 1/4"
1 - C	22'-6"
1 - D	27'-7 1/4"
1 - E	15'-7 1/2"
1 - F	12'-7 3/4"
1 - G	32'-3 3/4"
1 - H	30'-3"



3 - A	41'-10 1/4"
3 - B	36'-5 1/2"
3 - C	28'-10 3/4"
3 - D	20'-4"
3 - E	33'-5 1/4"
3 - F	39'-3"
3 - G	23'-4 1/4"
3 - H	17'-3 1/2"

4 - A	17'-7 3/4"
4 - B	19'-10 3/4"
4 - C	30'-11"
4 - D	23'-1"
4 - E	13'-7"
4 - F	10'-0 1/4"
4 - G	38'-7 3/4"
4 - H	26'-2 1/4"

**NOTE: G & H ARE THE POINTS WHERE THE STRAIGHT WALLS WOULD INTERSECT.**



\* Location of point **A** on the water envelope per ANSI/NSPI-5 2003 standards.

NSPI Type II Pool

**4' RADIUS LAZY EL LEFT**  
**18' x 44'**

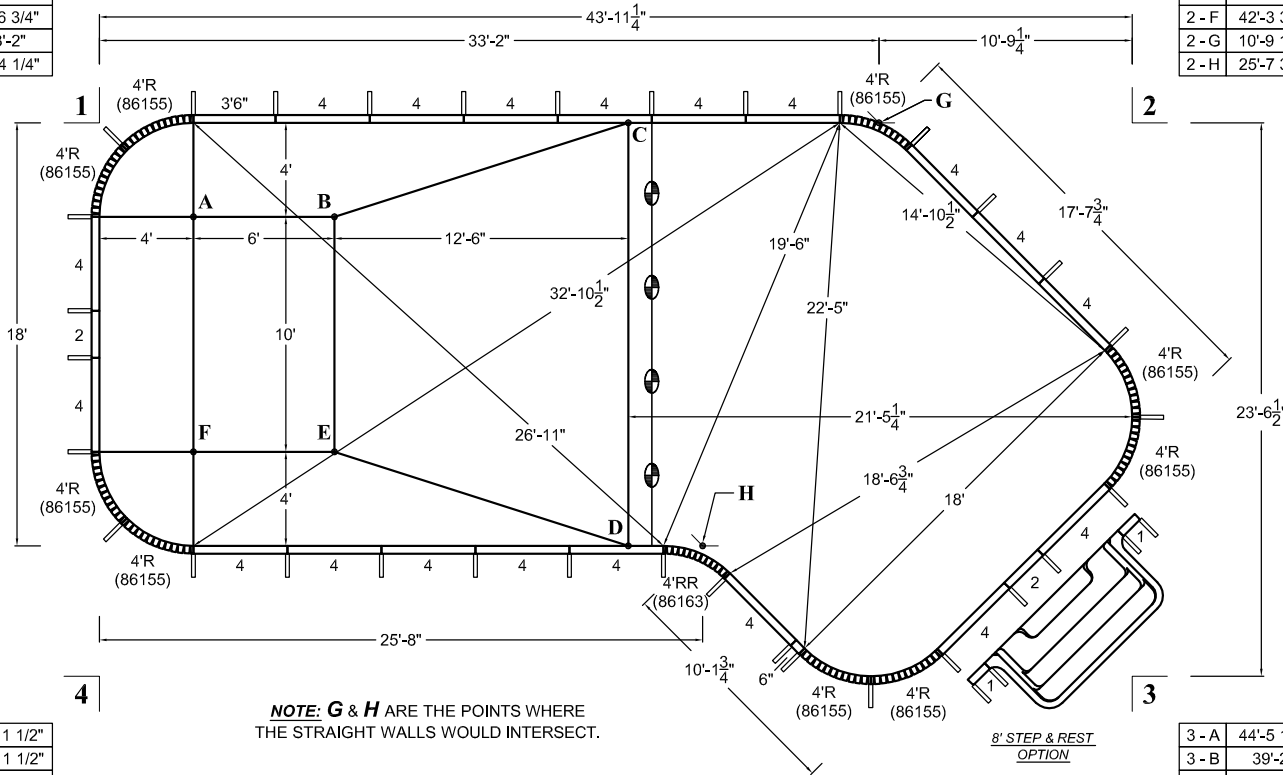
1 - A	5'-8"
1 - B	10'-9 1/4"
1 - C	22'-6"
1 - D	28'-9 3/4"
1 - E	17'-2 1/2"
1 - F	14'-6 3/4"
1 - G	33'-2"
1 - H	31'-4 1/4"

1 - 3	49'-10 1/4"
2 - 4	

2 - A	40'-1 3/4"
2 - B	34'-2"
2 - C	21'-5 1/4"
2 - D	28'
2 - E	36'-8 1/2"
2 - F	42'-3 3/4"
2 - G	10'-9 1/4"
2 - H	25'-7 3/4"

LIGHT PANEL  
OPTION

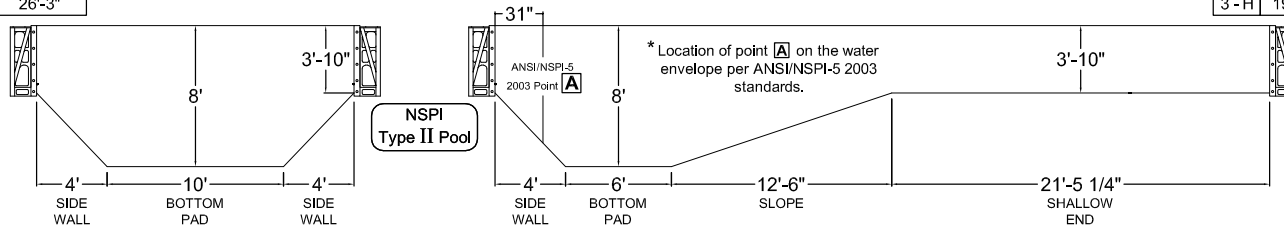
2'  
LIGHT  
PANEL



**NOTE: G & H ARE THE POINTS WHERE THE STRAIGHT WALLS WOULD INTERSECT.**

4 - A	19'-11 1/2"
4 - B	21'-11 1/2"
4 - C	32'-6 3/4"
4 - D	23'-2"
4 - E	13'-10"
4 - F	10'-4 1/4"
4 - G	40'-8"
4 - H	26'-3"

3 - A	44'-5 1/2"
3 - B	39'-2"
3 - C	31'-10 1/4"
3 - D	22'-1 3/4"
3 - E	35'-3"
3 - F	41'-0 3/4"
3 - G	25'-10 3/4"
3 - H	19'-1 1/4"



POOL SURFACE AREA	765.9 ft <sup>2</sup>	LINER SQ. FT.	914.6250 ft <sup>2</sup>
POOL VOLUME	25200 gal	POOL PERIMETER	115'-5"
	95400 L		35.18 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM #	DESCRIPTION	PART #
1	6" PLAIN PANEL	48100
2	1' PLAIN PANEL	48101
1	2' PLAIN PANEL	48102
1	3'6" PLAIN PANEL	48105
15	4' PLAIN PANEL	48106
2	4' SKIMMER PANEL	48106S
10	VERSA-FLEX PANEL	48115
1	4' REVERSE RADIUS STRAP SET	86163S
9	4' RADIUS STRAP SET	86155S
260	PUSH NUTS	09115
33	BRACE SYSTEM COMPLETE	48146
1	8' STEP & REST	07418SNR48
14*	3/8"-16X HEX WASHER HEAD BOLT	148838
14*	3/8"-16 HEX WASHER HEAD NUT	149664
	CHANNEL-LOC SONOTUBE	86152
	4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection

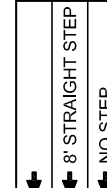
1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1' away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 10' to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

**4' RADIUS LAZY EL RIGHT**  
**18' x 44'**

POOL SURFACE AREA	→ 765.9 ft <sup>2</sup> 71.1 m <sup>2</sup>	LINER SQ. FT.	→ 914.6250 ft <sup>2</sup>
POOL VOLUME	→ 25200 gal 95400 L	POOL PERIMETER	→ 115'-5"

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**



ITEM	DESCRIPTION	PART #
1	6" PLAIN PANEL	48100
2	1" PLAIN PANEL	48101
1	2" PLAIN PANEL	48102
1	3/6" PLAIN PANEL	48105
15	4" PLAIN PANEL	48106
2	4" SKIMMER PANEL	48106S
10	VERSA-FLEX PANEL	48115
1	4' REVERSE RADIUS STRAP SET	86163S
9	4' RADIUS STRAP SET	86155S
260	PUSH NUTS	09115
33	BRACE SYSTEM COMPLETE	48146
1	8' STEP & REST	07418SNR48
14*	3/8"-16X HEX WASHER HEAD BOLT	148838
14*	3/8"-16 HEX WASHER HEAD NUT	149664
	CHANNEL-LOC SONOTUBE	86152
	4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection

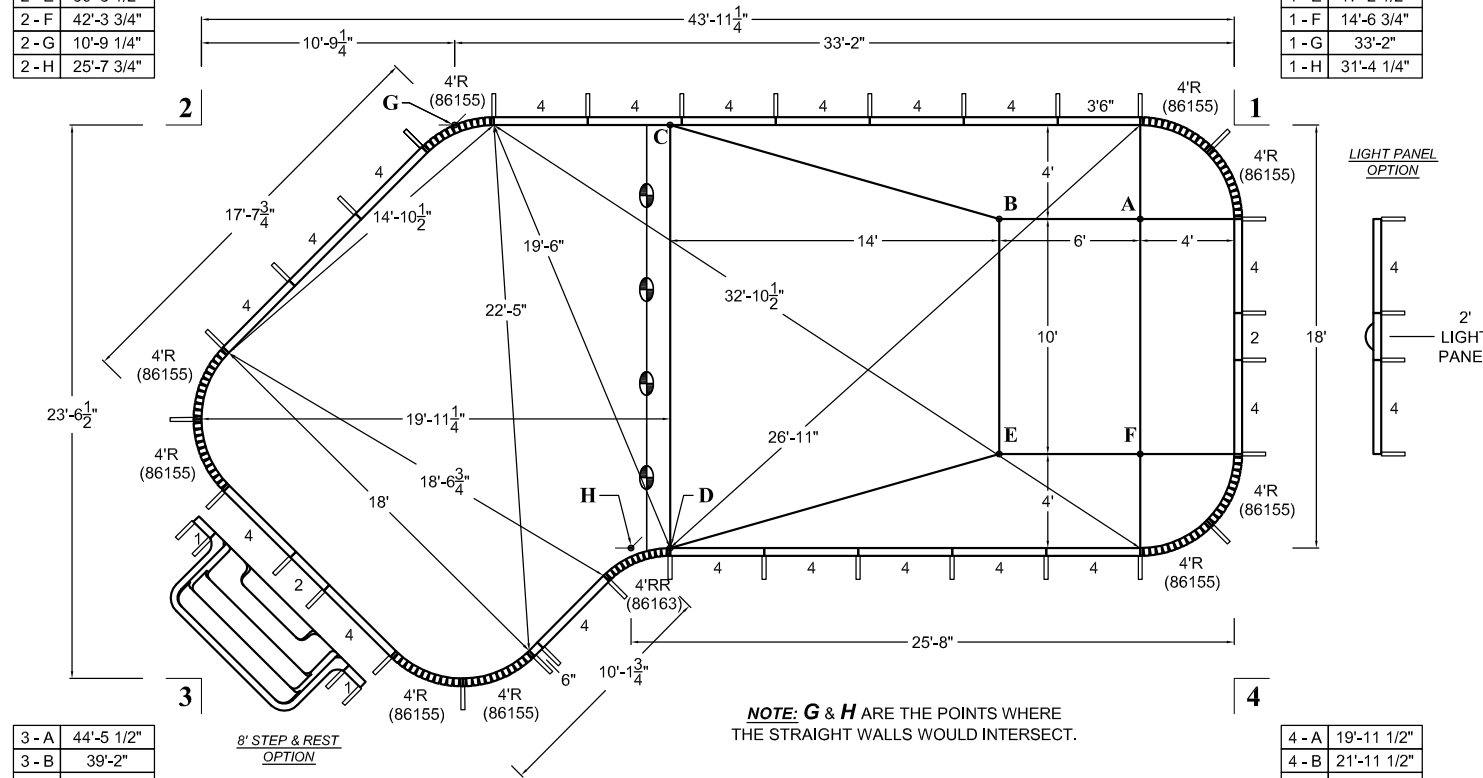
- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
- All inside pool dimensions are to be finished dimensions.
- Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

2 - A	40'-1 3/4"
2 - B	34'-2"
2 - C	21'-5 1/4"
2 - D	28'
2 - E	36'-8 1/2"
2 - F	42'-3 3/4"
2 - G	10'-9 1/4"
2 - H	25'-7 3/4"

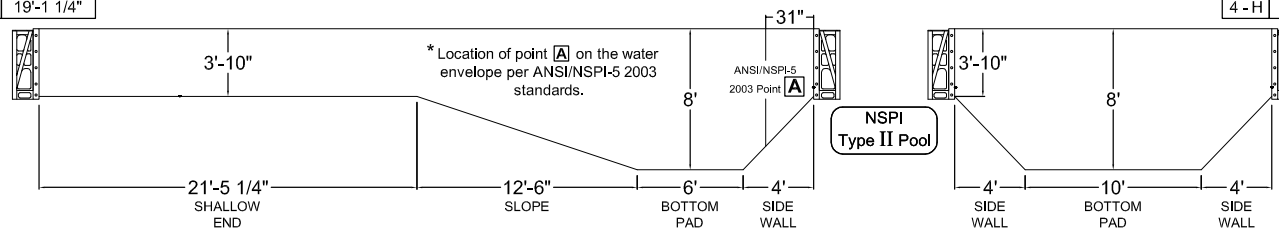
1 - 3	49'-10 1/4"
2 - 4	

1 - A	5'-8"
1 - B	10'-9 1/4"
1 - C	22'-6"
1 - D	28'-9 3/4"
1 - E	17'-2 1/2"
1 - F	14'-6 3/4"
1 - G	33'-2"
1 - H	31'-4 1/4"



3 - A	44'-5 1/2"
3 - B	39'-2"
3 - C	31'-10 1/4"
3 - D	22'-1 3/4"
3 - E	35'-3"
3 - F	41'-0 3/4"
3 - G	25'-10 3/4"
3 - H	19'-1 1/4"

4 - A	19'-11 1/2"
4 - B	21'-11 1/2"
4 - C	32'-6 3/4"
4 - D	23'-2"
4 - E	13'-10"
4 - F	10'-4 1/4"
4 - G	40'-8"
4 - H	26'-3"



The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.



**4' RADIUS LAZY EL RIGHT**  
**20' x 47'**

POOL SURFACE AREA	→ 896.1 ft <sup>2</sup>	LINER SQ. FT.	→ 1078.75 ft <sup>2</sup>
	→ 83.2 m <sup>2</sup>		
POOL VOLUME	→ 30400 gal	POOL PERIMETER	→ 123'-9"
	→ 115000 L		→ 37.72 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM	DESCRIPTION	PART #
1	1' PLAIN PANEL	48101
3	2' PLAIN PANEL	48102
1	3' PLAIN PANEL	48108
15	4' PLAIN PANEL	48106
2	4' SKIMMER PANEL	48106S
12	VERSA-FLEX PANEL	48115
1	4' REVERSE RADIUS STRAP SET	86163S
3	12' RADIUS STRAP SET	86167S
8	4' RADIUS STRAP SET	86155S
312	PUSH NUTS	09115
35	BRACE SYSTEM COMPLETE	48146
1	8' STEP & REST	07418SNR48
14*	3/8"-16X HEX WASHER HEAD BOLT	148838
14*	3/8"-16 HEX WASHER HEAD NUT	149664
	CHANNEL-LOC SONOTUBE	86152
	4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection

- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
- All inside pool dimensions are to be finished dimensions. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

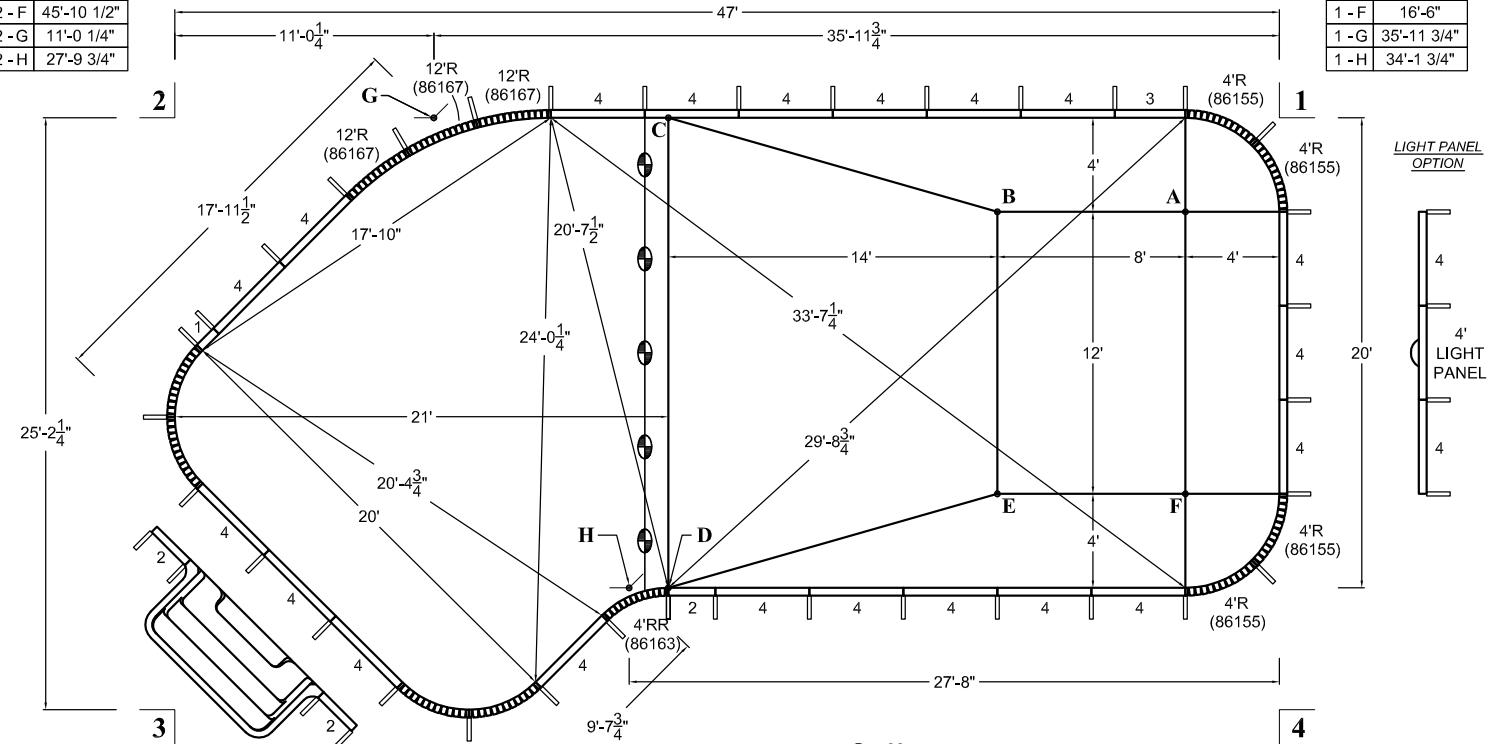
2 - A	43'-2 1/4"
2 - B	35'-2 3/4"
2 - C	22'-6"
2 - D	30'-1 1/4"
2 - E	38'-5 3/4"
2 - F	45'-10 1/2"
2 - G	11'-0 1/4"
2 - H	27'-9 3/4"

1 - 3	53'-3 3/4"
2 - 4	

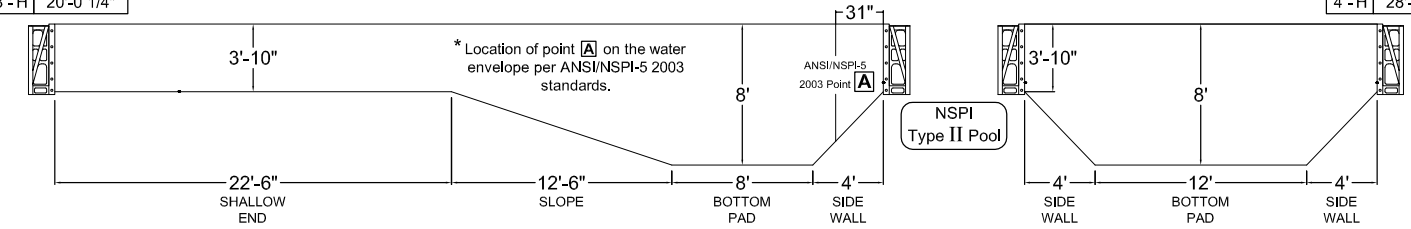
1 - A	5'-8"
1 - B	12'-7 3/4"
1 - C	24'-6"
1 - D	31'-7 1/2"
1 - E	20'
1 - F	16'-6"
1 - G	35'-11 3/4"
1 - H	34'-1 3/4"

3 - A	47'-11 1/4"
3 - B	40'-10 3/4"
3 - C	33'-9 1/4"
3 - D	23'-1"
3 - E	36'-2 1/4"
3 - F	43'-11 1/2"
3 - G	27'-5 3/4"
3 - H	20'-0 1/4"

4 - A	21'-6 3/4"
4 - B	24'-4 1/4"
4 - C	35'-1 3/4"
4 - D	25'-0 1/2"
4 - E	15'-1 1/4"
4 - F	10'-0 1/4"
4 - G	43'-11"
4 - H	28'-1 3/4"



**NOTE: G & H ARE THE POINTS WHERE THE STRAIGHT WALLS WOULD INTERSECT.**



\* Location of point **A** on the water envelope per ANSI/NSPI-5 2003 standards.

ANSI/NSPI-5 2003 Point **A**

NSPI Type II Pool

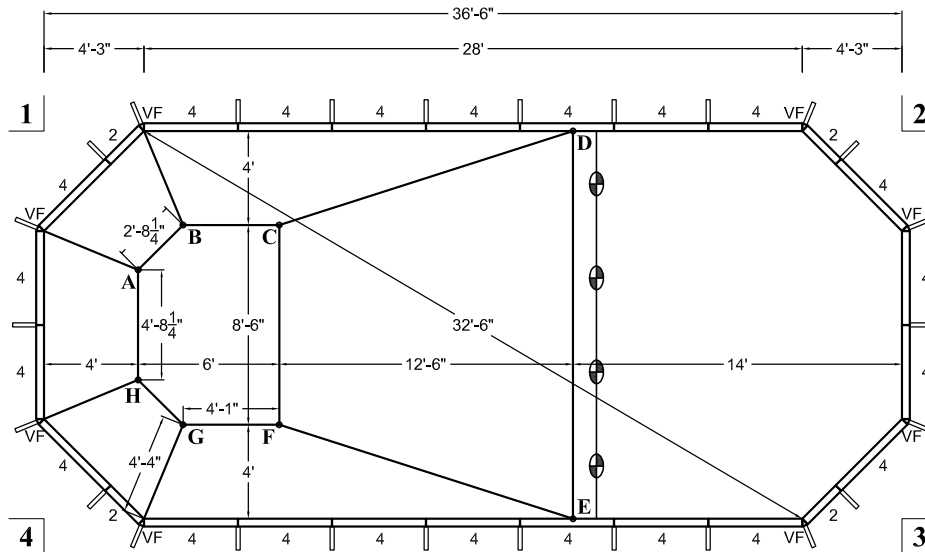
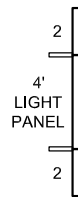


1 - A	7'-1 1/2"	4 - H
1 - B	7'-1 1/2"	4 - G
1 - C	10'-9 1/4"	4 - F
1 - D	22'-6"	4 - E
1 - E	27'-10 3/4"	4 - D
1 - F	16'	4 - C
1 - G	13'-10"	4 - B
1 - H	11'-4"	4 - A

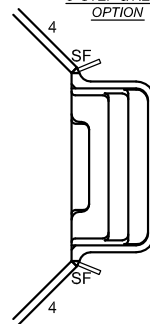
1 - 3	40'-0 3/4"
2 - 4	

2 - A	33'-0 1/2"	3 - H
2 - B	30'-10 1/4"	3 - G
2 - C	26'-9 1/2"	3 - F
2 - D	14'	3 - E
2 - E	21'-7 3/4"	3 - D
2 - F	29'-3 1/2"	3 - C
2 - G	33'-0 1/2"	3 - B
2 - H	34'-2 1/4"	3 - A

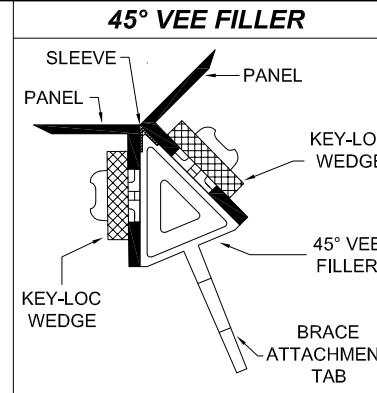
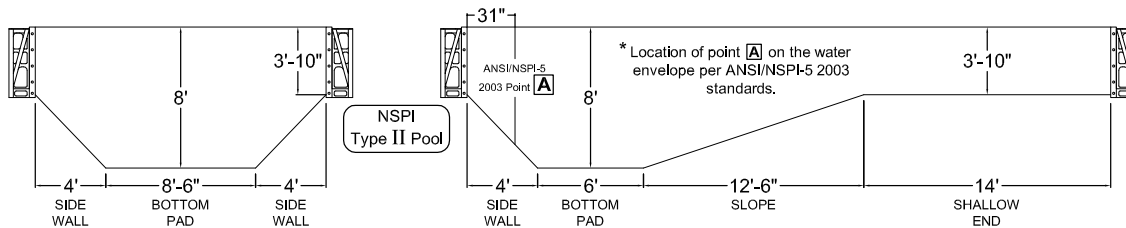
LIGHT PANEL  
OPTION



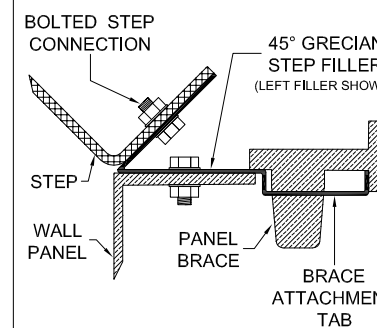
8' STEP & REST  
OPTION



VF--45° VEE FILLER  
SF--45° GRECIAN VEE STEP FILLER



**45° GRECIAN STEP FILLER**



**GRECIAN**  
16'-6" x 36'-6"

POOL SURFACE AREA	→ 566.1 ft <sup>2</sup>	LINER SQ. FT.	→ 602.25 ft <sup>2</sup>
POOL VOLUME	→ 19400 gal	POOL PERIMETER	→ 96'
	73400 L		29.26 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

8' CENTER STEP	NO STEP	ITEM DESCRIPTION	PART #
4	4	2' PLAIN PANEL	48102
19	21	4' PLAIN PANEL	48106
1	1	4' SKIMMER PANEL	48106S
30	40	45 DEGREE VEE FILLER	86140
60	80	KEY-LOC for VEE FILLER	86141
6	8	GRECIAN CORNER SLEEVE	48140
1		GRECIAN STEP FILLER - LEFT	48142
1		GRECIAN STEP FILLER - RIGHT	48143
25	26	BRACE SYSTEM COMPLETE	48146
1		8' STEP & REST	07418SNR48
28*		3/8"-16X HEX WASHER HEAD BOLT	148838
28*		3/8"-16 HEX WASHER HEAD NUT	149664
		CHANNEL-LOC SONOTUBE	86152
		4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection

1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 10' to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

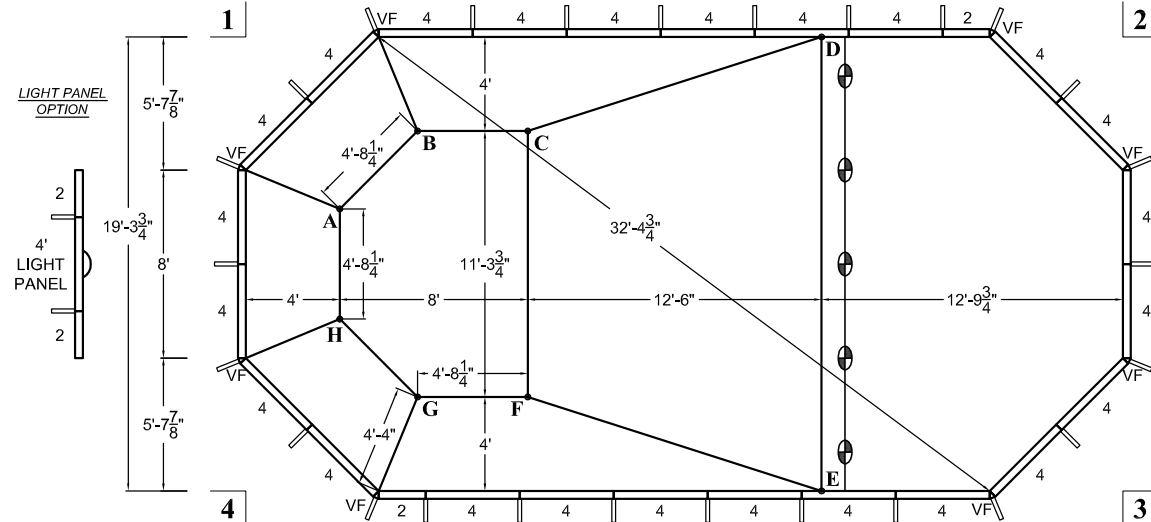




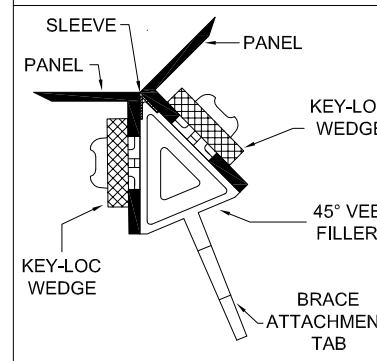
1 - A	8'-4"	4 - H
1 - B	8'-4"	4 - G
1 - C	12'-7 3/4"	4 - F
1 - D	24'-6"	4 - E
1 - E	31'-2 1/4"	4 - D
1 - F	19'-5 1/2"	4 - C
1 - G	16'-11 3/4"	4 - B
1 - H	12'-7 3/4"	4 - A

1 - 3	42'-0 1/4"
2 - 4	

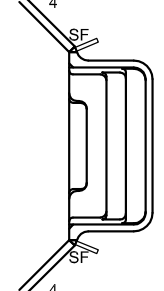
2 - A	34'-1 1/4"	3 - H
2 - B	30'-3 1/4"	3 - G
2 - C	25'-7 1/2"	3 - F
2 - D	12'-9 3/4"	3 - E
2 - E	23'-2 1/4"	3 - D
2 - F	29'-7"	3 - C
2 - G	33'-8 1/4"	3 - B
2 - H	35'-5"	3 - A



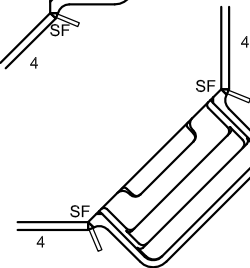
### 45° VEE FILLER



### 8' STEP & REST OPTION



### 8' STEP & REST - OFFSET STEP OPTION (OFFSET LEFT SHOWN)



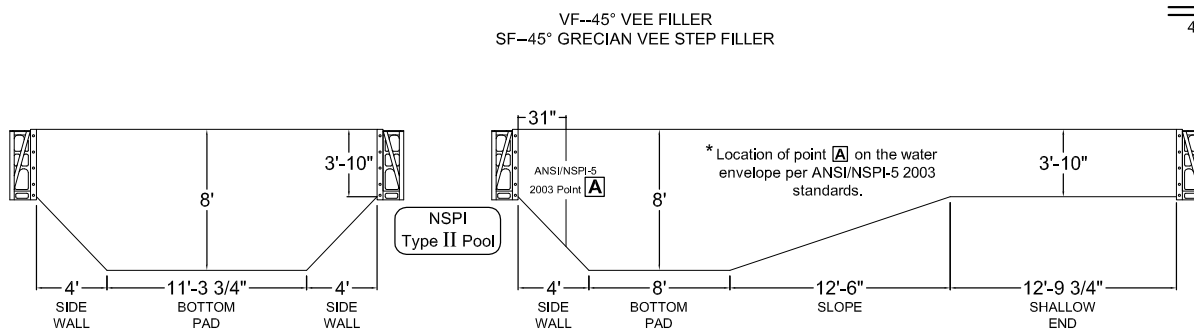
## GRECIAN 19' x 37'

POOL SURFACE AREA	656.7 ft <sup>2</sup>	LINER SQ. FT.	720.5977 ft <sup>2</sup>
POOL VOLUME	22900 gal	POOL PERIMETER	100'
	86700 L		30.48 m

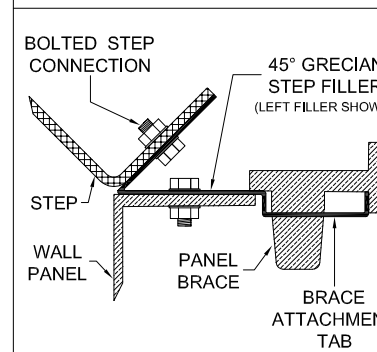
**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

8' CENTER STEP	8' OFFSET STEP	NO STEP	ITEM DESCRIPTION	PART #
2	2	2	2' PLAIN PANEL	48102
20	20	22	4' PLAIN PANEL	48106
2	2	2	4' SKIMMER PANEL	48106S
30	30	40	45 DEGREE VEE FILLER	86140
60	60	80	KEY-LOC for VEE FILLER	86141
6	6	8	GRECIAN CORNER SLEEVE	48140
1	1		GRECIAN STEP FILLER - LEFT	48142
1	1		GRECIAN STEP FILLER - RIGHT	48143
25	25	26	BRACE SYSTEM COMPLETE	48146
1	1		8' STEP & REST	07418SNR48
28*	28*		3/8"-16X HEX WASHER HEAD BOLT	148838
28*	28*		3/8"-16 HEX WASHER HEAD NUT	149664
			CHANNEL-LOC SONOTUBE	86152
			4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection



### 45° GRECIAN STEP FILLER



1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 10' to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.



JANUARY  
2011

**MATRIX [PLUS]**  
POOL SYSTEM

**GRECIAN LAZY EL LEFT**  
16'-6" x 42'-6"

POOL SURFACE AREA	→ 692.4 ft <sup>2</sup>	LINER SQ. FT.	→ 835.3125 ft <sup>2</sup>
POOL VOLUME	→ 22500 gal	POOL PERIMETER	→ 111'
	85200 L		33.83 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

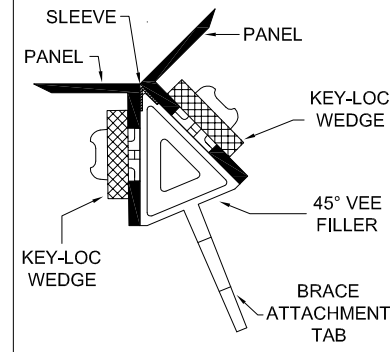
ITEM DESCRIPTION	PART #
1' PLAIN PANEL	48101
2' PLAIN PANEL	48102
3' PLAIN PANEL	48108
3'6" PLAIN PANEL	48105
4' PLAIN PANEL	48106
4' SKIMMER PANEL	48106S
45 DEGREE VEE FILLER	86140
KEY-LOC for VEE FILLER	86141
GRECIAN CORNER SLEEVE	48140
VERSA-FLEX PANEL	48115
4' REVERSE RADIUS STRAP SET	86163S
STRAIGHT to 5' RADIUS STRAP SET	86278S
5' RADIUS to STRAIGHT STRAP SET	86280S
PUSH NUTS	09115
GRECIAN STEP FILLER - LEFT	48142
GRECIAN STEP FILLER - RIGHT	48143
BRACE SYSTEM COMPLETE	48146
8' STEP & REST	07418SNR48
3/8"-16X HEX WASHER HEAD BOLT	148838
3/8"-16 HEX WASHER HEAD NUT	149664
CHANNEL-LOC SONOTUBE	86152
4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection

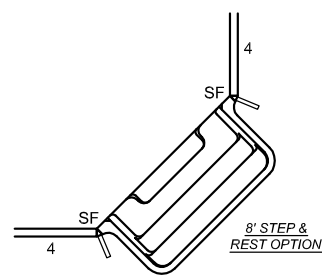
- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
- All inside pool dimensions are to be finished dimensions.
- Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 10' to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

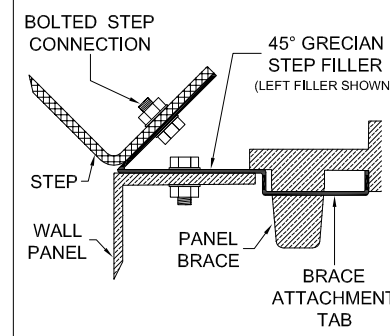
**45° VEE FILLER**



2-A	38'-11 1/2"
2-B	36'-9 3/4"
2-C	32'-9"
2-D	20'-0 1/4"
2-E	25'-11 1/4"
2-F	34'-10"
2-G	38'-8 1/4"
2-H	39'-11 1/4"
2-J	10'-3 1/4"
2-K	23'-9"



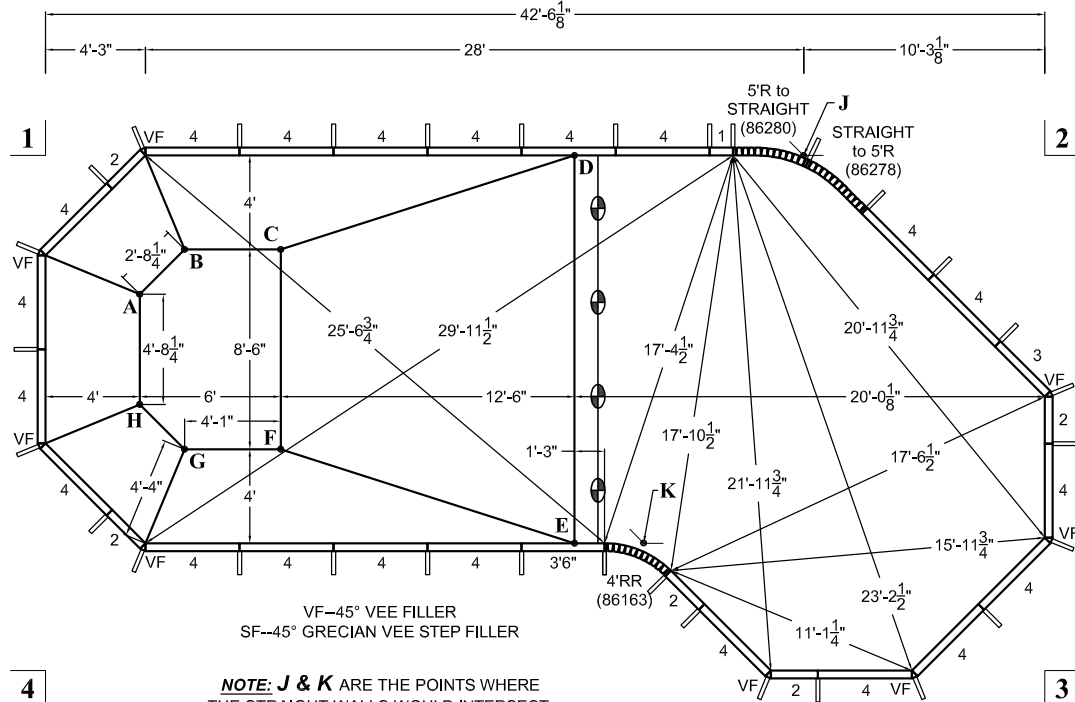
**45° GRECIAN STEP FILLER**



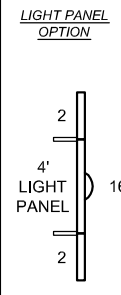
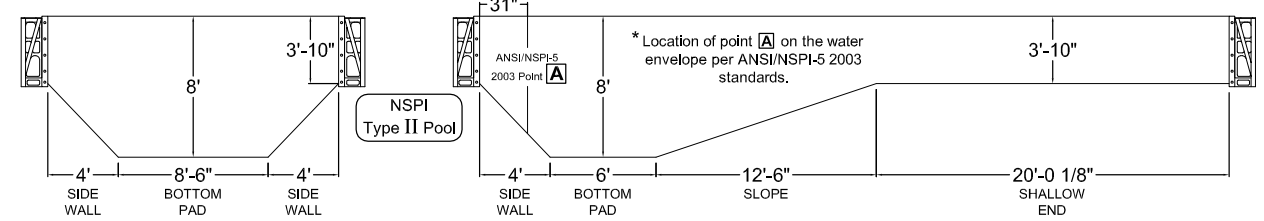
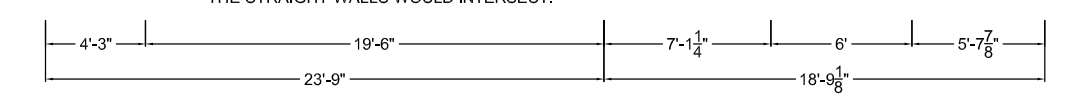
3-A	41'-8 1/2"
3-B	40'-9"
3-C	37'-1 1/2"
3-D	29'-8 1/4"
3-E	20'-8 3/4"
3-F	33'-10 1/4"
3-G	37'-9 1/2"
3-H	40'-1 3/4"
3-J	24'-2 1/2"
3-K	17'-11"

1-A	7'-1 1/2"
1-B	7'-1 1/2"
1-C	10'-9 1/4"
1-D	22'-6"
1-E	27'-10 3/4"
1-F	16'
1-G	13'-10"
1-H	11'-4"
1-J	32'-3"
1-K	30'-3 3/4"

1-3	47'-10"
2-4	



4-A	16'-6"
4-B	18'-10 1/2"
4-C	20'-6 1/4"
4-D	31'-5"
4-E	23'-1 3/4"
4-F	13'-8 3/4"
4-G	11'-1 1/2"
4-H	12'-0 1/4"
4-J	39'
4-K	26'



**GRECIAN LAZY EL RIGHT**  
16'-6" x 42'-6"

POOL SURFACE AREA	→ 692.4 ft <sup>2</sup>	LINER SQ. FT.	→ 835.3125 ft <sup>2</sup>
POOL VOLUME	→ 22500 gal	POOL PERIMETER	→ 111'
	85200 L		33.83 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

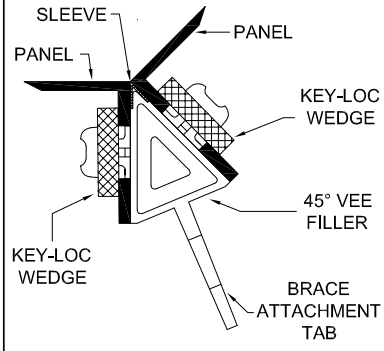
8" CENTER STEP	NO STEP	ITEM DESCRIPTION	PART #
1	22	1' PLAIN PANEL	48101
5	2	2' PLAIN PANEL	48102
1	22	3' PLAIN PANEL	48108
1	22	3'6" PLAIN PANEL	48105
17	22	4' PLAIN PANEL	48106
2	2	4' SKIMMER PANEL	48106S
30	40	45 DEGREE VEE FILLER	86140
60	80	KEY-LOC for VEE FILLER	86141
6	8	GRECIAN CORNER SLEEVE	48140
3	3	VERSA-FLEX PANEL	48115
1	1	4' REVERSE RADIUS STRAP SET	86163S
1	1	5' RADIUS to STRAIGHT STRAP SET	86279S
1	1	STRAIGHT to 5' RADIUS STRAP SET	86281S
78	78	PUSH NUTS	09115
1		GRECIAN STEP FILLER - LEFT	48142
1		GRECIAN STEP FILLER - RIGHT	48143
31	32	BRACE SYSTEM COMPLETE	48146
1		8' STEP & REST	07418SNR48
28*		3/8"-16X HEX WASHER HEAD BOLT	148838
28*		3/8"-16 HEX WASHER HEAD NUT	149664
		CHANNEL-LOC SONOTUBE	86152
		4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection

- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1' away from the pool.
- All inside pool dimensions are to be finished dimensions.
- Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 10" to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

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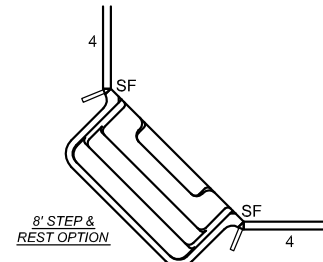
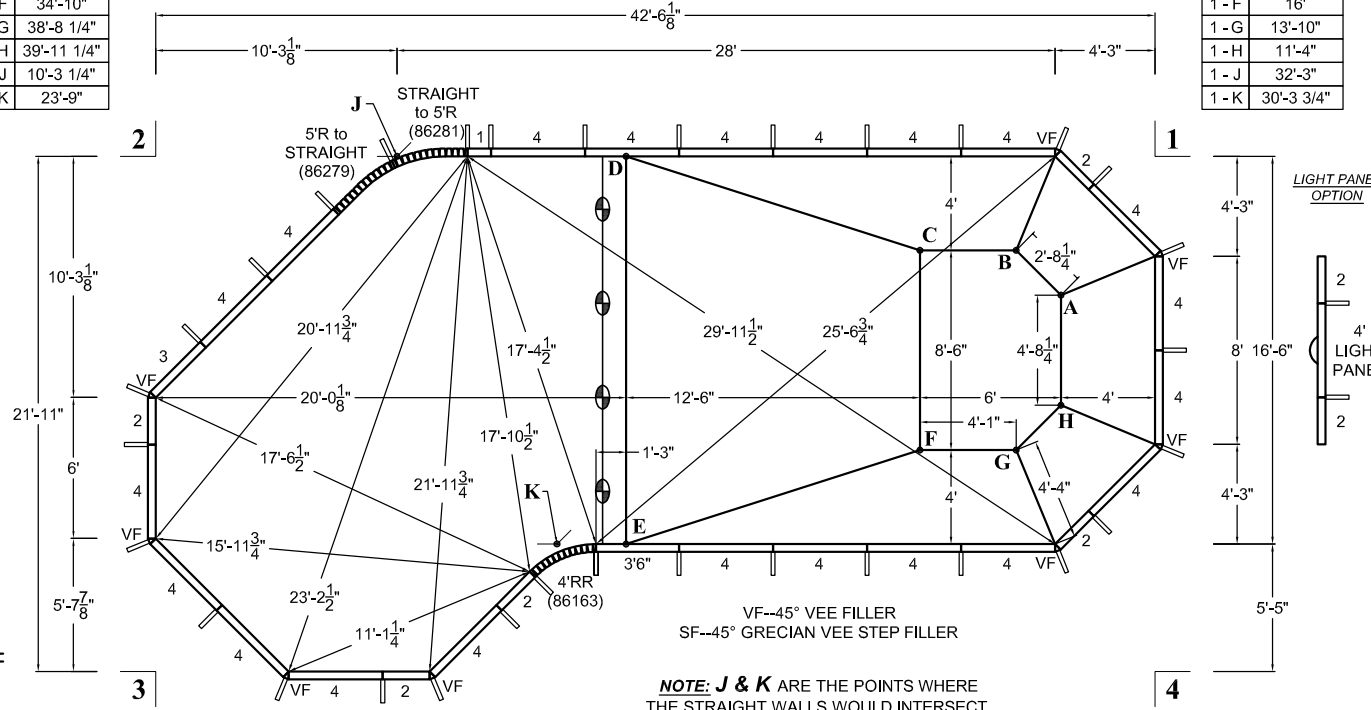
**45° VEE FILLER**



2 - A	38'-11 1/2"
2 - B	36'-9 3/4"
2 - C	32'-9"
2 - D	20'-0 1/4"
2 - E	25'-11 1/4"
2 - F	34'-10"
2 - G	38'-8 1/4"
2 - H	39'-11 1/4"
2 - J	10'-3 1/4"
2 - K	23'-9"

1 - 3	47'-10"
2 - 4	

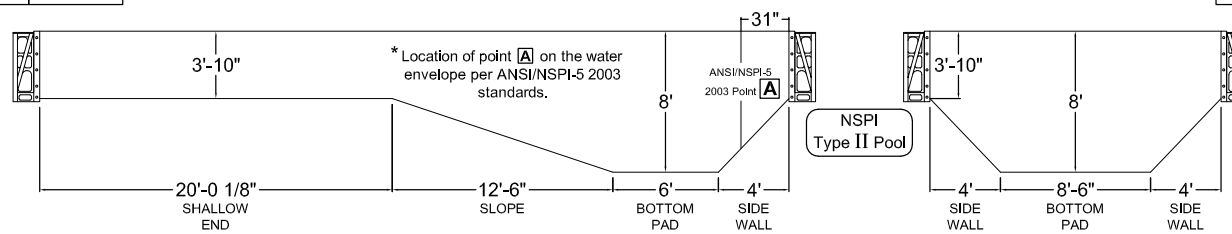
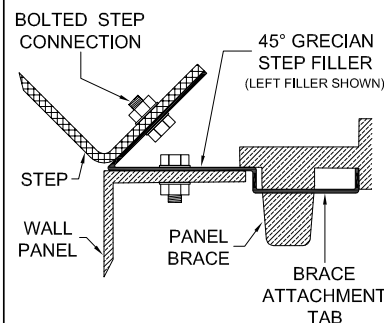
1 - A	7'-1 1/2"
1 - B	7'-1 1/2"
1 - C	10'-9 1/4"
1 - D	22'-6"
1 - E	27'-10 3/4"
1 - F	16'
1 - G	13'-10"
1 - H	11'-4"
1 - J	32'-3"
1 - K	30'-3 3/4"



3 - A	41'-8 1/2"
3 - B	40'-9"
3 - C	37'-1 1/2"
3 - D	29'-8 1/4"
3 - E	20'-8 3/4"
3 - F	33'-10 1/4"
3 - G	37'-9 1/2"
3 - H	40'-1 3/4"
3 - J	24'-2 1/2"
3 - K	17'-11"

4 - A	16'-6"
4 - B	18'-10 1/2"
4 - C	20'-6 1/4"
4 - D	31'-5"
4 - E	23'-1 3/4"
4 - F	13'-8 3/4"
4 - G	11'-1 1/2"
4 - H	12'-0 1/4"
4 - J	39'
4 - K	26'

**45° GRECIAN STEP FILLER**



**GRECIAN LAZY EL LEFT**  
19' x 46'

POOL SURFACE AREA	875.4 ft <sup>2</sup>	LINER SQ. FT.	1104.03 ft <sup>2</sup>
POOL VOLUME	28900 gal	POOL PERIMETER	122'-4"
	109400 L		37.28 m

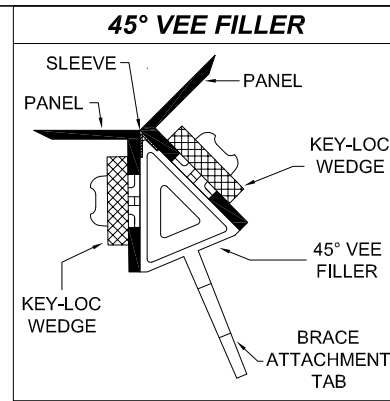
**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM DESCRIPTION	PART #
2' PLAIN PANEL	48102
4' PLAIN PANEL	48106
4' SKIMMER PANEL	48106S
45 DEGREE VEE FILLER	86140
KEY-LOC for VEE FILLER	86141
GRECIAN CORNER SLEEVE	48140
VERSA-FLEX PANEL	48115
4' REVERSE RADIUS STRAP SET	86163S
4' RADIUS STRAP SET	86155S
PUSH NUTS	09115
GRECIAN STEP FILLER - LEFT	48142
GRECIAN STEP FILLER - RIGHT	48143
BRACE SYSTEM COMPLETE	48146
8' STEP & REST	07418SNR48
3/8"-16X HEX WASHER HEAD BOLT	148838
3/8"-16 HEX WASHER HEAD NUT	149664
CHANNEL-LOC SONOTUBE	86152
4' STANDARD LIGHT PANEL	48106L

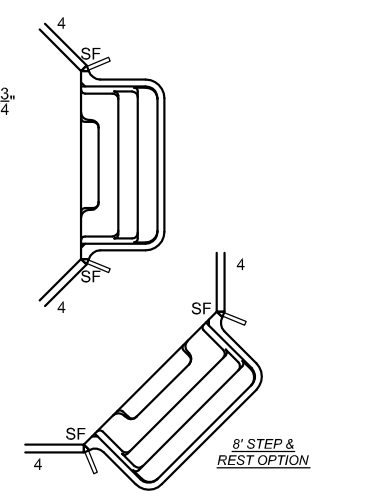
1 - A	8'-4"
1 - B	8'-4"
1 - C	12'-7 3/4"
1 - D	24'-6"
1 - E	31'-2 1/4"
1 - F	19'-5 1/2"
1 - G	16'-11 3/4"
1 - H	12'-7 3/4"
1 - J	35'-3 3/4"
1 - K	33'-5 1/2"

2 - A	43'-0 1/4"	2 - F	37'-7 3/4"
2 - B	39'-3 1/2"	2 - G	41'-11 3/4"
2 - C	34'-7 1/2"	2 - H	44'-0 3/4"
2 - D	21'-10 3/4"	2 - J	11'-1"
2 - E	29'-2 1/4"	2 - K	27'-1 3/4"

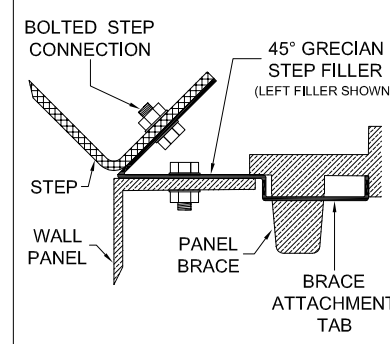
1 - 3	52'-7"
2 - 4	



8' STEP & REST - OFFSET STEP OPTION (OFFSET RIGHT SHOWN)

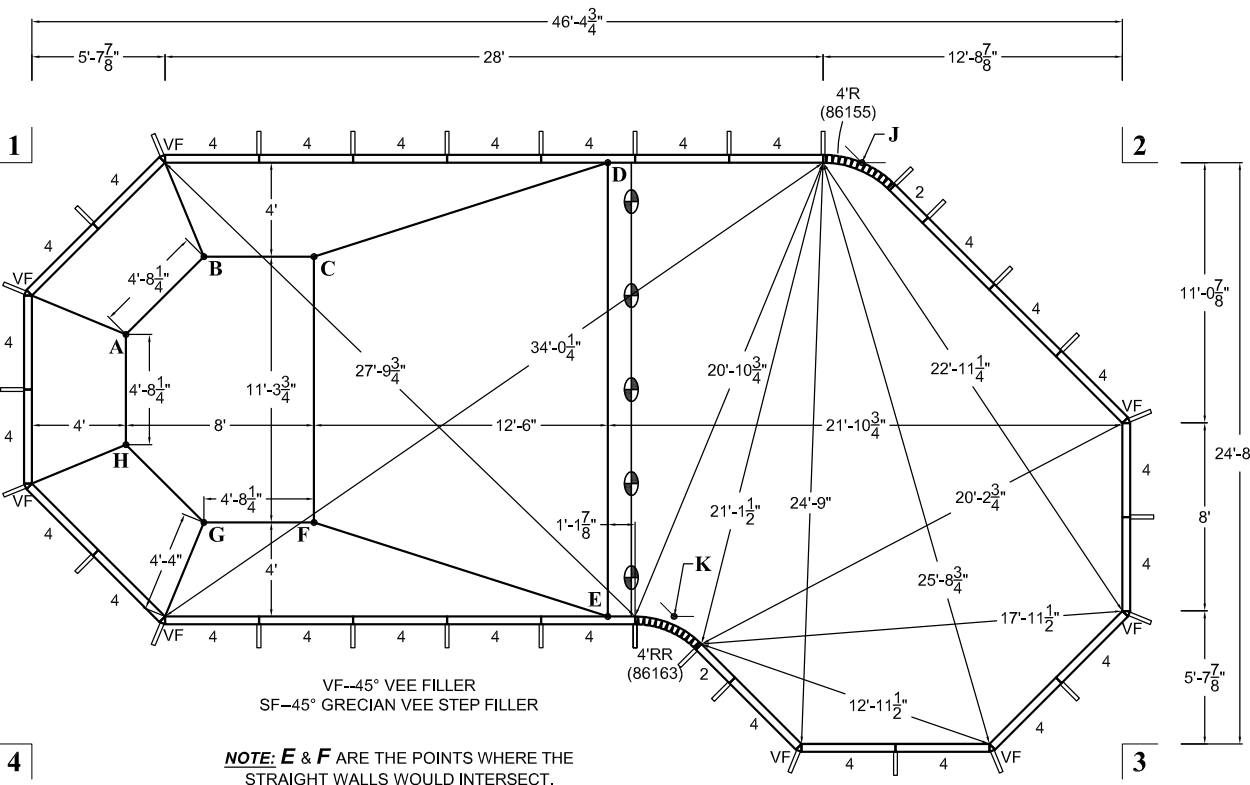
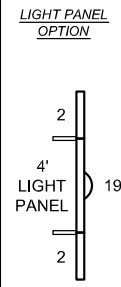


**45° GRECIAN STEP FILLER**



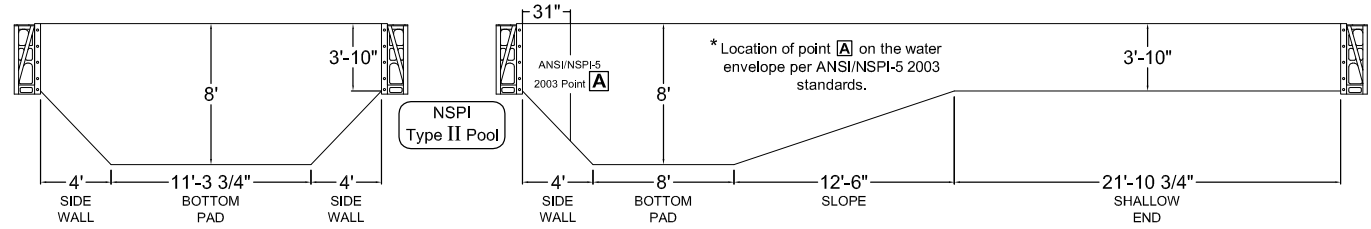
- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
- All inside pool dimensions are to be finished dimensions.
- Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 10" to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.



4 - A	17'-10 1/2"
4 - B	21'-11 3/4"
4 - C	23'-11 1/2"
4 - D	34'-9 3/4"
4 - E	25'-1"
4 - F	15'-3"
4 - G	11'-11 1/4"
4 - H	13'-4 1/4"
4 - J	43'-1 1/2"
4 - K	27'-10 1/4"

3 - A	45'-10"	3 - F	35'-8"
3 - B	44'-2 3/4"	3 - G	40'-2 1/2"
3 - C	40'-2"	3 - H	44'-3 1/4"
3 - D	33'-0 1/2"	3 - J	27'-1 1/4"
3 - E	22'-6 3/4"	3 - K	19'-10"



**GRECIAN LAZY EL RIGHT**  
19' x 46'

POOL SURFACE AREA →	875.4 ft <sup>2</sup>	LINER SQ. FT. →	1104.03 ft <sup>2</sup>
POOL VOLUME →	28900 gal	POOL PERIMETER →	122'-4"
	109400 L		37.28 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

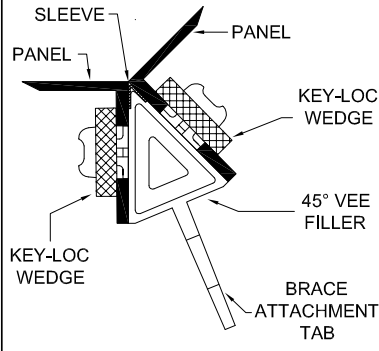
8' CENTER STEP	8' OFFSET STEP	NO STEP	ITEM DESCRIPTION	PART #
2	2	2	2' PLAIN PANEL	48102
24	24	26	4' PLAIN PANEL	48106
2	2	2	4' SKIMMER PANEL	48106S
30	30	40	45 DEGREE VEE FILLER	86140
60	60	80	KEY-LOC for VEE FILLER	86141
6	6	8	GRECIAN CORNER SLEEVE	48140
2	2	2	VERSA-FLEX PANEL	48115
1	1	1	4' REVERSE RADIUS STRAP SET	86163S
1	1	1	4' RADIUS STRAP SET	86155S
52	52	52	PUSH NUTS	09115
1	1	1	GRECIAN STEP FILLER - LEFT	48142
1	1	1	GRECIAN STEP FILLER - RIGHT	48143
31	31	32	BRACE SYSTEM COMPLETE	48146
1	1	1	8' STEP & REST	07418SNR48
28*	28*		3/8"-16X HEX WASHER HEAD BOLT	148838
28*	28*		3/8"-16 HEX WASHER HEAD NUT	149664
			CHANNEL-LOC SONOTUBE	86152
			4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection

- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3" wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
- All inside pool dimensions are to be finished dimensions.
- Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 10" to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

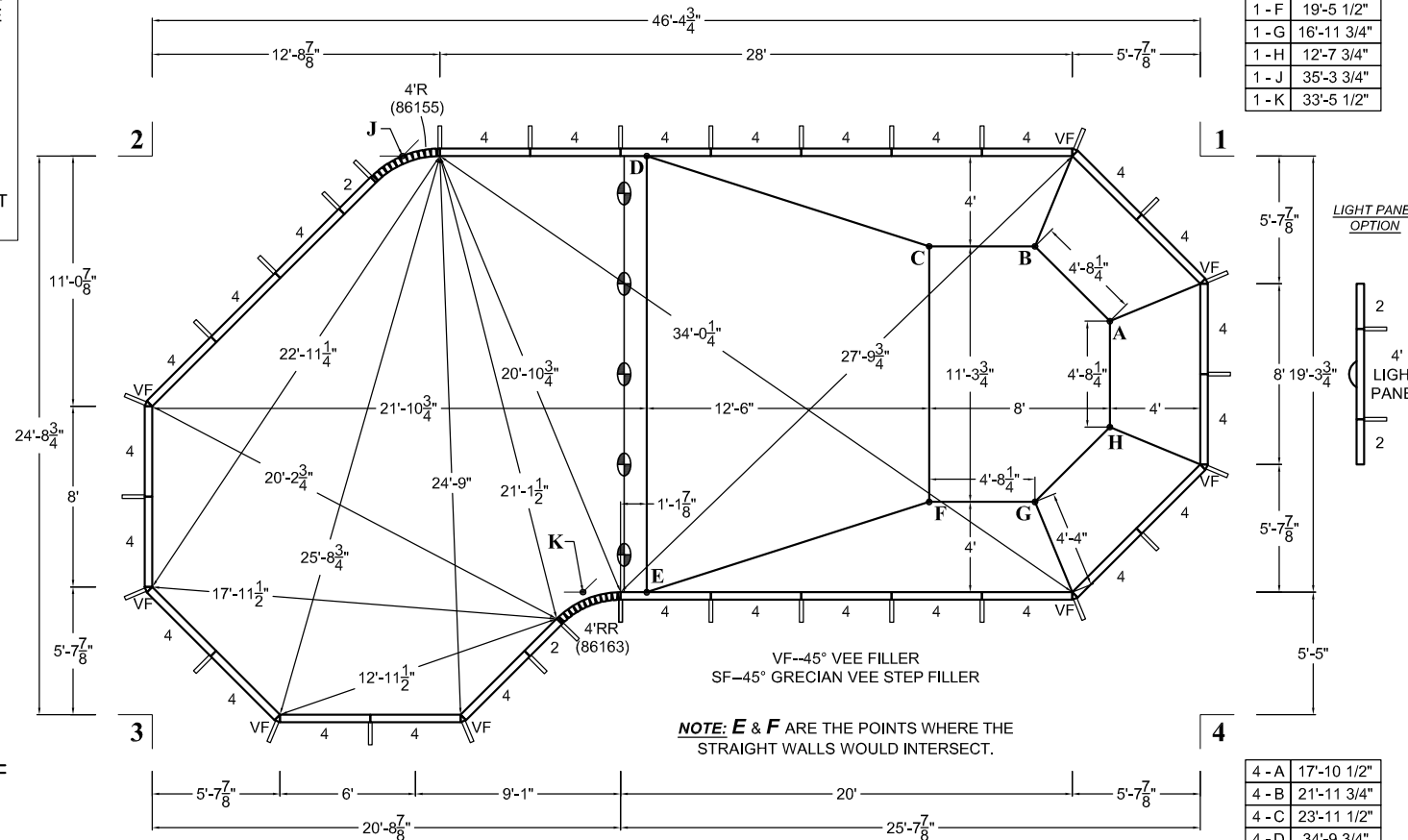
**45° VEE FILLER**



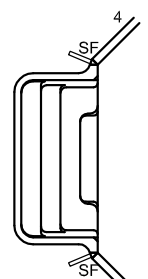
2 - A	43'-0 1/4"	2 - F	37'-7 3/4"
2 - B	39'-3 1/2"	2 - G	41'-11 3/4"
2 - C	34'-7 1/2"	2 - H	44'-0 3/4"
2 - D	21'-10 3/4"	2 - J	11'-1"
2 - E	29'-2 1/4"	2 - K	27'-1 3/4"

1 - 3	52'-7"
2 - 4	

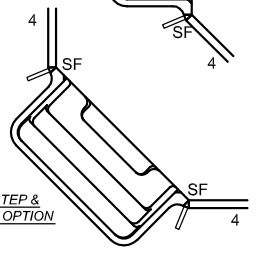
1 - A	8'-4"
1 - B	8'-4"
1 - C	12'-7 3/4"
1 - D	24'-6"
1 - E	31'-2 1/4"
1 - F	19'-5 1/2"
1 - G	16'-11 3/4"
1 - H	12'-7 3/4"
1 - J	35'-3 3/4"
1 - K	33'-5 1/2"



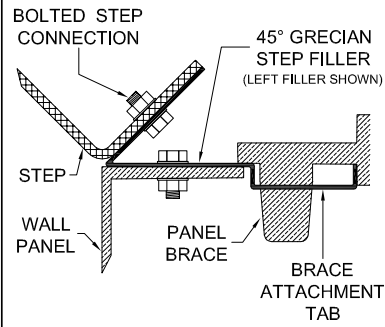
8' STEP & REST - OFFSET STEP OPTION (OFFSET LEFT SHOWN)



8' STEP & REST OPTION

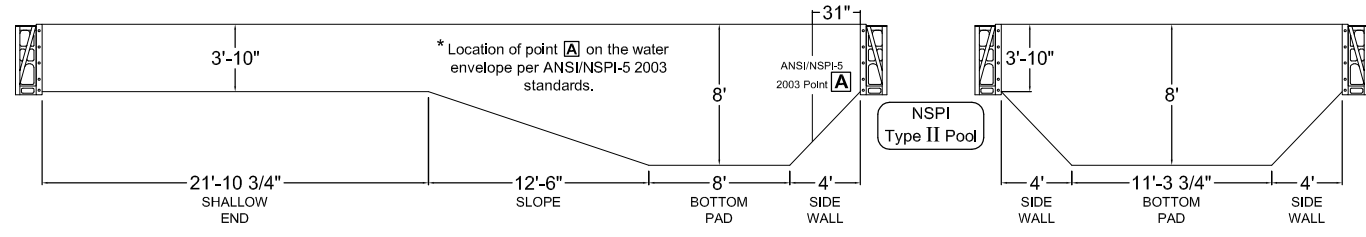


**45° GRECIAN STEP FILLER**



3 - A	45'-10"	3 - F	35'-8"
3 - B	44'-2 3/4"	3 - G	40'-2 1/2"
3 - C	40'-2"	3 - H	44'-3 1/4"
3 - D	33'-0 1/2"	3 - J	27'-1 1/4"
3 - E	22'-6 3/4"	3 - K	19'-10"

4 - A	17'-10 1/2"
4 - B	21'-11 3/4"
4 - C	23'-11 1/2"
4 - D	34'-9 3/4"
4 - E	25'-1"
4 - F	15'-3"
4 - G	11'-11 1/4"
4 - H	13'-4 1/4"
4 - J	43'-1 1/2"
4 - K	27'-10 1/4"



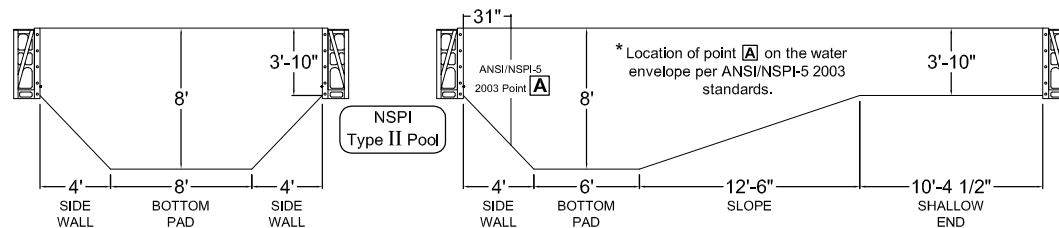
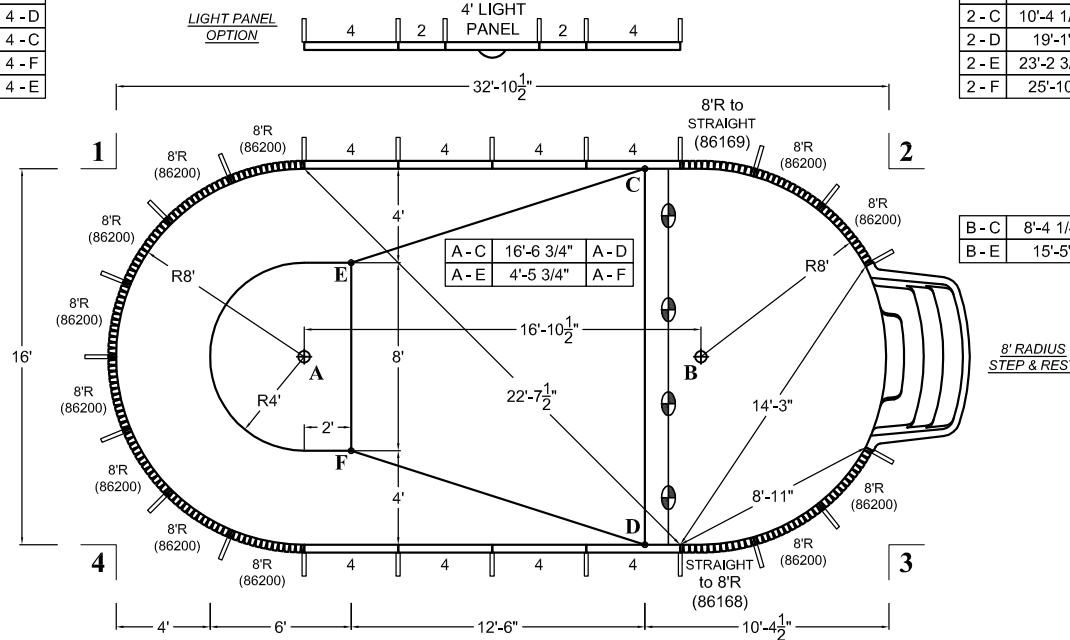
**OVAL**  
16' x 33'

1 - A	11'-3 3/4"	4 - A
1 - B	26'-1 3/4"	4 - B
1 - C	22'-6"	4 - D
1 - D	27'-7 1/4"	4 - C
1 - E	10'-9 1/4"	4 - F
1 - F	15'-7 1/2"	4 - E

1 - 3	36'-6 3/4"
2 - 4	

2 - A	26'-1 3/4"	3 - A
2 - B	11'-3 3/4"	3 - B
2 - C	10'-4 1/2"	3 - D
2 - D	19'-1"	3 - C
2 - E	23'-2 3/4"	3 - F
2 - F	25'-10"	3 - E

B - C	8'-4 1/4"	B - D
B - E	15'-5"	B - F



POOL SURFACE AREA	471.2 ft <sup>2</sup>	LINER SQ. FT.	526.00 ft <sup>2</sup>
POOL VOLUME	16700 gal	POOL PERIMETER	84'-1"
	63200 L		25.63 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM DESCRIPTION	PART #
2' PLAIN PANEL	48102
4' PLAIN PANEL	48106
4' SKIMMER PANEL	48106S
VERSA-FLEX PANEL	48115
8' RADIUS STRAP SET	86200S
STRAIGHT to 8' RADIUS STRAP SET	86168S
8' RADIUS to STRAIGHT STRAP SET	86168S
PUSH NUTS	09115
BRACE SYSTEM COMPLETE	48146
8' RADIUS STEP & REST	07418RSNR48
3/8"-16X HEX WASHER HEAD BOLT	148838
3/8"-16 HEX WASHER HEAD NUT	149664
CHANNEL-LOC SONOTUBE	86152
4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection

This configuration is only available with 8' Radius Step & Rest

1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

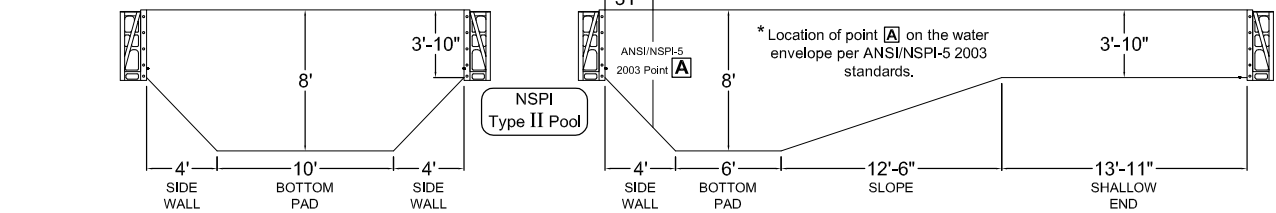
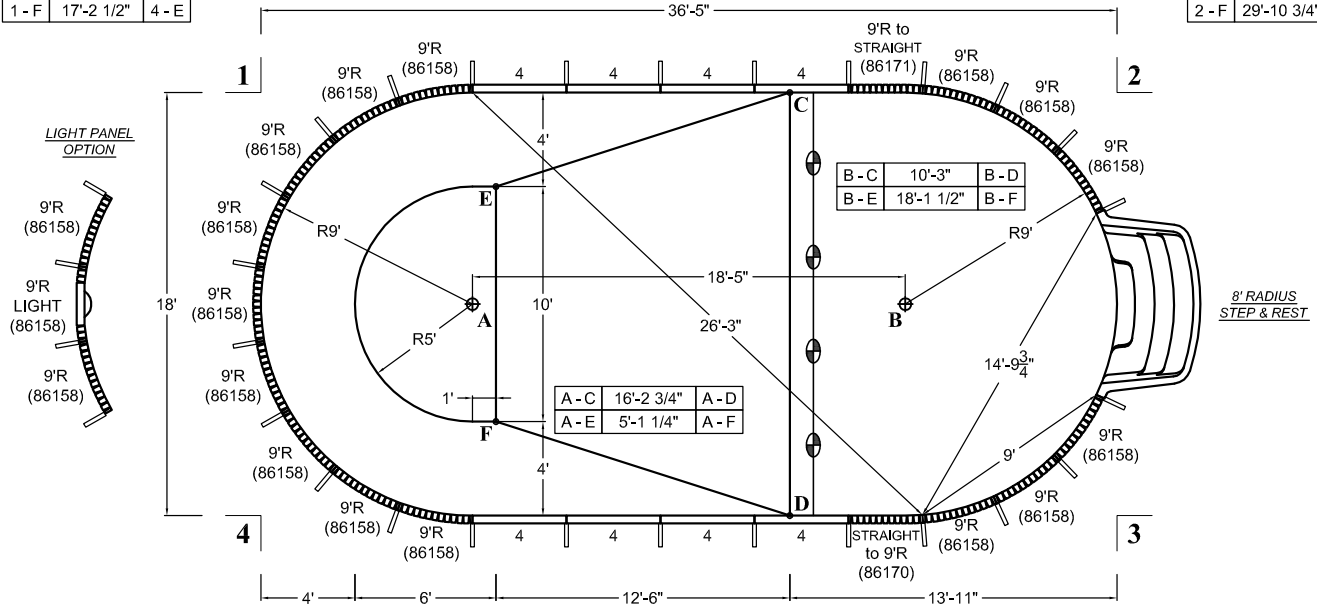
The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

**OVAL**  
18' x 36'

1 - A	12'-8 3/4"	4 - A
1 - B	28'-10 1/4"	4 - B
1 - C	22'-6"	4 - D
1 - D	28'-9 3/4"	4 - C
1 - E	10'-9 1/4"	4 - F
1 - F	17'-2 1/2"	4 - E

1 - 3	40'-7 1/2"
2 - 4	

2 - A	28'-10 1/4"	3 - A
2 - B	12'-8 3/4"	3 - B
2 - C	13'-11"	3 - D
2 - D	22'-9"	3 - C
2 - E	26'-8 1/2"	3 - F
2 - F	29'-10 3/4"	3 - E



POOL SURFACE AREA	→ 585.9 ft <sup>2</sup>	LINER SQ. FT.	→ 655.50 ft <sup>2</sup>
POOL VOLUME	→ 20250 gal	POOL PERIMETER	→ 93'-4"
	76600 L		28.44 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM DESCRIPTION	PART #
7	4' PLAIN PANEL 48106
1	4' SKIMMER PANEL 48106S
17	VERSA-FLEX PANEL 48115
15	9' RADIUS STRAP SET 86158S
1	STRAIGHT to 9' RADIUS STRAP SET 86170S
1	9' RADIUS to STRAIGHT STRAP SET 86171S
442	PUSH NUTS 09115
26	BRACE SYSTEM COMPLETE 48146
1	8' RADIUS STEP & REST 07418RSNR48
14*	3/8"-16X HEX WASHER HEAD BOLT 148838
14*	3/8"-16 HEX WASHER HEAD NUT 149664
	CHANNEL-LOC SONOTUBE 86152
	VERSA-FLEX STANDARD LIGHT PANEL 48116L

\* - use bolts at step connection

This configuration is only available with 8' Radius Step & Rest

1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1' away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 10' to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.



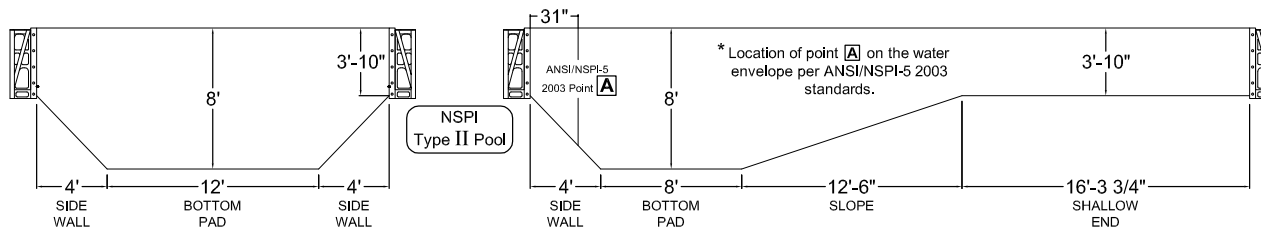
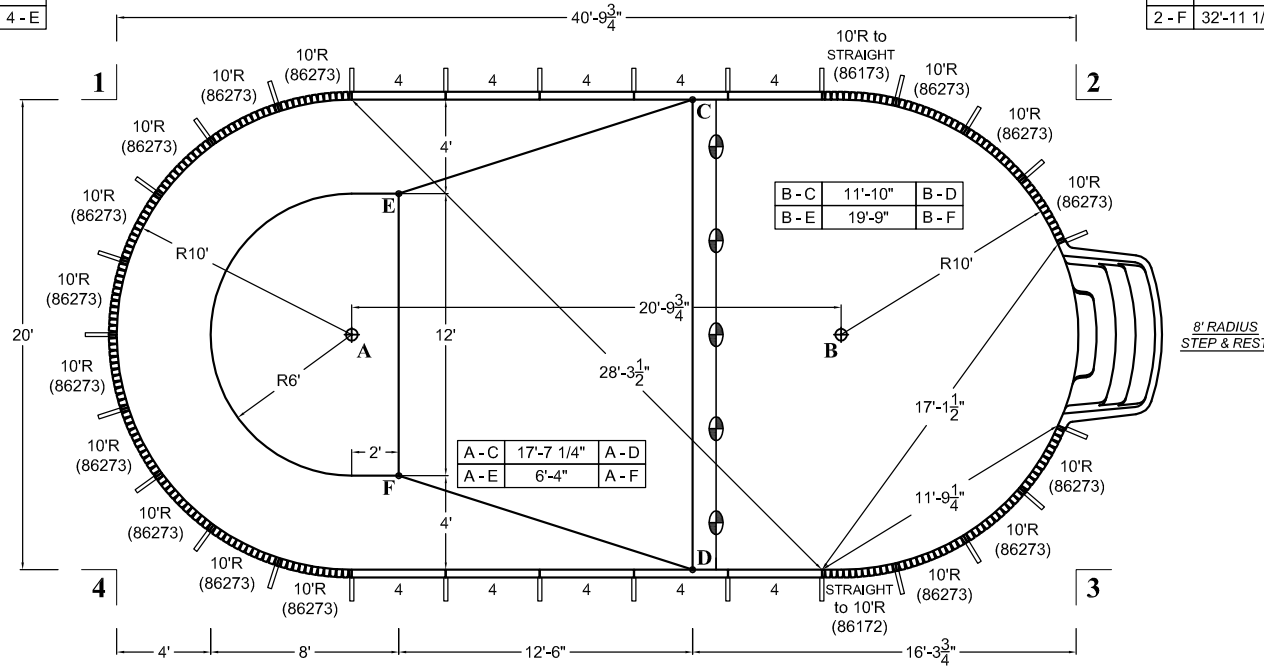
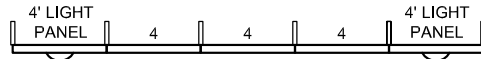
**OVAL**  
20' x 41'

1 - A	14'-1 3/4"	4 - A
1 - B	32'-4 3/4"	4 - B
1 - C	24'-6"	4 - D
1 - D	31'-7 1/2"	4 - C
1 - E	12'-7 3/4"	4 - F
1 - F	20'	4 - E

1 - 3	45'-5 1/2"
2 - 4	

2 - A	32'-4 3/4"	3 - A
2 - B	14'-1 3/4"	3 - B
2 - C	16'-3 3/4"	3 - D
2 - D	25'-9 3/4"	3 - C
2 - E	29'-1 1/4"	3 - F
2 - F	32'-11 1/2"	3 - E

LIGHT PANEL  
OPTION



\* Location of point **A** on the water envelope per ANSI/NSPI-5 2003 standards.

POOL SURFACE AREA	730.5 ft <sup>2</sup>	LINER SQ. FT.	816.25 ft <sup>2</sup>
POOL VOLUME	25400 gal	POOL PERIMETER	104'-6"
	96100 L		31,85 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

8' RADIUS STEP

ITEM DESCRIPTION	PART #
8 4' PLAIN PANEL	48106
2 4' SKIMMER PANEL	48106S
18 VERSA-FLEX PANEL	48115
16 10' RADIUS STRAP SET	86273S
1 STRAIGHT to 10' RADIUS STRAP SET	86172S
1 10' RADIUS to STRAIGHT STRAP SET	86173S
468 PUSH NUTS	09115
29 BRACE SYSTEM COMPLETE	48146
1 8' RADIUS STEP & REST	07418RSNR48
14* 3/8"-16X HEX WASHER HEAD BOLT	148838
14* 3/8"-16 HEX WASHER HEAD NUT	149664
CHANNEL-LOC SONOTUBE	86152
4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection

This configuration is only available with 8' Radius Step & Rest

1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 10" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufacturer diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

**ROMAN END**  
16' x 37'

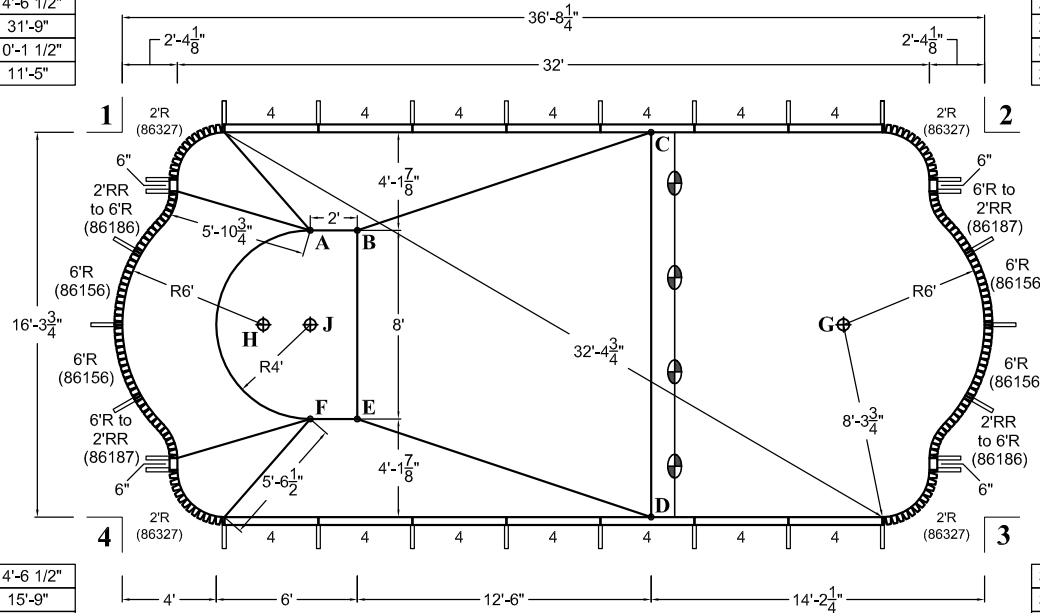
1 - A	9'-0 1/4"
1 - B	10'-10"
1 - C	22'-6"
1 - D	27'-9 1/2"
1 - E	15'-9"
1 - F	14'-6 1/2"
1 - G	31'-9"
1 - H	10'-1 1/2"
1 - J	11'-5"

1 - 3	40'-1 3/4"
2 - 4	

2 - A	28'-11 3/4"
2 - B	27'
2 - C	14'-2 1/4"
2 - D	21'-7 1/2"
2 - E	29'-3 3/4"
2 - F	31'-1 3/4"
2 - G	10'-1 1/2"
2 - H	31'-9"
2 - J	29'-9 3/4"

8' STEP & REST - SIDE STEP OPTION  
(RIGHT SIDE STEP SHOWN)

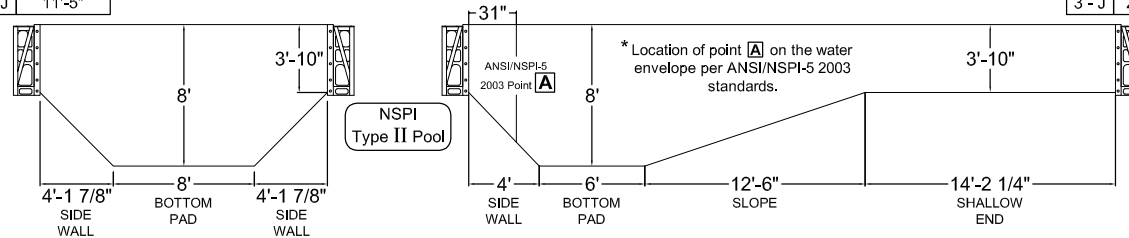
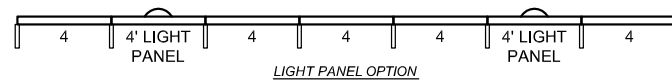
H - A	4'-5 3/4"
H - B	5'-8"
H - C	18'-4 3/4"
H - D	18'-4 3/4"
H - E	5'-8"
H - F	4'-5 3/4"
H - G	24'-8 1/4"
H - J	2'



G - A	23'-0 1/2"
G - B	21'-0 3/4"
G - C	11'-6 3/4"
G - D	11'-6 3/4"
G - E	21'-0 3/4"
G - F	23'-0 1/2"
G - H	24'-8 1/4"
G - J	22'-8 1/4"

4 - A	14'-6 1/2"
4 - B	15'-9"
4 - C	27'-9 1/2"
4 - D	22'-6"
4 - E	10'-10"
4 - F	9'-0 1/4"
4 - G	31'-9"
4 - H	10'-1 1/2"
4 - J	11'-5"

3 - A	31'-1 3/4"
3 - B	29'-3 3/4"
3 - C	21'-7 1/2"
3 - D	14'-2 1/4"
3 - E	27'
3 - F	28'-11 3/4"
3 - G	10'-1 1/2"
3 - H	31'-9"
3 - J	29'-9 3/4"



\* Location of point **A** on the water envelope per ANSI/NSPI-5 2003 standards.

POOL SURFACE AREA →	550.0 ft <sup>2</sup>	LINER SQ. FT. →	598.4648 ft <sup>2</sup>
POOL VOLUME →	18700 gal	POOL PERIMETER →	95'-8"
	70800 L		29.16 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM #	DESCRIPTION	PART #
4	6" PLAIN PANEL	48100
11	4' PLAIN PANEL	48106
1	4' SKIMMER PANEL	48106S
12	VERSA-FLEX PANEL	48115
4	6' RADIUS STRAP SET	86156S
4	2' RADIUS STRAP SET	86327S
2	2'RR to 6'R STRAP SET	86186S
2	6'R to 2'RR STRAP SET	86187S
312	PUSH NUTS	09115
29	30 BRACE SYSTEM COMPLETE	48146
1	8' STEP & REST	07418SNR48
14*	3/8"-16X HEX WASHER HEAD BOLT	148838
14*	3/8"-16 HEX WASHER HEAD NUT	149664
	CHANNEL-LOC SONOTUBE	86152
	4' STANDARD LIGHT PANEL	42106L

\* - use bolts at step connection

1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1' away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 10" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.





ROMAN END LAZY EL LEFT  
16' x 42'

POOL SURFACE AREA	→ 646.2 ft <sup>2</sup> 60.0 m <sup>2</sup>	LINER SQ. FT.	→ 806.1094 ft <sup>2</sup>
POOL VOLUME	→ 21200 gal 80200 L	POOL PERIMETER	→ 107'-2" 32.66 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM DESCRIPTION	PART #
4 4 6" PLAIN PANEL	48100
2 2 1' PLAIN PANEL	48101
10 12 4' PLAIN PANEL	48106
2 2 4' SKIMMER PANEL	48106S
15 15 VERSA-FLEX PANEL	48115
2 2 8' RADIUS STRAP SET	86200S
4 4 6' RADIUS STRAP SET	86156S
4 4 2' RADIUS STRAP SET	86327S
1 1 4' REVERSE RADIUS STRAP SET	86163S
2 2 2'RR to 6'R STRAP SET	86186S
2 2 6'R to 2'RR STRAP SET	86187S
390 390 PUSH NUTS	09115
34 35 BRACE SYSTEM COMPLETE	48146
1 8' STEP & REST	07418SNR48
14* 3/8"-16X HEX WASHER HEAD BOLT	148838
14* 3/8"-16 HEX WASHER HEAD NUT	149664
CHANNEL-LOC SONOTUBE	86152
4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection

- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
- All inside pool dimensions are to be finished dimensions. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

1 - A	9'-0 1/4"
1 - B	10'-10"
1 - C	22'-6"
1 - D	27'-9 1/2"
1 - E	15'-9"
1 - F	14'-6 1/2"
1 - G	37'-0 1/4"
1 - H	10'-1 1/2"
1 - J	11'-5"
1 - Y	32'-7 1/2"
1 - Z	30'-8"

1 - 3	46'-11"
2 - 4	

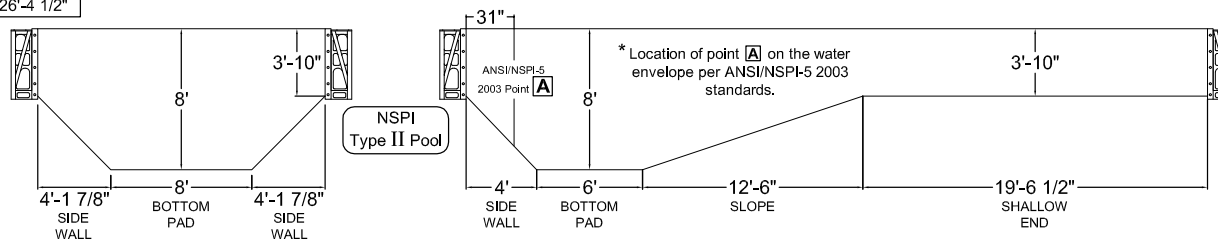
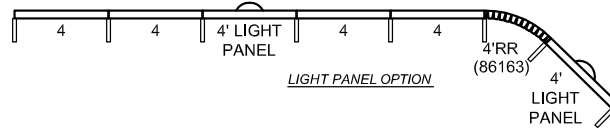
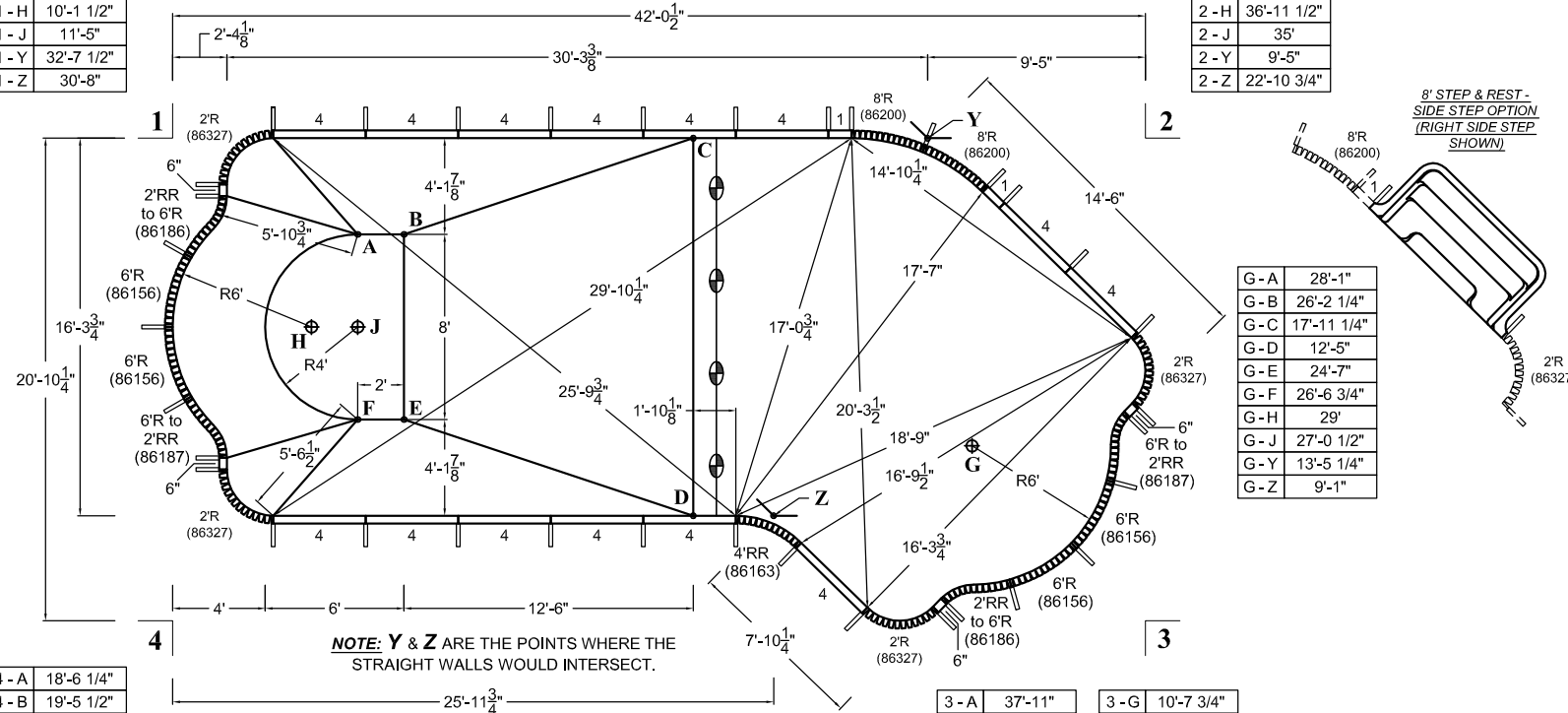
2 - A	34'-3 1/2"
2 - B	32'-3 3/4"
2 - C	19'-6 1/2"
2 - D	25'-5 1/2"
2 - E	34'-3 1/4"
2 - F	36'-1 3/4"
2 - G	15'-3"
2 - H	36'-11 1/2"
2 - J	35'
2 - Y	9'-5"
2 - Z	22'-10 3/4"

H - A	4'-5 3/4"
H - B	5'-8"
H - C	18'-4 3/4"
H - D	18'-4 3/4"
H - E	5'-8"
H - F	4'-5 3/4"
H - G	29'
H - J	2'
H - Y	27'-10 1/4"
H - Z	21'-7"

4 - A	18'-6 1/4"
4 - B	19'-5 1/2"
4 - C	30'-8"
4 - D	22'-11 1/2"
4 - E	13'-3"
4 - F	11'-9 3/4"
4 - G	35'-4 1/2"
4 - H	14'-0 1/2"
4 - J	15'
4 - Y	38'-8 3/4"
4 - Z	26'-4 1/2"

3 - A	37'-11"
3 - B	36'-1 1/2"
3 - C	28'-7"
3 - D	20'-0 3/4"
3 - E	33'-2 1/4"
3 - F	35'-1 1/2"

3 - G	10'-7 3/4"
3 - H	38'-2 1/2"
3 - J	36'-4"
3 - Y	22'-10 1/2"
3 - Z	16'-8 1/4"







**ROMAN END LAZY EL RIGHT**  
18' x 45'

POOL SURFACE AREA	→ 769.2 ft <sup>2</sup>	LINER SQ. FT.	→ 964.7092 ft <sup>2</sup>
POOL VOLUME	→ 24850 gal	POOL PERIMETER	→ 115'-4"
	94000 L		35.15 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

8' RADIUS STEP	8' SIDE STEP	NO STEP	ITEM DESCRIPTION	PART #
2	2	2	6" PLAIN PANEL	48100
1			1' PLAIN PANEL	48101
1	2		2' PLAIN PANEL	48102
12	11	14	4' PLAIN PANEL	48106
2	2	2	4' SKIMMER PANEL	48106S
15	16	16	VERSA-FLEX PANEL	48115
3	6	6	8' RADIUS STRAP SET	86200S
1	1	1	4' RADIUS STRAP SET	86155S
2	4	4	2' RADIUS STRAP SET	86327S
1	1	1	4' REVERSE RADIUS STRAP SET	86163S
1	2	2	2'RR to 8'R STRAP SET	86188S
1	2	2	8'R to 2'RR STRAP SET	86189S
1			2'RR to 8'R STRAP SET	86190S
1			8'R to 2'RR STRAP SET	86191S
1			2'RR to 2'RR STRAP SET	86192S
1			2'RR to 2'R STRAP SET	86193S
1			STRAIGHT to 2'R STRAP SET	86194S
1			2'R to STRAIGHT STRAP SET	86195S
390	416	416	PUSH NUTS	09115
34	34	34	BRACE SYSTEM COMPLETE	48146
1			8' RADIUS STEP & REST	07418RSNR48
	1		8' STEP & REST	07418SNR48
14*	14*		3/8"-16X HEX WASHER HEAD BOLT	148838
14*	14*		3/8"-16 HEX WASHER HEAD NUT	149664
			CHANNEL-LOC SONOTUBE	86152
			VERSA-FLEX STANDARD LIGHT PANEL	48116L

\* - use bolts at step connection

1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1' away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 10" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

2 - A	37'-2 1/4"
2 - B	34'-2 3/4"
2 - C	21'-4"
2 - D	28"
2 - E	36'-3 1/4"
2 - F	39'-1"
2 - G	16'-7 3/4"
2 - H	37'-11 1/4"
2 - Y	10'-3"
2 - Z	25'-4 1/2"

1 - 3	50'-5 1/4"
2 - 4	

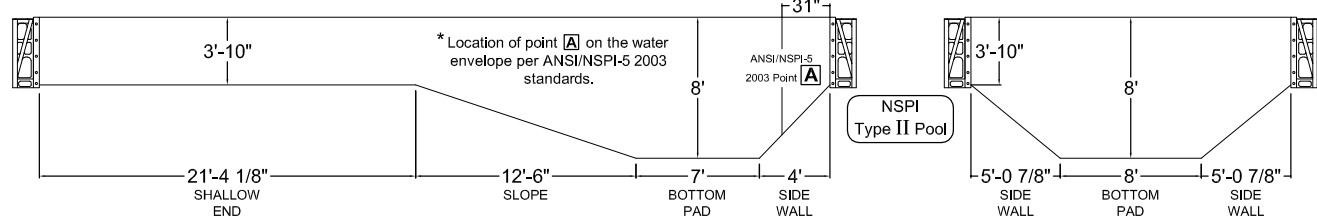
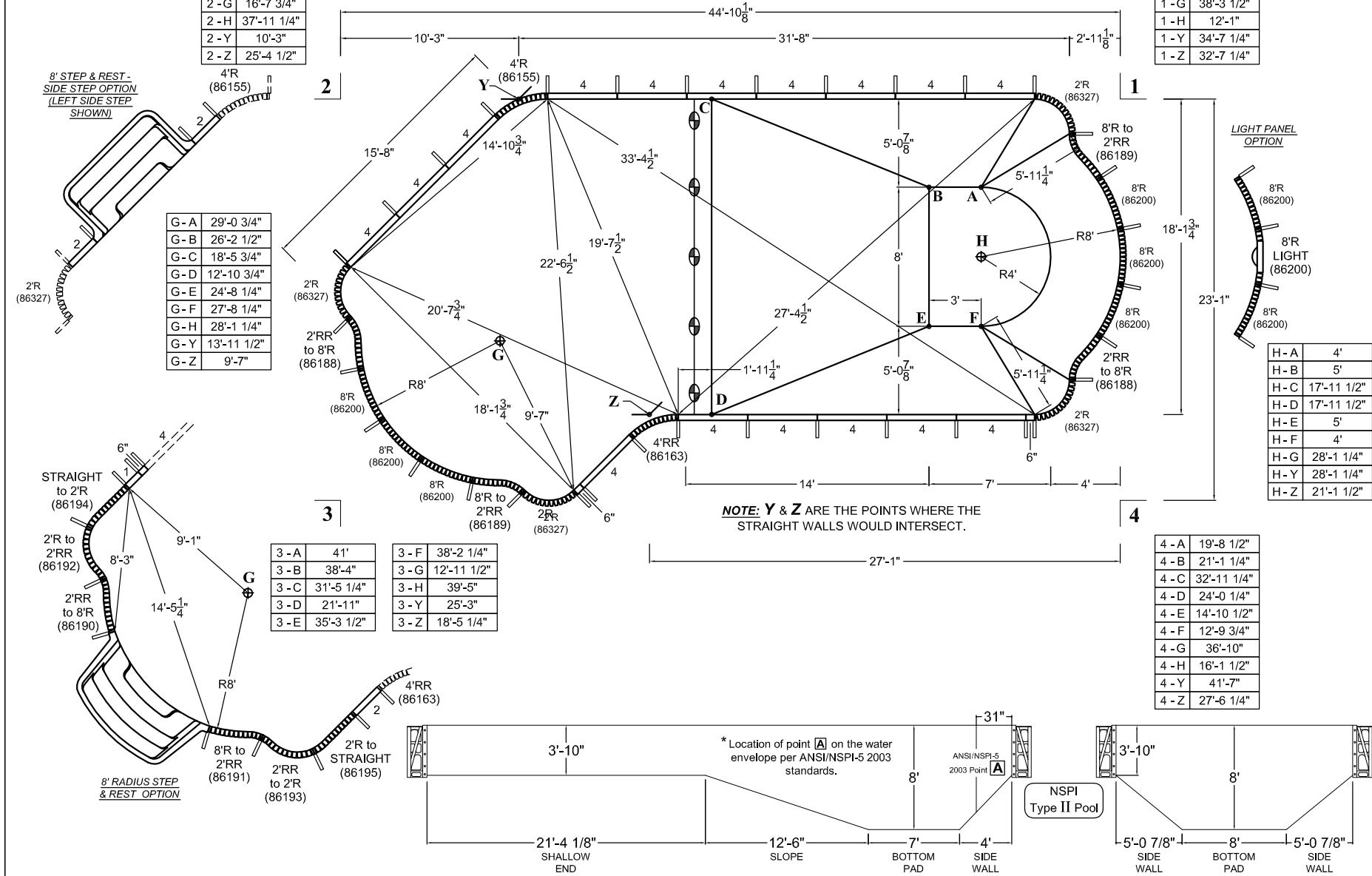
1 - A	9'-5 3/4"
1 - B	12'-1 1/4"
1 - C	23'-6"
1 - D	29'-8 1/4"
1 - E	17'-1"
1 - F	15'-4"
1 - G	38'-3 1/2"
1 - H	12'-1"
1 - Y	34'-7 1/4"
1 - Z	32'-7 1/4"

G - A	29'-0 3/4"
G - B	26'-2 1/2"
G - C	18'-5 3/4"
G - D	12'-10 3/4"
G - E	24'-8 1/4"
G - F	27'-8 1/4"
G - H	28'-1 1/4"
G - Y	13'-11 1/2"
G - Z	9'-7"

3 - A	41'
3 - B	38'-4"
3 - C	31'-5 1/4"
3 - D	21'-11"
3 - E	35'-3 1/2"

3 - F	38'-2 1/4"
3 - G	12'-11 1/2"
3 - H	39'-5"
3 - Y	25'-3"
3 - Z	18'-5 1/4"

4 - A	19'-8 1/2"
4 - B	21'-1 1/4"
4 - C	32'-11 1/4"
4 - D	24'-0 1/4"
4 - E	14'-10 1/2"
4 - F	12'-9 3/4"
4 - G	36'-10"
4 - H	16'-1 1/2"
4 - Y	41'-7"
4 - Z	27'-6 1/4"





**ROMAN END LAZY EL LEFT**  
20' x 49'

POOL SURFACE AREA	923.1 ft <sup>2</sup> 85.7 m <sup>2</sup>	LINER SQ. FT.	1165.1007 ft <sup>2</sup>
POOL VOLUME	29500 gal 111600 L	POOL PERIMETER	126'-7" 38.58 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

8' RADIUS STEP	8' SIDE STEP	NO STEP	ITEM DESCRIPTION	PART #
			6" PLAIN PANEL	48100
			1' PLAIN PANEL	48101
			2' PLAIN PANEL	48102
			2'6" PLAIN PANEL	48103
			3' PLAIN PANEL	48108
			4' PLAIN PANEL	48106
			4' SKIMMER PANEL	48106S
			VERSA-FLEX PANEL	48115
			12' RADIUS STRAP SET	86167S
			8' RADIUS STRAP SET	86200S
			2' RADIUS STRAP SET	86327S
			4' REVERSE RADIUS STRAP SET	86163S
			2'RR to 8'R STRAP SET	86188S
			8'R to 2'RR STRAP SET	86189S
			2'RR to 8'R STRAP SET	86190S
			8'R to 2'RR STRAP SET	86191S
			2'R to 2'RR STRAP SET	86192S
			2'RR to 2'R STRAP SET	86193S
			STRAIGHT to 2'R STRAP SET	86194S
			2'R to STRAIGHT STRAP SET	86195S
			PUSH NUTS	09115
			BRACE SYSTEM COMPLETE	48146
			8' RADIUS STEP & REST	07418RSNR48
			8' STEP & REST	07418SNR48
			3/8"-16X HEX WASHER HEAD BOLT	148838
			3/8"-16 HEX WASHER HEAD NUT	149664
			CHANNEL-LOC SONOTUBE	86152
			VERSA-FLEX STANDARD LIGHT PANEL	48116L

\* - use bolts at step connection

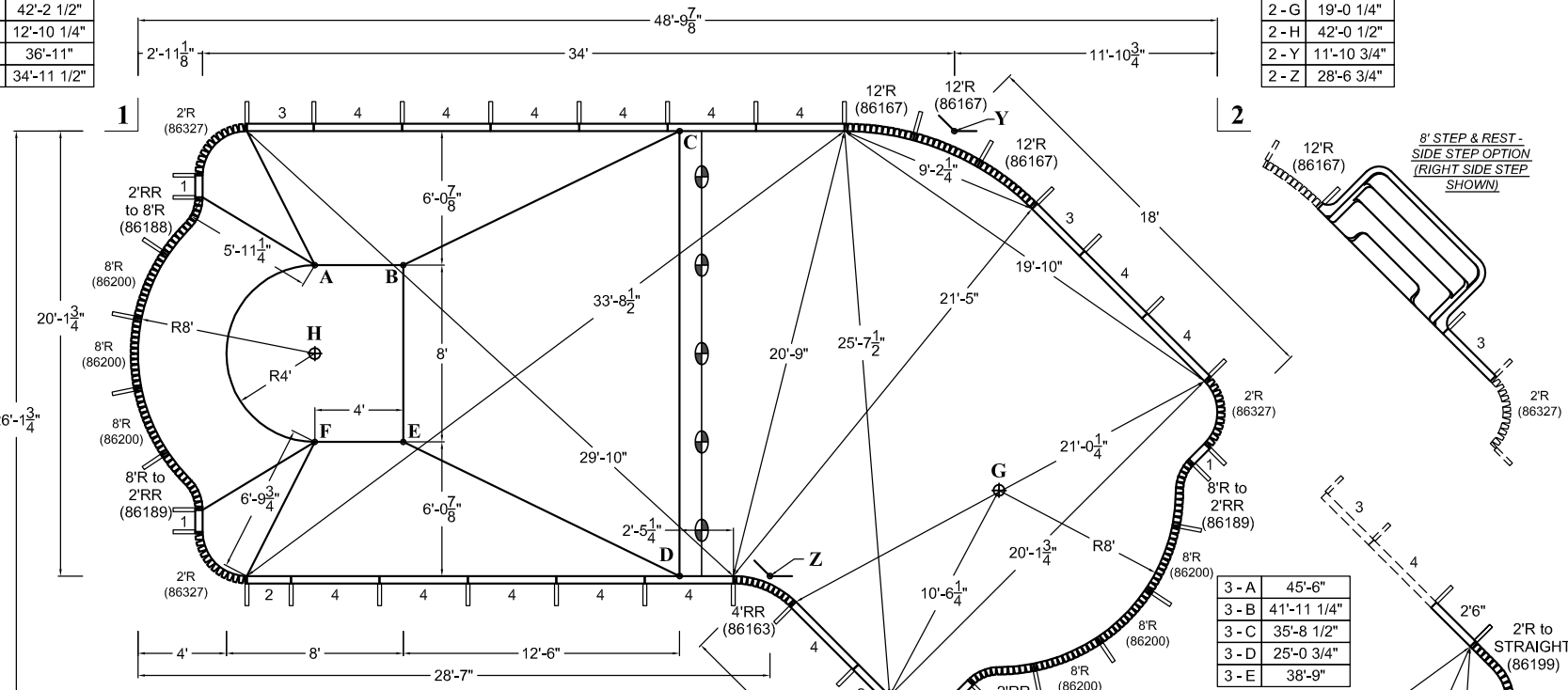
- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3" wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
- All inside pool dimensions are to be finished dimensions.
- Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 10" to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

1 - A	10'-0 1/2"
1 - B	13'-5 1/4"
1 - C	24'-6"
1 - D	31'-8 1/2"
1 - E	18'-6"
1 - F	16'-2 1/4"
1 - G	42'-2 1/2"
1 - H	12'-10 1/4"
1 - Y	36'-11"
1 - Z	34'-11 1/2"

1 - 3	55'-4 1/2"
2 - 4	

2 - A	41'-3 1/4"
2 - B	37'-3 3/4"
2 - C	24'-4"
2 - D	31'-7"
2 - E	39'-5"
2 - F	43'-2 1/4"
2 - G	19'-0 1/4"
2 - H	42'-0 1/2"
2 - Y	11'-10 3/4"
2 - Z	28'-6 3/4"

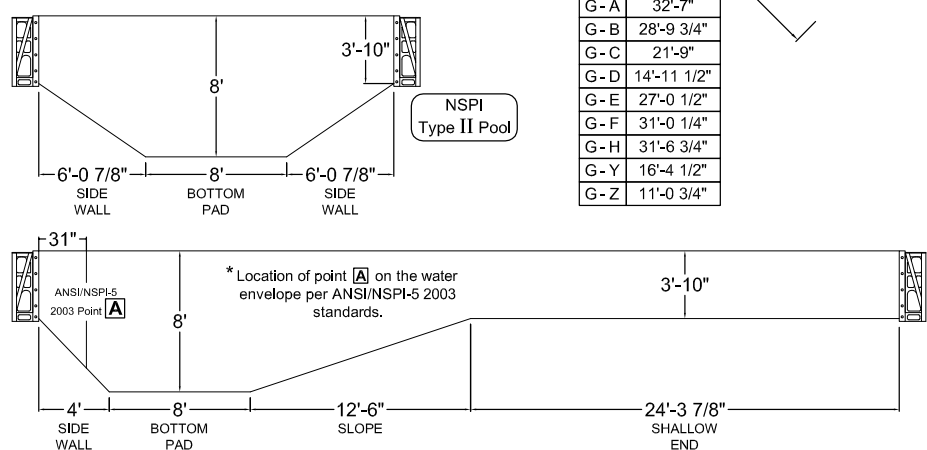


H - A	4'
H - B	5'-8"
H - C	35'-10"
H - D	19'-4"
H - E	5'-8"
H - F	4'
H - G	31'-6 3/4"
H - Y	30'-7 1/2"
H - Z	22'-11"

4 - A	21'-7 1/4"
4 - B	23'-4 1/2"
4 - C	35'-10"
4 - D	25'-2 3/4"
4 - E	17'-0 1/4"
4 - F	14'-5 3/4"
4 - G	40'-2 1/4"
4 - H	17'-11 1/2"
4 - Y	45'-3"
4 - Z	29'-2 1/2"

G - A	32'-7"
G - B	28'-9 3/4"
G - C	21'-9"
G - D	14'-11 1/2"
G - E	27'-0 1/2"
G - F	31'-0 1/4"
G - H	31'-6 3/4"
G - Y	16'-4 1/2"
G - Z	11'-0 3/4"

3 - F	42'-6 3/4"
3 - G	13'-11 3/4"
3 - H	43'-10 1/2"
3 - Y	28'-8 3/4"
3 - Z	21'-1 1/4"



**ROMAN END LAZY EL RIGHT**  
20' x 49'

POOL SURFACE AREA	→ 923.1 ft <sup>2</sup>	LINER SQ. FT.	→ 1165.1007 ft <sup>2</sup>
POOL VOLUME	→ 29500 gal	POOL PERIMETER	→ 126'-7"
	111600 L		38.58 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM DESCRIPTION	PART #
1 6" PLAIN PANEL	48100
2 4 4 1' PLAIN PANEL	48101
1 2 2 2' PLAIN PANEL	48102
1 2'6" PLAIN PANEL	48103
2 2 2 3' PLAIN PANEL	48108
11 10 12 4' PLAIN PANEL	48106
2 2 2 4' SKIMMER PANEL	48106S
17 18 18 VERSA-FLEX PANEL	48115
3 3 3 12' RADIUS STRAP SET	86167S
3 6 6 8' RADIUS STRAP SET	86200S
2 4 4 2' RADIUS STRAP SET	86327S
1 1 1 4' REVERSE RADIUS STRAP SET	86163S
1 2 2 2'RR to 8'R STRAP SET	86188S
1 2 2 8'R to 2'RR STRAP SET	86189S
1 2'RR to 8'R STRAP SET	86190S
1 8'R to 2'RR STRAP SET	86191S
1 2'R to 2'RR STRAP SET	86192S
1 2'RR to 2'R STRAP SET	86193S
1 STRAIGHT to 2'R STRAP SET	86194S
1 2'R to STRAIGHT STRAP SET	86195S
442 468 468 PUSH NUTS	09115
38 39 40 BRACE SYSTEM COMPLETE	48146
1 8' RADIUS STEP & REST	07418RSNR48
1 8' STEP & REST	07418SNR48
14* 14* 3/8"-16X HEX WASHER HEAD BOLT	148838
14* 14* 3/8"-16 HEX WASHER HEAD NUT	149664
CHANNEL-LOC SONOTUBE	86152
VERSA-FLEX STANDARD LIGHT PANEL	48116L

- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3" wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1' away from the pool.
- All inside pool dimensions are to be finished dimensions.
- Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 10" to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

2 - A	41'-3 1/4"
2 - B	37'-3 3/4"
2 - C	24'-4"
2 - D	31'-7"
2 - E	39'-5"
2 - F	43'-2 1/4"
2 - G	19'-0 1/4"
2 - H	42'-0 1/2"
2 - Y	11'-10 3/4"
2 - Z	28'-6 3/4"

1 - 3	55'-4 1/2"
2 - 4	

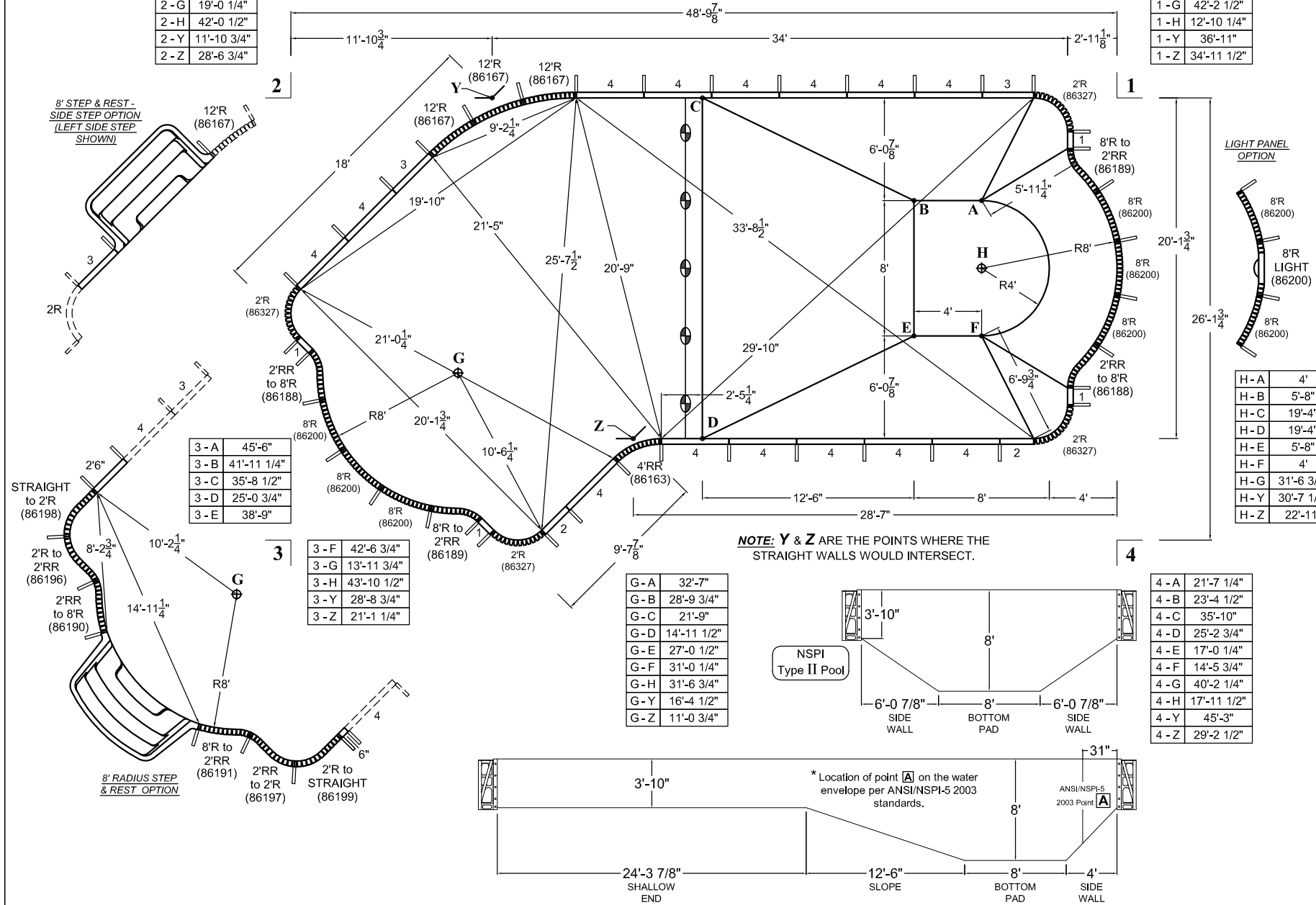
1 - A	10'-0 1/2"
1 - B	13'-5 1/4"
1 - C	24'-6"
1 - D	31'-8 1/2"
1 - E	18'-6"
1 - F	16'-2 1/4"
1 - G	42'-2 1/2"
1 - H	12'-10 1/4"
1 - Y	36'-11"
1 - Z	34'-11 1/2"

3 - A	45'-6"
3 - B	41'-11 1/4"
3 - C	35'-8 1/2"
3 - D	25'-0 3/4"
3 - E	38'-9"

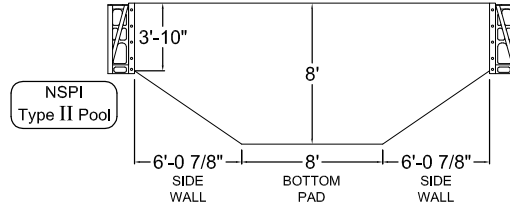
3 - F	42'-6 3/4"
3 - G	13'-11 3/4"
3 - H	43'-10 1/2"
3 - Y	28'-8 3/4"
3 - Z	21'-1 1/4"

G - A	32'-7"
G - B	28'-9 3/4"
G - C	21'-9"
G - D	14'-11 1/2"
G - E	27'-0 1/2"
G - F	31'-0 1/4"
G - H	31'-6 3/4"
G - Y	16'-4 1/2"
G - Z	11'-0 3/4"

4 - A	21'-7 1/4"
4 - B	23'-4 1/2"
4 - C	35'-10"
4 - D	25'-2 3/4"
4 - E	17'-0 1/4"
4 - F	14'-5 3/4"
4 - G	40'-2 1/4"
4 - H	17'-11 1/2"
4 - Y	45'-3"
4 - Z	29'-2 1/2"



NOTE: Y & Z ARE THE POINTS WHERE THE STRAIGHT WALLS WOULD INTERSECT.



\* Location of point **A** on the water envelope per ANSI/NSPI-5 2003 standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.



**KEYHOLE - 2' RADIUS  
REVERSE VIEW - 16' x 32'**

POOL SURFACE AREA	→ 446.8 ft <sup>2</sup> 41,5 m <sup>2</sup>	LINER SQ. FT.	→ 516.00 ft <sup>2</sup>
POOL VOLUME	→ 12650 gal 47900 L	POOL PERIMETER	→ 86'-6" 26,36 m

**NO DIVING ALLOWED IN THIS POOL**

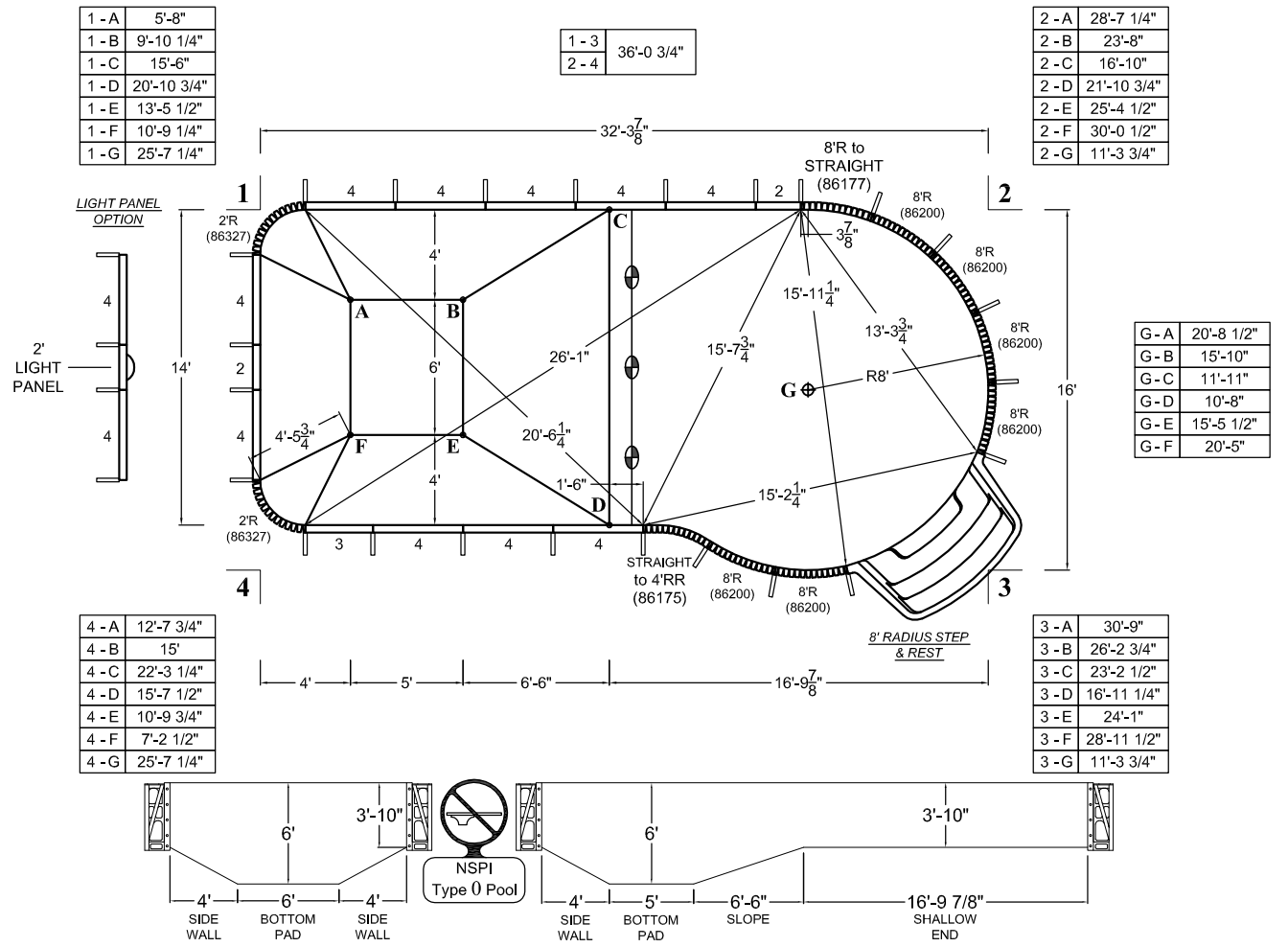
ITEM DESCRIPTION	PART #	
2	2' PLAIN PANEL	48102
1	3' PLAIN PANEL	48108
9	4' PLAIN PANEL	48106
1	4' SKIMMER PANEL	48106S
10	VERSA-FLEX PANEL	48115
6	8' RADIUS STRAP SET	86200S
2	2' RADIUS STRAP SET	86327S
1	4'RR to 8'R STRAP SET	86175S
1	8'R to STRAIGHT STRAP SET	86177S
260	PUSH NUTS	09115
24	BRACE SYSTEM COMPLETE	48146
1	8' RADIUS STEP & REST	07418RSNR48
14*	3/8"-16X HEX WASHER HEAD BOLT	148838
14*	3/8"-16 HEX WASHER HEAD NUT	149664
	CHANNEL-LOC SONOTUBE	86152
	2' STANDARD LIGHT PANEL	48102L

\* - use bolts at  
step connection

This configuration is only available with  
8' Radius Step & Rest

1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1' away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI/ANSI suggested minimum standards for pools that are NOT approved for diving.



1 - A	5'-8"
1 - B	9'-10 1/4"
1 - C	15'-6"
1 - D	20'-10 3/4"
1 - E	13'-5 1/2"
1 - F	10'-9 1/4"
1 - G	25'-7 1/4"

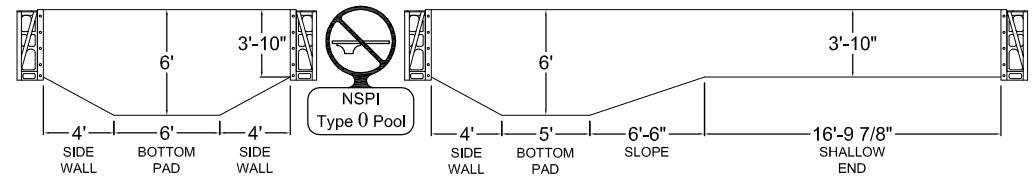
1 - 3	36'-0 3/4"
2 - 4	

2 - A	28'-7 1/4"
2 - B	23'-8"
2 - C	16'-10"
2 - D	21'-10 3/4"
2 - E	25'-4 1/2"
2 - F	30'-0 1/2"
2 - G	11'-3 3/4"

G - A	20'-8 1/2"
G - B	15'-10"
G - C	11'-11"
G - D	10'-8"
G - E	15'-5 1/2"
G - F	20'-5"

4 - A	12'-7 3/4"
4 - B	15'
4 - C	22'-3 1/4"
4 - D	15'-7 1/2"
4 - E	10'-9 3/4"
4 - F	7'-2 1/2"
4 - G	25'-7 1/4"

3 - A	30'-9"
3 - B	26'-2 3/4"
3 - C	23'-2 1/2"
3 - D	16'-11 1/4"
3 - E	24'-1"
3 - F	28'-11 1/2"
3 - G	11'-3 3/4"



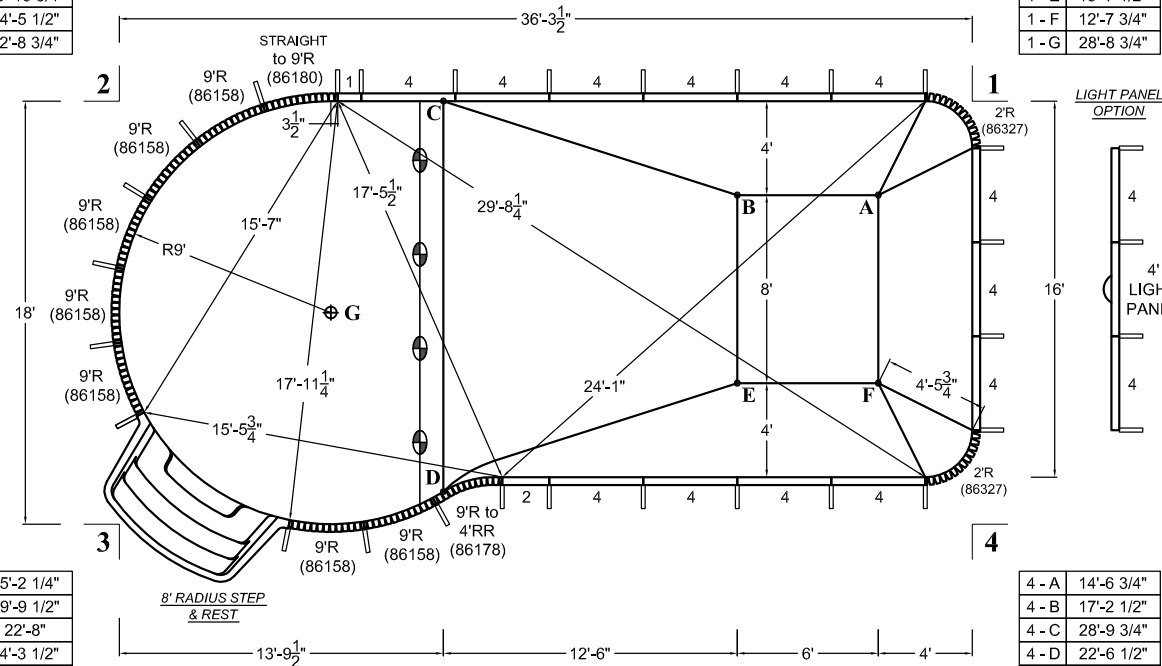
**KEYHOLE - 2' RADIUS  
STANDARD VIEW - 18' x 36'**

2 - A	32'-6 1/2"
2 - B	26'-7 1/4"
2 - C	13'-9 1/2"
2 - D	21'-7 1/4"
2 - E	28'-10 3/4"
2 - F	34'-5 1/2"
2 - G	12'-8 3/4"

1 - 3	40'-6"
2 - 4	

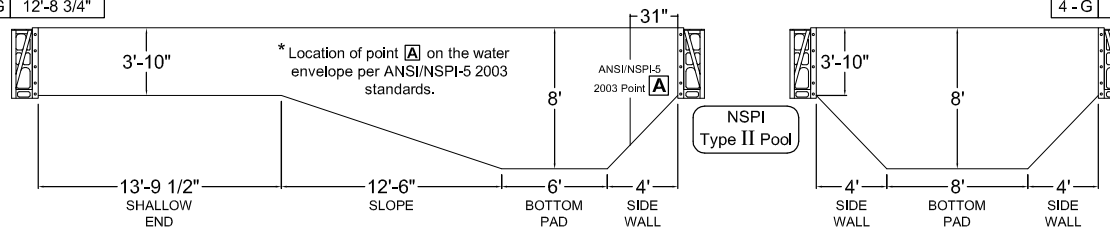
1 - A	5'-8"
1 - B	10'-9 1/4"
1 - C	22'-6"
1 - D	27'-11 3/4"
1 - E	15'-7 1/2"
1 - F	12'-7 3/4"
1 - G	28'-8 3/4"

G - A	23'-9 3/4"
G - B	18'
G - C	10'-2 1/4"
G - D	9'
G - E	17'-6 1/2"
G - F	23'-5 3/4"



3 - A	35'-2 1/4"
3 - B	29'-9 1/2"
3 - C	22'-8"
3 - D	14'-3 1/2"
3 - E	26'-11 1/2"
3 - F	32'-10 1/4"
3 - G	12'-8 3/4"

4 - A	14'-6 3/4"
4 - B	17'-2 1/2"
4 - C	28'-9 3/4"
4 - D	22'-6 1/2"
4 - E	11'-8"
4 - F	7'-2 1/2"
4 - G	28'-8 3/4"



POOL SURFACE AREA	570.1 ft <sup>2</sup>	LINER SQ. FT.	653.25 ft <sup>2</sup>
POOL VOLUME	19550 gal	POOL PERIMETER	97'-6"
	74000 L		29,71 m

**DIVING PERMITTED ONLY FROM  
DESIGNATED DIVING AREA**

ITEM DESCRIPTION	PART #	
1	1' PLAIN PANEL	48101
1	2' PLAIN PANEL	48102
12	4' PLAIN PANEL	48106
1	4' SKIMMER PANEL	48106S
11	VERSA-FLEX PANEL	48115
7	9'R PANEL STRAP SET	86158S
2	2' RADIUS STRAP SET	86327S
1	9'R to 4'RR STRAP SET	86178S
1	STRAIGHT to 9'R STRAP SET	86180S
286	PUSH NUTS	09115
30	BRACE SYSTEM COMPLETE	48146
1	8' RADIUS STEP & REST	07418RSNR48
14*	3/8"-16X HEX WASHER HEAD BOLT	148838
14*	3/8"-16 HEX WASHER HEAD NUT	149664
	CHANNEL-LOC SONOTUBE	86152
	4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection

This configuration is only available with 8' Radius Step & Rest

- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
- All inside pool dimensions are to be finished dimensions.
- Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 10" to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

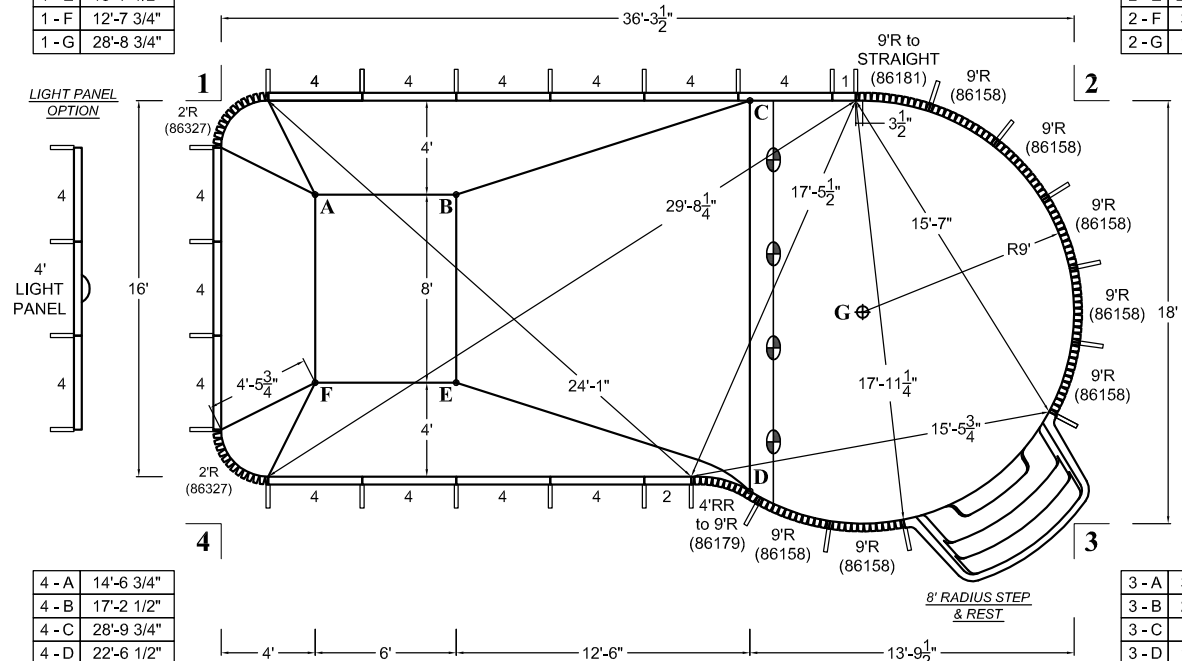
The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

**KEYHOLE - 2' RADIUS  
REVERSE VIEW - 18' x 36'**

1 - A	5'-8"
1 - B	10'-9 1/4"
1 - C	22'-6"
1 - D	27'-11 3/4"
1 - E	15'-7 1/2"
1 - F	12'-7 3/4"
1 - G	28'-8 3/4"

1 - 3	40'-6"
2 - 4	

2 - A	32'-6 1/2"
2 - B	26'-7 1/4"
2 - C	13'-9 1/2"
2 - D	21'-7 1/4"
2 - E	28'-10 3/4"
2 - F	34'-5 1/2"
2 - G	12'-8 3/4"



4 - A	14'-6 3/4"
4 - B	17'-2 1/2"
4 - C	28'-9 3/4"
4 - D	22'-6 1/2"
4 - E	11'-8"
4 - F	7'-2 1/2"
4 - G	28'-8 3/4"

3 - A	35'-2 1/4"
3 - B	29'-9 1/2"
3 - C	22'-8"
3 - D	14'-3 1/2"
3 - E	26'-11 1/2"
3 - F	32'-10 1/4"
3 - G	12'-8 3/4"

POOL SURFACE AREA	→ 570.1 ft <sup>2</sup>	LINER SQ. FT.	→ 653.25 ft <sup>2</sup>
POOL VOLUME	→ 19550 gal	POOL PERIMETER	→ 97'-6"
	74000 L		29.71 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM DESCRIPTION	PART #	
1	1' PLAIN PANEL	48101
1	2' PLAIN PANEL	48102
12	4' PLAIN PANEL	48106
1	4' SKIMMER PANEL	48106S
11	VERSA-FLEX PANEL	48115
7	9'R PANEL STRAP SET	86158S
2	2' RADIUS STRAP SET	86327S
1	4'RR to 9'R STRAP SET	86179S
1	9'R to STRAIGHT STRAP SET	86181S
286	PUSH NUTS	09115
30	BRACE SYSTEM COMPLETE	48146
1	8' RADIUS STEP & REST	07418RSNR48
14*	3/8"-16X HEX WASHER HEAD BOLT	148838
14*	3/8"-16 HEX WASHER HEAD NUT	149664
	CHANNEL-LOC SONOTUBE	86152
	4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection

This configuration is only available with 8' Radius Step & Rest

1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1' away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

**KEYHOLE - 2' RADIUS  
STANDARD VIEW - 20' x 40'**

2 - A	36'-6"
2 - B	30'-6 1/2"
2 - C	17'-9 1/4"
2 - D	25'-3 1/2"
2 - E	33'-4 1/4"
2 - F	38'-10 1/2"
2 - G	14'-1 3/4"

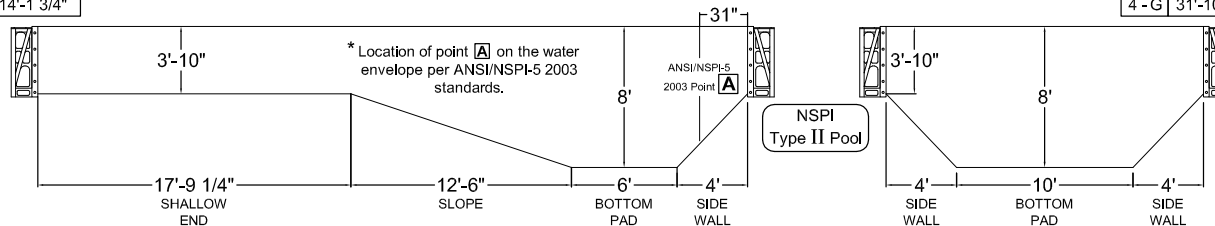
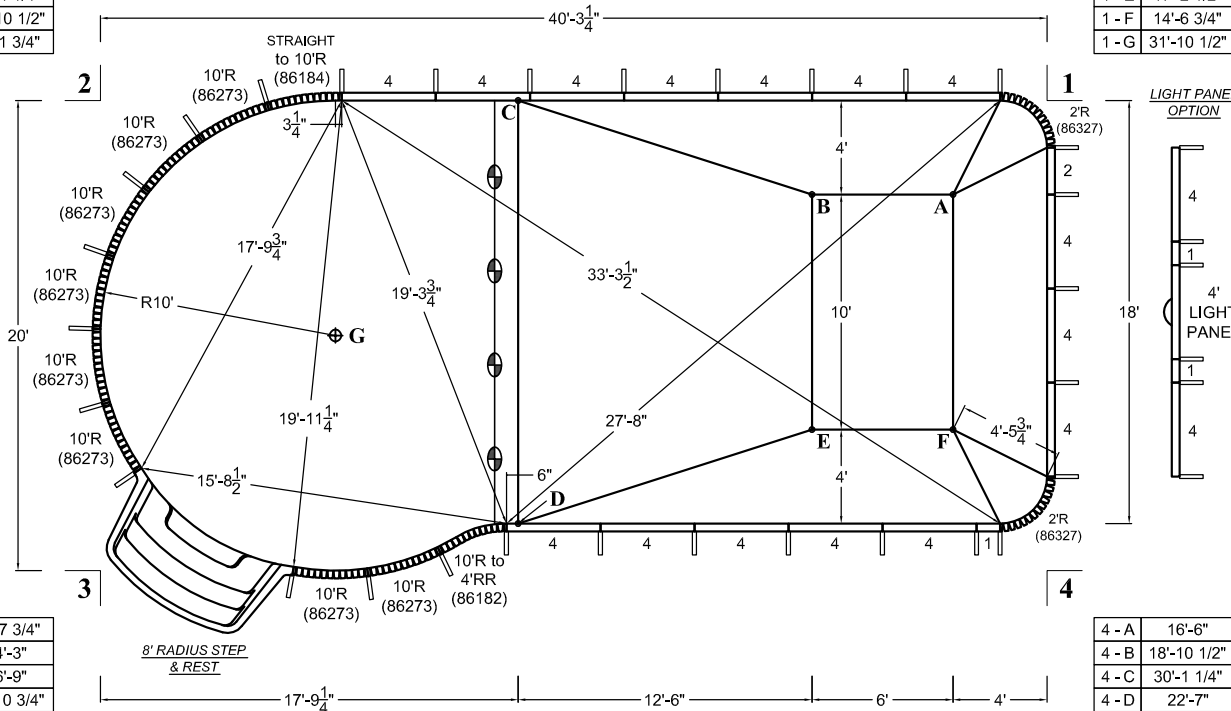
1 - 3	44'-11 1/2"
2 - 4	

1 - A	5'-8"
1 - B	10'-9 1/4"
1 - C	22'-6"
1 - D	28'-9 3/4"
1 - E	17'-2 1/2"
1 - F	14'-6 3/4"
1 - G	31'-10 1/2"

G - A	26'-11 1/2"
G - B	21'-1 3/4"
G - C	12'-8"
G - D	11'-1 3/4"
G - E	20'-8"
G - F	26'-7"

3 - A	39'-7 3/4"
3 - B	34'-3"
3 - C	26'-9"
3 - D	17'-10 3/4"
3 - E	30'-10 1/4"
3 - F	36'-9 1/4"
3 - G	14'-1 3/4"

4 - A	16'-6"
4 - B	18'-10 1/2"
4 - C	30'-1 1/4"
4 - D	22'-7"
4 - E	11'-8"
4 - F	7'-2 1/2"
4 - G	31'-10 1/2"



POOL SURFACE AREA	708.6 ft <sup>2</sup>	LINER SQ. FT.	805.4167 ft <sup>2</sup>
POOL VOLUME	23800 gal	POOL PERIMETER	108'-8"
	90100 L		33.12 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM DESCRIPTION	PART #	
1	1' PLAIN PANEL	48101
1	2' PLAIN PANEL	48102
14	4' PLAIN PANEL	48106
1	4' SKIMMER PANEL	48106S
12	VERSA-FLEX PANEL	48115
8	10'R PANEL STRAP SET	86273S
2	2' RADIUS STRAP SET	86327S
1	10'R to 4'RR STRAP SET	86182S
1	STRAIGHT to 10'R STRAP SET	86184S
312	PUSH NUTS	09115
30	BRACE SYSTEM COMPLETE	48146
1	8' RADIUS STEP & REST	07418RSNR48
14*	3/8"-16X HEX WASHER HEAD BOLT	148838
14*	3/8"-16 HEX WASHER HEAD NUT	149664
	CHANNEL-LOC SONOTUBE	86152
	4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection

This configuration is only available with 8' Radius Step & Rest

1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.





**KEYHOLE - FULL RADIUS  
STANDARD VIEW - 16' x 32'**

POOL SURFACE AREA	427.4 ft <sup>2</sup>	LINER SQ. FT.	516.00 ft <sup>2</sup>
POOL VOLUME	12450 gal	POOL PERIMETER	82'-2"
	47100 L		25,04 m

**NO DIVING ALLOWED IN THIS POOL**

ITEM DESCRIPTION	PART #
1 1' PLAIN PANEL	48101
1 2' PLAIN PANEL	48102
5 4' PLAIN PANEL	48106
1 4' SKIMMER PANEL	48106S
15 VERSA-FLEX PANEL	48115
6 8'R PANEL STRAP SET	86200S
7 7' RADIUS STRAP SET	86157S
1 8'R to 4'R STRAP SET	86174S
1 STRAIGHT to 8'R STRAP SET	86176S
390 PUSH NUTS	09115
24 BRACE SYSTEM COMPLETE	48146
1 8' RADIUS STEP & REST	07418RSNR48
14* 3/8"-16X HEX WASHER HEAD BOLT	148838
14* 3/8"-16 HEX WASHER HEAD NUT	149664
CHANNEL-LOC SONOTUBE	86152
VERSA-FLEX STANDARD LIGHT PANEL	48116L

2 - A	25'-7 3/4"
2 - B	23'-8"
2 - C	16'-10"
2 - D	21'-10 3/4"
2 - E	25'-4 1/2"
2 - F	27'-2 3/4"
2 - G	11'-3 3/4"
2 - H	26'-3 1/4"

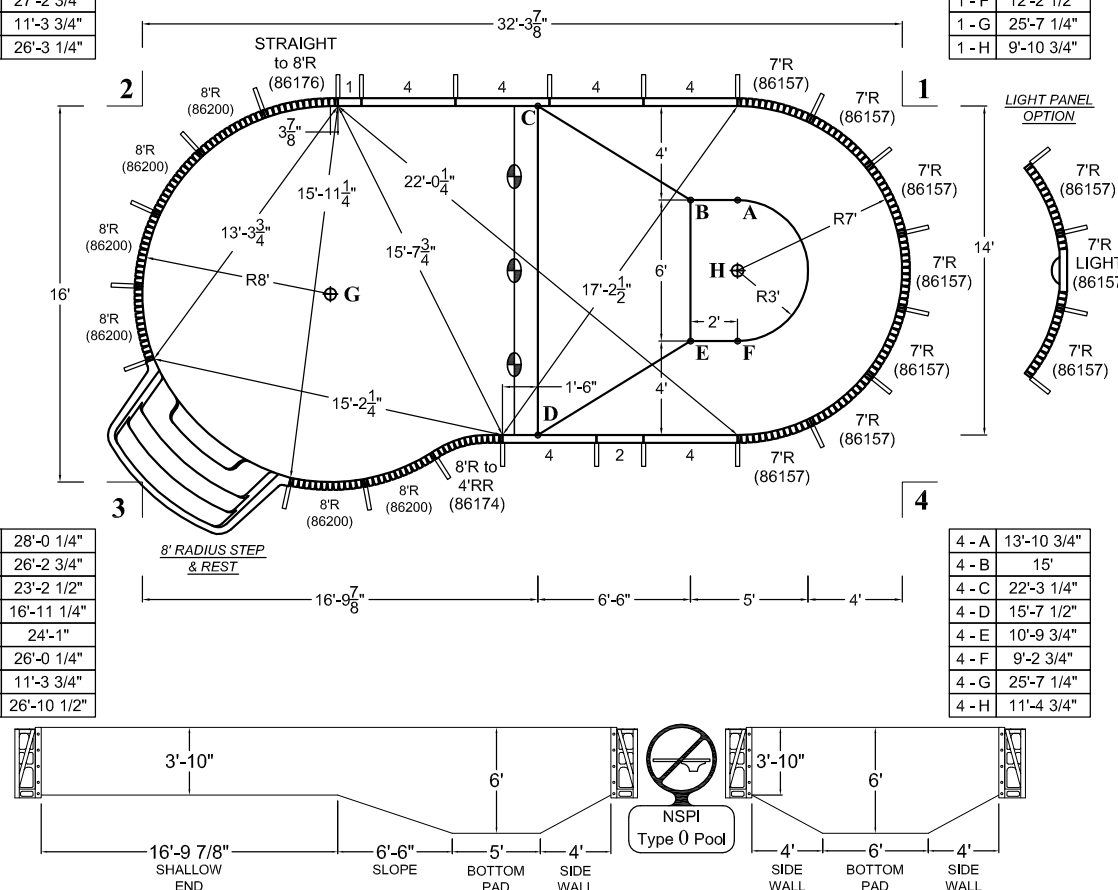
1 - 3	36'-0 3/4"
2 - 4	

1 - A	8'-0 3/4"
1 - B	9'-10 1/4"
1 - C	15'-6"
1 - D	20'-10 3/4"
1 - E	13'-5 1/2"
1 - F	12'-2 1/2"
1 - G	25'-7 1/4"
1 - H	9'-10 3/4"

G - A	17'-9 1/4"
G - B	15'-10"
G - C	11'-11"
G - D	10'-8"
G - E	15'-5 1/2"
G - F	17'-5 1/4"
G - H	17'-4 1/4"

3 - A	28'-0 1/4"
3 - B	26'-2 3/4"
3 - C	23'-2 1/2"
3 - D	16'-11 1/4"
3 - E	24'-1"
3 - F	26'-0 1/4"
3 - G	11'-3 3/4"
3 - H	26'-10 1/2"

4 - A	13'-10 3/4"
4 - B	15'
4 - C	22'-3 1/4"
4 - D	15'-7 1/2"
4 - E	10'-9 3/4"
4 - F	9'-2 3/4"
4 - G	25'-7 1/4"
4 - H	11'-4 3/4"



H - A	3'
H - B	3'-7 1/4"
H - C	11'-0 1/4"
H - D	11'-0 1/4"
H - E	3'-7 1/4"
H - F	3'
H - G	17'-4 1/4"

\* - use bolts at step connection

This configuration is only available with 8' Radius Step & Rest

- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
- All inside pool dimensions are to be finished dimensions.
- Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

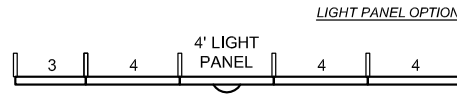
The bottom configuration shown conforms with current NSPI/ANSI suggested minimum standards for pools that are NOT approved for diving.



**KEYHOLE - FULL RADIUS  
STANDARD VIEW - 18' x 36'**

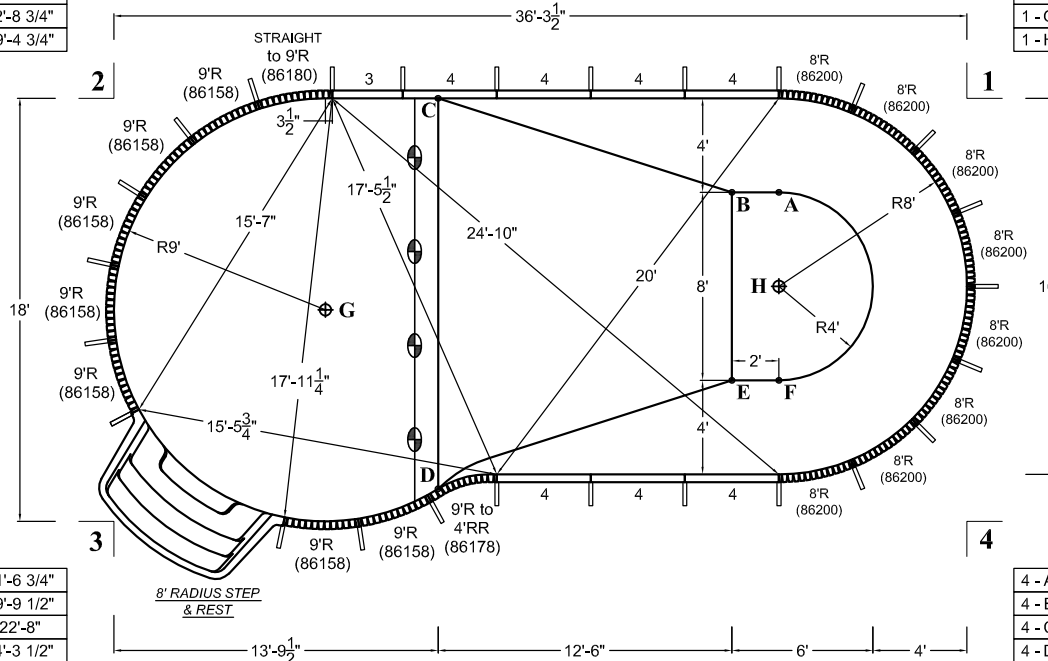
2 - A	28'-7"
2 - B	26'-7 1/4"
2 - C	13'-9 1/2"
2 - D	21'-7 1/4"
2 - E	28'-10 3/4"
2 - F	30'-8 3/4"
2 - G	12'-8 3/4"
2 - H	29'-4 3/4"

1 - 3	40'-6"
2 - 4	



1 - A	8'-11 1/4"
1 - B	10'-9 1/4"
1 - C	22'-6"
1 - D	27'-11 3/4"
1 - E	15'-7 1/2"
1 - F	14'-5"
1 - G	28'-8 3/4"
1 - H	11'-3 3/4"

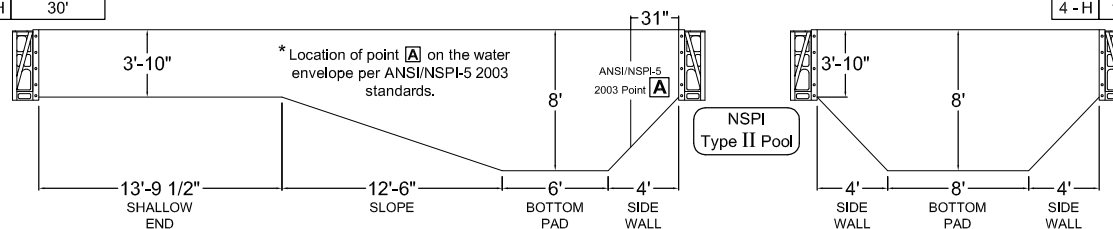
G - A	19'-11 1/4"
G - B	18'
G - C	10'-2 1/4"
G - D	9'
G - E	17'-6 1/2"
G - F	19'-6 1/4"
G - H	19'-3 3/4"



H - A	4'
H - B	4'-5 3/4"
H - C	16'-6 3/4"
H - D	16'-10 1/2"
H - E	4'-5 3/4"
H - F	4'
H - G	19'-3 3/4"

3 - A	31'-6 3/4"
3 - B	29'-9 1/2"
3 - C	22'-8"
3 - D	14'-3 1/2"
3 - E	26'-11 1/2"
3 - F	28'-11"
3 - G	12'-8 3/4"
3 - H	30'

4 - A	16'-1 1/2"
4 - B	17'-2 1/2"
4 - C	28'-9 3/4"
4 - D	22'-6 1/2"
4 - E	11'-8"
4 - F	10'
4 - G	28'-8 3/4"
4 - H	12'-9 3/4"



POOL SURFACE AREA	544.3 ft <sup>2</sup>	LINER SQ. FT.	653.25 ft <sup>2</sup>
POOL VOLUME	19050 gal	POOL PERIMETER	92'-5"
	72100 L		28,17 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM DESCRIPTION	PART #	
1	3' PLAIN PANEL	48108
6	4' PLAIN PANEL	48106
1	4' SKIMMER PANEL	48106S
17	VERSA-FLEX PANEL	48115
7	9'R PANEL STRAP SET	86158S
8	8' RADIUS STRAP SET	86200S
1	9'R to 4'RR STRAP SET	86178S
1	STRAIGHT to 9'R STRAP SET	86180S
442	PUSH NUTS	09115
26	BRACE SYSTEM COMPLETE	48146
1	8' RADIUS STEP & REST	07418RSNR48
14*	3/8"-16X HEX WASHER HEAD BOLT	148838
14*	3/8"-16 HEX WASHER HEAD NUT	149664
	CHANNEL-LOC SONOTUBE	86152
	4' STANDARD LIGHT PANEL	48106L

\* - use bolts at step connection

This configuration is only available with 8' Radius Step & Rest

1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 10" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.



**KEYHOLE - FULL RADIUS  
STANDARD VIEW - 20' x 40'**

POOL SURFACE AREA	→ 675.5 ft <sup>2</sup>	LINER SQ. FT.	→ 805,4167 ft <sup>2</sup>
POOL VOLUME	→ 23100 gal	POOL PERIMETER	→ 102'-7"
	87400 L		31,26 m

**DIVING PERMITTED ONLY FROM  
DESIGNATED DIVING AREA**

ITEM DESCRIPTION	PART #
1 1' PLAIN PANEL	48101
1 2' PLAIN PANEL	48102
7 4' PLAIN PANEL	48106
1 4' SKIMMER PANEL	48106S
19 VERSA-FLEX PANEL	48115
8 10'R PANEL STRAP SET	86273S
9 9'R PANEL STRAP SET	86158S
1 10'R to 4'RR STRAP SET	86182S
1 STRAIGHT to 10'R STRAP SET	86184S
494 PUSH NUTS	09115
30 BRACE SYSTEM COMPLETE	48146
1 8' RADIUS STEP & REST	07418RSNR48
14* 3/8"-16X HEX WASHER HEAD BOLT	148838
14* 3/8"-16 HEX WASHER HEAD NUT	149664
CHANNEL-LOC SONOTUBE	86152
VERSA-FLEX STANDARD LIGHT PANEL	48116L

H - A	5'
H - B	5'-1 1/4"
H - C	17'-6"
H - D	17'-6 1/2"
H - E	5'-1 1/4"
H - F	5'
H - G	21'-3 1/2"

2 - A	31'-6 1/4"
2 - B	30'-6 1/2"
2 - C	16'-3 1/4"
2 - D	24'-4 1/4"
2 - E	33'-4 1/4"
2 - F	34'-3 1/4"
2 - G	14'-1 3/4"
2 - H	32'-6 1/2"

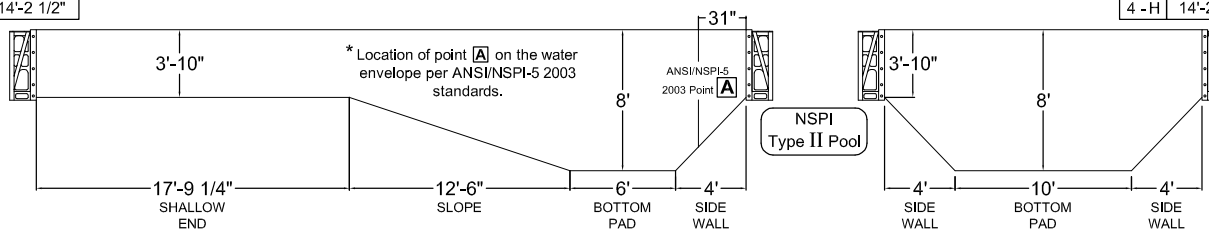
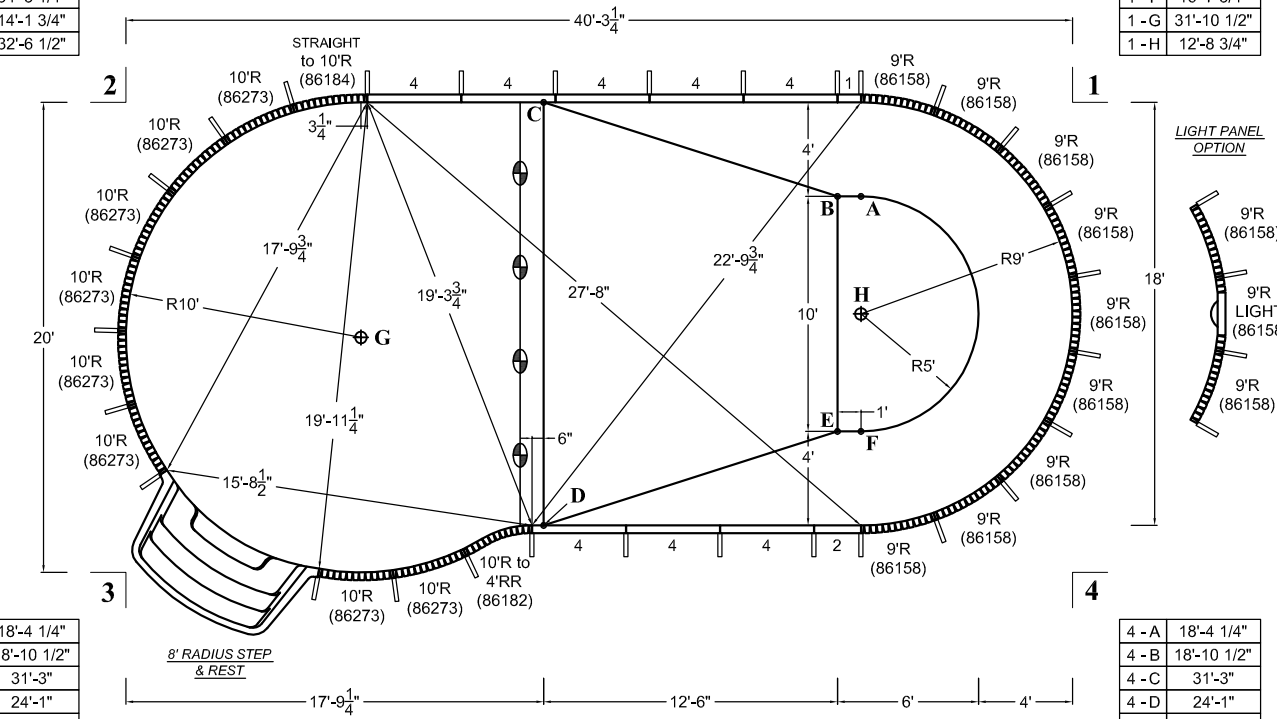
1 - 3	44'-11 1/2"
2 - 4	

1 - A	9'-10 1/4"
1 - B	10'-9 1/4"
1 - C	24"
1 - D	30'-0 3/4"
1 - E	17'-2 1/2"
1 - F	16'-7 3/4"
1 - G	31'-10 1/2"
1 - H	12'-8 3/4"

G - A	22'-1 1/4"
G - B	21'-1 3/4"
G - C	11'-9 3/4"
G - D	10'-3"
G - E	20'-8"
G - F	21'-7 3/4"
G - H	21'-3 1/2"

3 - A	18'-4 1/4"
3 - B	18'-10 1/2"
3 - C	31'-3"
3 - D	24'-1"
3 - E	11'-8"
3 - F	10'-9 3/4"
3 - G	31'-10 1/2"
3 - H	14'-2 1/2"

4 - A	18'-4 1/4"
4 - B	18'-10 1/2"
4 - C	31'-3"
4 - D	24'-1"
4 - E	11'-8"
4 - F	10'-9 3/4"
4 - G	31'-10 1/2"
4 - H	14'-2 1/2"



- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
- All inside pool dimensions are to be finished dimensions.
- Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

**KEYHOLE - FULL RADIUS  
REVERSE VIEW - 20' x 40'**

POOL SURFACE AREA →	675.5 ft <sup>2</sup>	LINER SQ. FT. →	805.4167 ft <sup>2</sup>
POOL VOLUME →	23100 gal	POOL PERIMETER →	102'-7"
	87400 L		31.26 m

**DIVING PERMITTED ONLY FROM  
DESIGNATED DIVING AREA**

ITEM DESCRIPTION	PART #
1' PLAIN PANEL	48101
2' PLAIN PANEL	48102
4' PLAIN PANEL	48106
4' SKIMMER PANEL	48106S
VERSA-FLEX PANEL	48115
10'R PANEL STRAP SET	86273S
9'R PANEL STRAP SET	86158S
4'RR to 10'R STRAP SET	86183S
10'R to STRAIGHT STRAP SET	86185S
PUSH NUTS	09115
BRACE SYSTEM COMPLETE	48146
8' RADIUS STEP & REST	07418RSNR48
3/8"-16X HEX WASHER HEAD BOLT	148838
3/8"-16 HEX WASHER HEAD NUT	149664
CHANNEL-LOC SONOTUBE	86152
VERSA-FLEX STANDARD LIGHT PANEL	48116L

\* - use bolts at  
step connection

This configuration is only available with  
8' Radius Step & Rest

- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1' away from the pool.
- All inside pool dimensions are to be finished dimensions.
- Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 10" to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

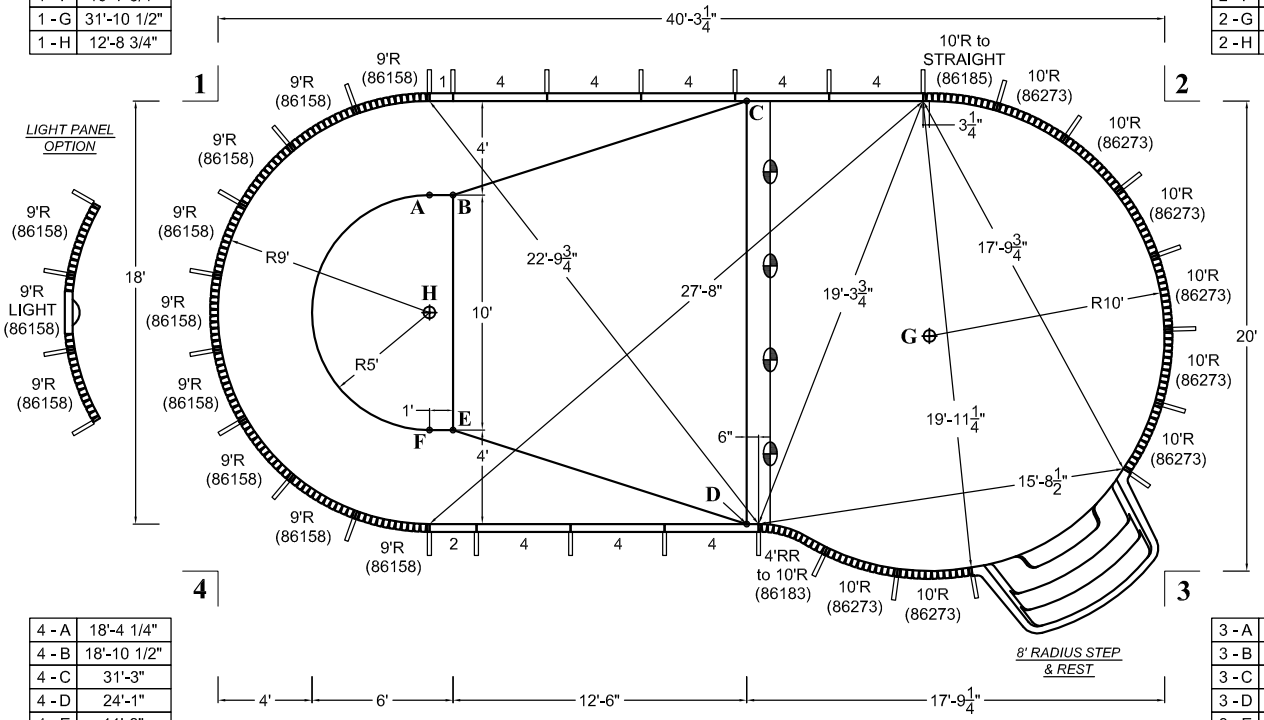
1 - A	9'-10 1/4"
1 - B	10'-9 1/4"
1 - C	24'
1 - D	30'-0 3/4"
1 - E	17'-2 1/2"
1 - F	16'-7 3/4"
1 - G	31'-10 1/2"
1 - H	12'-8 3/4"

1 - 3	44'-11 1/2"
2 - 4	

2 - A	31'-6 1/4"
2 - B	30'-6 1/2"
2 - C	16'-3 1/4"
2 - D	24'-4 1/4"
2 - E	33'-4 1/4"
2 - F	34'-3 1/4"
2 - G	14'-1 3/4"
2 - H	32'-6 1/2"

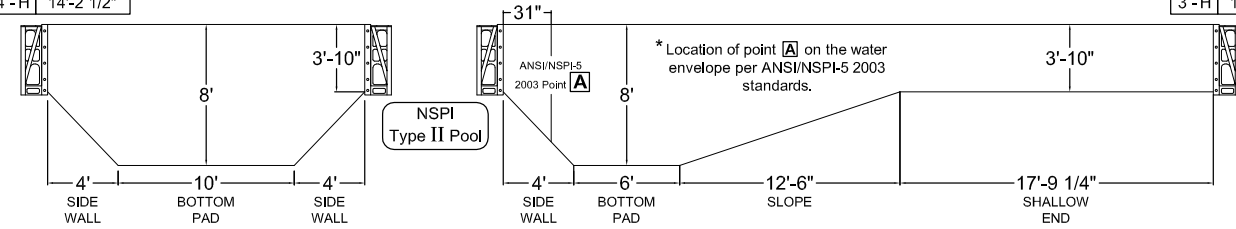
H - A	5'
H - B	5'-1 1/4"
H - C	17'-6"
H - D	17'-6 1/2"
H - E	5'-1 1/4"
H - F	5'
H - G	21'-3 1/2"

G - A	22'-1 1/4"
G - B	21'-1 3/4"
G - C	11'-9 3/4"
G - D	10'-3"
G - E	20'-8"
G - F	21'-7 3/4"
G - H	21'-3 1/2"



4 - A	18'-4 1/4"
4 - B	18'-10 1/2"
4 - C	31'-3"
4 - D	24'-1"
4 - E	11'-8"
4 - F	10'-9 3/4"
4 - G	31'-10 1/2"
4 - H	14'-2 1/2"

3 - A	18'-4 1/4"
3 - B	18'-10 1/2"
3 - C	31'-3"
3 - D	24'-1"
3 - E	11'-8"
3 - F	10'-9 3/4"
3 - G	31'-10 1/2"
3 - H	14'-2 1/2"



NSPI  
Type II Pool

ANSI/NSPI-5  
2003 Point A



**KIDNEY RIGHT**  
14' x 28'

POOL SURFACE AREA	→ 364.9 ft <sup>2</sup>	LINER SQ. FT.	→ 395.50 ft <sup>2</sup>
POOL VOLUME	→ 10500 gal	POOL PERIMETER	→ 74'-2"
	→ 39700 L		→ 22.60 m

**NO DIVING ALLOWED IN THIS POOL**

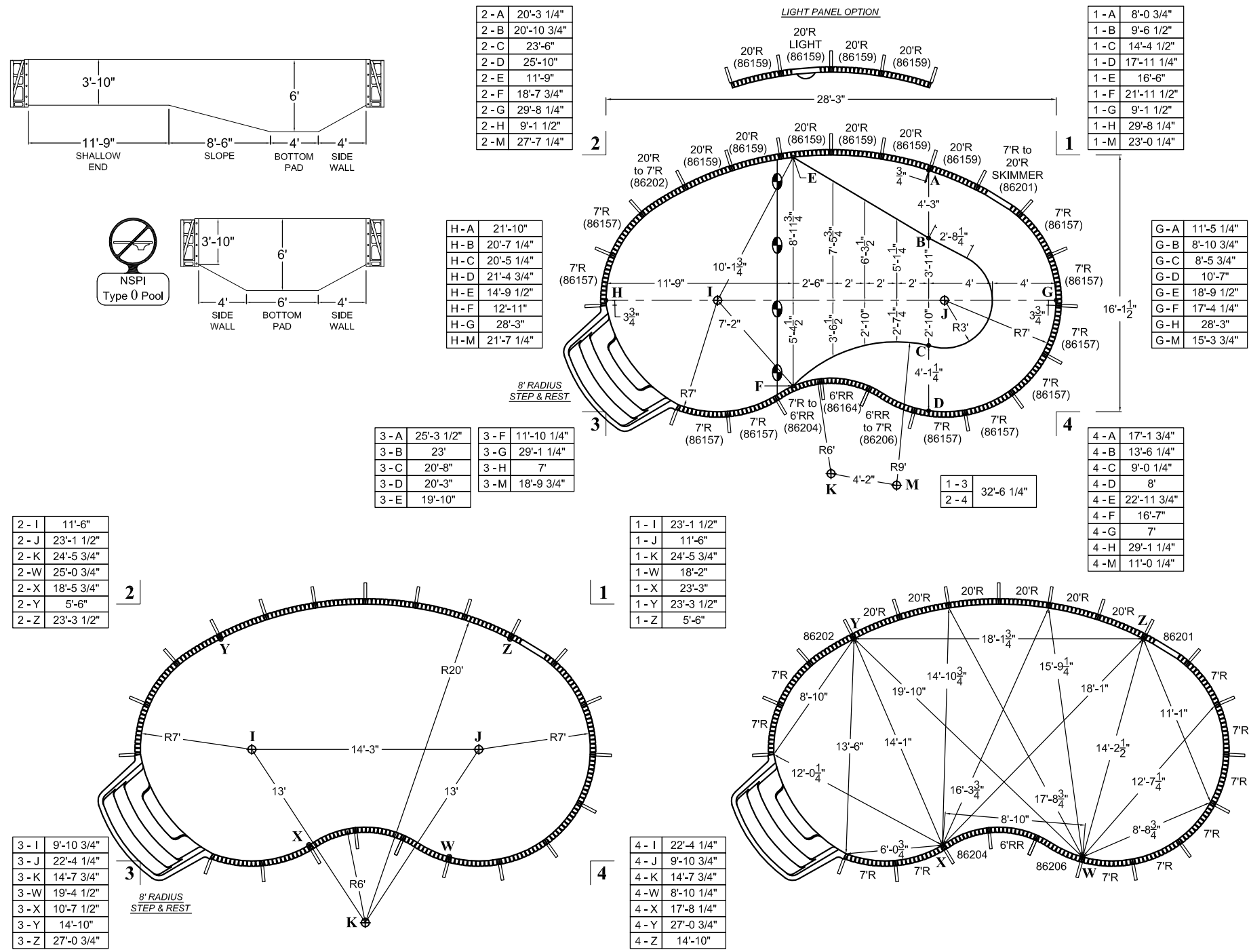
ITEM DESCRIPTION	PART #
1 VERSA-FLEX SKIMMER PANEL	48116S
20 VERSA-FLEX PANEL	48115
10 7' RADIUS STRAP SET	86157S
6 20' RADIUS STRAP SET	86159S
1 6' REVERSE RADIUS STRAP SET	86164S
1 7'R to 20'R STRAP SET	86201S
1 20'R to 7'R STRAP SET	86202S
1 7'R to 6'RR STRAP SET	86204S
1 6'RR to 7'R STRAP SET	86206S
546 PUSH NUTS	09115
22 BRACE SYSTEM COMPLETE	48146
1 8' RADIUS STEP & REST	07418RSNR48
14" 3/8"-16X HEX WASHER HEAD BOLT	148838
14" 3/8"-16 HEX WASHER HEAD NUT	149664
CHANNEL-LOC SONOTUBE	86152
VERSA-FLEX STANDARD LIGHT PANEL	48116L

\* - use bolts at step connection

This configuration is only available with 8' Radius Step & Res

1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1' away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI/ANSI suggested minimum standards for pools that are NOT approved for diving.



1 - A	8'-0 3/4"
1 - B	9'-6 1/2"
1 - C	14'-4 1/2"
1 - D	17'-11 1/4"
1 - E	16'-6"
1 - F	21'-11 1/2"
1 - G	9'-1 1/2"
1 - H	29'-8 1/4"
1 - M	23'-0 1/4"

G - A	11'-5 1/4"
G - B	8'-10 3/4"
G - C	8'-5 3/4"
G - D	10'-7"
G - E	18'-9 1/2"
G - F	17'-4 1/4"
G - H	28'-3"
G - M	15'-3 3/4"

4 - A	17'-1 3/4"
4 - B	13'-6 1/4"
4 - C	9'-0 1/4"
4 - D	8'
4 - E	22'-11 3/4"
4 - F	16'-7"
4 - G	7'
4 - H	29'-1 1/4"
4 - M	11'-0 1/4"

2 - A	20'-3 1/4"
2 - B	20'-10 3/4"
2 - C	23'-6"
2 - D	25'-10"
2 - E	11'-9"
2 - F	18'-7 3/4"
2 - G	29'-8 1/4"
2 - H	9'-1 1/2"
2 - M	27'-7 1/4"

H - A	21'-10"
H - B	20'-7 1/4"
H - C	20'-5 1/4"
H - D	21'-4 3/4"
H - E	14'-9 1/2"
H - F	12'-11"
H - G	28'-3"
H - M	21'-7 1/4"

3 - A	25'-3 1/2"
3 - B	23'
3 - C	20'-8"
3 - D	20'-3"
3 - E	19'-10"
3 - F	11'-10 1/4"
3 - G	29'-1 1/4"
3 - H	7'
3 - M	18'-9 3/4"

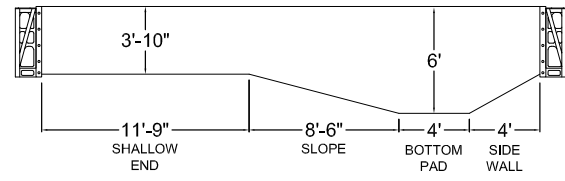
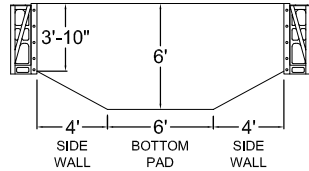
1 - I	23'-1 1/2"
1 - J	11'-6"
1 - K	24'-5 3/4"
1 - W	18'-2"
1 - X	23'-3"
1 - Y	23'-3 1/2"
1 - Z	5'-6"

4 - I	22'-4 1/4"
4 - J	9'-10 3/4"
4 - K	14'-7 3/4"
4 - W	8'-10 1/4"
4 - X	17'-8 1/4"
4 - Y	27'-0 3/4"
4 - Z	14'-10"

2 - I	11'-6"
2 - J	23'-1 1/2"
2 - K	24'-5 3/4"
2 - W	25'-0 3/4"
2 - X	18'-5 3/4"
2 - Y	5'-6"
2 - Z	23'-3 1/2"

3 - I	9'-10 3/4"
3 - J	22'-4 1/4"
3 - K	14'-7 3/4"
3 - W	19'-4 1/2"
3 - X	10'-7 1/2"
3 - Y	14'-10"
3 - Z	27'-0 3/4"

8' RADIUS STEP & REST





JANUARY  
2011

**MATRIX [PLUS]**  
POOL SYSTEM

**KIDNEY LEFT**  
16' x 32'

POOL SURFACE AREA	469.3 ft <sup>2</sup>	LINER SQ. FT.	510,6667 ft <sup>2</sup>
POOL VOLUME	15100 gal	POOL PERIMETER	83'-5"
	57200 L		25.42 m

**NO DIVING ALLOWED IN THIS POOL**

ITEM DESCRIPTION	PART #
1 VERSA-FLEX SKIMMER PANEL	48116S
23 VERSA-FLEX PANEL	48115
7 24' RADIUS STRAP SET	86160S
11 8' RADIUS STRAP SET	86200S
2 10' REVERSE RADIUS STRAP SET	86166S
1 8'R to 24'R STRAP SET	86207S
1 24'R to 8'R STRAP SET	86209S
1 10'RR to 8'R STRAP SET	86211S
1 8'R to 10'RR STRAP SET	86213S
624 PUSH NUTS	09115
25 BRACE SYSTEM COMPLETE	48146
1 8' RADIUS STEP & REST	07418RSNR48
14* 3/8"-16X HEX WASHER HEAD BOLT	148838
14* 3/8"-16 HEX WASHER HEAD NUT	149664
CHANNEL-LOC SONOTUBE	86152
VERSA-FLEX STANDARD LIGHT PANEL	48116L

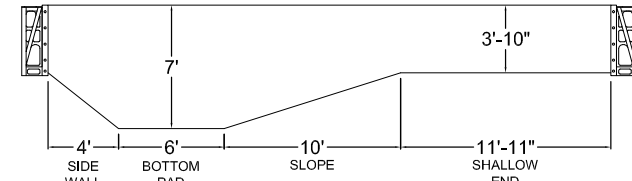
\* - use bolts at step connection

This configuration is only available with 8' Radius Step & Res

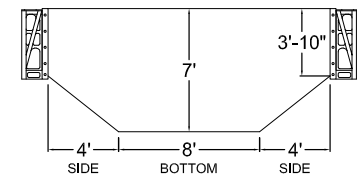
- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
- All inside pool dimensions are to be finished dimensions. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI/ANSI suggested minimum standards for pools that are NOT approved for diving.

2-A	21'-11 1/4"
2-B	22'-5 1/2"
2-C	25'-9 1/2"
2-D	28'-3 1/2"
2-E	11'-11 1/4"
2-F	20'-10 1/4"
2-G	33'-6"
2-H	10'-1 1/2"
2-M	30'-7"



H-A	23'-10"
H-B	22'-6 1/2"
H-C	22'-2 1/4"
H-D	23'-3"
H-E	15'-5"
H-F	13'-10"
H-G	31'-11"
H-M	23'-9 1/4"



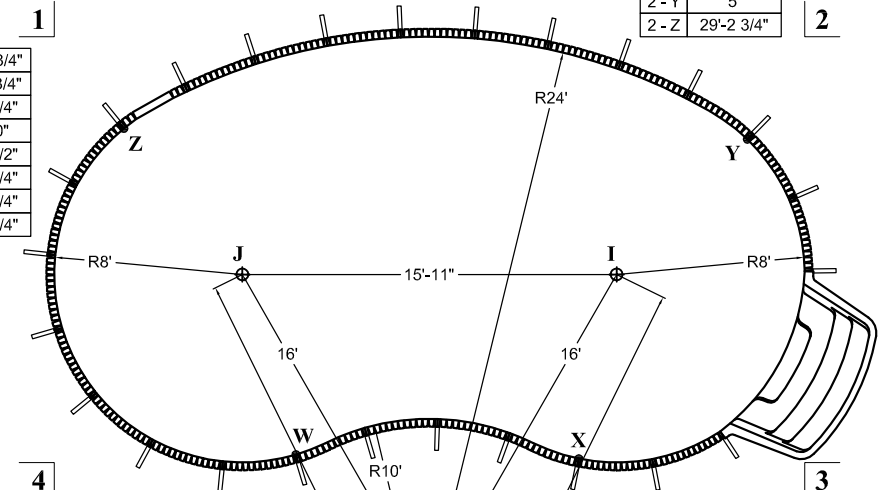
8' RADIUS STEP & REST

3-A	27'-11 3/4"
3-B	25'-7 1/4"
3-C	22'-4 3/4"
3-D	21'-11"
3-E	21'-5"

3-F	11'-11 1/2"
3-G	32'-11"
3-H	8'
3-M	20'-5"

2-I	12'-10 3/4"
2-J	25'-11 3/4"
2-K	30'-8 3/4"
2-L	28'-10"
2-W	28'-0 1/4"
2-X	20'-4 1/2"
2-Y	5'
2-Z	29'-2 3/4"

1-I	25'-11 3/4"
1-J	12'-10 3/4"
1-K	30'-8 3/4"
1-L	28'-10"
1-W	20'-6 1/2"
1-X	28'-7 3/4"
1-Y	29'-9 3/4"
1-Z	4'-10 3/4"

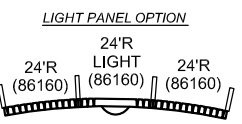


4-I	25'-2 3/4"
4-J	11'-3 3/4"
4-K	17'-11"
4-L	17'
4-W	10'-3 1/2"
4-X	22'-3 3/4"
4-Y	32'-6 1/2"
4-Z	14'-6 1/4"

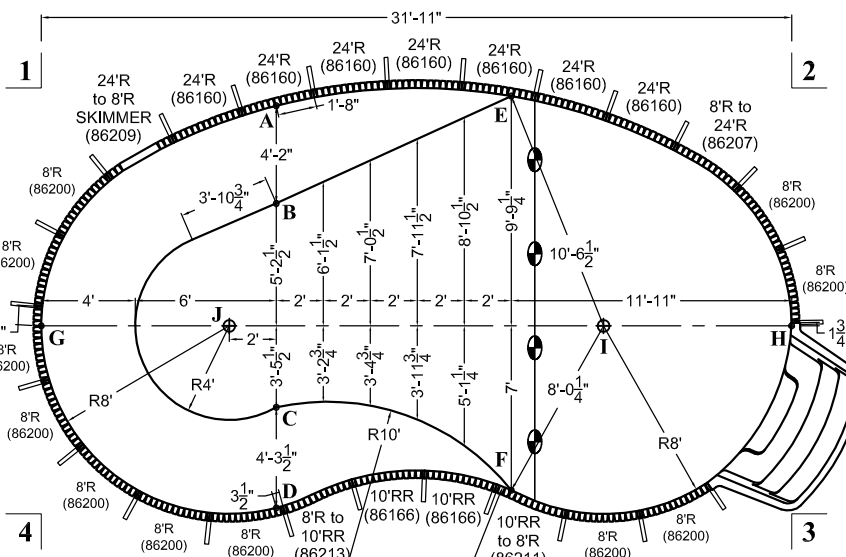
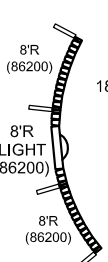
3-I	11'-3 3/4"
3-J	25'-2 3/4"
3-K	17'-11"
3-L	17'
3-W	21'-7 3/4"
3-X	9'-7 1/4"
3-Y	13'-11 3/4"
3-Z	32'-3 1/4"

1-A	10'-0 1/4"
1-B	11'-1 3/4"
1-C	16'-10 1/2"
1-D	20'-5 3/4"
1-E	20'
1-F	26'-4"
1-G	10'-1 1/2"
1-H	33'-6"
1-M	26'-4"

1-3	36'-8 1/2"
2-4	

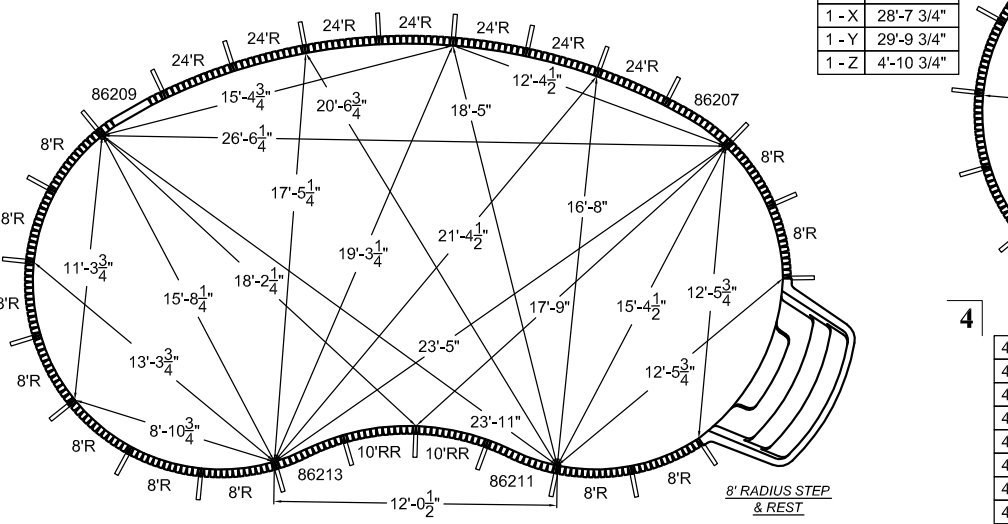


LIGHT PANEL OPTION



4-A	20'-0 1/2"
4-B	16'-6 3/4"
4-C	10'-11 3/4"
4-D	10'
4-E	26'-9"
4-F	20'-0 1/4"
4-G	8'
4-H	32'-11"
4-M	13'-3"

G-A	13'-8 1/2"
G-B	11'-3 1/4"
G-C	10'-7"
G-D	12'-7 3/4"
G-E	22'-3 1/4"
G-F	21'-2 1/4"
G-H	31'-11"
G-M	17'-11 3/4"



8' RADIUS STEP & REST







**KIDNEY RIGHT**  
20' x 38'

POOL SURFACE AREA	643.5 ft <sup>2</sup> 59.8 m <sup>2</sup>	LINER SQ. FT.	759.1667 ft <sup>2</sup>
POOL VOLUME	22300 gal 84400 L	POOL PERIMETER	99'-2" 30.22 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

8' RADIUS STEP

ITEM DESCRIPTION	PART #
1	VERSA-FLEX SKIMMER PANEL 48116S
28	VERSA-FLEX PANEL 48115
10	27' RADIUS STRAP SET 86161S
9	10' RADIUS STRAP SET 86273S
4	8' RADIUS STRAP SET 86200S
3	10' REVERSE RADIUS STRAP SET 86166S
1	27'R to 8'R STRAP SET 86216S
1	10'R to 27'R STRAP SET 86218S
1	10'RR to 10'R STRAP SET 86220S
754	PUSH NUTS 09115
30	BRACE SYSTEM COMPLETE 48146
1	8' RADIUS STEP & REST 07418RSNR48
14*	3/8"-16X HEX WASHER HEAD BOLT 148838
14*	3/8"-16 HEX WASHER HEAD NUT 149664
	CHANNEL-LOC SONOTUBE 86152
	VERSA-FLEX STANDARD LIGHT PANEL 48116L

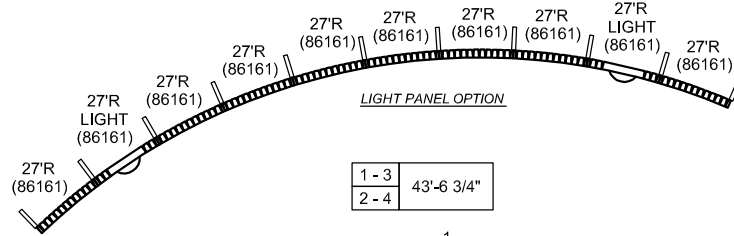
\* - use bolts at step connection

This configuration is only available with 8' Radius Step & Res

- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
- All inside pool dimensions are to be finished dimensions.
- Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 10" to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

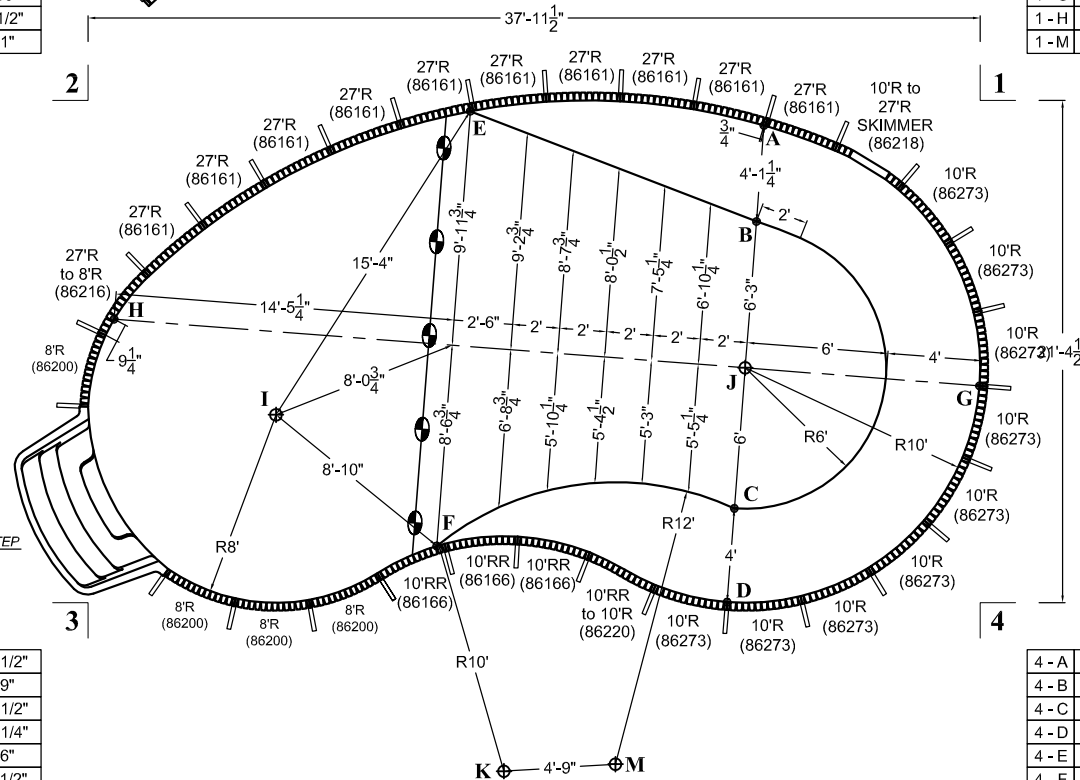
The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

2 - A	28'-9 1/4"
2 - B	28'-10 3/4"
2 - C	32'-6 1/4"
2 - D	34'-7"
2 - E	16'-3 1/4"
2 - F	24'-1"
2 - G	39'-10"
2 - H	9'-4 1/2"
2 - M	36'-1"



1 - A	9'-3 1/4"
1 - B	10'-10"
1 - C	20'-3 1/4"
1 - D	23'-11"
1 - E	21'-8 1/2"
1 - F	29'-10 3/4"
1 - G	12'-1 3/4"
1 - H	38'
1 - M	32'-2 3/4"

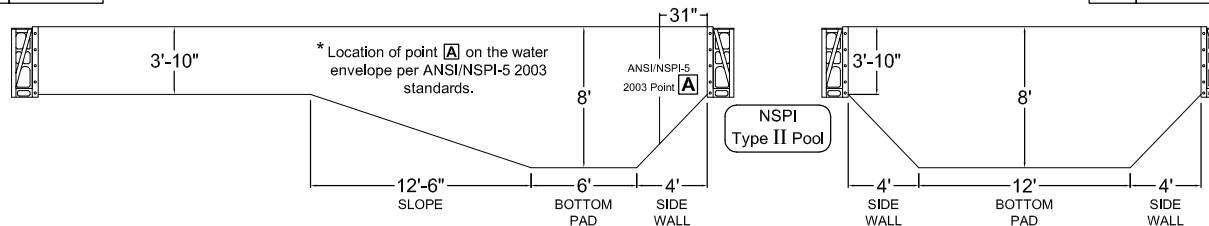
H - A	28'-10 1/4"
H - B	27'-7 3/4"
H - C	27'-7"
H - D	28'-8 3/4"
H - E	17'-6 1/2"
H - F	16'-9 1/4"
H - G	36'-11 1/4"
H - M	28'-6 1/4"



G - A	14'-4 3/4"
G - B	11'-9 1/2"
G - C	11'-8"
G - D	14'-1 3/4"
G - E	24'-7 1/2"
G - F	24'-1"
G - H	36'-11 1/4"
G - M	22'-4"

3 - A	35'-2 1/2"
3 - B	32'-9"
3 - C	27'-9 1/2"
3 - D	27'-2 1/4"
3 - E	26'-6"
3 - F	15'-0 1/2"
3 - G	39'-0 1/2"
3 - H	12'-1 1/2"
3 - M	23'-5 3/4"

4 - A	22'-3 3/4"
4 - B	18'-9 3/4"
4 - C	11'-2 1/2"
4 - D	10'-9 1/4"
4 - E	30'-1 3/4"
4 - F	23'-3"
4 - G	9'-2 3/4"
4 - H	38'-9 1/4"
4 - M	16'-11 1/2"



\* Location of point A on the water envelope per ANSI/NSPI-5 2003 standards.

ANSI/NSPI 2003 Point A

NSPI Type II Pool



**MOUNTAIN LAKE STANDARD VIEW**  
20' x 33'

2 - A	22'-9 3/4"
2 - B	23'-10 1/4"
2 - C	27'-5"
2 - D	30'-0 1/2"
2 - E	12'-8"
2 - F	22'-5 1/2"
2 - G	34'-9 1/4"
2 - H	12'-0 1/4"
2 - O	29'-11 1/2"

1 - 3	38'-3 1/4"
2 - 4	

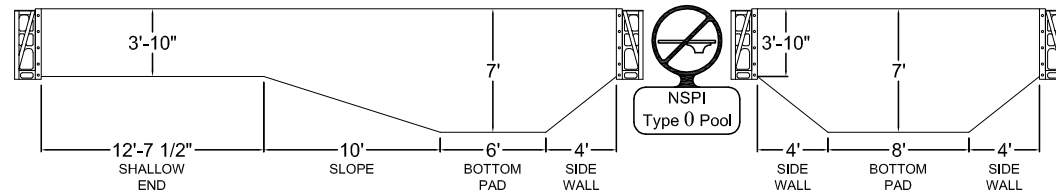
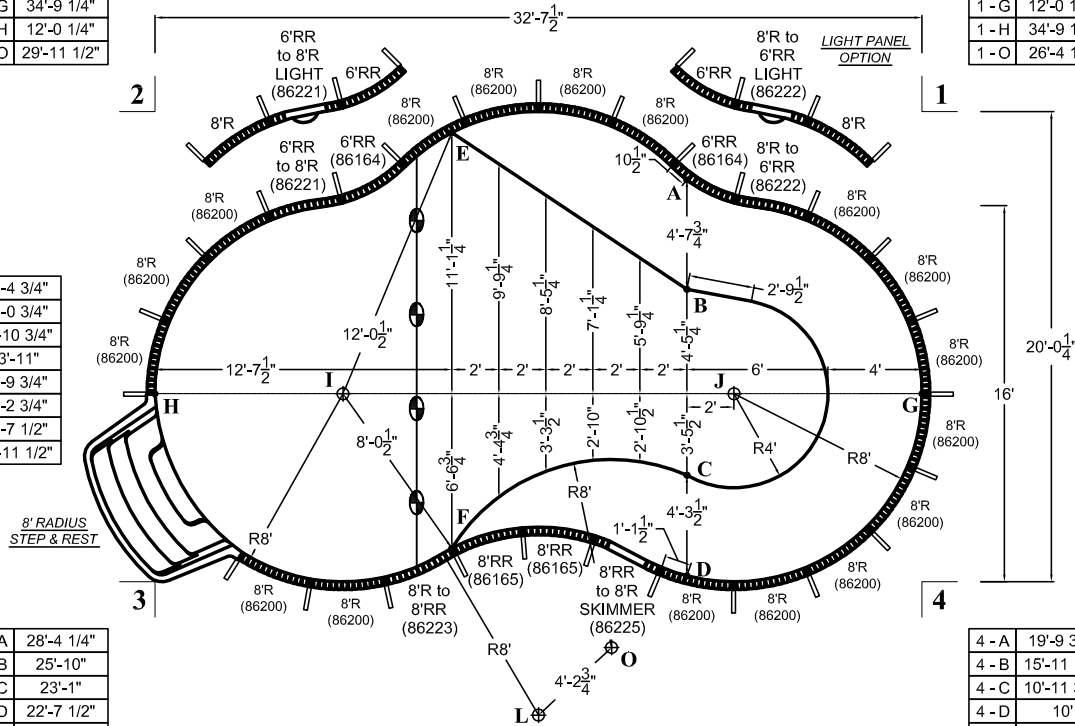
1 - A	10'-5"
1 - B	12'-6 1/2"
1 - C	18'-5"
1 - D	22'-1 3/4"
1 - E	20'-0 1/4"
1 - F	27'-3 1/2"
1 - G	12'-0 1/4"
1 - H	34'-9 1/4"
1 - O	26'-4 1/4"

H - A	24'-4 3/4"
H - B	23'-0 3/4"
H - C	22'-10 3/4"
H - D	23'-11"
H - E	16'-9 3/4"
H - F	14'-2 3/4"
H - G	32'-7 1/2"
H - O	29'-11 1/2"

G - A	13'-6 1/4"
G - B	10'-11 1/4"
G - C	10'-7"
G - D	12'-7 3/4"
G - E	22'-10 1/2"
G - F	21'-0 1/2"
G - H	32'-7 1/2"
G - O	17'-0 3/4"

3 - A	28'-4 1/4"
3 - B	25'-10"
3 - C	23'-1"
3 - D	22'-7 1/2"
3 - E	22'-11"
3 - F	12'-8 1/2"
3 - G	33'-7 1/4"
3 - H	8'
3 - O	19'-7 1/2"

4 - A	19'-9 3/4"
4 - B	15'-11 1/2"
4 - C	10'-11 3/4"
4 - D	10'
4 - E	27'-8"
4 - F	20'-0 1/2"
4 - G	8'
4 - H	33'-7 1/4"
4 - O	13'-6"



POOL SURFACE AREA	488.9 ft <sup>2</sup>	LINER SQ. FT.	522.00 ft <sup>2</sup>
POOL VOLUME	15550 gal	POOL PERIMETER	86'-7"
	58900 L		26.39 m

**NO DIVING ALLOWED IN THIS POOL**

ITEM DESCRIPTION	PART #
1 VERSA-FLEX SKIMMER PANEL	48116S
24 VERSA-FLEX PANEL	48115
2 8' REVERSE RADIUS PANEL STRAP	86165S
2 6' REVERSE RADIUS PANEL STRAP	86164S
17 8' RADIUS PANEL STRAP	86200S
1 6'RR to 8'R STRAP SET	86221S
1 8'R to 6'RR STRAP SET	86222S
1 8'R to 8'RR STRAP SET	86223S
1 8'RR to 8'R STRAP SET	86225S
650 PUSH NUTS	09115
26 BRACE SYSTEM COMPLETE	48146
1 8' RADIUS STEP & REST	07418RSNR48
14* 3/8"-16X HEX WASHER HEAD BOLT	148838
14* 3/8"-16 HEX WASHER HEAD NUT	149664
CHANNEL-LOC SONOTUBE	86152
VERSA-FLEX STANDARD LIGHT PANEL	48116L

\* - use bolts at step connection

This configuration is only available with 8' Radius Step & Rest.

- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
- All inside pool dimensions are to be finished dimensions.
- Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

JANUARY  
2011

**MATRIX** [PLUS]  
POOL SYSTEM

**MOUNTAIN LAKE STANDARD VIEW**  
20' x 33'

POOL SURFACE AREA	→ 488.9 ft <sup>2</sup>	LINER SQ. FT.	→ 522.00 ft <sup>2</sup>
POOL VOLUME	→ 15550 gal	POOL PERIMETER	→ 86'-7"
	58900 L		26.39 m

**NO DIVING ALLOWED IN THIS POOL**

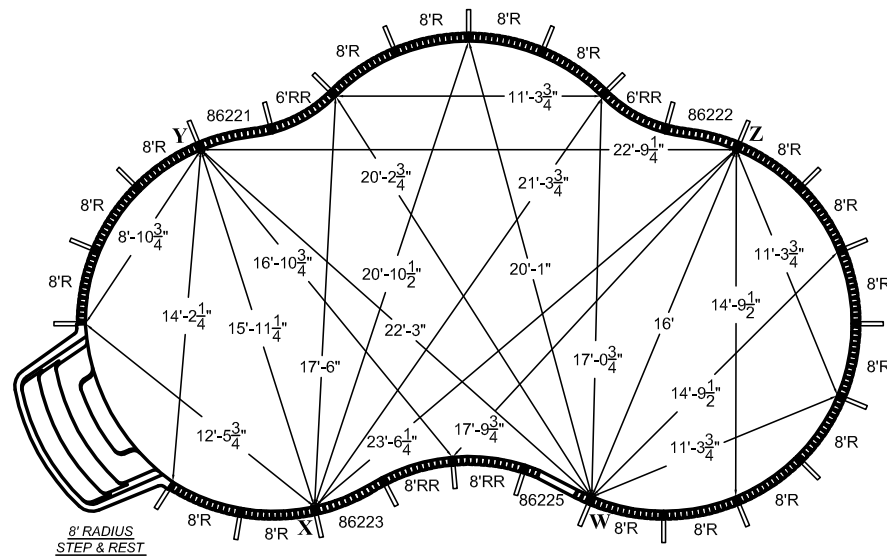
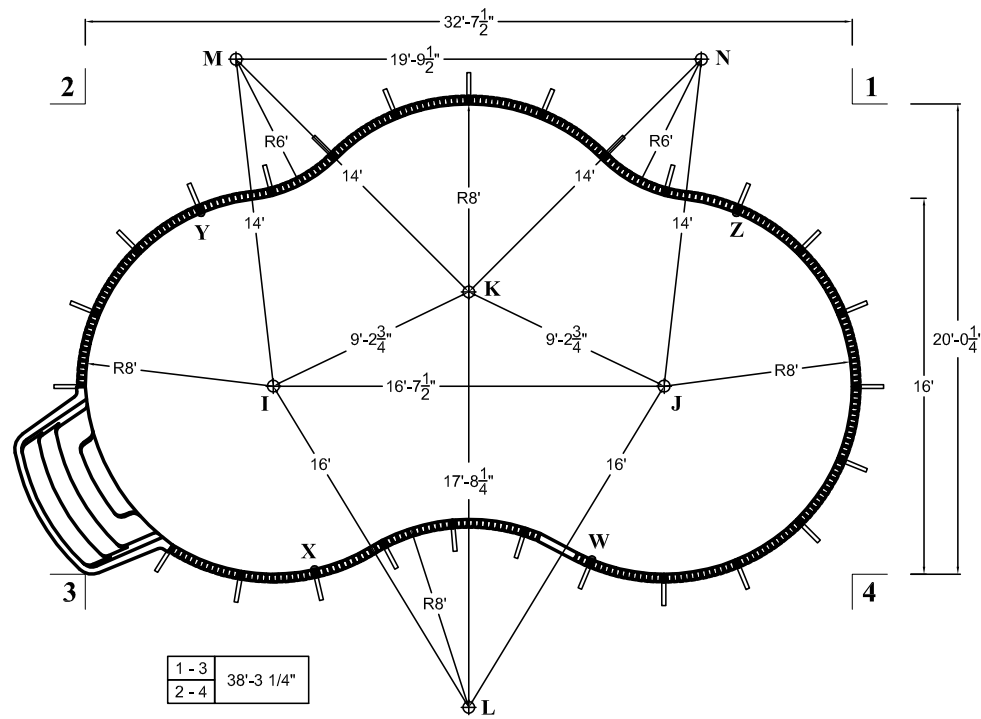
2 - I	14'-5 1/4"
2 - J	27'-4 3/4"
2 - K	18'-2"
2 - L	30'-5"
2 - M	6'-8 1/4"
2 - N	26'-3 1/2"
2 - W	29'
2 - X	22'-1"
2 - Y	6'-9"
2 - Z	28'-1"

3 - I	11'-3 3/4"
3 - J	25'-10 3/4"
3 - K	20'-3"
3 - L	17'-3 1/4"
3 - M	22'-10"
3 - N	34'-2"
3 - W	21'-6 3/4"
3 - X	9'-9"
3 - Y	16'-1 3/4"
3 - Z	31'-8 1/4"

1 - 3	38'-3 1/4"
2 - 4	

1 - I	27'-4 3/4"
1 - J	14'-5 1/4"
1 - K	18'-2"
1 - L	30'-5"
1 - M	26'-3 1/2"
1 - N	6'-8 1/4"
1 - W	22'-4"
1 - X	30'-3 1/4"
1 - Y	28'-1"
1 - Z	6'-9"

4 - I	25'-10 3/4"
4 - J	11'-3 3/4"
4 - K	20'-3"
4 - L	17'-3 1/4"
4 - M	34'-2"
4 - N	22'-10"
4 - W	11'-1"
4 - X	22'-10 1/2"
4 - Y	31'-8 1/4"
4 - Z	16'-1 3/4"



1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1' away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 10' to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI/ANSI suggested minimum standards for pools that are NOT approved for diving.



**MOUNTAIN LAKE REVERSE VIEW**  
20' x 33'

POOL SURFACE AREA	488.9 ft <sup>2</sup>	LINER SQ. FT.	522.00 ft <sup>2</sup>
POOL VOLUME	15550 gal	POOL PERIMETER	86'-7"
	58900 L		26.39 m

**NO DIVING ALLOWED IN THIS POOL**

ITEM DESCRIPTION	PART #
1 VERSA-FLEX SKIMMER PANEL	48116S
24 VERSA-FLEX PANEL	48115
2 8' REVERSE RADIUS PANEL STRAP	86165S
2 6' REVERSE RADIUS PANEL STRAP	86164S
17 8' RADIUS PANEL STRAP	86200S
1 6'RR to 8'R STRAP SET	86221S
1 8'R to 6'RR STRAP SET	86222S
1 8'R to 8'RR STRAP SET	86223S
1 8'RR to 8'R STRAP SET	86225S
650 PUSH NUTS	09115
26 BRACE SYSTEM COMPLETE	48146
1 8' RADIUS STEP & REST	07418RSNR48
14* 3/8"-16X HEX WASHER HEAD BOLT	148838
14* 3/8"-16X HEX WASHER HEAD NUT	149664
H-G CHANNEL-LOC SONOTUBE	86152
VERSA-FLEX STANDARD LIGHT PANEL	48116L

\* - use bolts at step connection

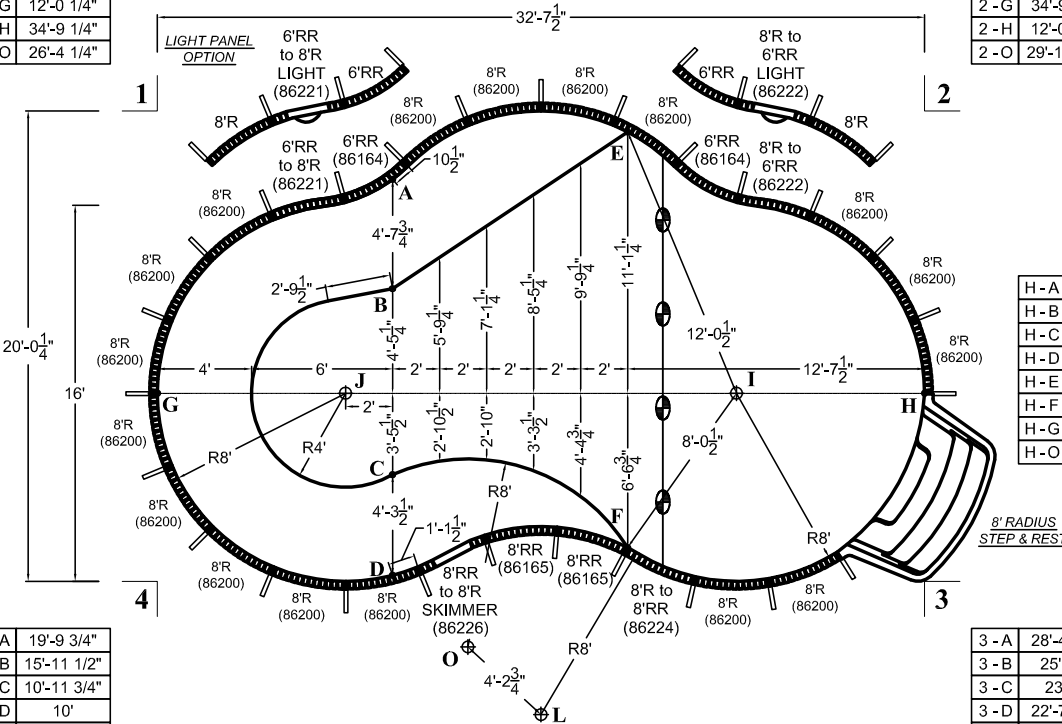
This configuration is only available with 8' Radius Step & Rest.

1 - A	10'-5"
1 - B	12'-6 1/2"
1 - C	18'-5"
1 - D	22'-1 3/4"
1 - E	20'-0 1/4"
1 - F	27'-3 1/2"
1 - G	12'-0 1/4"
1 - H	34'-9 1/4"
1 - O	26'-4 1/4"

1 - 3	38'-3 1/4"
2 - 4	

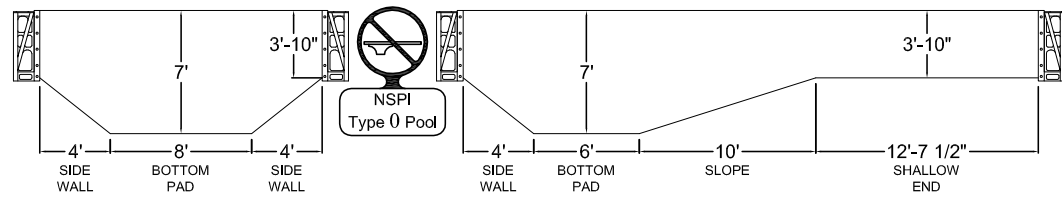
2 - A	22'-9 3/4"
2 - B	23'-10 1/4"
2 - C	27'-5"
2 - D	30'-0 1/2"
2 - E	12'-8"
2 - F	22'-5 1/2"
2 - G	34'-9 1/4"
2 - H	12'-0 1/4"
2 - O	29'-11 1/2"

G - A	13'-6 1/4"
G - B	10'-11 1/4"
G - C	10'-7"
G - D	12'-7 3/4"
G - E	22'-10 1/2"
G - F	21'-0 1/2"
G - H	32'-7 1/2"
G - O	17'-0 3/4"



4 - A	19'-9 3/4"
4 - B	15'-11 1/2"
4 - C	10'-11 3/4"
4 - D	10'
4 - E	27'-8"
4 - F	20'-0 1/2"
4 - G	8'
4 - H	33'-7 1/4"
4 - O	13'-6"

3 - A	28'-4 1/4"
3 - B	25'-10"
3 - C	23'-1"
3 - D	22'-7 1/2"
3 - E	22'-11"
3 - F	12'-8 1/2"
3 - G	33'-7 1/4"
3 - H	8'
3 - O	19'-7 1/2"



- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
- All inside pool dimensions are to be finished dimensions.
- Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

JANUARY  
2011

**MATRIX [PLUS]**  
POOL SYSTEM

**MOUNTAIN LAKE REVERSE VIEW**  
20' x 33'

POOL SURFACE AREA →	488.9 ft <sup>2</sup>	LINER SQ. FT. →	522.00 ft <sup>2</sup>
	45.4 m <sup>2</sup>		
POOL VOLUME →	15550 gal	POOL PERIMETER →	86'-7"
	58900 L		26.39 m

**NO DIVING ALLOWED IN THIS POOL**

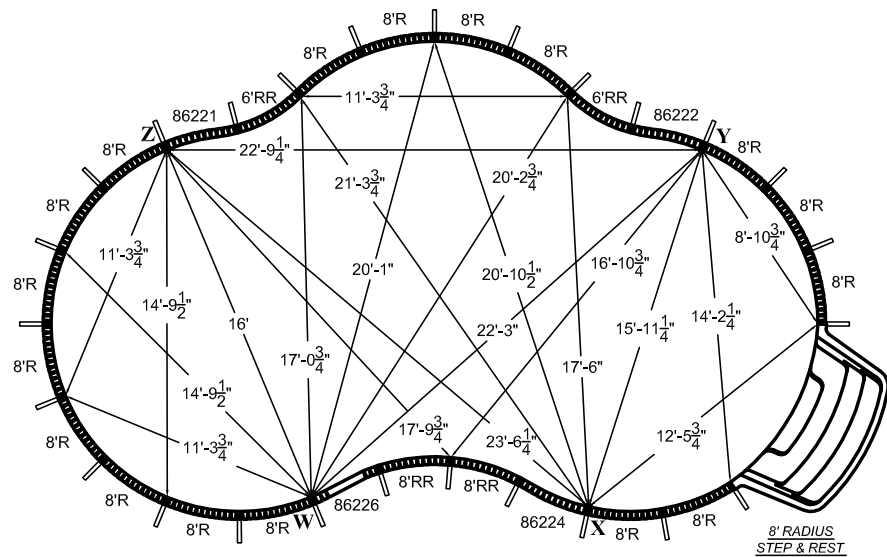
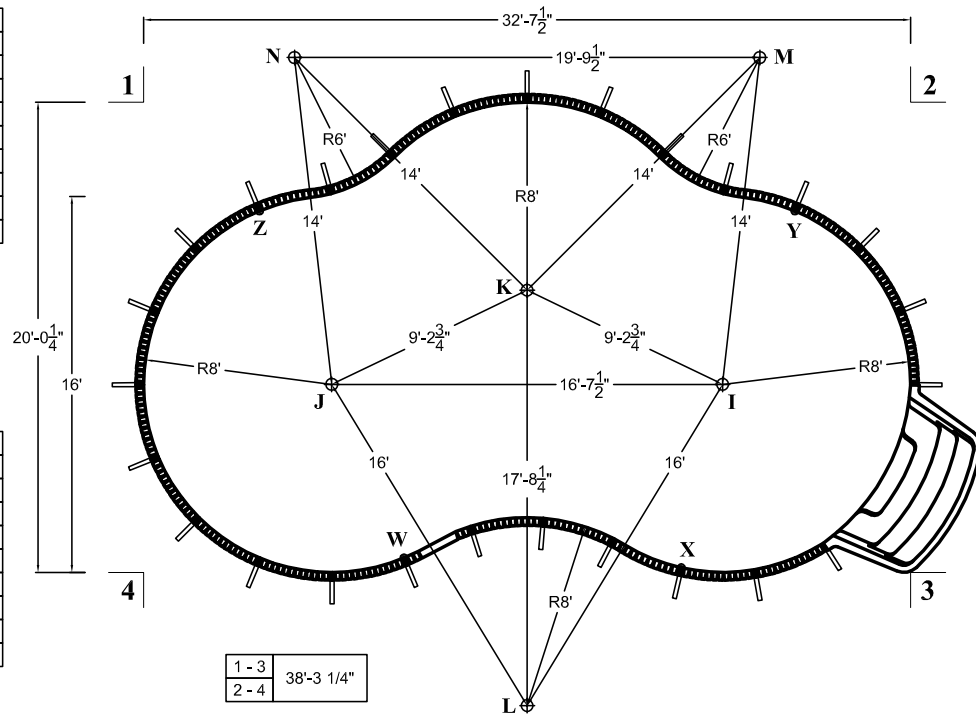
1 - I	27'-4 3/4"
1 - J	14'-5 1/4"
1 - K	18'-2"
1 - L	30'-5"
1 - M	26'-3 1/2"
1 - N	6'-8 1/4"
1 - W	22'-4"
1 - X	30'-3 1/4"
1 - Y	28'-1"
1 - Z	6'-9"

2 - I	14'-5 1/4"
2 - J	27'-4 3/4"
2 - K	18'-2"
2 - L	30'-5"
2 - M	6'-8 1/4"
2 - N	26'-3 1/2"
2 - W	29'
2 - X	22'-1"
2 - Y	6'-9"
2 - Z	28'-1"

4 - I	25'-10 3/4"
4 - J	11'-3 3/4"
4 - K	20'-3"
4 - L	17'-3 1/4"
4 - M	34'-2"
4 - N	22'-10"
4 - W	11'-1"
4 - X	22'-10 1/2"
4 - Y	31'-8 1/4"
4 - Z	16'-1 3/4"

3 - I	11'-3 3/4"
3 - J	25'-10 3/4"
3 - K	20'-3"
3 - L	17'-3 1/4"
3 - M	22'-10"
3 - N	34'-2"
3 - W	21'-6 3/4"
3 - X	9'-9"
3 - Y	16'-1 3/4"
3 - Z	31'-8 1/4"

1 - 3	38'-3 1/4"
2 - 4	



1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1' away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 10" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI/ANSI suggested minimum standards for pools that are NOT approved for diving.



JANUARY  
2011

**MATRIX [PLUS]**  
POOL SYSTEM

**MOUNTAIN LAKE STANDARD VIEW**  
21' x 35'

POOL SURFACE AREA →	540.1 ft <sup>2</sup>	LINER SQ. FT. →	564.6667 ft <sup>2</sup>
POOL VOLUME →	18650 gal	POOL PERIMETER →	92'-11"
	70600 L		28.32 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

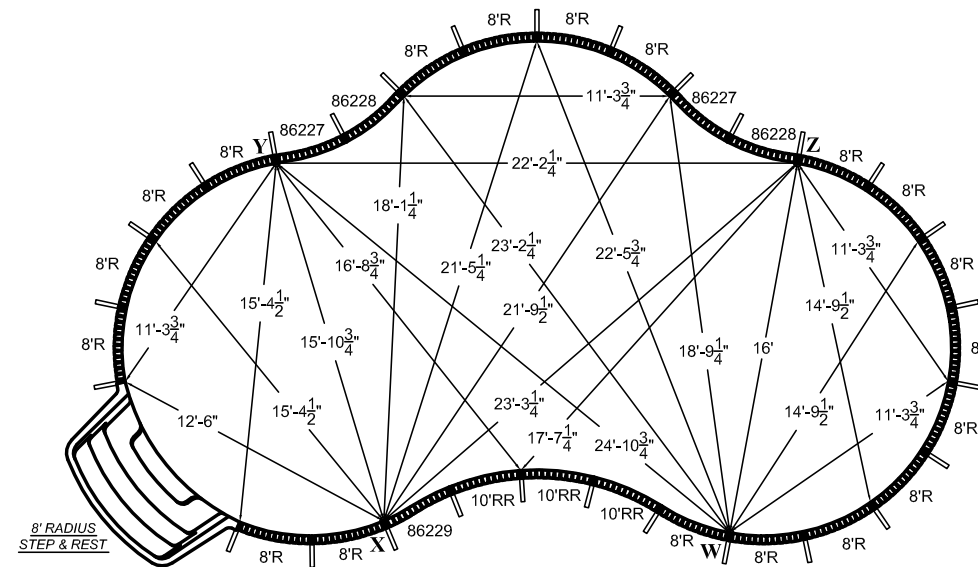
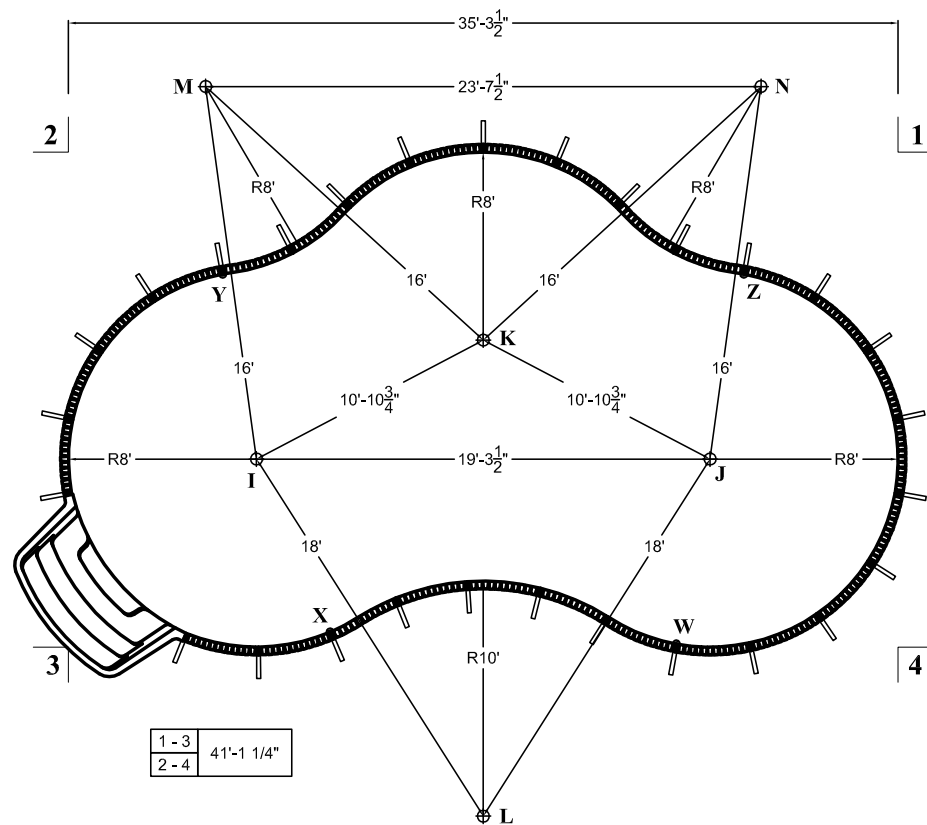
2-I	15'-3 3/4"
2-J	30'-3 1/4"
2-K	19'-4 1/2"
2-L	33'-3 3/4"
2-M	6'-5 3/4"
2-N	29'-7 1/4"
2-W	33'-3 1/4"
2-X	23'-3 1/4"
2-Y	8'-4 1/2"
2-Z	29'-2 1/2"

3-I	11'-3 3/4"
3-J	28'-5 1/2"
3-K	21'-11 1/2"
3-L	19'-0 3/4"
3-M	24'-6 3/4"
3-N	37'-11"
3-W	25'-10 1/4"
3-X	11'-1 3/4"
3-Y	17'-2"
3-Z	32'-10"

1-3	41'-1 1/4"
2-4	

1-I	30'-3 1/4"
1-J	15'-3 3/4"
1-K	19'-4 1/2"
1-L	33'-3 3/4"
1-M	29'-7 1/4"
1-N	6'-5 3/4"
1-W	22'-11 1/2"
1-X	31'-7 3/4"
1-Y	29'-2 1/2"
1-Z	8'-4 1/2"

4-I	28'-5 1/2"
4-J	11'-3 3/4"
4-K	21'-11 1/2"
4-L	19'-0 3/4"
4-M	37'-11"
4-N	24'-6 3/4"
4-W	9'-5 1/4"
4-X	24'-2"
4-Y	32'-10"
4-Z	17'-2"



1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1' away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

**MOUNTAIN LAKE REVERSE VIEW**  
21' x 35'

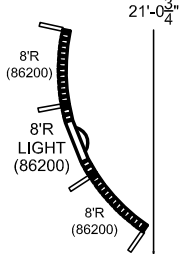
1 - A	9'-3 1/4"
1 - B	12'-1 1/4"
1 - C	19'-10"
1 - D	23'-3 3/4"
1 - E	19'-6"
1 - F	32'-7 1/2"
1 - G	15'-2 1/4"
1 - H	32'-6 1/2"
1 - O	33'-7 1/4"

1 - 3	41'-1 1/4"
2 - 4	

2 - A	27'-10 3/4"
2 - B	27'-9 3/4"
2 - C	29'-4 1/4"
2 - D	30'-8 3/4"
2 - E	15'-9 1/2"
2 - F	23'-1 1/2"
2 - G	38'-2"
2 - H	7'-4 1/4"
2 - O	35'-6 1/4"

G - A	12'-8 3/4"
G - B	10'-11"
G - C	10'-9 3/4"
G - D	12'-7 3/4"
G - E	24'-4 1/4"
G - F	25'-5 3/4"
G - H	32'-9 1/4"
G - O	21'-2 1/2"

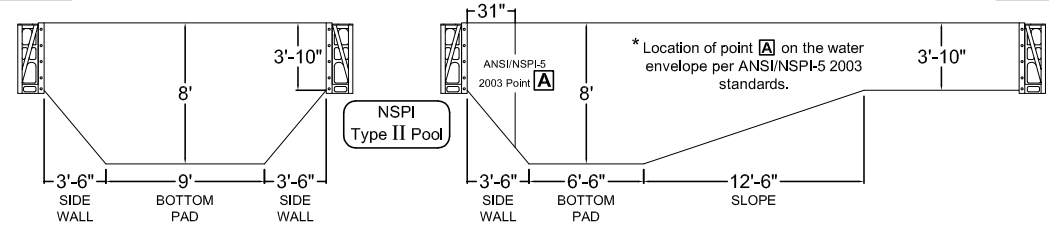
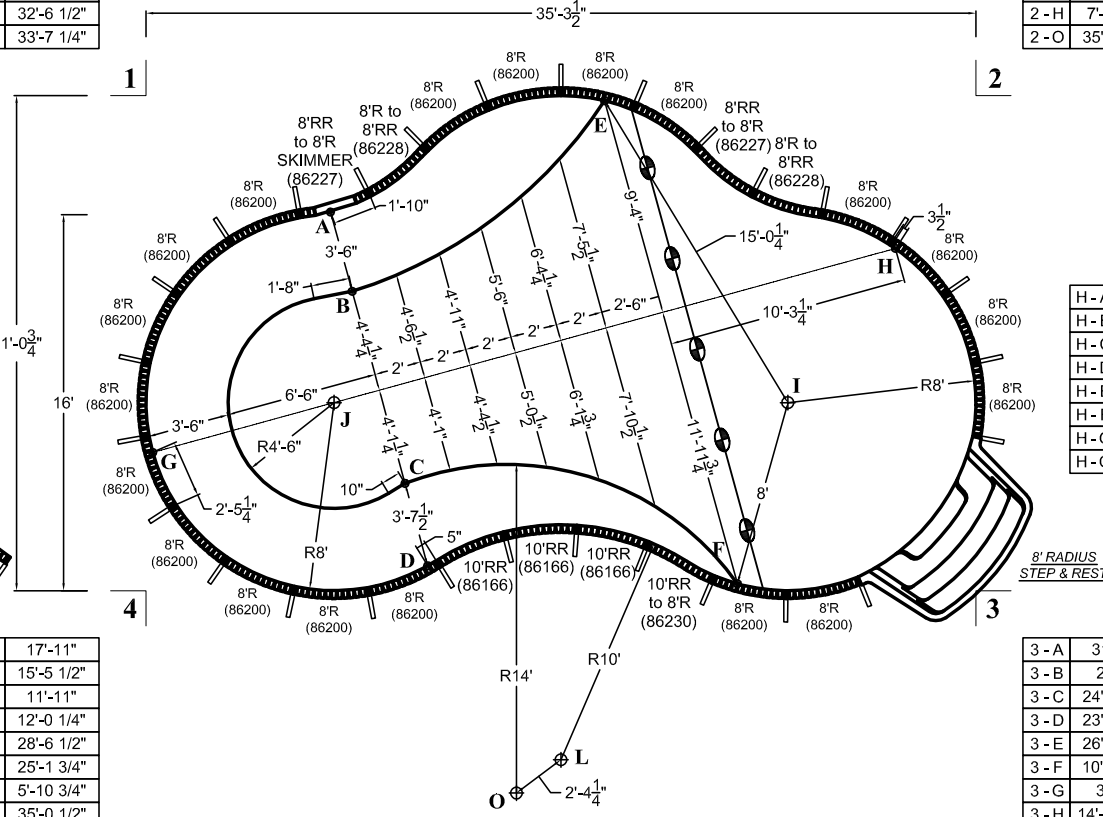
LIGHT PANEL  
OPTION



4 - A	17'-11"
4 - B	15'-5 1/2"
4 - C	11'-11"
4 - D	12'-0 1/4"
4 - E	28'-6 1/2"
4 - F	25'-1 3/4"
4 - G	5'-10 3/4"
4 - H	35'-0 1/2"
4 - O	17'-11 1/2"

H - A	24'-1"
H - B	23'-2 1/4"
H - C	23'-1 1/2"
H - D	24'-0 1/2"
H - E	13'-10 1/2"
H - F	15'-9 1/4"
H - G	32'-9 1/4"
H - O	28'-2 3/4"

3 - A	31'-10"
3 - B	29'-5"
3 - C	24'-8 1/2"
3 - D	23'-4 1/4"
3 - E	26'-1 3/4"
3 - F	10'-1 3/4"
3 - G	35'-6"
3 - H	14'-11 1/2"
3 - O	21'-4 1/4"



POOL SURFACE AREA	540.1 ft <sup>2</sup>	LINER SQ. FT.	564.6667 ft <sup>2</sup>
POOL VOLUME	18650 gal	POOL PERIMETER	92'-11"
	70600 L		28.32 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM DESCRIPTION	PART #	
1	VERSA-FLEX SKIMMER PANEL	48116S
26	VERSA-FLEX PANEL	48115
3	10' REVERSE RADIUS STRAP SET	86166S
19	8' RADIUS PANEL STRAP	86200S
2	8'RR to 8'R STRAP SET	86227S
2	8'R to 8'RR STRAP SET	86228S
1	10'RR to 8'R STRAP SET	86230S
728	PUSH NUTS	09115
28	BRACE SYSTEM COMPLETE	48146
1	8' RADIUS STEP & REST	07418RSNR48
14"	3/8"-16X HEX WASHER HEAD BOLT	148838
14"	3/8"-16X HEX WASHER HEAD NUT	149664
	CHANNEL-LOC SONOTUBE	86152
	VERSA-FLEX STANDARD LIGHT PANEL	48116L

\* - use bolts at step connection

This configuration is only available with 8' Radius Step & Rest.

- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
- All inside pool dimensions are to be finished dimensions.
- Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 10" to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

JANUARY  
2011

**MATRIX** [PLUS]  
POOL SYSTEM

**MOUNTAIN LAKE REVERSE VIEW**  
21' x 35'

POOL SURFACE AREA →	540.1 ft <sup>2</sup>	LINER SQ. FT. →	564.6667 ft <sup>2</sup>
POOL VOLUME →	18650 gal	POOL PERIMETER →	92'-11"
	70600 L		28.32 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

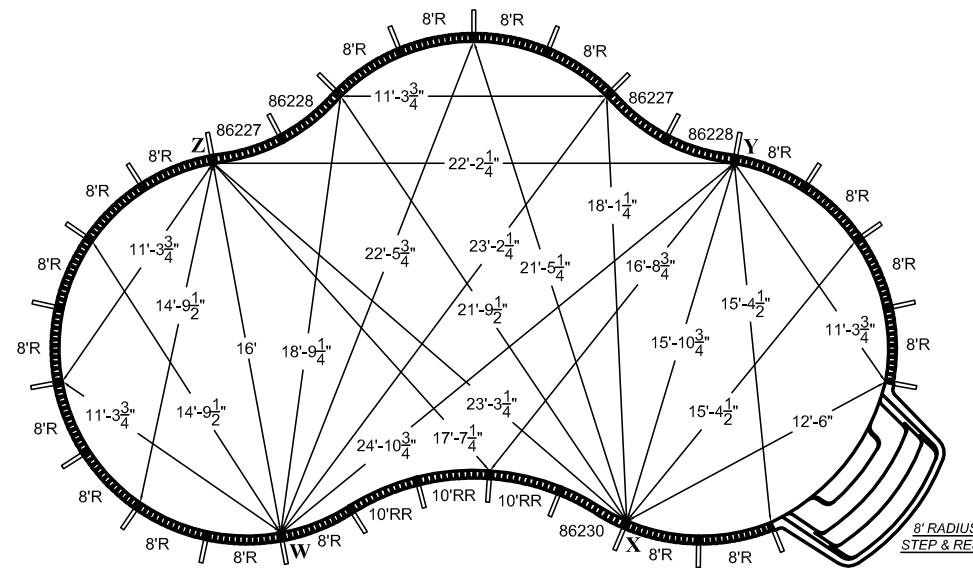
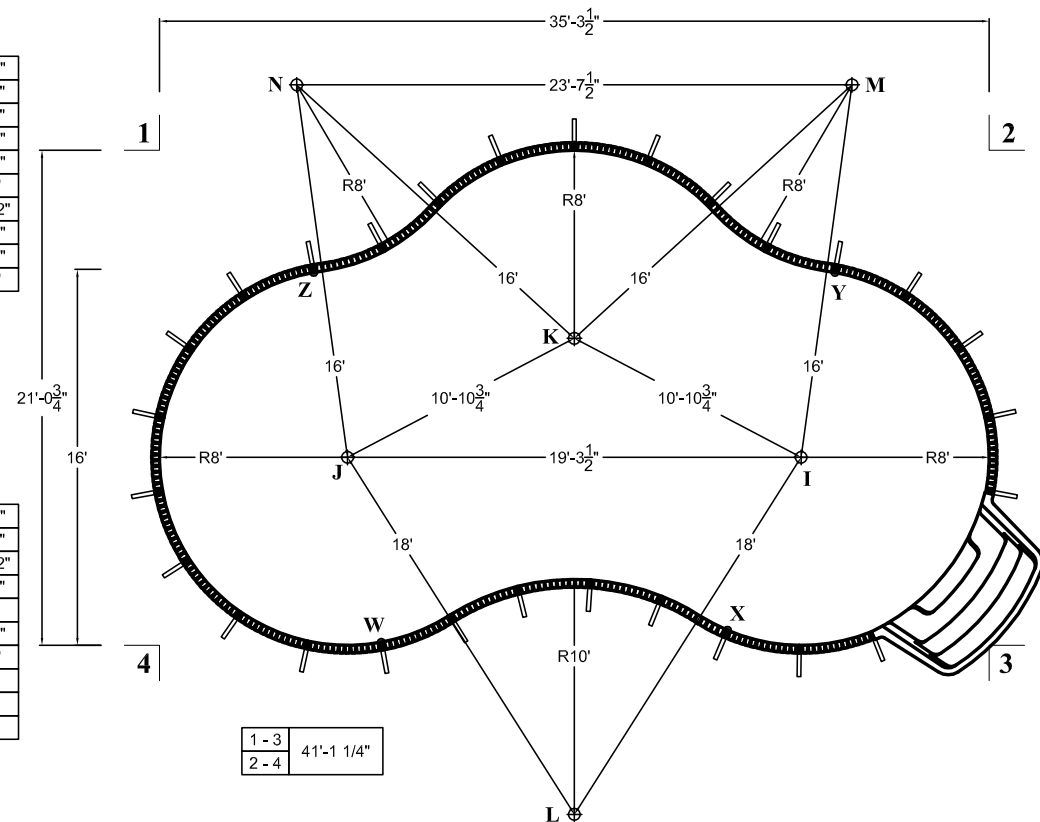
1 - I	30'-3 1/4"
1 - J	15'-3 3/4"
1 - K	19'-4 1/2"
1 - L	33'-3 3/4"
1 - M	29'-7 1/4"
1 - N	6'-5 3/4"
1 - W	22'-11 1/2"
1 - X	31'-7 3/4"
1 - Y	29'-2 1/2"
1 - Z	8'-4 1/2"

4 - I	28'-5 1/2"
4 - J	11'-3 3/4"
4 - K	21'-11 1/2"
4 - L	19'-0 3/4"
4 - M	37'-11"
4 - N	24'-6 3/4"
4 - W	9'-5 1/4"
4 - X	24'-2"
4 - Y	32'-10"
4 - Z	17'-2"

1 - 3	41'-1 1/4"
2 - 4	

2 - I	15'-3 3/4"
2 - J	30'-3 1/4"
2 - K	19'-4 1/2"
2 - L	33'-3 3/4"
2 - M	6'-5 3/4"
2 - N	29'-7 1/4"
2 - W	33'-3 1/4"
2 - X	23'-3 1/4"
2 - Y	8'-4 1/2"
2 - Z	29'-2 1/2"

3 - I	11'-3 3/4"
3 - J	28'-5 1/2"
3 - K	21'-11 1/2"
3 - L	19'-0 3/4"
3 - M	24'-6 3/4"
3 - N	37'-11"
3 - W	25'-10 1/4"
3 - X	11'-1 3/4"
3 - Y	17'-2"
3 - Z	32'-10"



1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 10" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

JANUARY  
2011

**MATRIX [PLUS]**  
POOL SYSTEM

**MOUNTAIN LAKE STANDARD VIEW**  
26' x 39'

POOL SURFACE AREA	685.3 ft <sup>2</sup> 63.7 m <sup>2</sup>	LINER SQ. FT.	785.00 ft <sup>2</sup>
POOL VOLUME	27500 gal 104100 L	POOL PERIMETER	105'-5"

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM DESCRIPTION	PART #
2	VERSA-FLEX SKIMMER PANEL 48116S
29	VERSA-FLEX PANEL 48115
4	8' REVERSE RADIUS STRAP SET 86165S
1	6' REVERSE RADIUS STRAP SET 86164S
12	10' RADIUS STRAP SET 86273S
11	8' RADIUS STRAP SET 86200S
1	6'RR to 8'R STRAP SET 86231S
1	8'R to 8'RR STRAP SET 86233S
1	8'RR to 10'R STRAP SET 86235S
806	PUSH NUTS 09115
32	BRACE SYSTEM COMPLETE 48146
1	8' RADIUS STEP & REST 07418RSNR48
14*	3/8"-16X HEX WASHER HEAD BOLT 148838
14*	3/8"-16 HEX WASHER HEAD NUT 149664
	CHANNEL-LOC SONOTUBE 86152
	VERSA-FLEX STANDARD LIGHT PANEL 48116L

2 - A	32'-1"
2 - B	32'-1 1/2"
2 - C	35'-1 1/4"
2 - D	36'-1 1/4"
2 - E	20'-0 1/2"
2 - F	25'-10 1/4"
2 - G	42'-10 1/4"
2 - H	9'-9"
2 - O	37'-9 3/4"
2 - P	33'-7 3/4"

1 - 3	46'-9 3/4"
2 - 4	

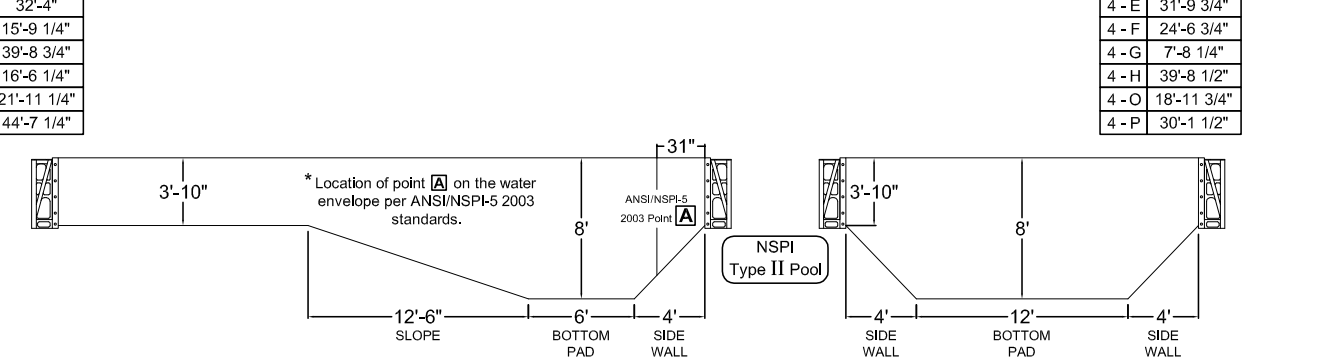
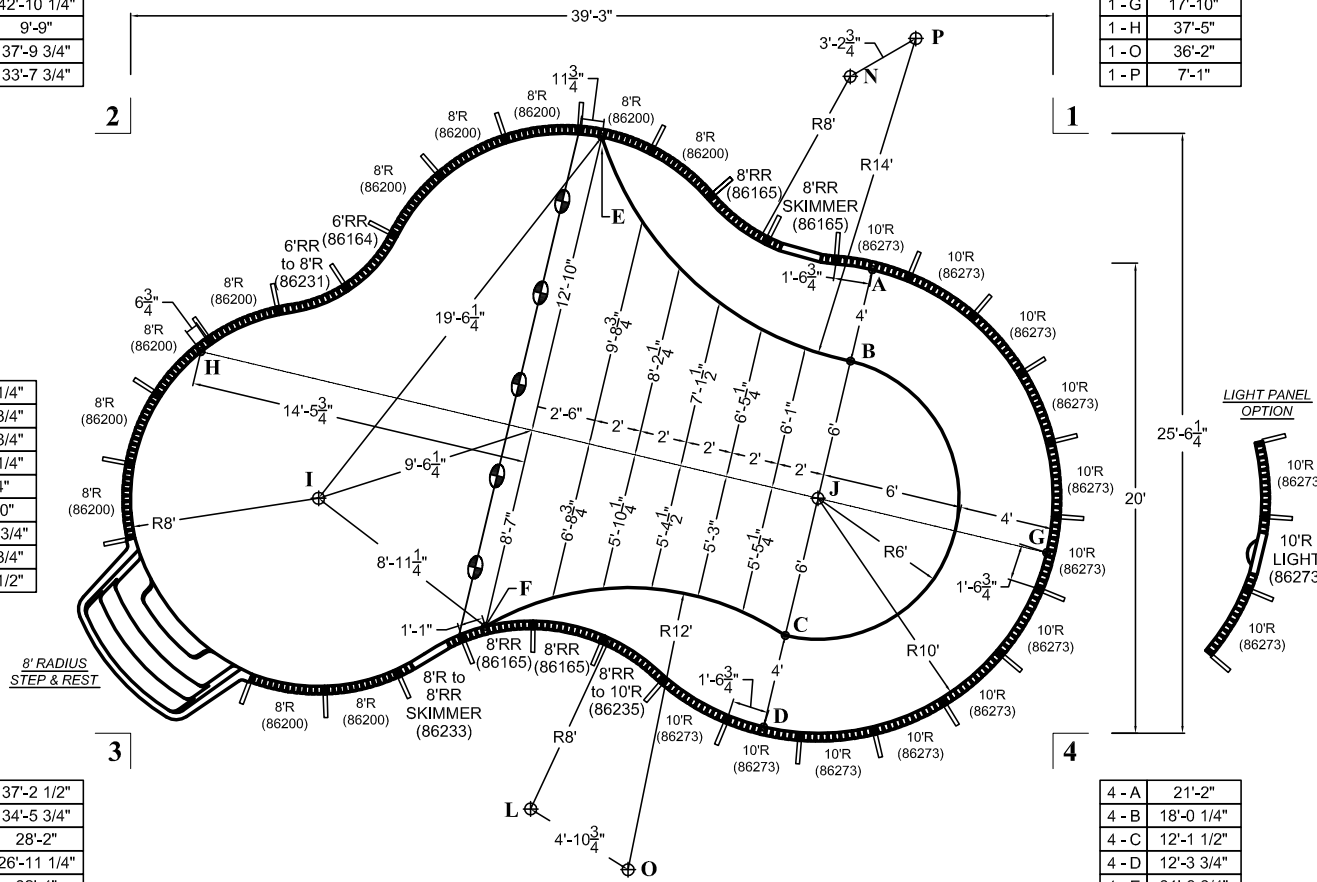
1 - A	9'-7 1/2"
1 - B	12'-11 1/2"
1 - C	24'-2 1/2"
1 - D	28'-1 1/4"
1 - E	19'-2 1/4"
1 - F	31'-11 3/4"
1 - G	17'-10"
1 - H	37'-5"
1 - O	36'-2"
1 - P	7'-1"

H - A	28'-9 1/4"
H - B	27'-7 3/4"
H - C	27'-7 3/4"
H - D	28'-9 1/4"
H - E	19'-4"
H - F	16'-10"
H - G	36'-11 3/4"
H - O	28'-6 3/4"
H - P	33'-2 1/2"

G - A	14'-1 3/4"
G - B	11'-8"
G - C	11'-8"
G - D	14'-1 3/4"
G - E	25'-10 3/4"
G - F	24'-1"
G - H	36'-11 3/4"
G - O	22'-4"
G - P	22'-6 3/4"

3 - A	37'-2 1/2"
3 - B	34'-5 3/4"
3 - C	28'-2"
3 - D	26'-11 1/4"
3 - E	32'-4"
3 - F	15'-9 1/4"
3 - G	39'-8 3/4"
3 - H	16'-6 1/4"
3 - O	21'-11 1/4"
3 - P	44'-7 1/4"

4 - A	21'-2"
4 - B	18'-0 1/4"
4 - C	12'-1 1/2"
4 - D	12'-3 3/4"
4 - E	31'-9 3/4"
4 - F	24'-6 3/4"
4 - G	7'-8 1/4"
4 - H	39'-8 1/2"
4 - O	18'-11 3/4"
4 - P	30'-1 1/2"



- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
- All inside pool dimensions are to be finished dimensions.
- Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 10' to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

JANUARY  
2011

**MATRIX [PLUS]**  
POOL SYSTEM

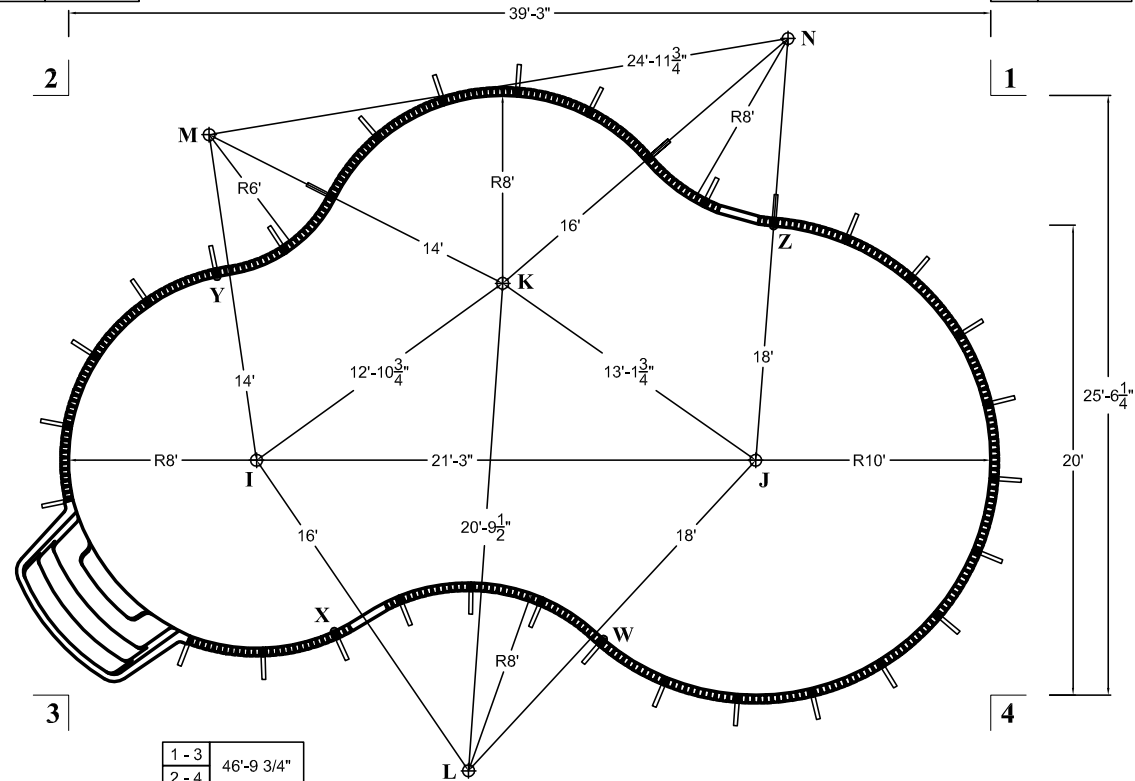
**MOUNTAIN LAKE STANDARD VIEW**  
26' x 39'

POOL SURFACE AREA →	685.3 ft <sup>2</sup>	LINER SQ. FT. →	785.00 ft <sup>2</sup>
POOL VOLUME →	27500 gal	POOL PERIMETER →	105'-5"
	104100 L		31.13 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

2 - I	17'-5 1/2"
2 - J	33'-1 1/4"
2 - K	20'-1 1/2"
2 - L	33'-4 3/4"
2 - M	6'-2 1/2"
2 - N	30'-8 1/2"
2 - W	32'-5 1/2"
2 - X	25'-5 1/2"
2 - Y	9'-11 1/2"
2 - Z	30'-6 1/4"

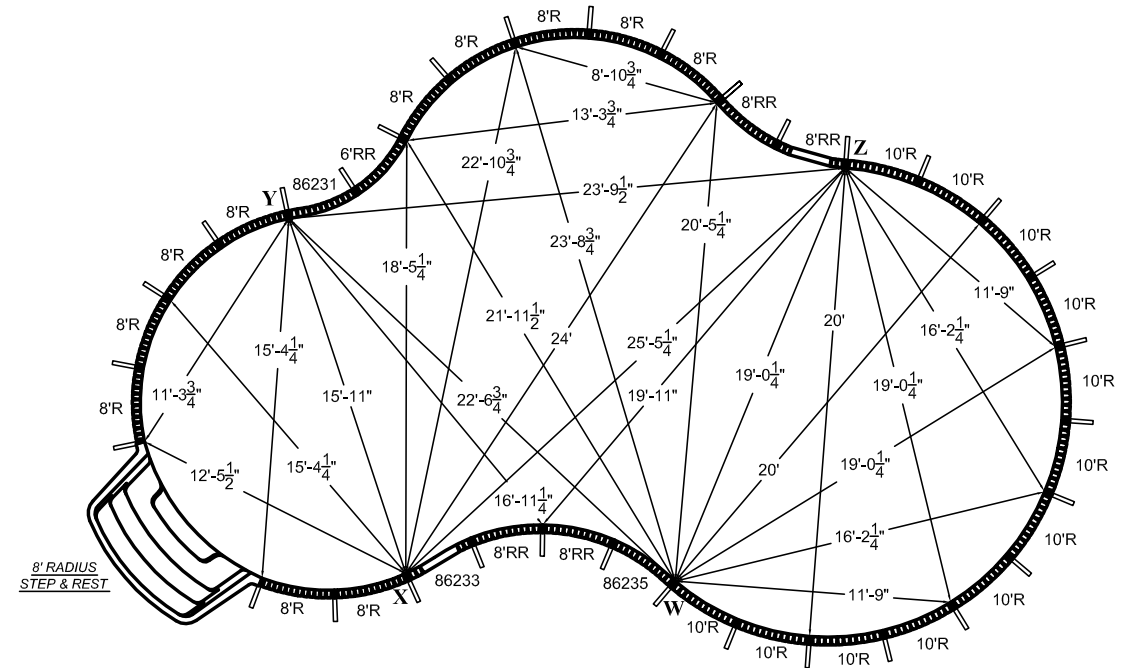
1 - I	34'-10 3/4"
1 - J	18'-5 3/4"
1 - K	22'-3"
1 - L	36'-4"
1 - M	33'-3 1/2"
1 - N	8'-11 1/2"
1 - W	28'-5"
1 - X	36'-0 3/4"
1 - Y	33'-9 3/4"
1 - Z	10'-9 1/4"



1 - 3	46'-9 3/4"
2 - 4	

3 - I	12'-9 3/4"
3 - J	30'-10 3/4"
3 - K	25'-5 1/2"
3 - L	17'-3 3/4"
3 - M	24'-7"
3 - N	41'-5 1/2"
3 - W	22'-10 3/4"
3 - X	11'-7 1/2"
3 - Y	18'-11"
3 - Z	36'-0 1/2"

4 - I	32'-9 3/4"
4 - J	14'-1 3/4"
4 - K	27'-2"
4 - L	22'-5 1/2"
4 - M	40'-11"
4 - N	29'-3"
4 - W	16'-7 3/4"
4 - X	28'-0 3/4"
4 - Y	37'-5 1/4"
4 - Z	22'



1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.



JANUARY  
2011

**MATRIX [PLUS]**  
POOL SYSTEM

**MOUNTAIN LAKE REVERSE VIEW**  
26' x 39'

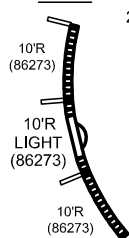
1 - A	9'-7 1/2"
1 - B	12'-11 1/2"
1 - C	24'-2 1/2"
1 - D	28'-1 1/4"
1 - E	19'-2 1/4"
1 - F	31'-11 3/4"
1 - G	17'-10"
1 - H	37'-5"
1 - O	36'-2"
1 - P	7'-1"

1 - 3	46'-9 3/4"
2 - 4	

2 - A	32'-1"
2 - B	32'-1 1/2"
2 - C	35'-1 1/4"
2 - D	36'-11"
2 - E	20'-0 1/2"
2 - F	25'-10 1/4"
2 - G	42'-10 1/4"
2 - H	9'-9"
2 - O	37'-9 3/4"
2 - P	33'-7 3/4"

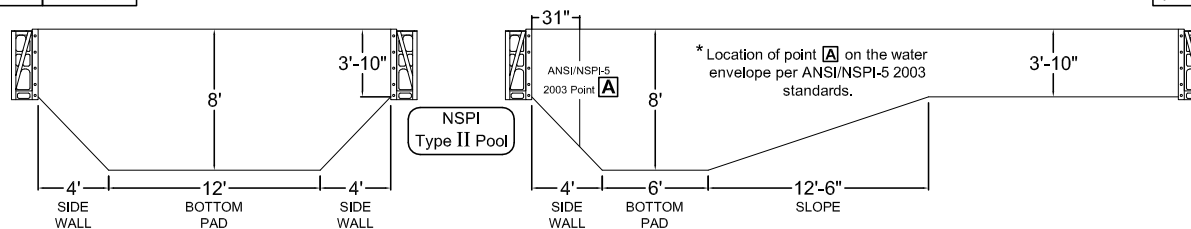
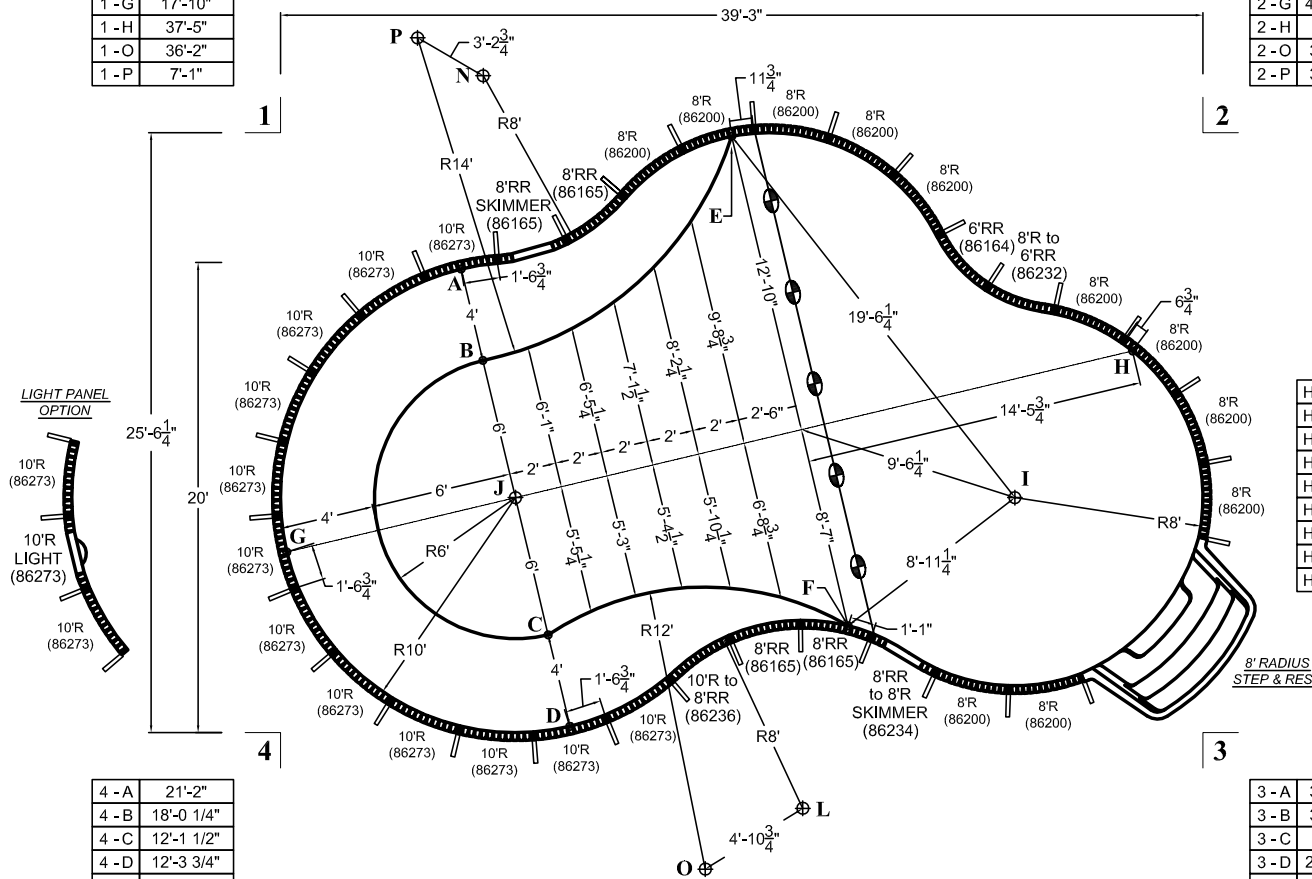
G - A	14'-1 3/4"
G - B	11'-8"
G - C	11'-8"
G - D	14'-1 3/4"
G - E	25'-10 3/4"
G - F	24'-1"
G - H	36'-11 3/4"
G - O	22'-4"
G - P	22'-6 3/4"

LIGHT PANEL  
OPTION



4 - A	21'-2"
4 - B	18'-0 1/4"
4 - C	12'-1 1/2"
4 - D	12'-3 3/4"
4 - E	31'-9 3/4"
4 - F	24'-6 3/4"
4 - G	7'-8 1/4"
4 - H	39'-8 1/2"
4 - O	18'-11 3/4"
4 - P	30'-1 1/2"

3 - A	37'-2 1/2"
3 - B	34'-5 3/4"
3 - C	28'-2"
3 - D	26'-11 1/4"
3 - E	32'-4"
3 - F	15'-9 1/4"
3 - G	39'-8 3/4"
3 - H	16'-6 1/4"
3 - O	21'-11 1/4"
3 - P	44'-7 1/4"



POOL SURFACE AREA	685.3 ft <sup>2</sup> 63.7 m <sup>2</sup>	LINER SQ. FT.	785.00 ft <sup>2</sup>
POOL VOLUME	27500 gal 104100 L	POOL PERIMETER	105'-5" 31.13 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM DESCRIPTION	PART #
2	VERSA-FLEX SKIMMER PANEL 48116S
29	VERSA-FLEX PANEL 48115
4	8' REVERSE RADIUS STRAP SET 86165S
1	6' REVERSE RADIUS STRAP SET 86164S
12	10' RADIUS STRAP SET 86273S
11	8' RADIUS STRAP SET 86200S
1	8'R to 6'RR STRAP SET 86232S
1	8'RR to 8'R STRAP SET 86234S
1	10'R to 8'RR STRAP SET 86236S
	PUSH NUTS 09115
32	BRACE SYSTEM COMPLETE 48146
1	8' RADIUS STEP & REST 07418RSNR48
14"	3/8"-16X HEX WASHER HEAD BOLT 148838
14"	3/8"-16 HEX WASHER HEAD NUT 149664
	CHANNEL-LOC SONOTUBE 86152
	VERSA-FLEX STANDARD LIGHT PANEL 48116L

\* - use bolts at step connection

This configuration is only available with 8' Radius Step & Rest.

1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 10" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

JANUARY  
2011

**MATRIX [PLUS]**  
POOL SYSTEM

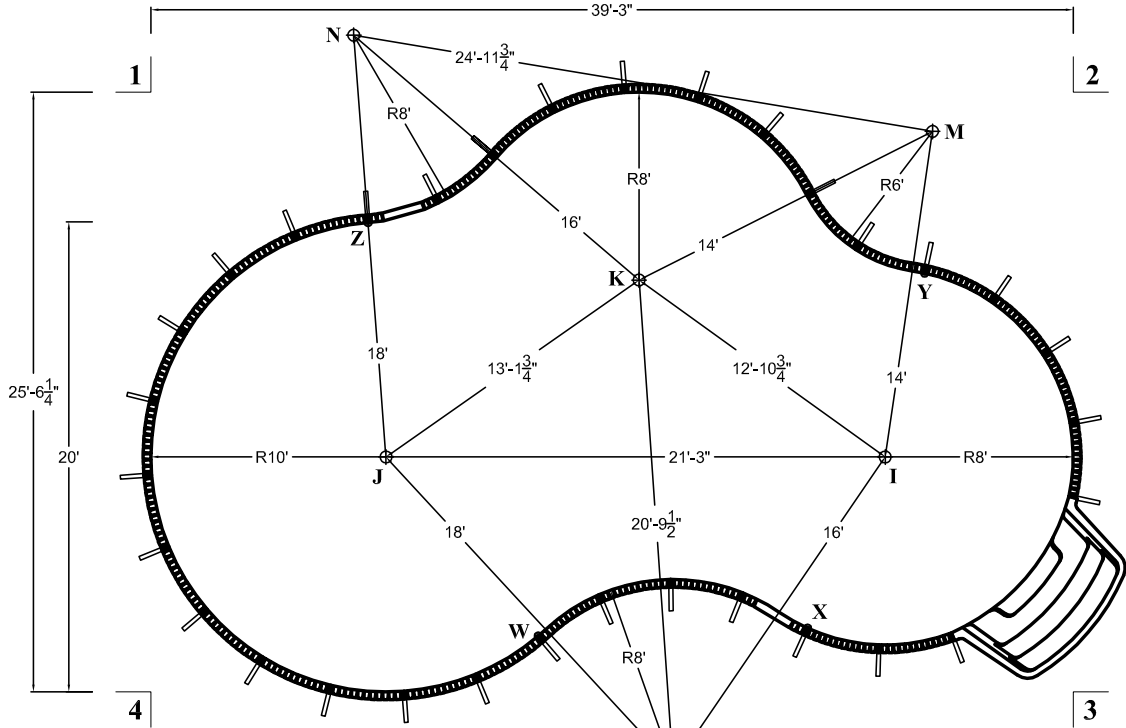
**MOUNTAIN LAKE REVERSE VIEW**  
26' x 39'

POOL SURFACE AREA	→ 685.3 ft <sup>2</sup>	LINER SQ. FT.	→ 785.00 ft <sup>2</sup>
POOL VOLUME	→ 27500 gal	POOL PERIMETER	→ 105'-5"
	104100 L		31.13 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

1 - I	34'-10 3/4"
1 - J	18'-5 3/4"
1 - K	22'-3"
1 - L	36'-4"
1 - M	33'-3 1/2"
1 - N	8'-11 1/2"
1 - W	28'-5"
1 - X	36'-0 3/4"
1 - Y	33'-9 3/4"
1 - Z	10'-9 1/4"

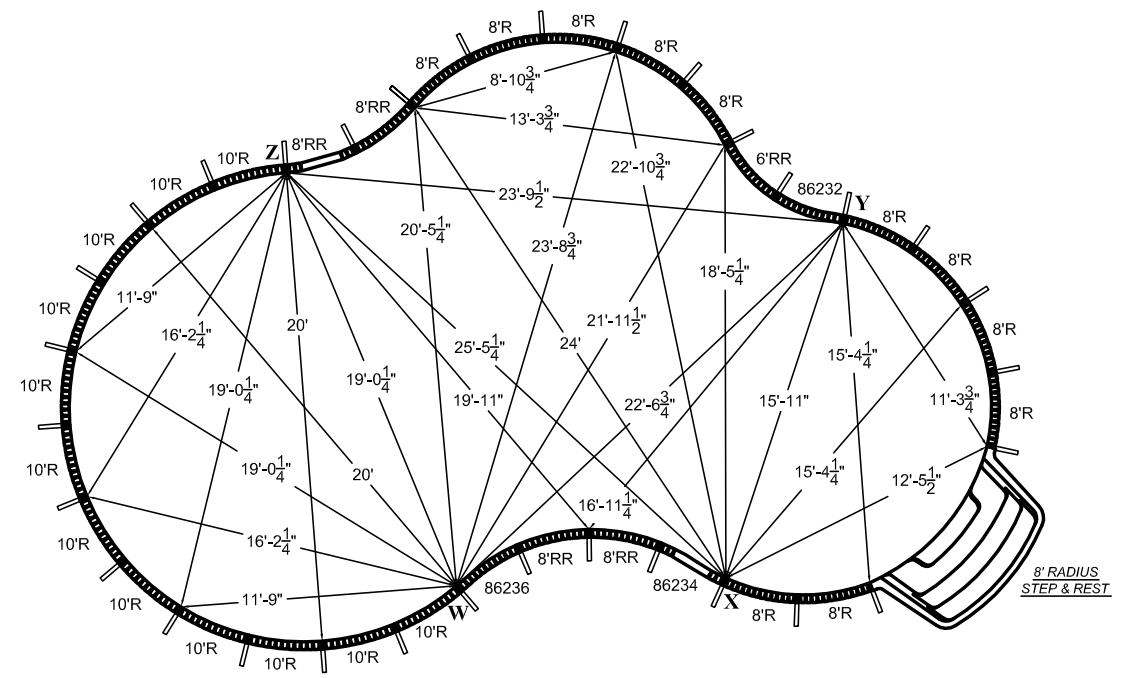
2 - I	17'-5 1/2"
2 - J	33'-1 1/4"
2 - K	20'-1 1/2"
2 - L	33'-4 3/4"
2 - M	6'-2 1/2"
2 - N	30'-8 1/2"
2 - W	32'-5 1/2"
2 - X	25'-5 1/2"
2 - Y	9'-11 1/2"
2 - Z	30'-6 1/4"



1 - 3	46'-9 3/4"
2 - 4	

4 - I	32'-9 3/4"
4 - J	14'-1 3/4"
4 - K	27'-2"
4 - L	22'-5 1/2"
4 - M	40'-11"
4 - N	29'-3"
4 - W	16'-7 3/4"
4 - X	28'-0 3/4"
4 - Y	37'-5 1/4"
4 - Z	22'

3 - I	12'-9 3/4"
3 - J	30'-10 3/4"
3 - K	25'-5 1/2"
3 - L	17'-3 3/4"
3 - M	24'-7"
3 - N	41'-5 1/2"
3 - W	22'-10 3/4"
3 - X	11'-7 1/2"
3 - Y	18'-11"
3 - Z	36'-0 1/2"



1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1' away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 10' to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

**LAGOON LEFT**  
16' x 34' x 25'

POOL SURFACE AREA	→ 572.6 ft <sup>2</sup> 53.2 m <sup>2</sup>	LINER SQ. FT.	→ 670.2917 ft <sup>2</sup>
POOL VOLUME	→ 17300 gal 65500 L	POOL PERIMETER	→ 102'-5" 31.21 m

**NO DIVING ALLOWED IN THIS POOL**

ITEM DESCRIPTION	PART #	
1	VERSA-FLEX SKIMMER PANEL	48116S
29	VERSA-FLEX PANEL	48115
2	8' REVERSE RADIUS STRAP SET	86165S
3	6' REVERSE RADIUS STRAP SET	86164S
16	8' RADIUS STRAP SET	86200S
4	7' RADIUS STRAP SET	86157S
1	6'RR to 7'R STRAP SET	86237S
1	8'RR to 8'R STRAP SET	86239S
1	8'RR to 8'RR STRAP SET	86241S
1	8'RR to 8'R STRAP SET	86243S
1	7'RR to 8'RR STRAP SET	86245S
780	PUSH NUTS	09115
31	BRACE SYSTEM COMPLETE	48146
1	8' RADIUS STEP & REST	07418RSNR48
14*	3/8"-16X HEX WASHER HEAD BOLT	148838
14*	3/8"-16 HEX WASHER HEAD NUT	149664
	CHANNEL-LOC SONOTUBE	86152
	VERSA-FLEX STANDARD LIGHT PANEL	48116L

\* - use bolts at step connection

This configuration is only available with 8' Radius Step & Rest.

- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
- All inside pool dimensions are to be finished dimensions. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI/ANSI suggested minimum standards for pools that are NOT approved for diving.

1 - A	26'-9 1/2"
1 - B	22'-8 3/4"
1 - C	16'-4 3/4"
1 - D	12'-9 1/2"
1 - E	31'-3"
1 - F	20'-8"
1 - G	18'-0 1/4"
1 - H	36'-1 1/2"
1 - O	32'-7 1/2"
1 - P	12'-8 1/2"

1 - 3	42'-2 1/2"
2 - 4	

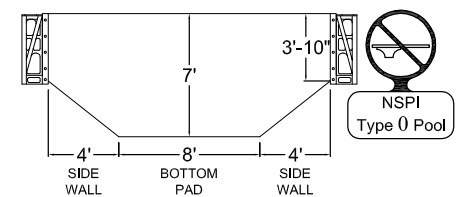
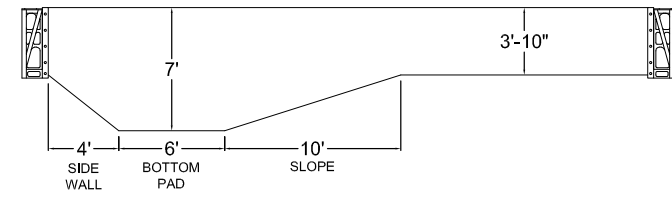
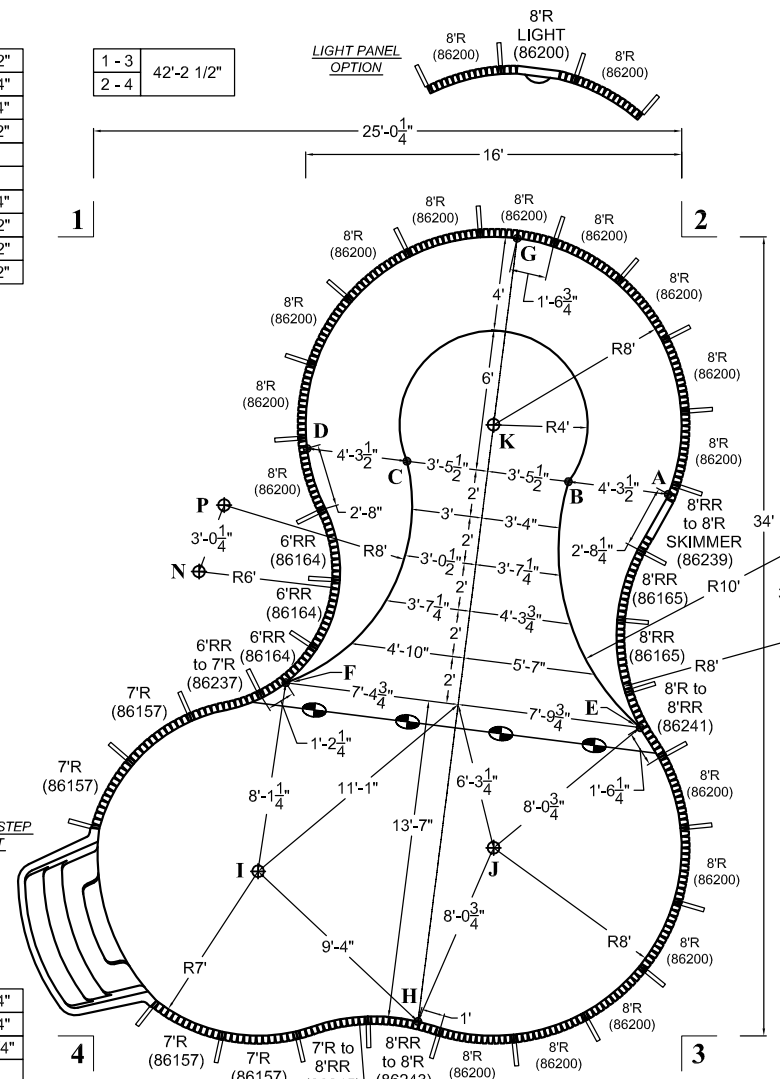
2 - A	10'-11 3/4"
2 - B	11'-5 3/4"
2 - C	15'-1"
2 - D	18'-3 3/4"
2 - E	20'-11 1/2"
2 - F	25'-4 1/2"
2 - G	7'
2 - H	35'-2 3/4"
2 - O	14'-1 1/2"
2 - P	22'-6 3/4"

G - A	12'-7 3/4"
G - B	10'-7"
G - C	10'-7"
G - D	12'-7 3/4"
G - E	21'-5 3/4"
G - F	21'-3 3/4"
G - H	33'-7"
G - O	17'-8 1/2"
G - P	16'-10 1/2"

4 - A	33'-7 1/4"
4 - B	31'-0 3/4"
4 - C	27'-10 1/4"
4 - D	26'-7"
4 - E	26'-8 1/2"
4 - F	17'-1 1/4"
4 - G	38'-5 1/4"
4 - H	13'-9 3/4"
4 - O	36'-3 1/4"
4 - P	23'-3"

H - A	24'-10"
H - B	23'-10 1/4"
H - C	23'-10 1/4"
H - D	24'-10"
H - E	15'-8"
H - F	15'-5 3/4"
H - G	33'-7"
H - O	25'-8"
H - P	23'-5 3/4"

3 - A	23'-0 1/2"
3 - B	24'-0 3/4"
3 - C	27'-1 1/4"
3 - D	29'-7 3/4"
3 - E	13'-2 3/4"
3 - F	22'-6 3/4"
3 - G	34'-7 3/4"
3 - H	11'-2 3/4"
3 - O	21'-2 3/4"
3 - P	29'-9 3/4"

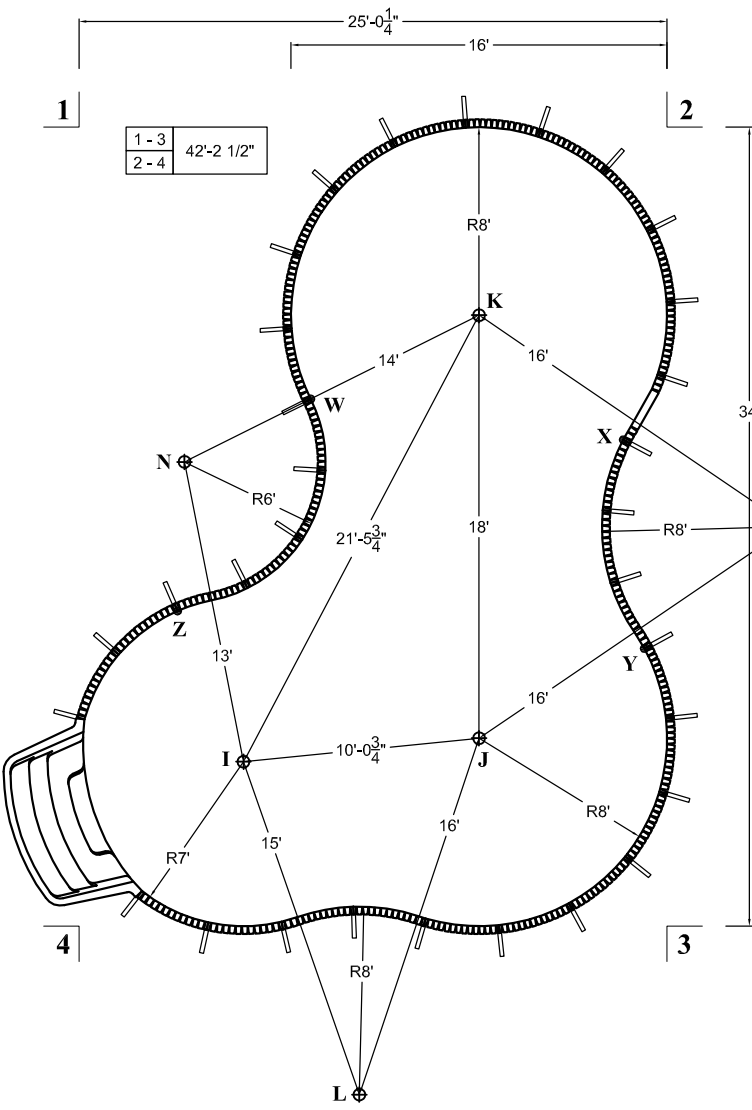


**LAGOON LEFT**  
16' x 34' x 25'

POOL SURFACE AREA	→ 572.6 ft <sup>2</sup> 53.2 m <sup>2</sup>	LINER SQ. FT.	→ 670.2917 ft <sup>2</sup>
POOL VOLUME	→ 17300 gal 65500 L	POOL PERIMETER	→ 102'-5" 31.21 m

**NO DIVING ALLOWED IN THIS POOL**

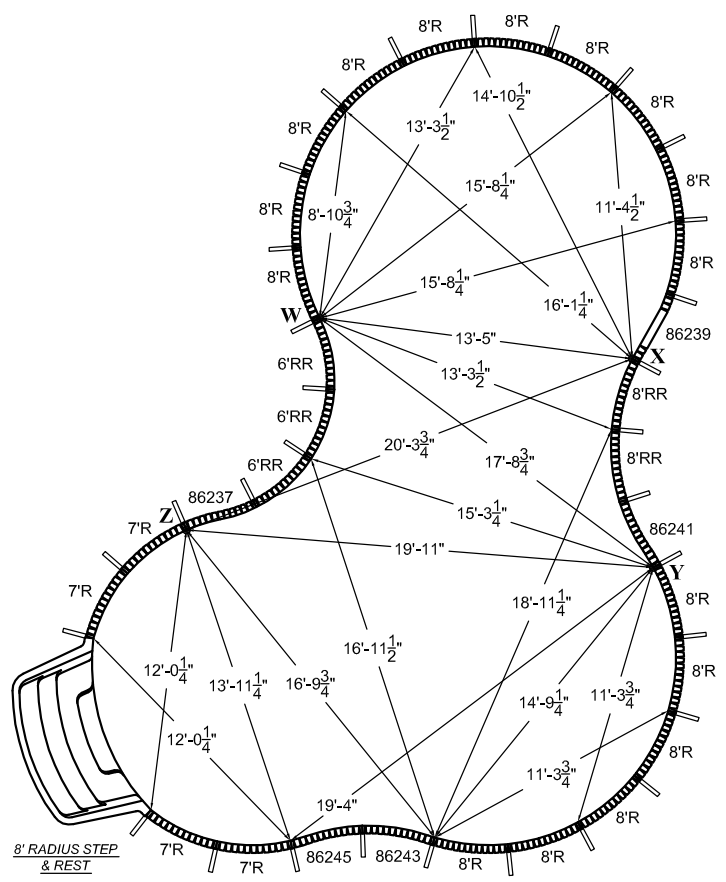
1 - I	27'-10 3/4"
1 - J	31'-1"
1 - K	18'-9 3/4"
1 - L	42'-10 1/4"
1 - M	34'-8 1/2"
1 - N	14'-5"
1 - W	15'-2 1/2"
1 - X	26'-8 1/2"
1 - Y	32'-8 3/4"
1 - Z	21'



2 - I	32'-5 1/2"
2 - J	27'-2 1/2"
2 - K	11'-3 3/4"
2 - L	43'-2 1/2"
2 - M	17'-9 1/2"
2 - N	28'-10 1/2"
2 - W	19'-0 3/4"
2 - X	13'-5 1/4"
2 - Y	22'-2 1/2"
2 - Z	29'-3 1/2"

3 - I	19'-4"
3 - J	11'-3 3/4"
3 - K	27'-2 1/2"
3 - L	14'-11"
3 - M	17'-9 1/2"
3 - N	31'-9 1/4"
3 - W	27'-1"
3 - X	20'-9 1/4"
3 - Y	11'-10 1/4"
3 - Z	24'-9 1/4"

4 - I	9'-10 3/4"
4 - J	18'-9 3/4"
4 - K	31'-1"
4 - L	13'-11"
4 - M	34'-8 1/2"
4 - N	19'-7"
4 - W	24'-6"
4 - X	31'-0 3/4"
4 - Y	26'-9 1/2"
4 - Z	14'-0 3/4"



1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1' away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI/ANSI suggested minimum standards for pools that are NOT approved for diving.

**LAGOON RIGHT**  
16' x 34' x 25'

POOL SURFACE AREA	→ 572.6 ft <sup>2</sup> 53.2 m <sup>2</sup>	LINER SQ. FT.	→ 670.2917 ft <sup>2</sup>
POOL VOLUME	→ 17300 gal 65500 L	POOL PERIMETER	→ 102'-5"

**NO DIVING ALLOWED IN THIS POOL**

ITEM DESCRIPTION	PART #
1 VERSA-FLEX SKIMMER PANEL	48116S
29 VERSA-FLEX PANEL	48115
2 8' REVERSE RADIUS STRAP SET	86165S
3 6' REVERSE RADIUS STRAP SET	86164S
16 8' RADIUS STRAP SET	86200S
4 7' RADIUS STRAP SET	86157S
1 7'R to 6'RR STRAP SET	86238S
1 8'R to 8'RR STRAP SET	86240S
1 8'RR to 8'R STRAP SET	86242S
1 8'R to 8'RR STRAP SET	86244S
1 8'RR to 7'R STRAP SET	86246S
780 PUSH NUTS	09115
31 BRACE SYSTEM COMPLETE	48146
1 8' RADIUS STEP & REST	07418RSNR48
14* 3/8"-16X HEX WASHER HEAD BOLT	148838
14* 3/8"-16 HEX WASHER HEAD NUT	149664
CHANNEL-LOC SONOTUBE	86152
VERSA-FLEX STANDARD LIGHT PANEL	48116L

\* - use bolts at step connection

This configuration is only available with 8' Radius Step & Rest.

- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
- All inside pool dimensions are to be finished dimensions.
- Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI/ANSI suggested minimum standards for pools that are NOT approved for diving.

2-A	10'-11 3/4"
2-B	11'-5 3/4"
2-C	15'-1"
2-D	18'-3 3/4"
2-E	20'-11 1/2"
2-F	25'-4 1/2"
2-G	7'
2-H	35'-2 3/4"
2-O	14'-1 1/2"
2-P	22'-6 3/4"

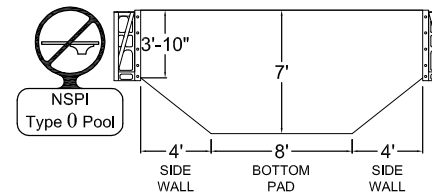
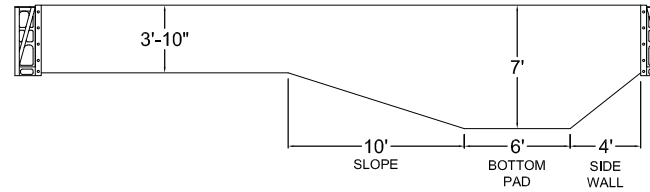
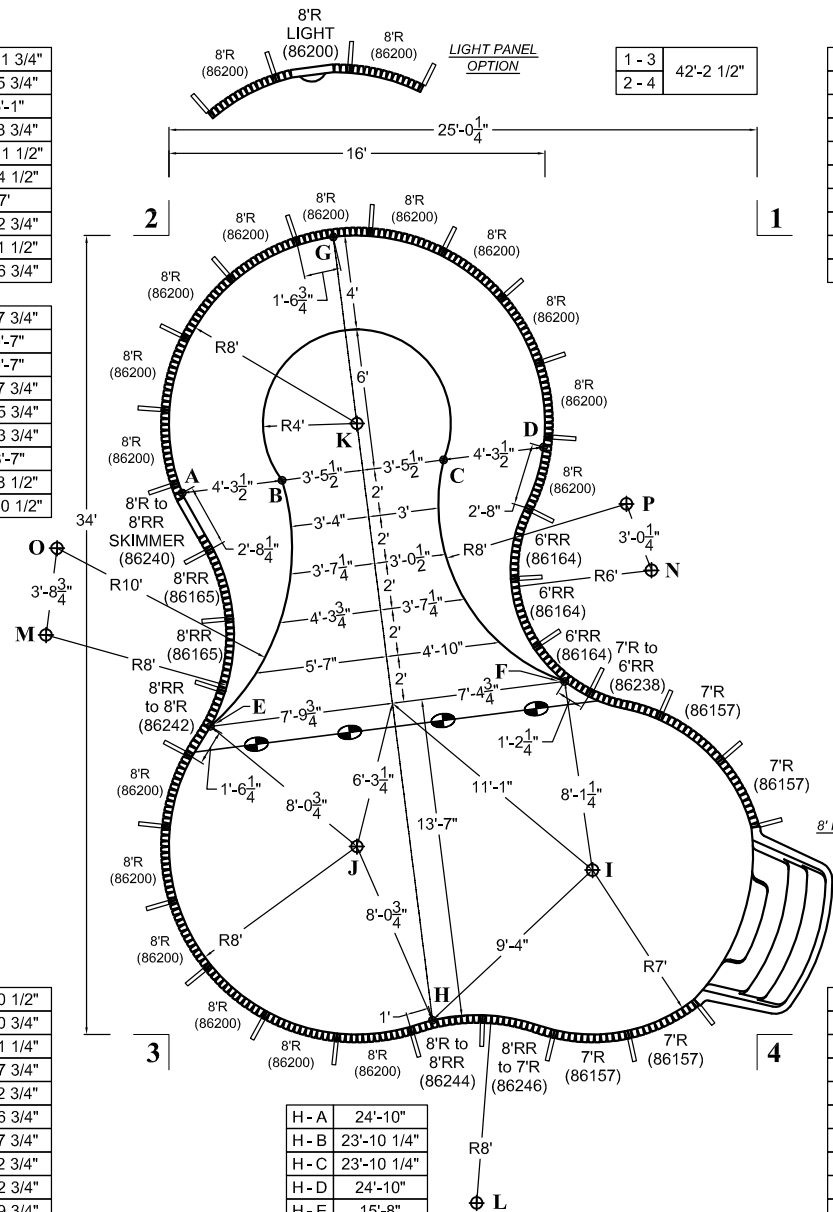
G-A	12'-7 3/4"
G-B	10'-7"
G-C	10'-7"
G-D	12'-7 3/4"
G-E	21'-5 3/4"
G-F	21'-3 3/4"
G-H	33'-7"
G-O	17'-8 1/2"
G-P	16'-10 1/2"

3-A	23'-0 1/2"
3-B	24'-0 3/4"
3-C	27'-1 1/4"
3-D	29'-7 3/4"
3-E	13'-2 3/4"
3-F	22'-6 3/4"
3-G	34'-7 3/4"
3-H	11'-2 3/4"
3-O	21'-2 3/4"
3-P	29'-9 3/4"

H-A	24'-10"
H-B	23'-10 1/4"
H-C	23'-10 1/4"
H-D	24'-10"
H-E	15'-8"
H-F	15'-5 3/4"
H-G	33'-7"
H-O	25'-8"
H-P	23'-5 3/4"

1-A	26'-9 1/2"
1-B	22'-8 3/4"
1-C	16'-4 3/4"
1-D	12'-9 1/2"
1-E	31'-3"
1-F	20'-8"
1-G	18'-0 1/4"
1-H	36'-1 1/2"
1-O	32'-7 1/2"
1-P	12'-8 1/2"

4-A	33'-7 1/4"
4-B	31'-0 3/4"
4-C	27'-10 1/4"
4-D	26'-7"
4-E	26'-8 1/2"
4-F	17'-1 1/4"
4-G	38'-5 1/4"
4-H	13'-9 3/4"
4-O	36'-3 1/4"
4-P	23'-3"

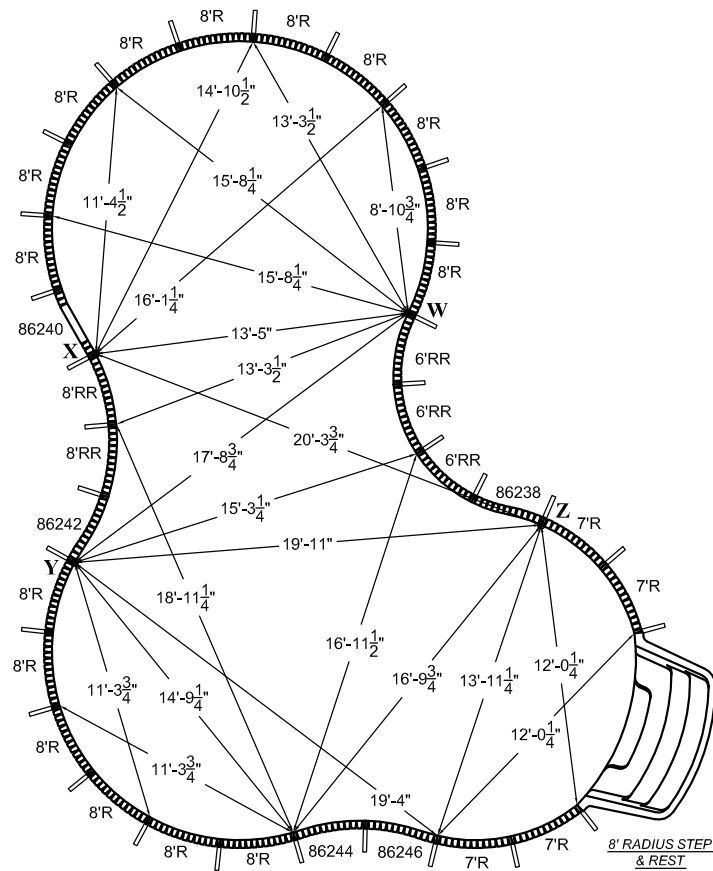


The bottom configuration shown conforms with current NSPI/ANSI suggested minimum standards for pools that are NOT approved for diving.

**LAGOON RIGHT**  
16' x 34' x 25'

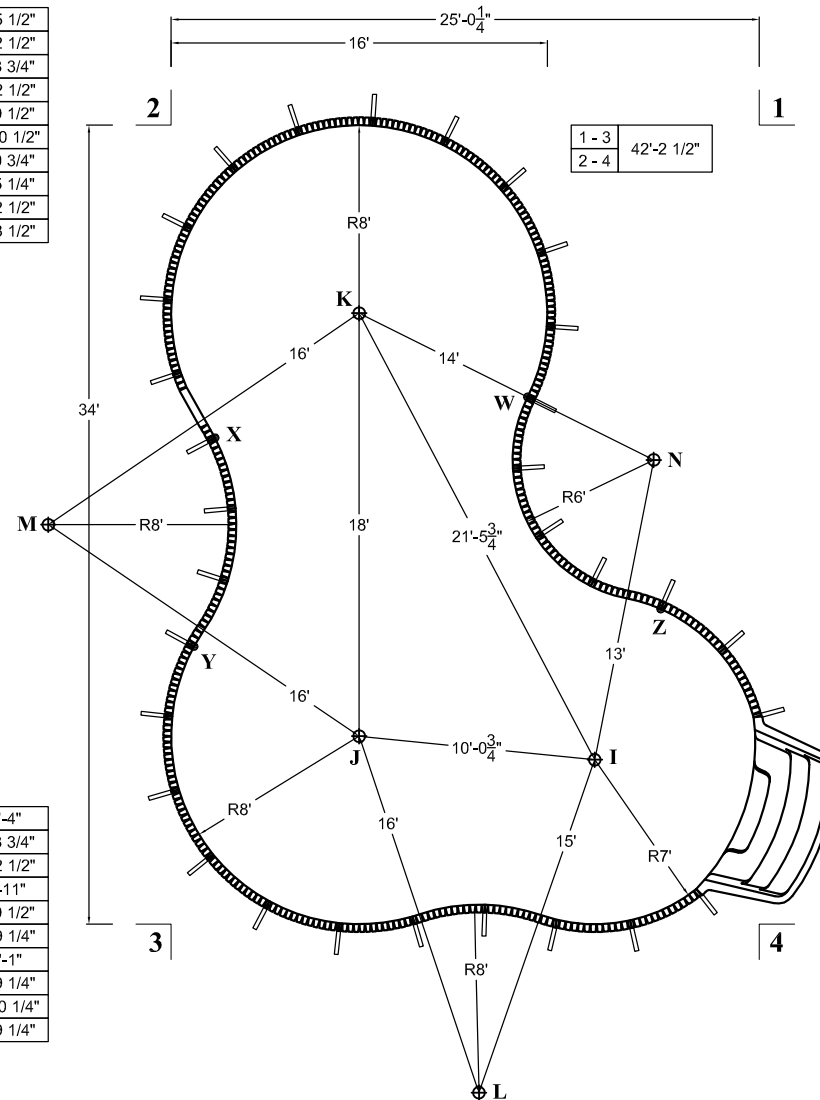
POOL SURFACE AREA	→ 572.6 ft <sup>2</sup>	LINER SQ. FT.	→ 670.2917 ft <sup>2</sup>
POOL VOLUME	→ 17300 gal	POOL PERIMETER	→ 102'-5"
	65500 L		31.21 m

**NO DIVING ALLOWED IN THIS POOL**



2 - I	32'-5 1/2"
2 - J	27'-2 1/2"
2 - K	11'-3 3/4"
2 - L	43'-2 1/2"
2 - M	17'-9 1/2"
2 - N	28'-10 1/2"
2 - W	19'-0 3/4"
2 - X	13'-5 1/4"
2 - Y	22'-2 1/2"
2 - Z	29'-3 1/2"

3 - I	19'-4"
3 - J	11'-3 3/4"
3 - K	27'-2 1/2"
3 - L	14'-11"
3 - M	17'-9 1/2"
3 - N	31'-9 1/4"
3 - W	27'-1"
3 - X	20'-9 1/4"
3 - Y	11'-10 1/4"
3 - Z	24'-9 1/4"



1 - 3	42'-2 1/2"
2 - 4	

1 - I	27'-10 3/4"
1 - J	31'-1"
1 - K	18'-9 3/4"
1 - L	42'-10 1/4"
1 - M	34'-8 1/2"
1 - N	14'-5"
1 - W	15'-2 1/2"
1 - X	26'-8 1/2"
1 - Y	32'-8 3/4"
1 - Z	21'

4 - I	9'-10 3/4"
4 - J	18'-9 3/4"
4 - K	31'-1"
4 - L	13'-11"
4 - M	34'-8 1/2"
4 - N	19'-7"
4 - W	24'-6"
4 - X	31'-0 3/4"
4 - Y	26'-9 1/2"
4 - Z	14'-0 3/4"

1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1' away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI/ANSI suggested minimum standards for pools that are NOT approved for diving.

**LAGOON LEFT**  
18' x 38' x 29'

POOL SURFACE AREA	748.3 ft <sup>2</sup> 69.5 m <sup>2</sup>	LINER SQ. FT.	862.6250 ft <sup>2</sup>
POOL VOLUME	23300 gal 88200 L	POOL PERIMETER	115' 35.05 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**



ITEM DESCRIPTION	PART #
2	VERSA-FLEX SKIMMER PANEL 48116S
32	VERSA-FLEX PANEL 48115
5	8' REVERSE RADIUS STRAP SET 86165S
7	10' RADIUS STRAP SET 86273S
11	9' RADIUS STRAP SET 86158S
5	8' RADIUS STRAP SET 86200S
1	8'RR to 8'R STRAP SET 86247S
1	9'R to 8'RR STRAP SET 86249S
1	8'RR to 9'R STRAP SET 86251S
1	10'R to 8'RR STRAP SET 86253S
1	8'RR to 10'R STRAP SET 86255S
1	8'R to 8'RR STRAP SET 86257S
884	PUSH NUTS 09115
35	BRACE SYSTEM COMPLETE 48146
1	8' RADIUS STEP & REST 07418RSNR48
14*	3/8"-16X HEX WASHER HEAD BOLT 148838
14*	3/8"-16 HEX WASHER HEAD NUT 149664
	CHANNEL-LOC SONOTUBE 86152
	VERSA-FLEX STANDARD LIGHT PANEL 48116L

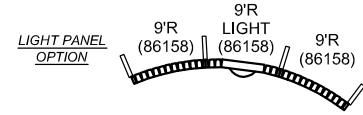
\* - use bolts at step connection

This configuration is only available with 8' Radius Step & Rest.

1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

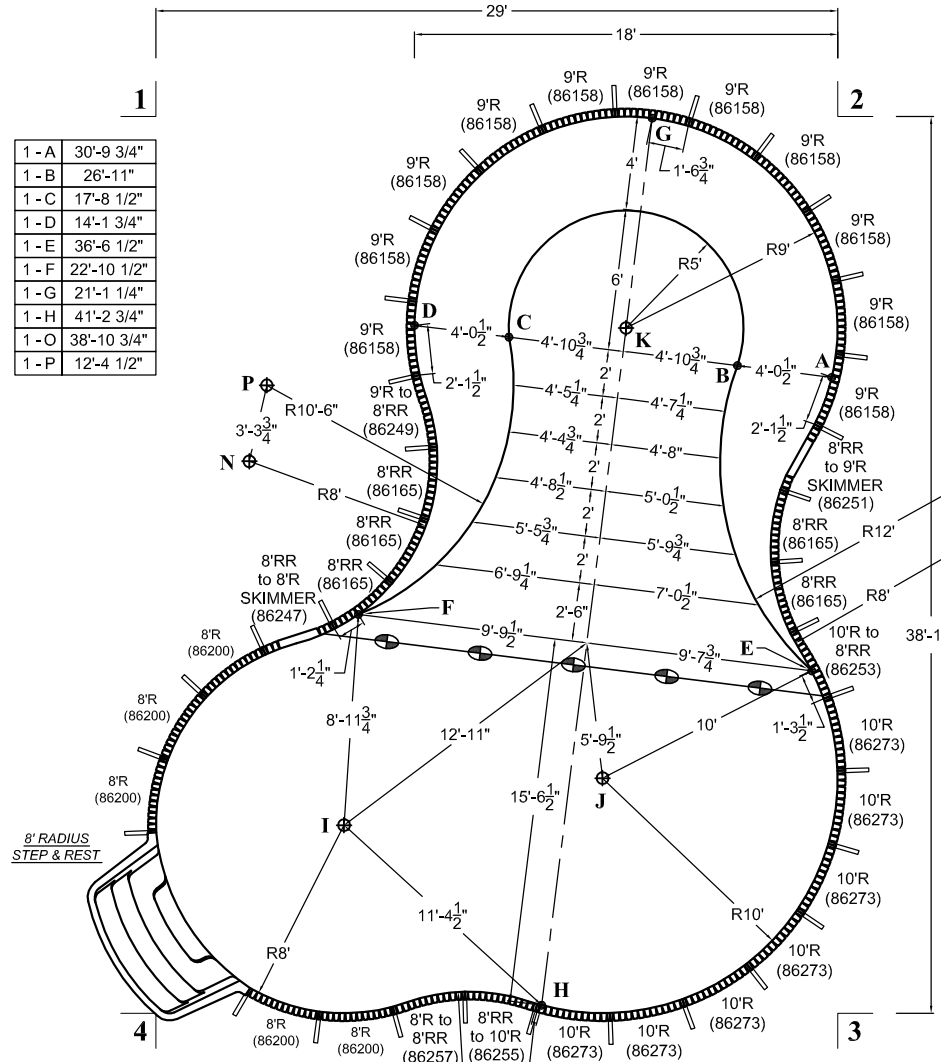
1 - 3	47'-11"
2 - 4	



2 - A	11'-1 1/4"
2 - B	11'-5"
2 - C	16'-10"
2 - D	20'-1"
2 - E	23'-7 1/4"
2 - F	29'-4 3/4"
2 - G	7'-10 3/4"
2 - H	39'-10 1/4"
2 - O	16'-3 3/4"
2 - P	26'-10"

G - A	13'-5"
G - B	11'-1 3/4"
G - C	11'-1 3/4"
G - D	13'-5"
G - E	24'-5 3/4"
G - F	24'-6 1/2"
G - H	38'-0 1/2"
G - O	20'-10 3/4"
G - P	19'-11 1/2"

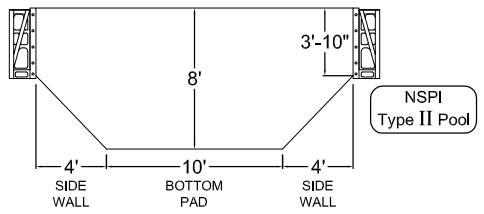
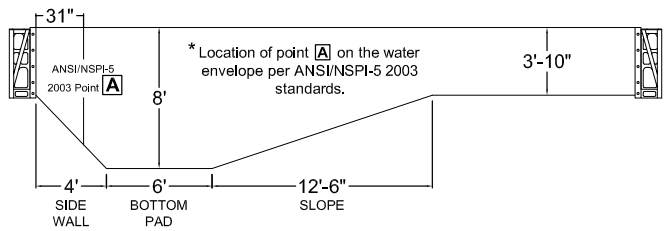
1 - A	30'-9 3/4"
1 - B	26'-11"
1 - C	17'-8 1/2"
1 - D	14'-1 3/4"
1 - E	36'-6 1/2"
1 - F	22'-10 1/2"
1 - G	21'-1 1/4"
1 - H	41'-2 3/4"
1 - O	38'-10 3/4"
1 - P	12'-4 1/2"



3 - A	27'-0 3/4"
3 - B	27'-10 1/2"
3 - C	31'-11 3/4"
3 - D	34'-4 1/4"
3 - E	14'-7 1/4"
3 - F	26'-6 1/4"
3 - G	38'-10 3/4"
3 - H	12'-7 1/4"
3 - O	24'-5 1/4"
3 - P	36'-1 1/4"

H - A	29'-5 1/4"
H - B	28'-5 1/2"
H - C	28'-5 1/2"
H - D	29'-5 1/4"
H - E	18'-3 1/2"
H - F	18'-4 1/4"
H - G	38'-0 1/2"
H - O	30'-3 1/4"
H - P	28'-10 1/4"

4 - A	39'-5 3/4"
4 - B	37'-0 1/4"
4 - C	32'-5 1/2"
4 - D	31'-3 1/4"
4 - E	31'-5 3/4"
4 - F	19'-0 1/4"
4 - G	43'-6 1/2"
4 - H	16'-5"
4 - O	42'-11 1/4"
4 - P	27'-1 1/2"



NSPI Type II Pool

**LAGOON LEFT**  
18' x 38' x 29'

POOL SURFACE AREA →	748.3 ft <sup>2</sup> 69.5 m <sup>2</sup>	LINER SQ. FT. →	862.6250 ft <sup>2</sup>
POOL VOLUME →	23300 gal 88200 L	POOL PERIMETER →	115' 35.05 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

2 - I	36'-9"
2 - J	29'-10 1/2"
2 - K	12'-8 3/4"
2 - L	47'-10 1/2"
2 - M	19'-1 1/2"
2 - N	29'
2 - W	20'-10 3/4"
2 - X	13'-1 1/2"
2 - Y	24'-9 1/4"
2 - Z	30'-6 1/2"

3 - I	22'-5 3/4"
3 - J	14'-1 3/4"
3 - K	30'-6 1/4"
3 - L	17'-2 1/4"
3 - M	20'-4 3/4"
3 - N	34'-3 3/4"
3 - W	32'-5 1/2"
3 - X	25'-1"
3 - Y	13'-4 3/4"
3 - Z	26'-11 1/4"

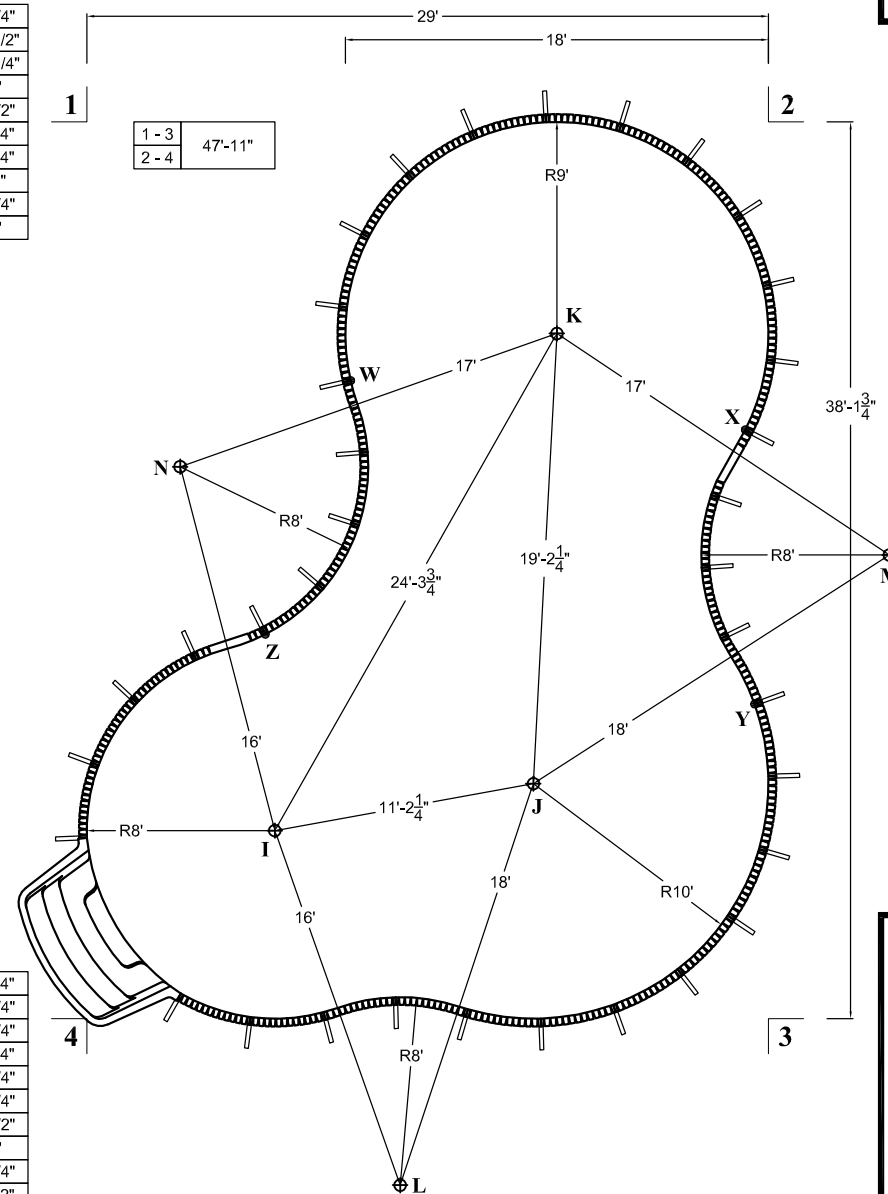
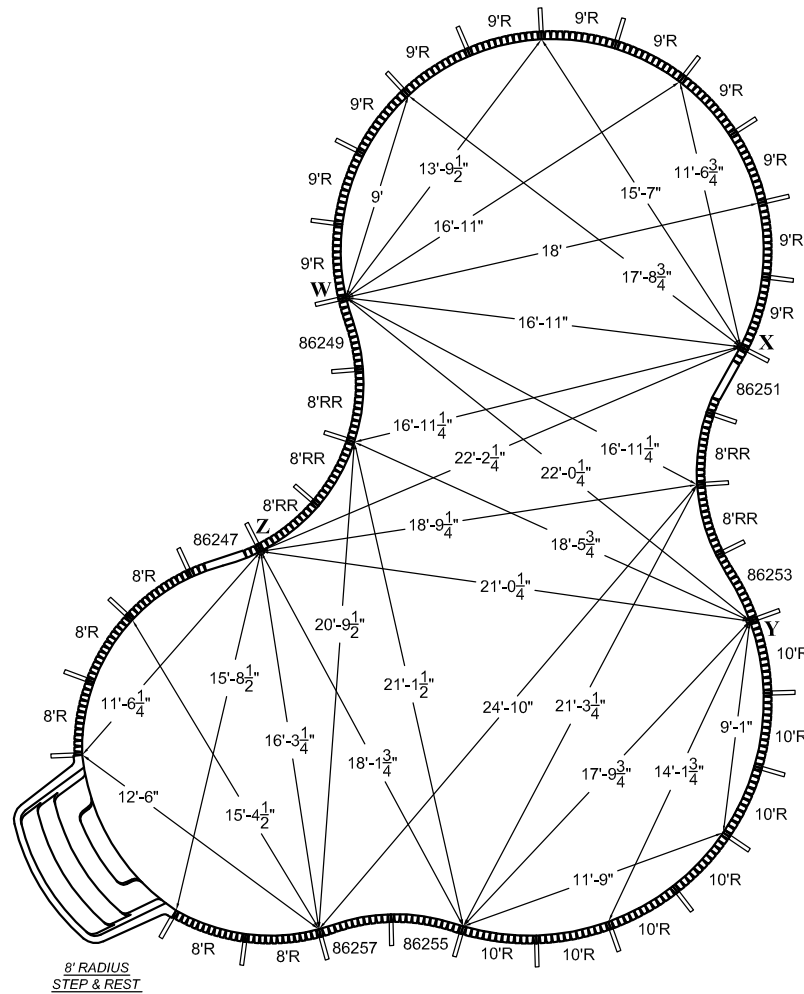
1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3" wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 10" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

1 - I	31'-2 1/4"
1 - J	33'-11 1/2"
1 - K	21'-11 1/4"
1 - L	47'-2"
1 - M	38'-9 1/2"
1 - N	15'-2 1/4"
1 - W	15'-8 3/4"
1 - X	30'-11"
1 - Y	37'-8 1/4"
1 - Z	23'-1"

1 - 3	
2 - 4	47'-11"

4 - I	11'-3 3/4"
4 - J	21'-5 3/4"
4 - K	35'-4 1/4"
4 - L	15'-1 1/4"
4 - M	39'-5 1/4"
4 - N	23'-9 3/4"
4 - W	29'-4 1/2"
4 - X	37'-7"
4 - Y	31'-4 3/4"
4 - Z	18'-0 1/2"





**LAGOON RIGHT**  
18' x 38' x 29'

POOL SURFACE AREA	748.3 ft <sup>2</sup>	LINER SQ. FT.	862,6250 ft <sup>2</sup>
POOL VOLUME	23300 gal	POOL PERIMETER	115'
	88200 L		35.05 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM #	ITEM DESCRIPTION	PART #
2	VERSA-FLEX SKIMMER PANEL	48116S
32	VERSA-FLEX PANEL	48115
5	8' REVERSE RADIUS STRAP SET	86165S
7	10' RADIUS STRAP SET	86273S
11	9' RADIUS STRAP SET	86158S
5	8' RADIUS STRAP SET	86200S
1	8'R to 8'RR STRAP SET	86248S
1	8'RR to 9'R STRAP SET	86250S
1	9'R to 8'RR STRAP SET	86252S
1	8'RR to 10'R STRAP SET	86254S
1	10'R to 8'RR STRAP SET	86256S
1	8'RR to 8'R STRAP SET	86258S
884	PUSH NUTS	09115
35	BRACE SYSTEM COMPLETE	48146
1	8' RADIUS STEP & REST	07418RSNR48
14*	3/8"-16X HEX WASHER HEAD BOLT	148838
14*	3/8"-16 HEX WASHER HEAD NUT	149664
	CHANNEL-LOC SONOTUBE	86152
	VERSA-FLEX STANDARD LIGHT PANEL	48116L

\* - use bolts at step connection

This configuration is only available with 8' Radius Step & Rest.

- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
- All inside pool dimensions are to be finished dimensions.
- Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 10' to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

2 - A	11'-1 1/4"
2 - B	11'-5"
2 - C	16'-10"
2 - D	20'-1"
2 - E	23'-7 1/4"
2 - F	29'-4 3/4"
2 - G	7'-10 3/4"
2 - H	39'-10 1/4"
2 - O	16'-3 3/4"
2 - P	26'-10"

1 - 3	47'-11"
2 - 4	

1 - A	30'-9 3/4"
1 - B	26'-11"
1 - C	17'-8 1/2"
1 - D	14'-1 3/4"
1 - E	36'-6 1/2"
1 - F	22'-10 1/2"
1 - G	21'-1 1/4"
1 - H	41'-2 3/4"
1 - O	38'-10 3/4"
1 - P	12'-4 1/2"

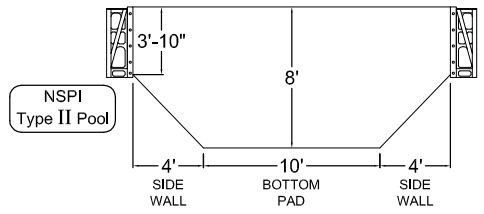
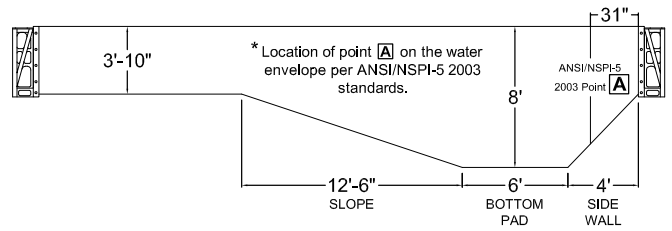
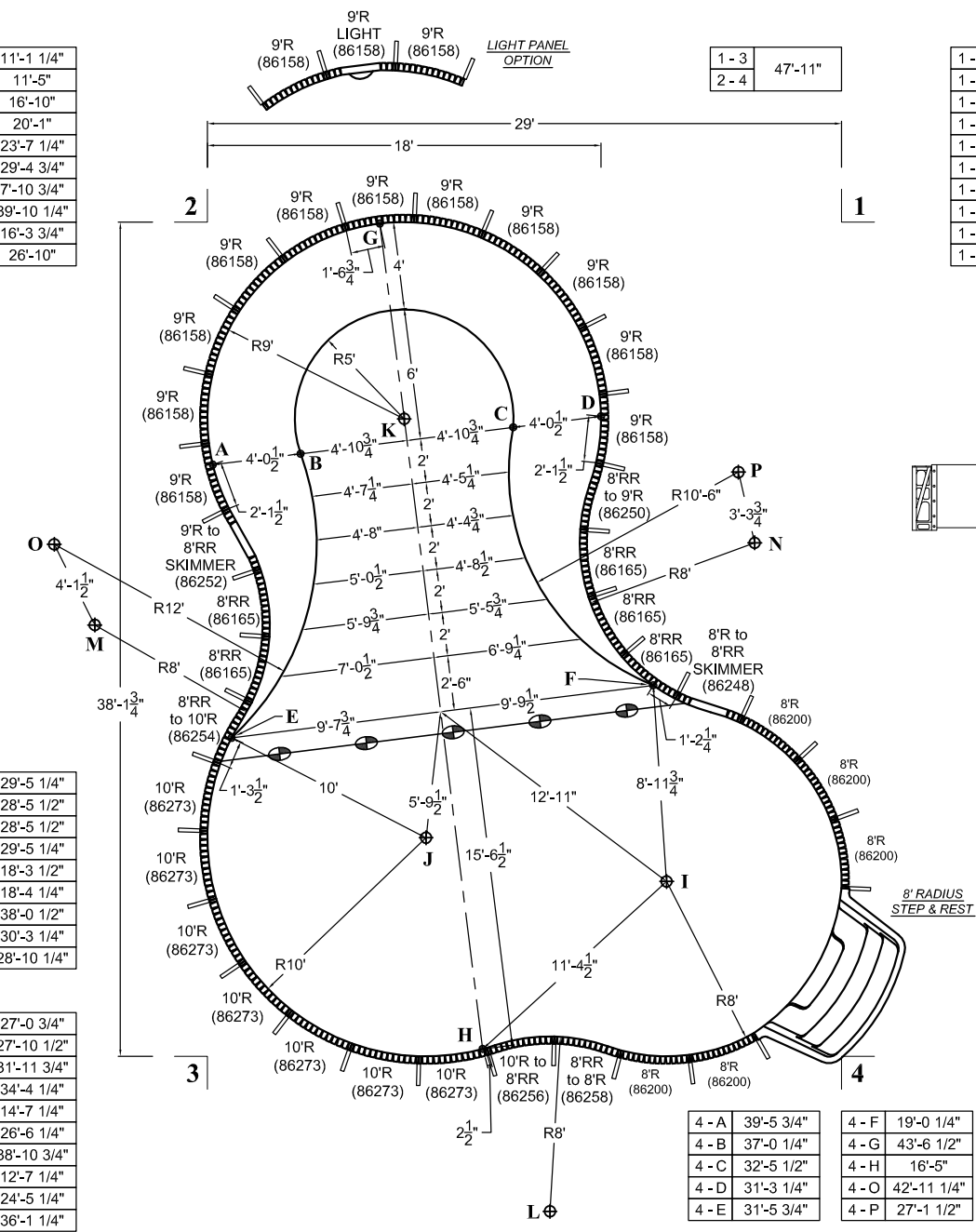
G - A	13'-5"
G - B	11'-1 3/4"
G - C	11'-1 3/4"
G - D	13'-5"
G - E	24'-5 3/4"
G - F	24'-6 1/2"
G - H	38'-0 1/2"
G - O	20'-10 3/4"
G - P	19'-11 1/2"

H - A	29'-5 1/4"
H - B	28'-5 1/2"
H - C	28'-5 1/2"
H - D	29'-5 1/4"
H - E	18'-3 1/2"
H - F	18'-4 1/4"
H - G	38'-0 1/2"
H - O	30'-3 1/4"
H - P	28'-10 1/4"

3 - A	27'-0 3/4"
3 - B	27'-10 1/2"
3 - C	31'-11 3/4"
3 - D	34'-4 1/4"
3 - E	14'-7 1/4"
3 - F	26'-6 1/4"
3 - G	38'-10 3/4"
3 - H	12'-7 1/4"
3 - O	24'-5 1/4"
3 - P	36'-1 1/4"

4 - A	39'-5 3/4"
4 - B	37'-0 1/4"
4 - C	32'-5 1/2"
4 - D	31'-3 1/4"
4 - E	31'-5 3/4"

4 - F	19'-0 1/4"
4 - G	43'-6 1/2"
4 - H	16'-5"
4 - O	42'-11 1/4"
4 - P	27'-1 1/2"

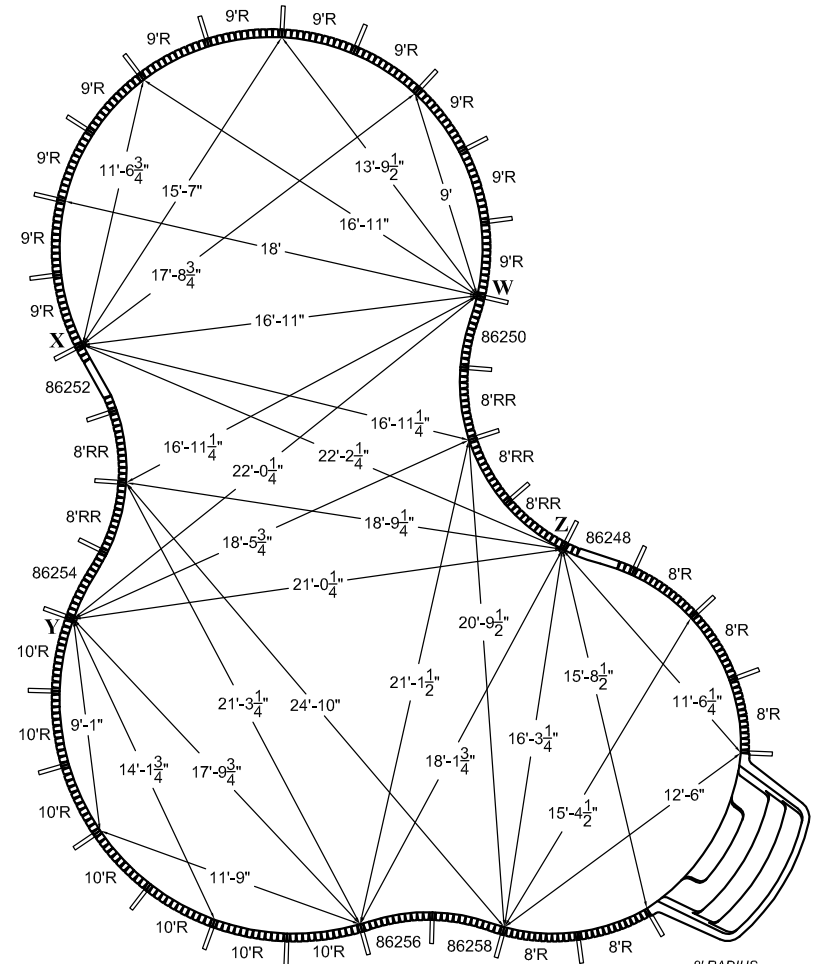


**LAGOON RIGHT**  
18' x 38' x 29'

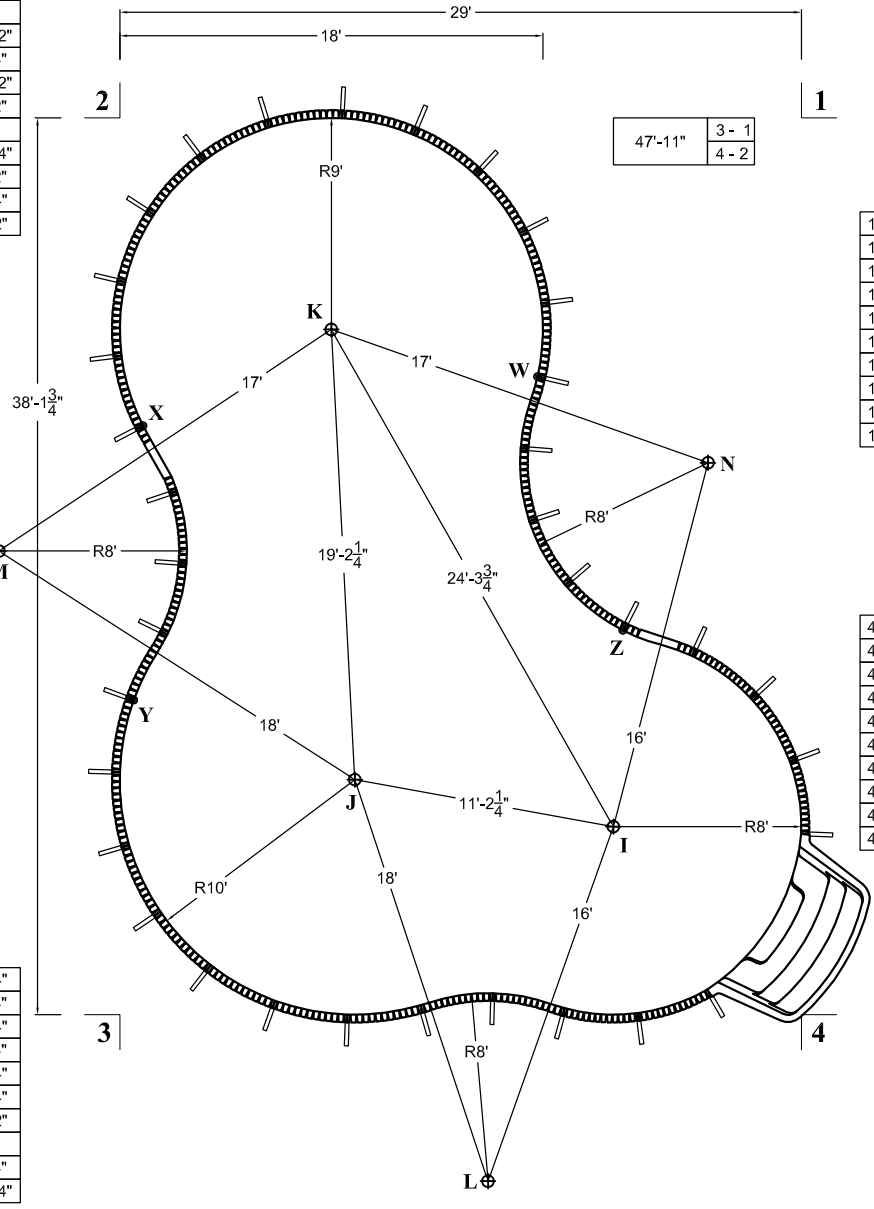
POOL SURFACE AREA	748.3 ft <sup>2</sup> 69,5 m <sup>2</sup>	LINER SQ. FT.	862.6250 ft <sup>2</sup>
POOL VOLUME	23300 gal 88200 L	POOL PERIMETER	115' 35,05 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

2 - I	36'-9"
2 - J	29'-10 1/2"
2 - K	12'-8 3/4"
2 - L	47'-10 1/2"
2 - M	19'-1 1/2"
2 - N	29'
2 - W	20'-10 3/4"
2 - X	13'-1 1/2"
2 - Y	24'-9 1/4"
2 - Z	30'-6 1/2"



3 - I	22'-5 3/4"
3 - J	14'-1 3/4"
3 - K	30'-6 1/4"
3 - L	17'-2 1/4"
3 - M	20'-4 3/4"
3 - N	34'-3 3/4"
3 - W	32'-5 1/2"
3 - X	25'-1"
3 - Y	13'-4 3/4"
3 - Z	26'-11 1/4"



47'-11"	3 - 1
	4 - 2

1 - I	31'-2 1/4"
1 - J	33'-11 1/2"
1 - K	21'-11 1/4"
1 - L	47'-2"
1 - M	38'-9 1/2"
1 - N	15'-2 1/4"
1 - W	15'-8 3/4"
1 - X	30'-11"
1 - Y	37'-8 1/4"
1 - Z	23'-1"

4 - I	11'-3 3/4"
4 - J	21'-5 3/4"
4 - K	35'-4 1/4"
4 - L	15'-1 1/4"
4 - M	39'-5 1/4"
4 - N	23'-9 3/4"
4 - W	29'-4 1/2"
4 - X	37'-7"
4 - Y	31'-4 3/4"
4 - Z	18'-0 1/2"

1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1' away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

**LAGOON LEFT**  
20' x 42' x 30'

POOL SURFACE AREA	862.5 ft <sup>2</sup>	LINER SQ. FT.	1000.6667 ft <sup>2</sup>
POOL VOLUME	28100 gal	POOL PERIMETER	124'-3"
	106300 L		37.87 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

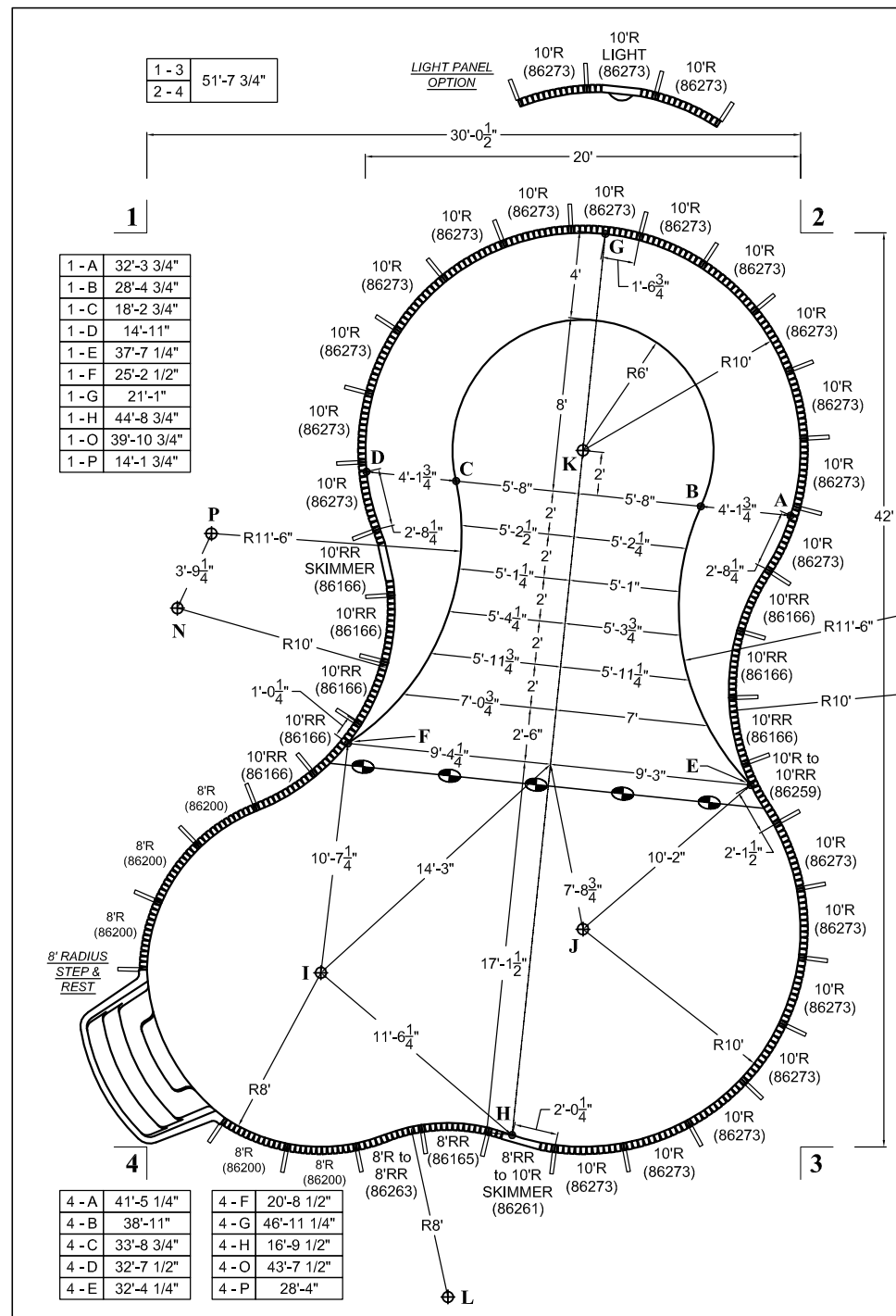
ITEM DESCRIPTION	PART #
2	VERSA-FLEX SKIMMER PANEL 48116S
35	VERSA-FLEX PANEL 48115
8	10' REVERSE RADIUS STRAP SET 86166S
1	8' REVERSE RADIUS STRAP SET 86165S
20	10' RADIUS STRAP SET 86273S
5	8' RADIUS STRAP SET 86200S
1	10'R to 10'RR STRAP SET 86259S
1	8'RR to 10'R STRAP SET 86261S
1	8'R to 8'RR STRAP SET 86263S
312	PUSH NUTS 09115
38	BRACE SYSTEM COMPLETE 48146
1	8' RADIUS STEP & REST 07418RSNR48
14*	3/8"-16X HEX WASHER HEAD BOLT 148838
14*	3/8"-16 HEX WASHER HEAD NUT 149664
	CHANNEL-LOC SONOTUBE 86152
	VERSA-FLEX STANDARD LIGHT PANEL 48116L

\* - use bolts at step connection

This configuration is only available with 8' Radius Step & Rest.

- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
- All inside pool dimensions are to be finished dimensions.
- Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 10' to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.



1 - 3	51'-7 3/4"
2 - 4	

1 - A	32'-3 3/4"
1 - B	28'-4 3/4"
1 - C	18'-2 3/4"
1 - D	14'-11"
1 - E	37'-7 1/4"
1 - F	25'-2 1/2"
1 - G	21'-1"
1 - H	44'-8 3/4"
1 - O	39'-10 3/4"
1 - P	14'-1 3/4"

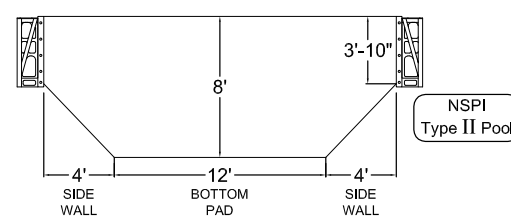
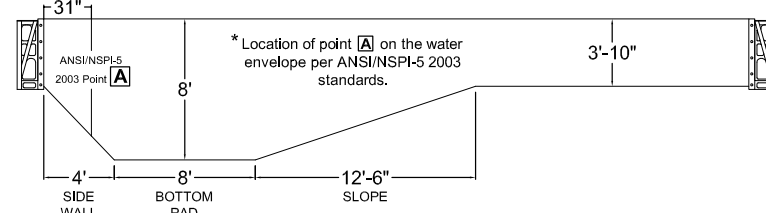
2 - A	13'
2 - B	13'-4 1/2"
2 - C	19'-6 1/4"
2 - D	22'-9 1/4"
2 - E	25'-5 3/4"
2 - F	31'-4 1/4"
2 - G	8'-11 3/4"
2 - H	43'-6 1/4"
2 - O	18'-3 1/2"
2 - P	30'-4 3/4"

G - A	15'-6"
G - B	13'-3 1/4"
G - C	13'-3 1/4"
G - D	15'-6"
G - E	26'-2 1/4"
G - F	31'-4 1/4"
G - H	41'-7 1/2"
G - O	22'-9 1/4"
G - P	22'-9"

4 - A	41'-5 1/4"
4 - B	38'-11"
4 - C	33'-8 3/4"
4 - D	32'-7 1/2"
4 - E	32'-4 1/4"
4 - F	20'-8 1/2"
4 - G	46'-11 1/4"
4 - H	16'-9 1/2"
4 - O	43'-7 1/2"
4 - P	28'-4"

3 - A	29'
3 - B	29'-9 1/2"
3 - C	34'-5 1/4"
3 - D	36'-10 1/2"
3 - E	16'-9 1/4"
3 - F	27'-10 1/4"
3 - G	42'-10 3/4"
3 - H	13'-3 1/4"
3 - O	25'-4 3/4"
3 - P	39'-1"

H - A	31'-2 1/2"
H - B	30'-2"
H - C	30'-2"
H - D	31'-2 1/2"
H - E	19'-5 1/2"
H - F	19'-6 1/4"
H - G	41'-7 1/2"
H - O	30'-10"
H - P	30'-10 3/4"

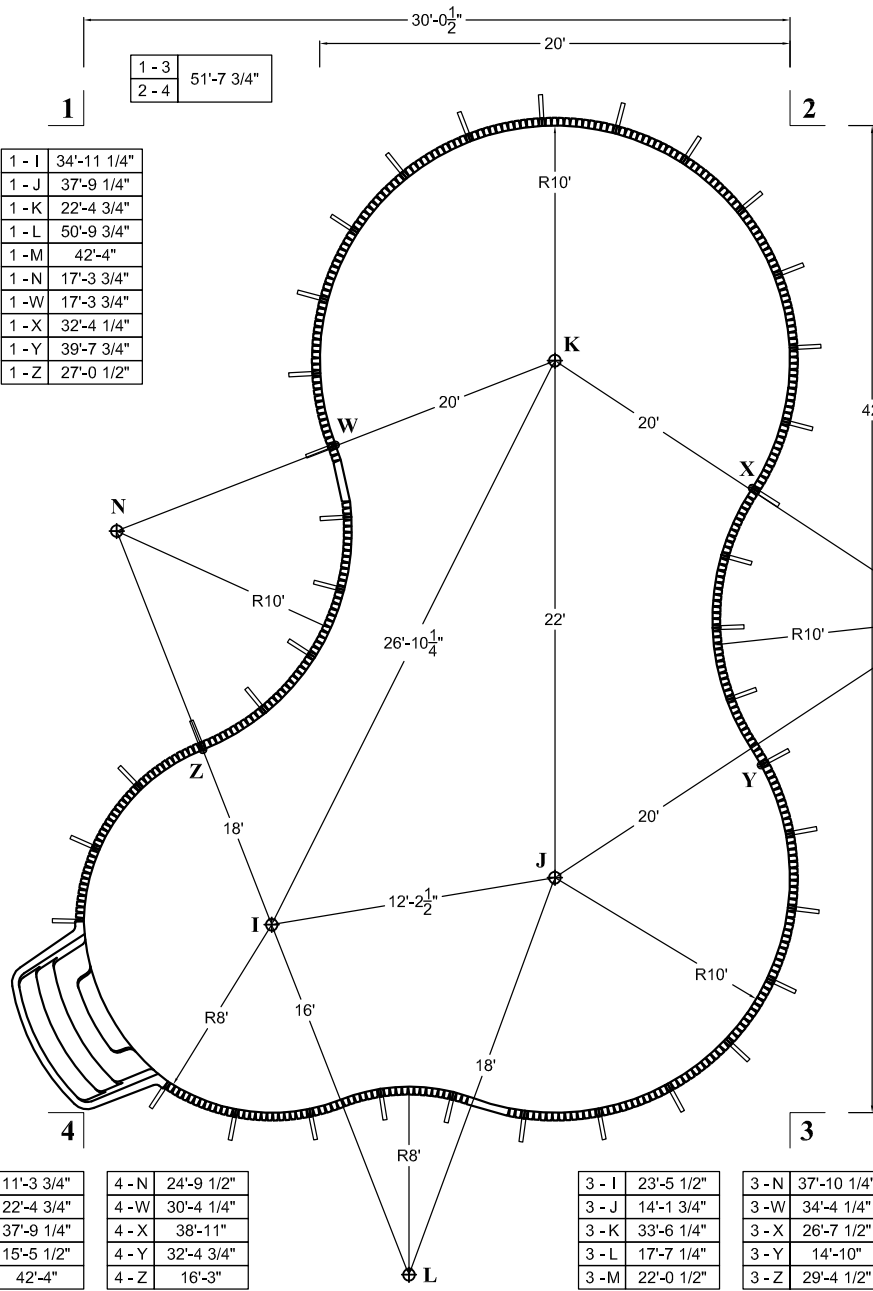
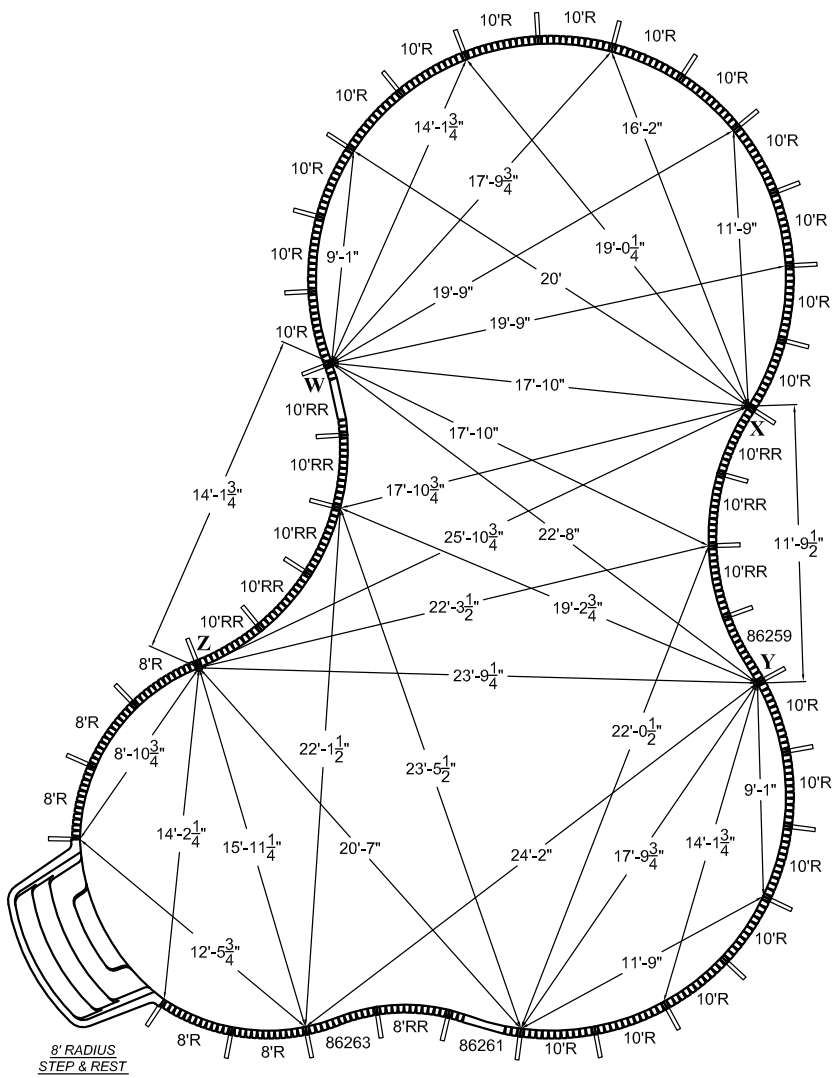


The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

**LAGOON LEFT**  
20' x 42' x 30'

POOL SURFACE AREA	862.5 ft <sup>2</sup>	LINER SQ. FT.	1000.6667 ft <sup>2</sup>
POOL VOLUME	28100 gal	POOL PERIMETER	124'-3"
	106300 L		37.87 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**



1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1' away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

**LAGOON RIGHT**  
20' x 42' x 30'

POOL SURFACE AREA	862.5 ft <sup>2</sup>	LINER SQ. FT.	1000.6667 ft <sup>2</sup>
POOL VOLUME	28100 gal	POOL PERIMETER	124'-3"
	106300 L		37.87 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM DESCRIPTION	PART #
2 VERSA-FLEX SKIMMER PANEL	48116S
35 VERSA-FLEX PANEL	48115
8 10' REVERSE RADIUS STRAP SET	86166S
1 8' REVERSE RADIUS STRAP SET	86165S
20 10' RADIUS STRAP SET	86273S
5 8' RADIUS STRAP SET	86200S
1 10'RR to 10'R STRAP SET	86260S
1 10'R to 8'RR STRAP SET	86262S
1 8'RR to 8'R STRAP SET	86264S
312 PUSH NUTS	09115
38 BRACE SYSTEM COMPLETE	48146
1 8' RADIUS STEP & REST	07418RSNR48
14* 3/8"-16X HEX WASHER HEAD BOLT	148838
14* 3/8"-16 HEX WASHER HEAD NUT	149664
CHANNEL-LOC SONOTUBE	86152
VERSA-FLEX STANDARD LIGHT PANEL	48116L

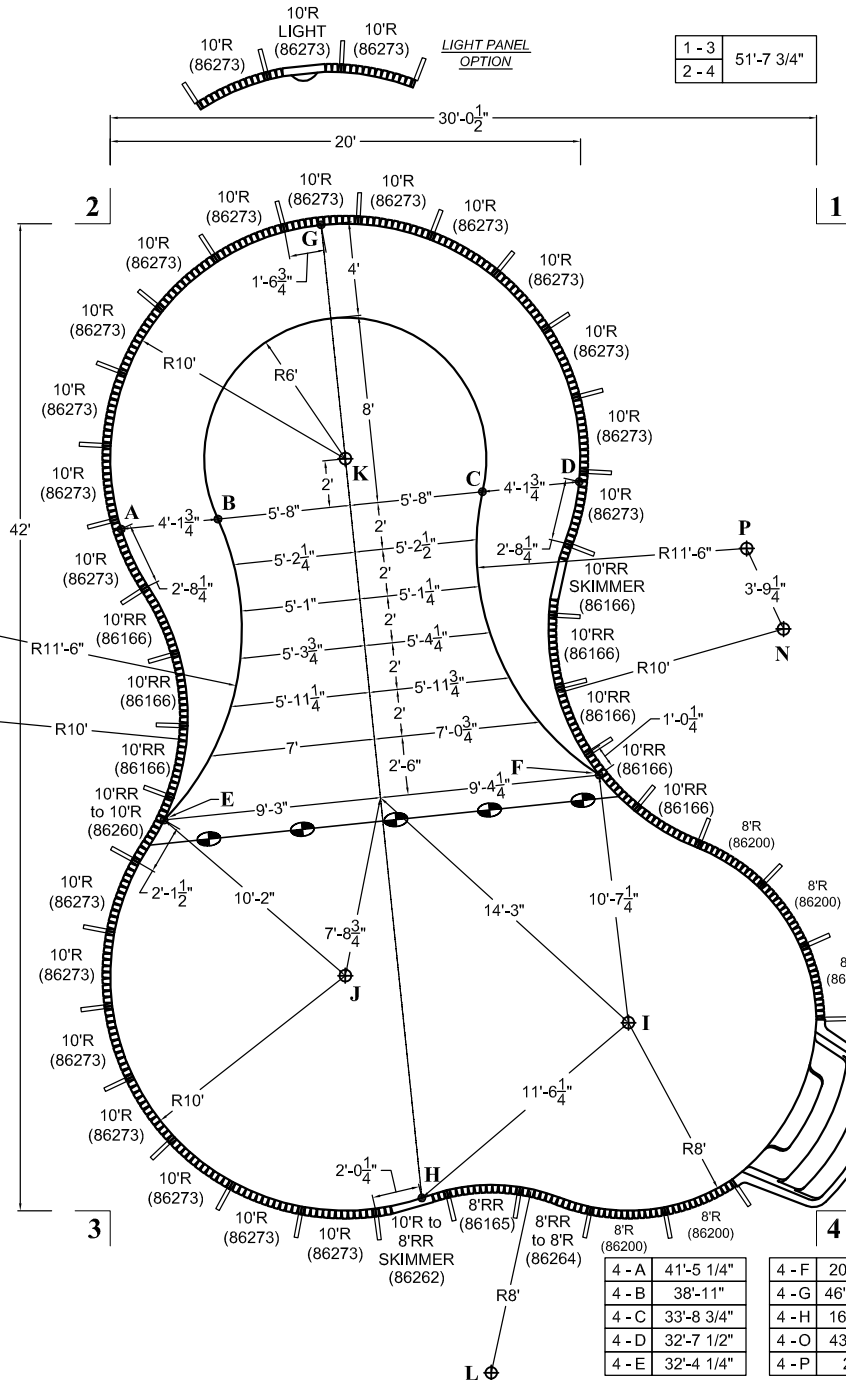
\* - use bolts at step connection

This configuration is only available with 8' Radius Step & Rest.

- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
- All inside pool dimensions are to be finished dimensions.
- Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 10" to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

2 - A	13'
2 - B	13'-4 1/2"
2 - C	19'-6 1/4"
2 - D	22'-9 1/4"
2 - E	25'-5 3/4"
2 - F	31'-4 1/4"
2 - G	8'-11 3/4"
2 - H	43'-6 1/4"
2 - O	18'-3 1/2"
2 - P	30'-4 3/4"



1 - 3	51'-7 3/4"
2 - 4	

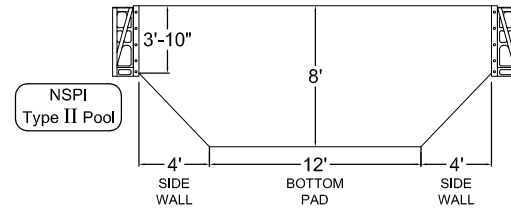
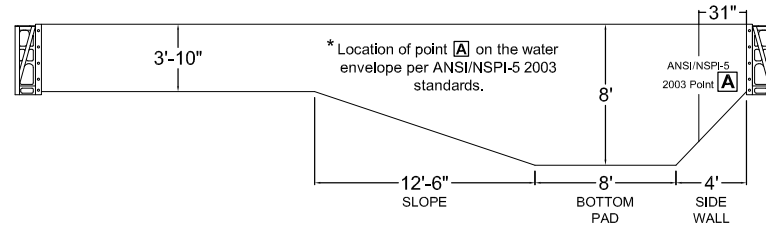
1 - A	32'-3 3/4"
1 - B	28'-4 3/4"
1 - C	18'-2 3/4"
1 - D	14'-1 1/4"
1 - E	37'-7 1/4"
1 - F	25'-2 1/2"
1 - G	21'-1"
1 - H	44'-8 3/4"
1 - O	39'-10 3/4"
1 - P	14'-1 3/4"

G - A	15'-6"
G - B	13'-3 1/4"
G - C	13'-3 1/4"
G - D	15'-6"
G - E	26'-2 1/4"
G - F	31'-4 1/4"
G - H	41'-7 1/2"
G - O	22'-9 1/4"
G - P	22'-9"

H - A	31'-2 1/2"
H - B	30'-2"
H - C	30'-2"
H - D	31'-2 1/2"
H - E	19'-5 1/2"
H - F	19'-6 1/4"
H - G	41'-7 1/2"
H - O	30'-10"
H - P	30'-10 3/4"

3 - A	29'
3 - B	29'-9 1/2"
3 - C	34'-5 1/4"
3 - D	36'-10 1/2"
3 - E	16'-9 1/4"
3 - F	27'-10 1/4"
3 - G	42'-10 3/4"
3 - H	13'-3 1/4"
3 - O	25'-4 3/4"
3 - P	39'-1"

4 - A	41'-5 1/4"
4 - B	38'-11"
4 - C	33'-8 3/4"
4 - D	32'-7 1/2"
4 - E	32'-4 1/4"
4 - F	20'-8 1/2"
4 - G	46'-11 1/4"
4 - H	16'-9 1/2"
4 - O	43'-7 1/2"
4 - P	28'-4"



\* - use bolts at step connection

This configuration is only available with 8' Radius Step & Rest.

- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
- All inside pool dimensions are to be finished dimensions.
- Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 10" to the shallow side of the point of first slope change.
- Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
- Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

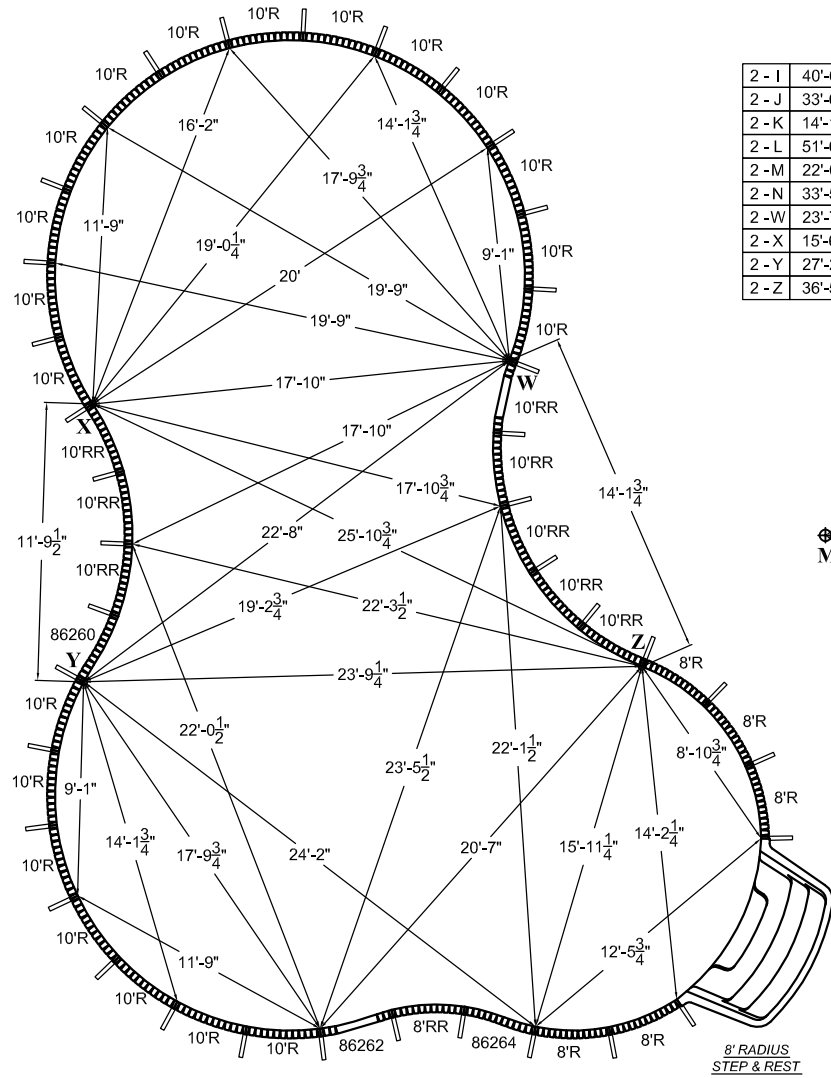
JANUARY  
2011

**MATRIX [PLUS]**  
POOL SYSTEM

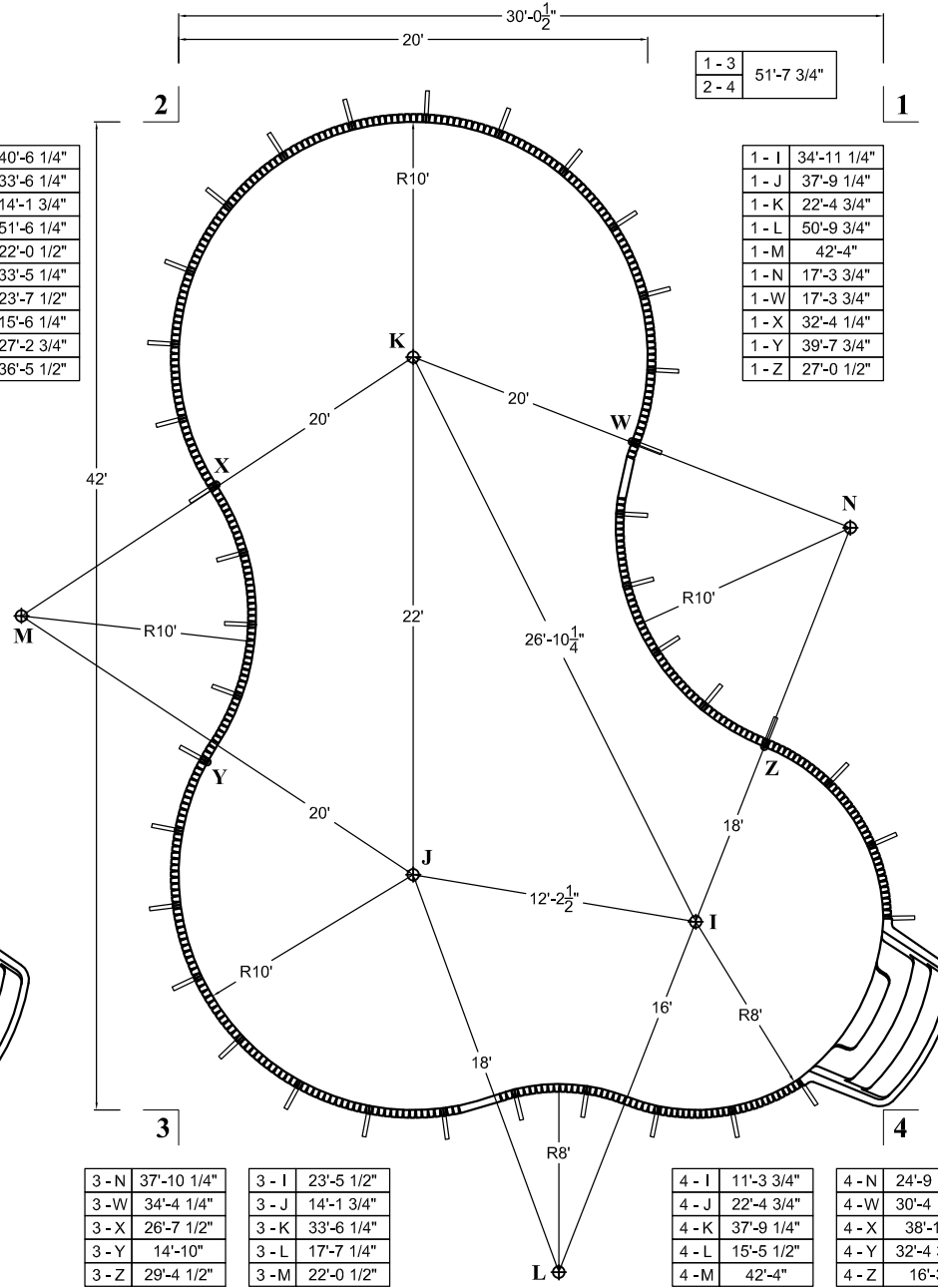
**LAGOON RIGHT**  
20' x 42' x 30'

POOL SURFACE AREA	862.5 ft <sup>2</sup>	LINER SQ. FT.	1000.6667 ft <sup>2</sup>
POOL VOLUME	28100 gal	POOL PERIMETER	124'-3"
	106300 L		37.87 m

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**



2 - I	40'-6 1/4"
2 - J	33'-6 1/4"
2 - K	14'-1 3/4"
2 - L	51'-6 1/4"
2 - M	22'-0 1/2"
2 - N	33'-5 1/4"
2 - W	23'-7 1/2"
2 - X	15'-6 1/4"
2 - Y	27'-2 3/4"
2 - Z	36'-5 1/2"



1 - 3	51'-7 3/4"
2 - 4	

1 - I	34'-11 1/4"
1 - J	37'-9 1/4"
1 - K	22'-4 3/4"
1 - L	50'-9 3/4"
1 - M	42'-4"
1 - N	17'-3 3/4"
1 - W	17'-3 3/4"
1 - X	32'-4 1/4"
1 - Y	39'-7 3/4"
1 - Z	27'-0 1/2"

3 - N	37'-10 1/4"
3 - W	34'-4 1/4"
3 - X	26'-7 1/2"
3 - Y	14'-10"
3 - Z	29'-4 1/2"

3 - I	23'-5 1/2"
3 - J	14'-1 3/4"
3 - K	33'-6 1/4"
3 - L	17'-7 1/4"
3 - M	22'-0 1/2"

4 - I	11'-3 3/4"
4 - J	22'-4 3/4"
4 - K	37'-9 1/4"
4 - L	15'-5 1/2"
4 - M	42'-4"

4 - N	24'-9 1/2"
4 - W	30'-4 1/4"
4 - X	38'-11"
4 - Y	32'-4 3/4"
4 - Z	16'-3"

1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
2. Back fill with clean earth, free of roots and debris.
3. 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1' away from the pool.
4. All inside pool dimensions are to be finished dimensions.
5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 10" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
8. Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.







**FIGURE 8**  
**20' x 40'**

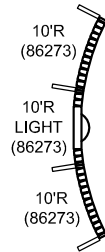
1 - A	12'
1 - B	12'-9 1/4"
1 - C	19'-8 3/4"
1 - D	23'-1 3/4"
1 - E	24'-6 3/4"
1 - F	30'-7"
1 - G	10'
1 - H	41'-3 1/2"
1 - M	31'-4 3/4"
1 - N	17'-6 3/4"

1 - 3	44'-9 1/4"
2 - 4	

2 - A	28'-0 3/4"
2 - B	28'-4 3/4"
2 - C	32'-1 1/2"
2 - D	34'-4"
2 - E	15'-7 3/4"
2 - F	24'-0 1/4"
2 - G	41'-3 1/2"
2 - H	10'
2 - M	36'-0 1/4"
2 - N	24'-10 3/4"

G - A	15'-6"
G - B	13'-3 1/4"
G - C	13'-3 1/4"
G - D	15'-6"
G - E	25'-10 1/2"
G - F	25'-10 1/2"
G - H	40'-0 3/4"
G - M	23'-4 1/2"
G - N	23'-4 1/2"

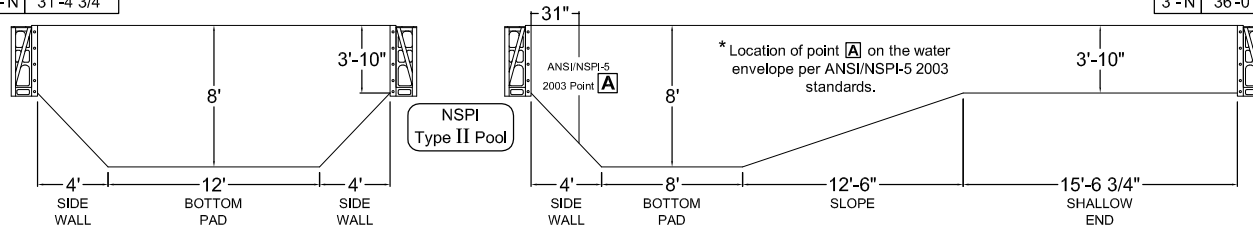
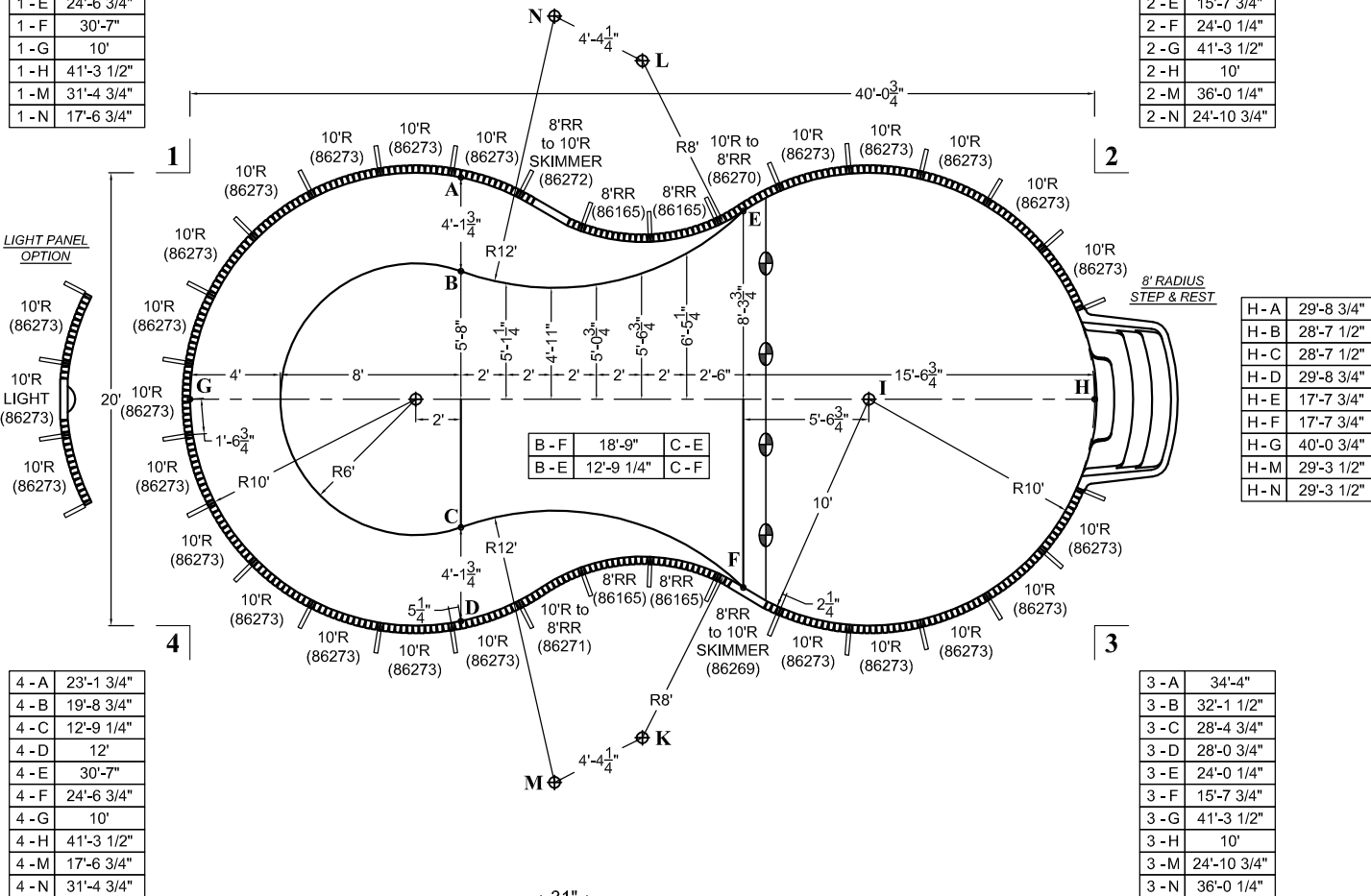
LIGHT PANEL  
OPTION



4 - A	23'-1 3/4"
4 - B	19'-8 3/4"
4 - C	12'-9 1/4"
4 - D	12'
4 - E	30'-7"
4 - F	24'-6 3/4"
4 - G	10'
4 - H	41'-3 1/2"
4 - M	17'-6 3/4"
4 - N	31'-4 3/4"

H - A	29'-8 3/4"
H - B	28'-7 1/2"
H - C	28'-7 1/2"
H - D	29'-8 3/4"
H - E	17'-7 3/4"
H - F	17'-7 3/4"
H - G	40'-0 3/4"
H - M	29'-3 1/2"
H - N	29'-3 1/2"

3 - A	34'-4"
3 - B	32'-1 1/2"
3 - C	28'-4 3/4"
3 - D	28'-0 3/4"
3 - E	24'-0 1/4"
3 - F	15'-7 3/4"
3 - G	41'-3 1/2"
3 - H	10'
3 - M	24'-10 3/4"
3 - N	36'-0 1/4"



POOL SURFACE AREA	656.6 ft <sup>2</sup> 61.0 m <sup>2</sup>	LINER SQ. FT.	801.25 ft <sup>2</sup>
POOL VOLUME	23900 gal 90400 L	POOL PERIMETER	105'-5"

**DIVING PERMITTED ONLY FROM DESIGNATED DIVING AREA**

ITEM DESCRIPTION	PART #
2	VERSA-FLEX SKIMMER PANEL 48116S
29	VERSA-FLEX PANEL 48115
4	8' REVERSE RADIUS STRAP SET 86165S
23	10' RADIUS STRAP SET 86273S
1	8'RR to 10'R STRAP SET 86269S
1	10'R to 8'RR STRAP SET 86270S
1	10'R to 8'RR STRAP SET 86271S
1	8'RR to 10'R STRAP SET 86272S
806	PUSH NUTS 09115
32	BRACE SYSTEM COMPLETE 48146
1	8' RADIUS STEP & REST 07418RSNR48
14"	3/8"-16X HEX WASHER HEAD BOLT 148838
14"	3/8"-16 HEX WASHER HEAD NUT 149664
	CHANNEL-LOC SONOTUBE 86152
	VERSA-FLEX STANDARD LIGHT PANEL 48116L

\* - use bolts at step connection

This configuration is only available with 8' Radius Step & Rest.

- Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
- Back fill with clean earth, free of roots and debris.
- 3' wide concrete deck is to be poured at least 3" thickness and a slope of 1/4" to 1" away from the pool.
- All inside pool dimensions are to be finished dimensions.
- Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
- A safety line, with buoys, is to be permanently attached 10" to the shallow side of the point of first slope change.
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The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

**FIGURE 8**  
**20' x 40'**

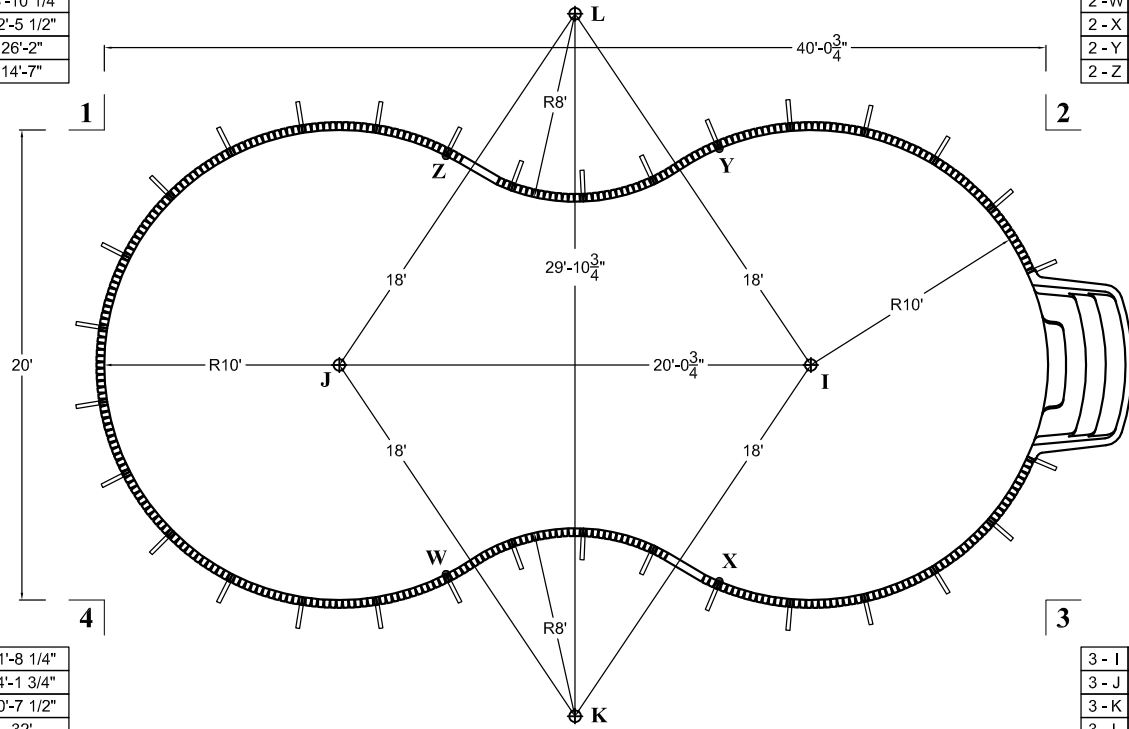
POOL SURFACE AREA →	656.6 ft <sup>2</sup> 61.0 m <sup>2</sup>	LINER SQ. FT. →	801.25 ft <sup>2</sup>
POOL VOLUME →	23900 gal 90400 L	POOL PERIMETER →	105'-5" 31.13 m

**DIVING PERMITTED ONLY FROM  
DESIGNATED DIVING AREA**

1 - I	31'-8 1/4"
1 - J	14'-1 3/4"
1 - K	32'
1 - L	20'-7 1/2"
1 - W	23'-10 1/4"
1 - X	32'-5 1/2"
1 - Y	26'-2"
1 - Z	14'-7"

1 - 3	44'-9 1/4"
2 - 4	

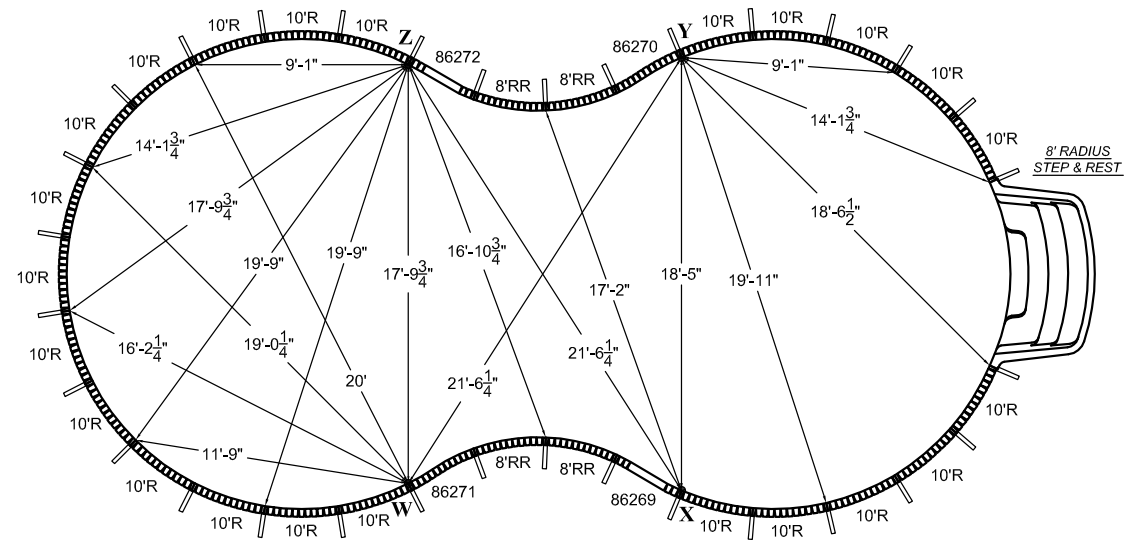
2 - I	14'-1 3/4"
2 - J	31'-8 1/4"
2 - K	32'
2 - L	20'-7 1/2"
2 - W	31'-9 1/4"
2 - X	23'-8 1/2"
2 - Y	13'-11"
2 - Z	25'-6 1/2"



4 - I	31'-8 1/4"
4 - J	14'-1 3/4"
4 - K	20'-7 1/2"
4 - L	32'
4 - W	14'-7"
4 - X	26'-2"
4 - Y	32'-5 1/2"
4 - Z	23'-10 1/4"

**3**

3 - I	14'-1 3/4"
3 - J	31'-8 1/4"
3 - K	20'-7 1/2"
3 - L	32'
3 - W	25'-6 1/2"
3 - X	13'-11"
3 - Y	23'-8 1/2"
3 - Z	31'-9 1/4"



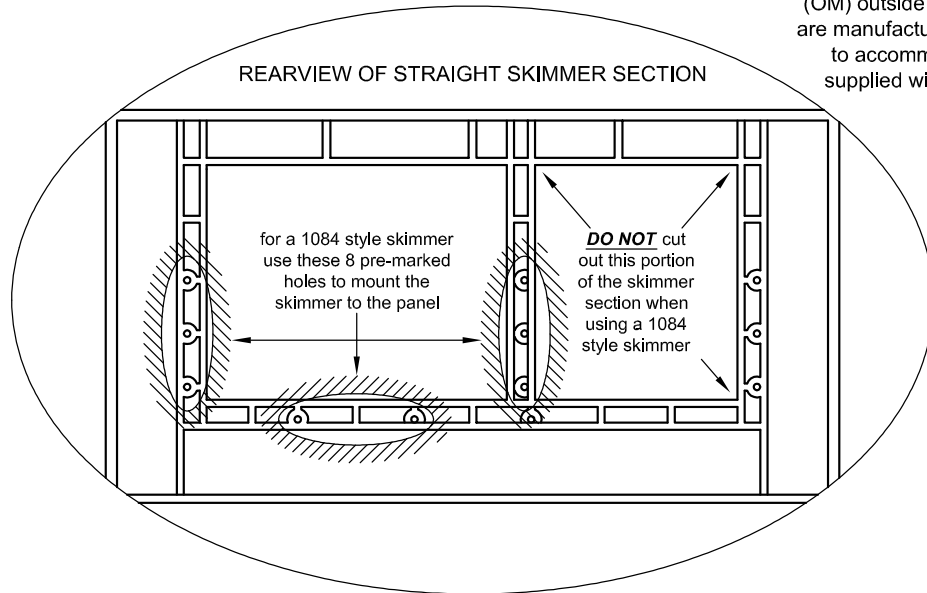
1. Pour 2500 P.S.I. concrete footing around entire perimeter, minimum 8" deep.
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5. Finished bottom is to be 2" minimum of suitable material or undisturbed earth.
6. A safety line, with buoys, is to be permanently attached 1'0" to the shallow side of the point of first slope change.
7. Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.
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The bottom configuration shown conforms with current NSPI / ANSI suggested minimum standards for pools approved for use with manufactured diving equipment. If diving equipment is installed, follow the equipment manufacturer's installation, use and safety instructions.

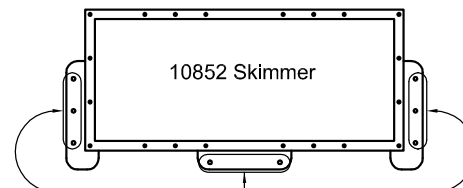
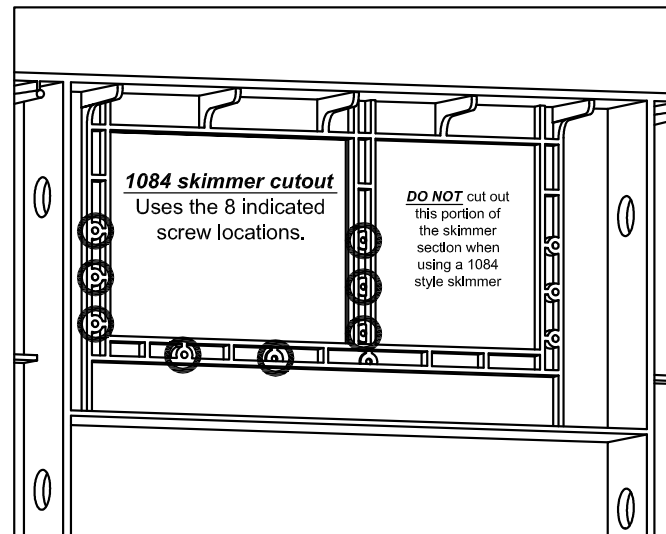
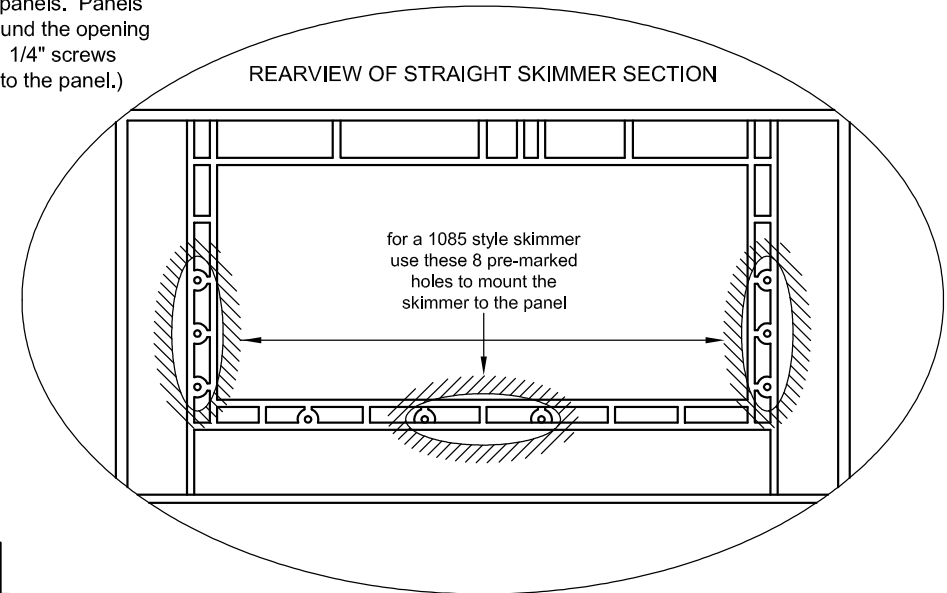
**\*\*\*\* SKIMMER PANEL INSTALLATION NOTE \*\*\*\***

Using a standard SP10841 or SP10852 skimmer, you will get an (OM) outside mount application on Matrix skimmer panels. Panels are manufactured with a thicker material section around the opening to accommodate this special application. (Use 1 1/4" screws supplied with the skimmer to mount the skimmer to the panel.)

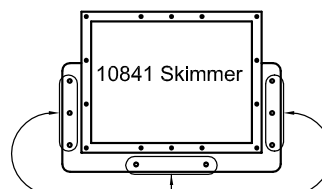
REARVIEW OF STRAIGHT SKIMMER SECTION



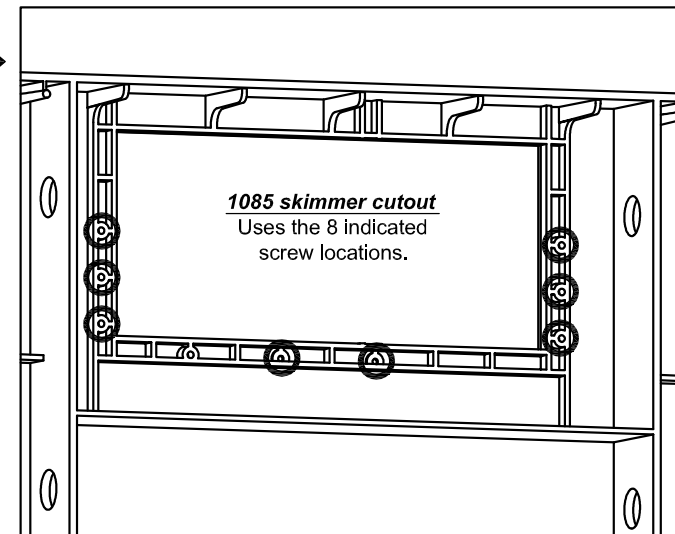
REARVIEW OF STRAIGHT SKIMMER SECTION



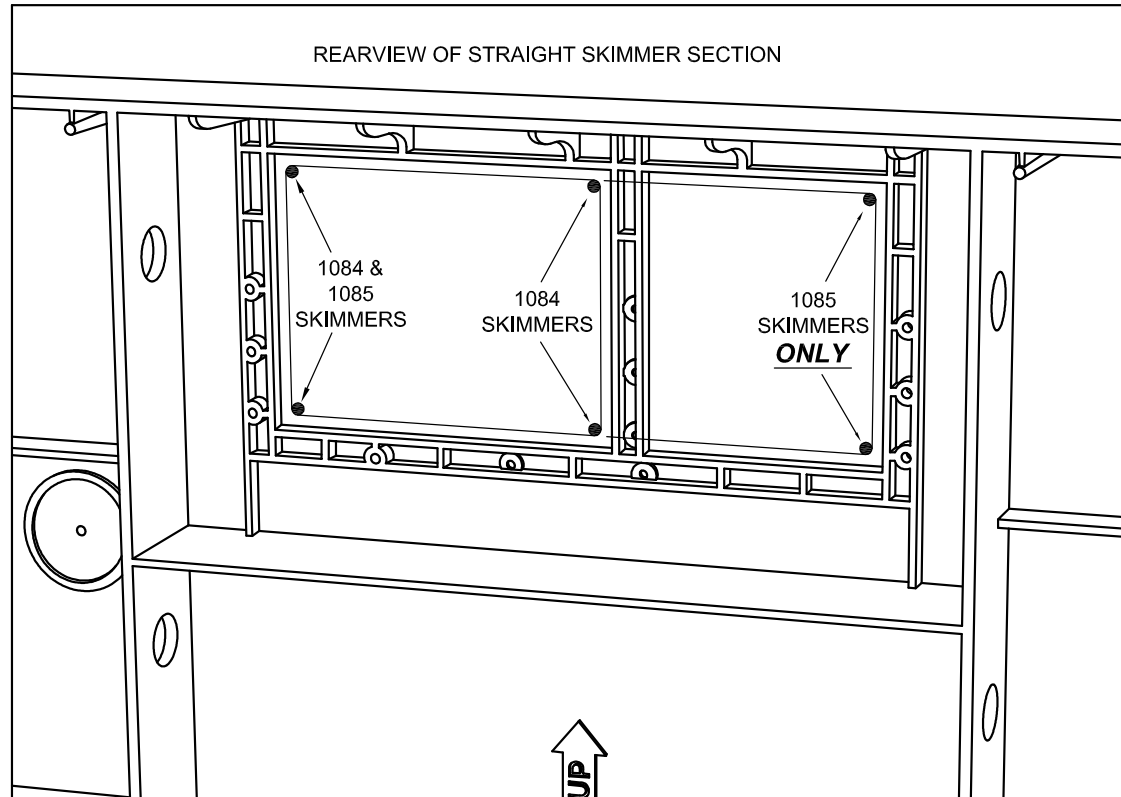
These 8 holes on the outer mounting flange of the skimmer align with the 8 pre-marked mounting holes for a 1085 style skimmer on the backside of the panel.



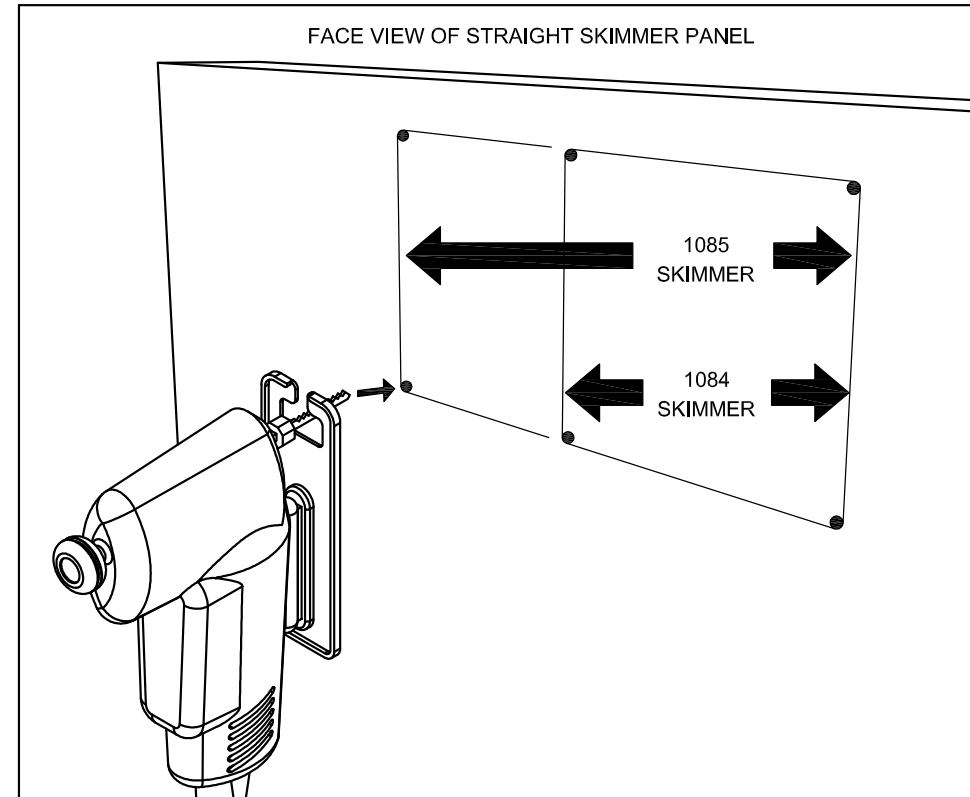
These 8 holes on the outer mounting flange of the skimmer align with the 8 pre-marked mounting holes for a 1084 style skimmer on the backside of the panel.



SKIMMER CUTOUT PROCEDURE



Depending on the type of skimmer used, drill the appropriate mounting holes (see page A1 to identify the proper holes), and the 4 starter holes at the corners of the skimmer boss on the backside of the panel. If you are using a 1084 style skimmer be sure **NOT** to drill holes in the extended skimmer section that accommodates the 1085 style skimmer.



Using a straight edge, draw lines to show the skimmer section to be cut out. Use the outer edges of the drilled starter holes as a guide.

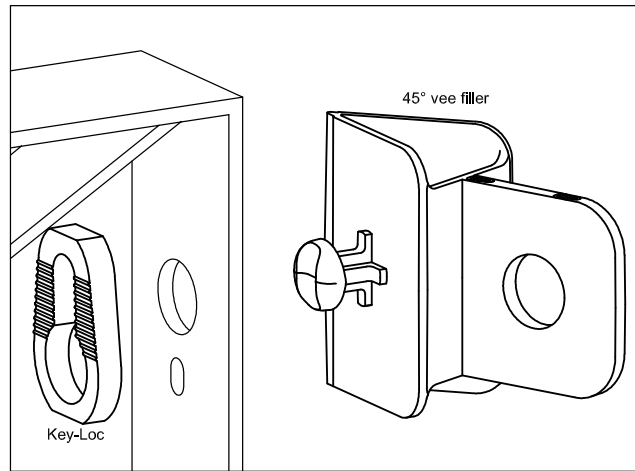
Cut the perimeter of the skimmer opening with a jigsaw. Use a coarse wood blade with large teeth to reduce the heating of the polymer panel.

\*\*\* **NOTE** \*\*\*

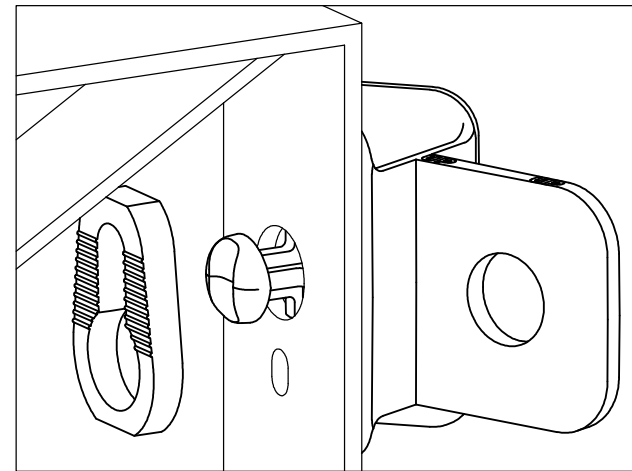
Remove all the material within the skimmer cutout area. The ribbing on the back of the panel is designed to precisely fit the 1084 or 1085 style skimmer. If material from the face of the panel remains inside the ribbing of the cutout area, the skimmer may not fit in the opening.

**KEY-LOC, VEE FILLER &  
GRECIAN CORNER SLEEVE**

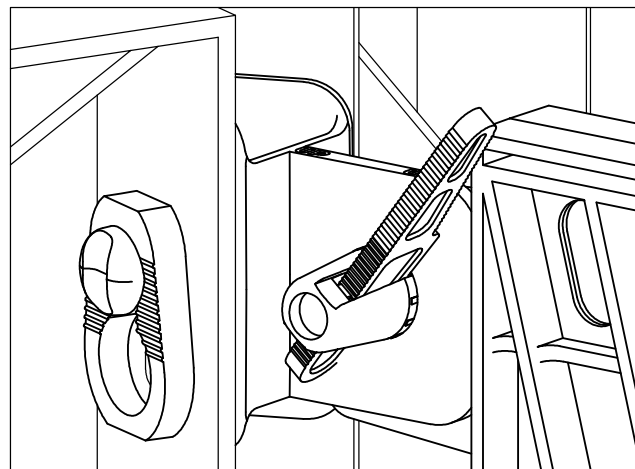
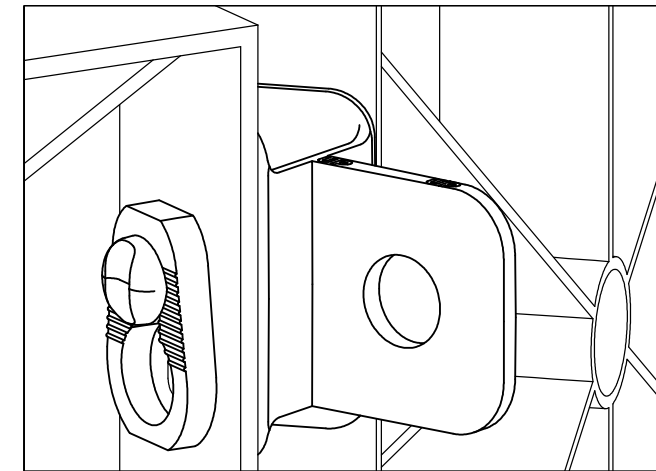
**1)** Each 45° Vee filler will connect 2 wall panels using the standard peg holes on the panels side flanges. Each 48" tall panel connection will require a total of (5) - 45° vee fillers and (10) Key-Locs.



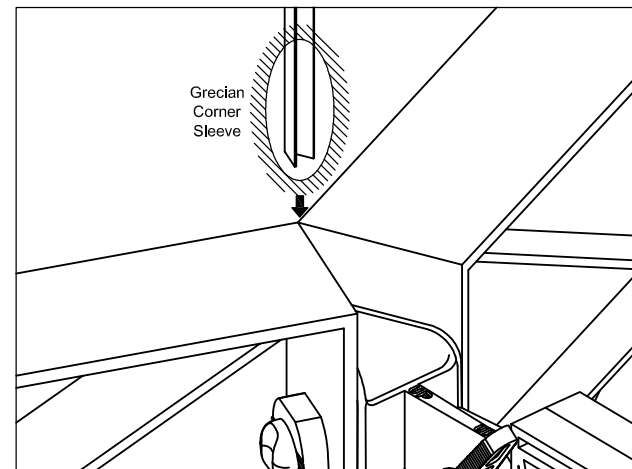
**2)** Attach all 5 Vee fillers to one panel first. Then align and attach the 2nd panel to the panel / vee filler assembly.



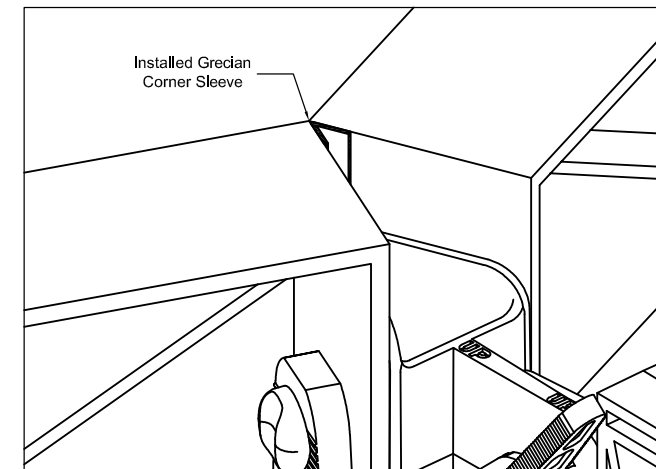
**3)** Each Key-Loc will fit over the head on the filler post and slide down to draw the wall panels together and lock the panel to the Vee filler.



**4)** A panel brace can then be attached to the tab extending from the back of the Vee filler using the standard Peg & Wedge connection.



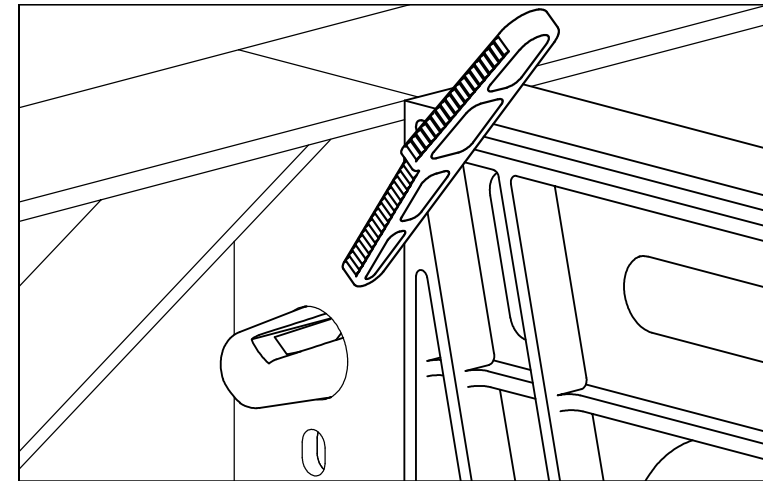
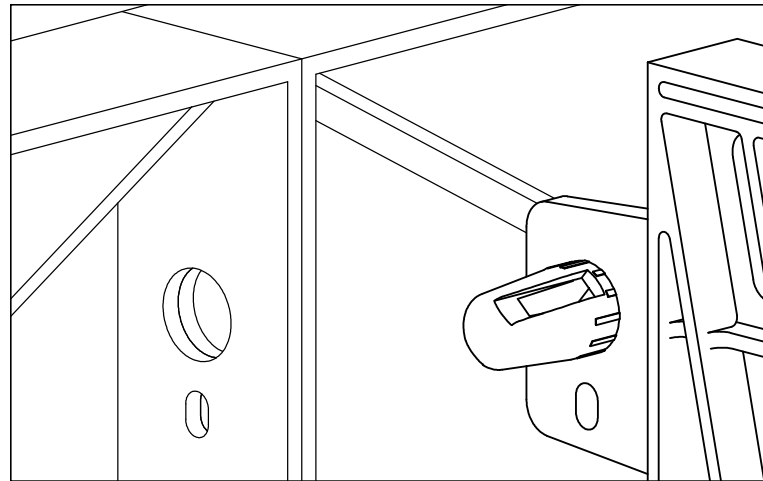
**5)** Slide the Grecian Corner Sleeve down between the nose of the Vee fillers and the wall panels to prevent dirt and debris from getting into the pool.



**6)** The completed installation will leave the Grecian Corner Sleeve flush with the top of the wall panel.

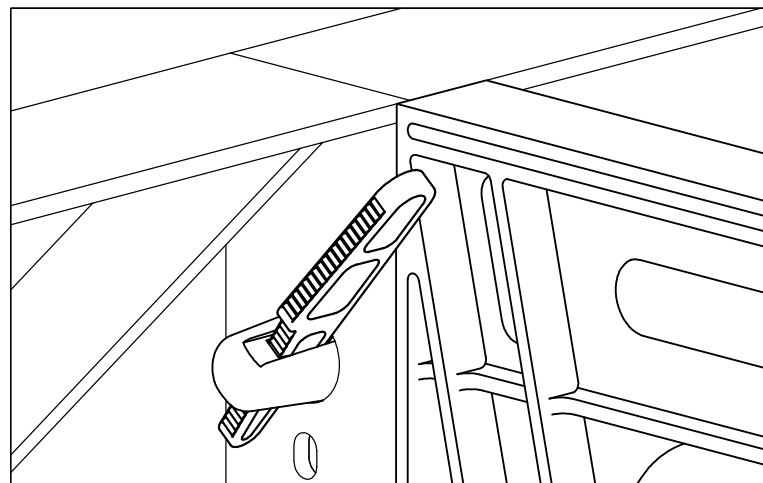
**NEXUS CONNECTION SYSTEM**

**1)** Set the 2 panels to be connected making sure the 5 - 1 1/2" diameter peg holes on the end flanges are lined up. Insert the brace / pegs through both flanges. The taper of the peg will properly align the panels and ensure the faces of the panels are even.

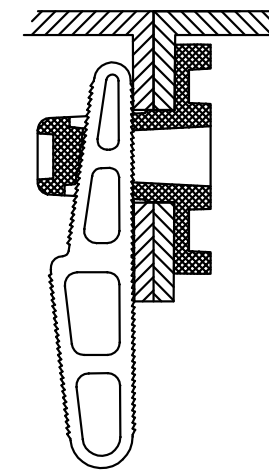


**2)** Break the wedges off of the molded brace. Slide the wedge through the slot in the peg (see the drawing below for proper orientation of the wedge depending on the location of the brace).

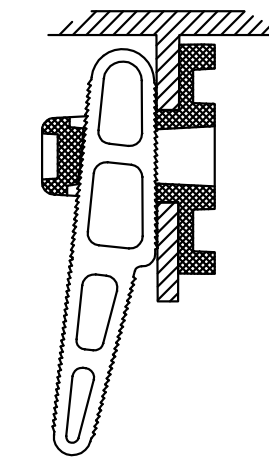
**3)** As the wedge is inserted through the peg, the panel joint will draw closed. The ratcheting effect of the teeth on the wedge and the teeth on the inside of the peg will prevent the wedge from backing out.



**WEDGE ORIENTATION AT  
PANEL - TO - PANEL  
CONNECTION**



**WEDGE ORIENTATION AT A  
MID - PANEL RIB**

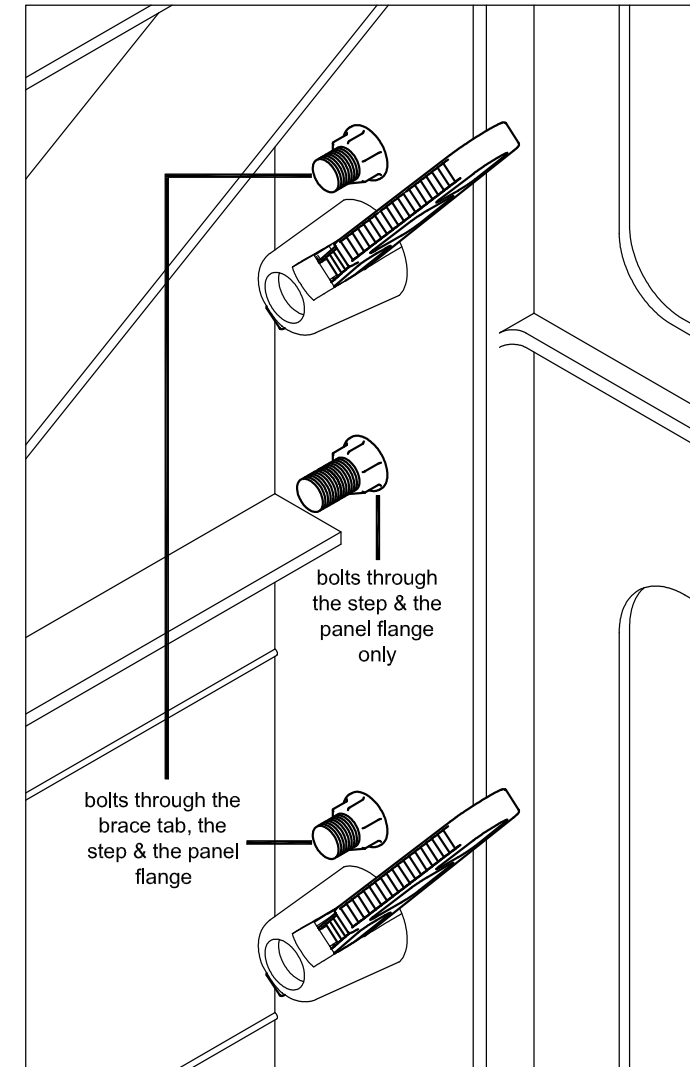
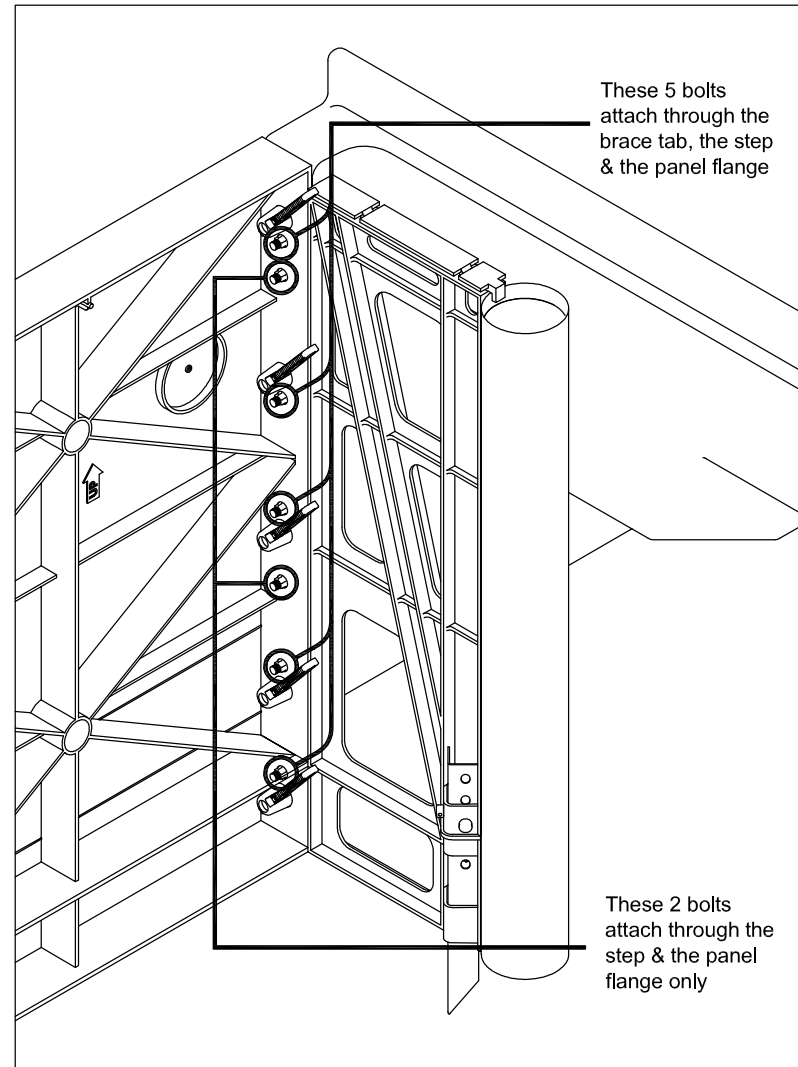
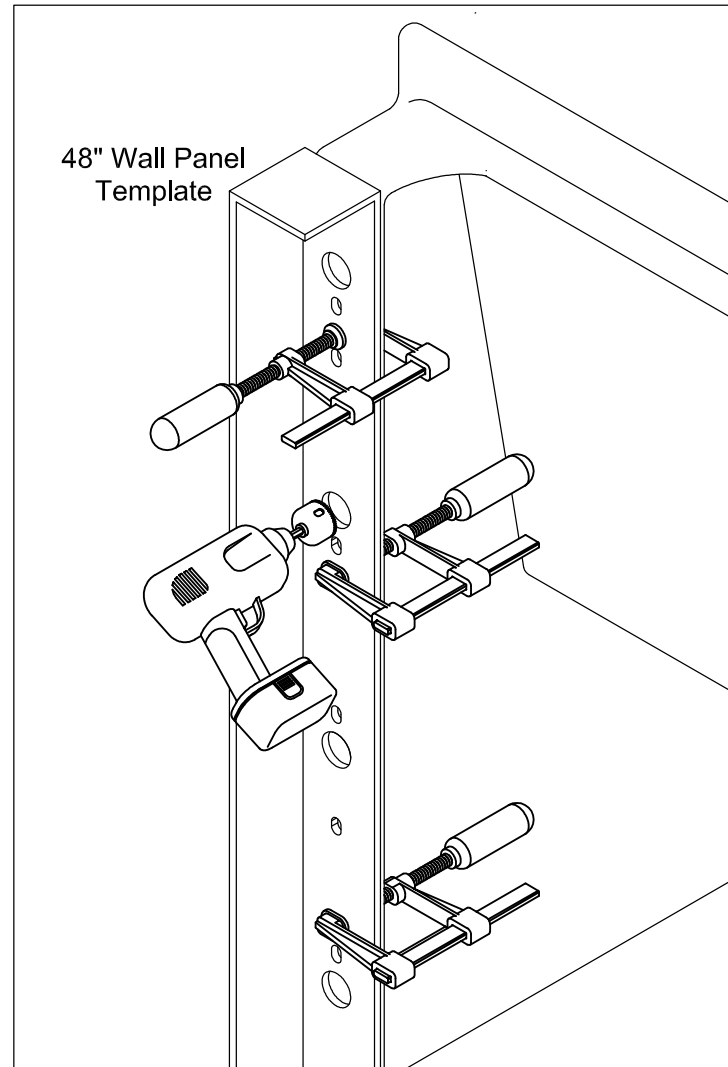


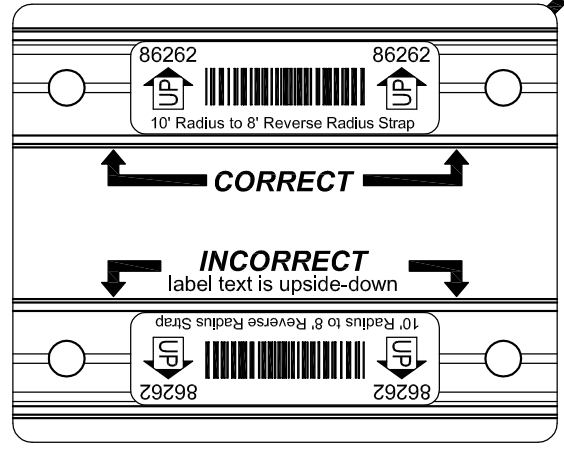
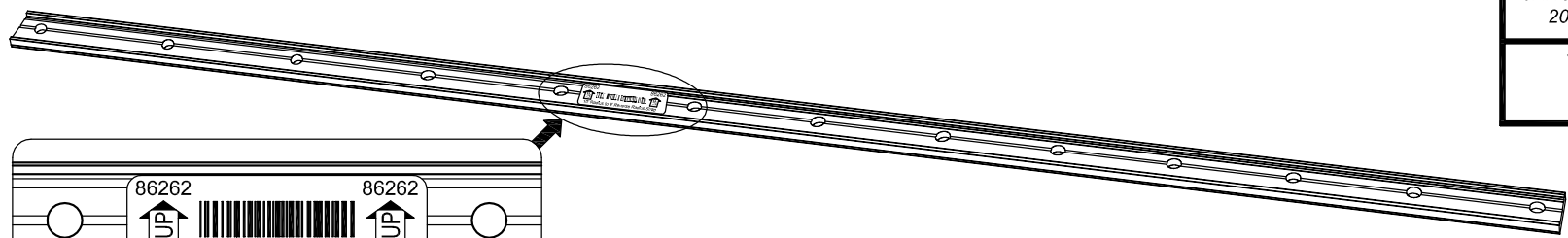
PANEL TEMPLATE &  
BOLTED STEP CONNECTION

With the step securely clamped to the **PANEL TEMPLATE**, use the hole pattern in the panel template as a guide for drilling the bolt holes and 1 1/2" diameter peg holes in the step flange.

Step connections will use the standard Nexus connection as well as the 7 bolt points along the panel end flange :

- 5 bolts will go through the brace tabs, the step, & the panel flange
- 2 bolts will go through the step and the panel flange only





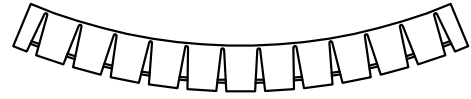
Straps for transition panels need to be placed on the panel in the proper orientation to ensure the panel bends the correct way. With the strap properly attached to the panel, you will be able to read the text on the strap label. If the text on the label is upside-down, the strap has been put on incorrectly.

**\*\*\* Matrix Panel Strap Installation Note \*\*\***

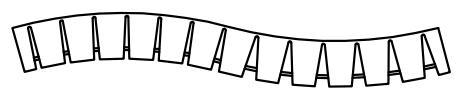
When assembling Versa-Flex panels and panel straps, *do not* install the strap on all 13 pins and then attach the push nuts. Assemble one pin at a time and securely fasten the push nut before proceeding to the next pin.



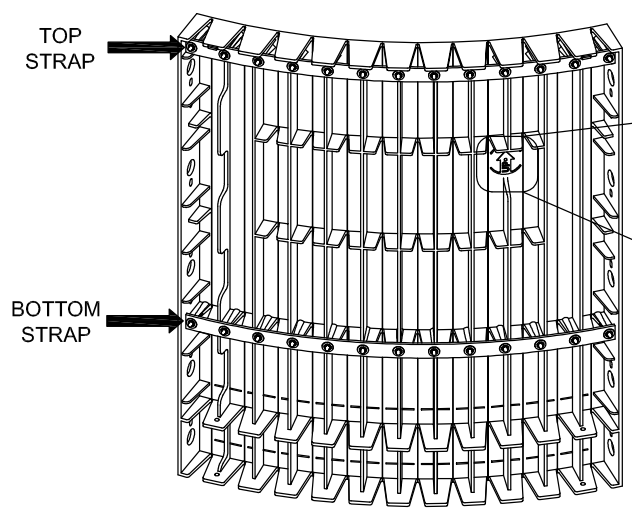
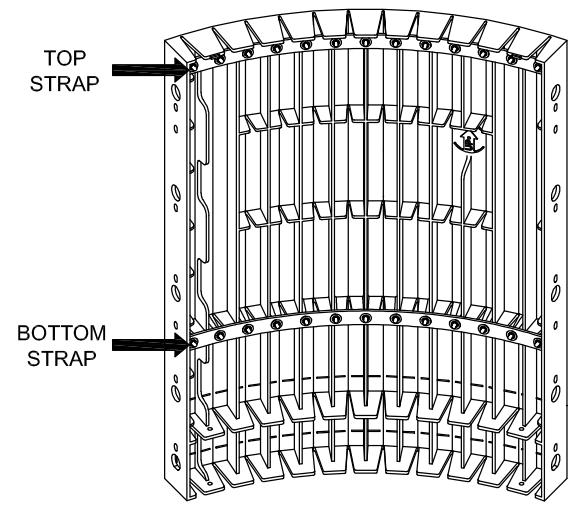
REVERSE RADIUS PANEL



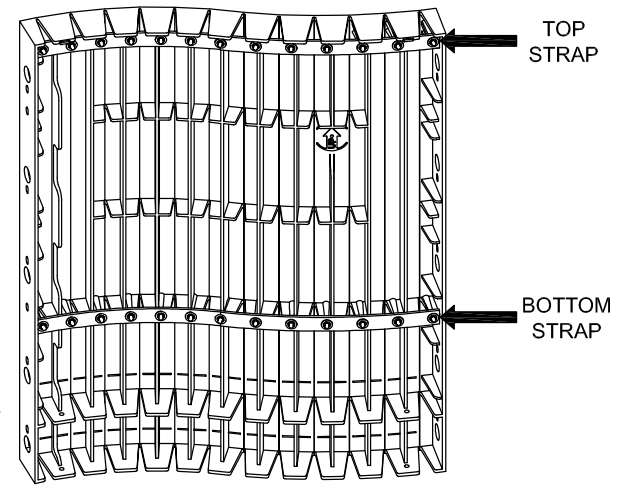
STANDARD RADIUS PANEL



MULTIPLE RADIUS TRANSITION PANEL

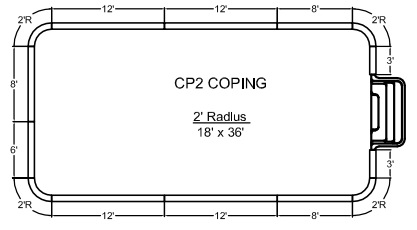
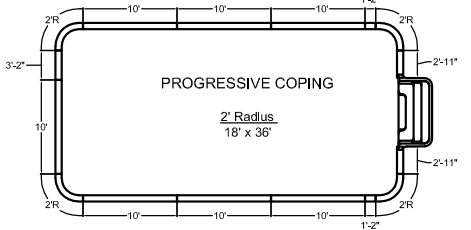
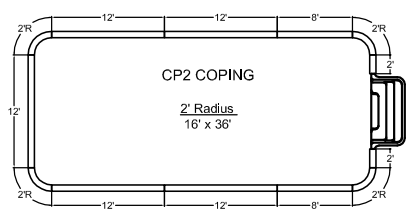
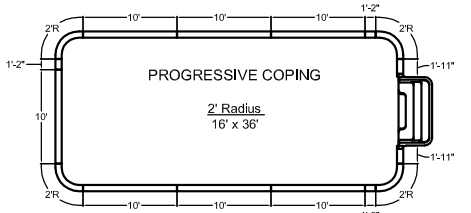
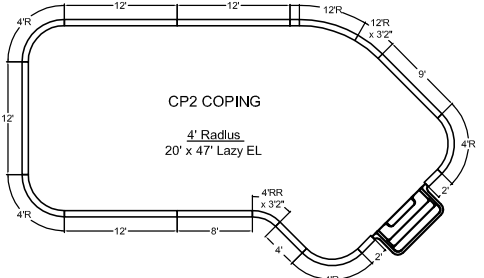
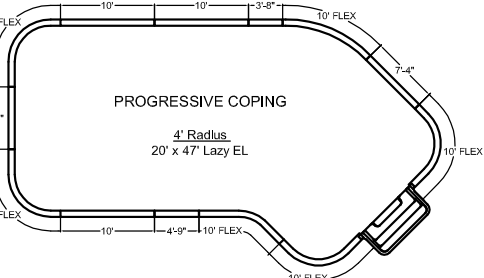
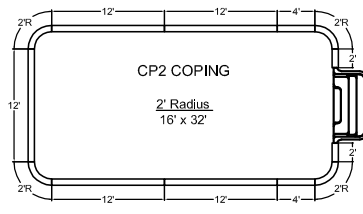
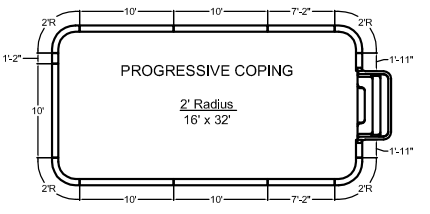
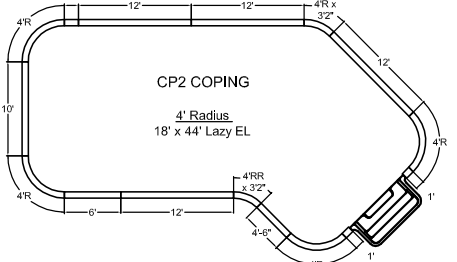
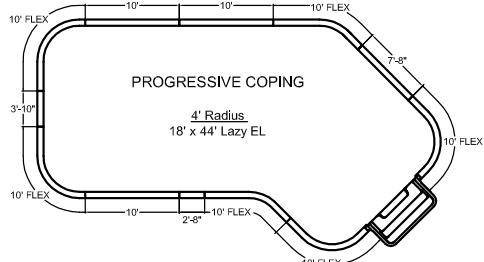
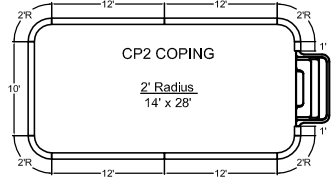
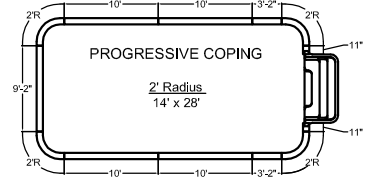
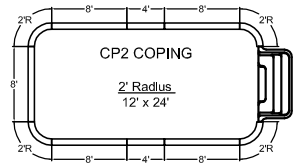
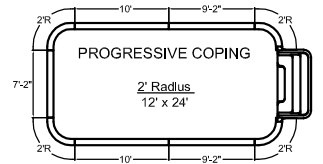
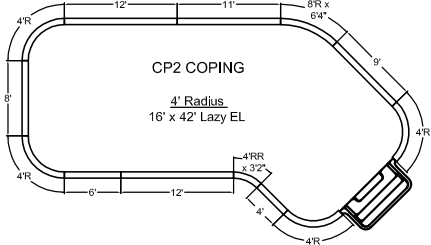
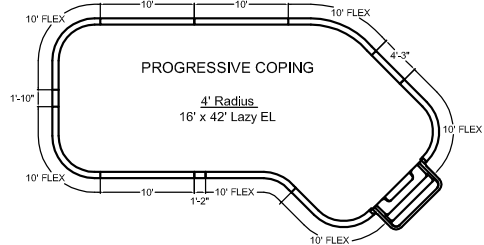


"UP" arrow designates proper panel orientation. The panel connection will not work properly if panel is placed upside-down.

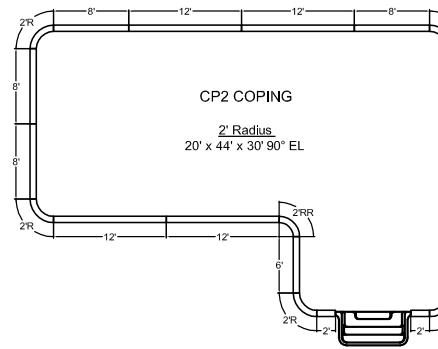
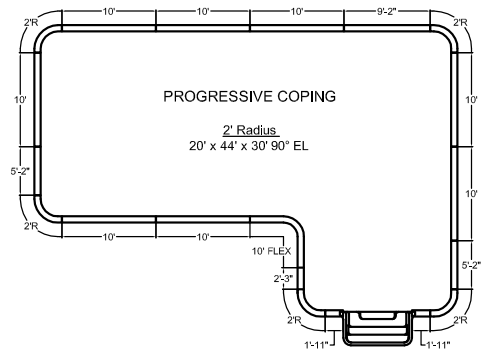
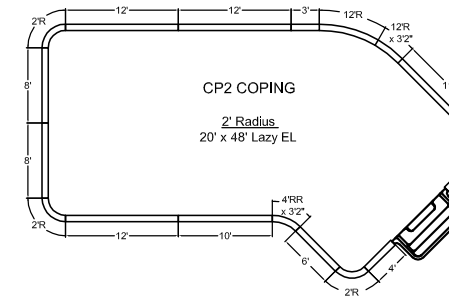
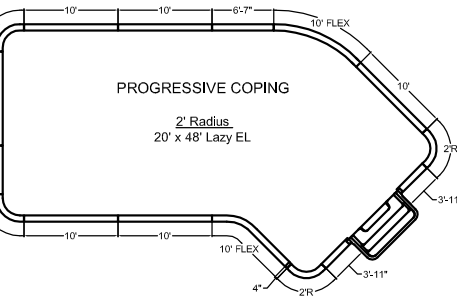
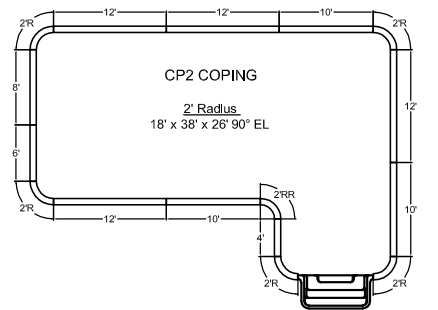
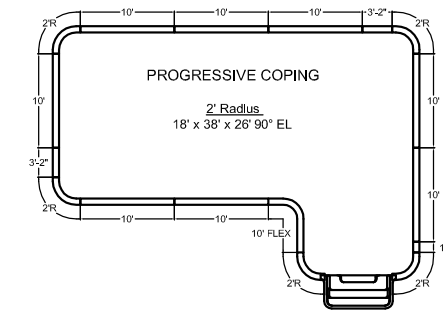
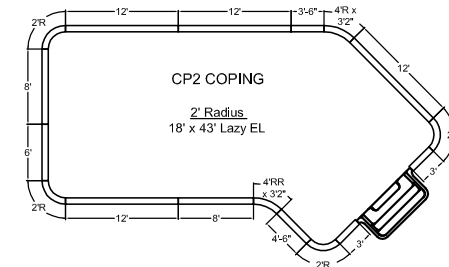
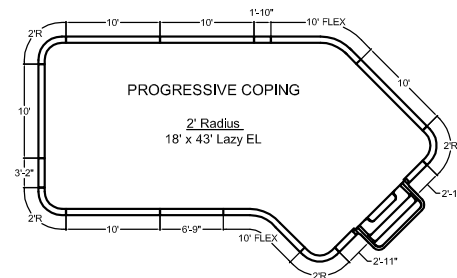
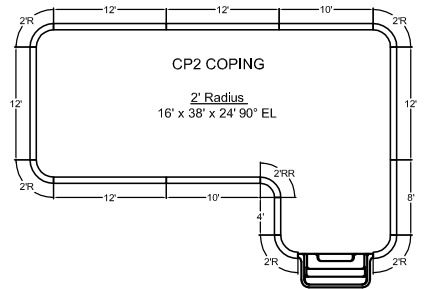
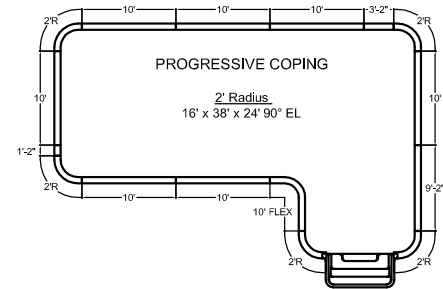
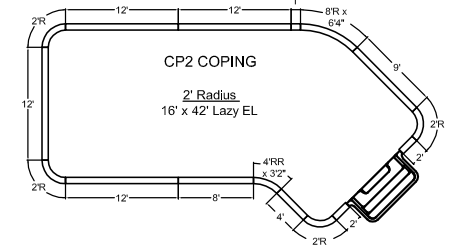
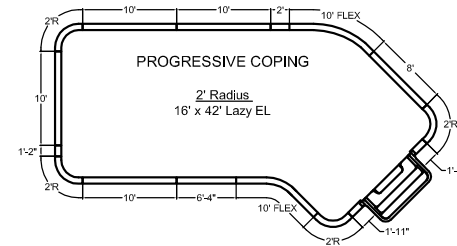
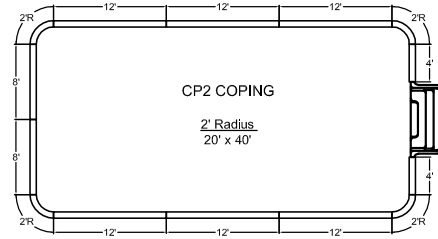
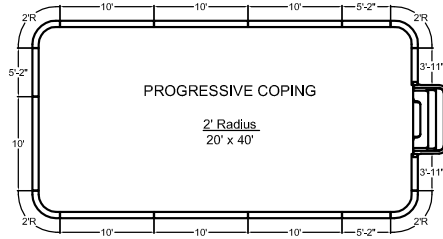




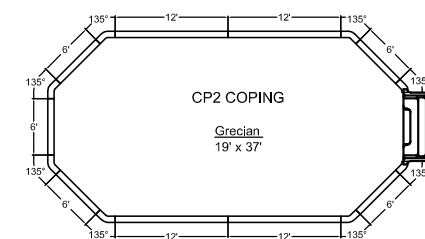
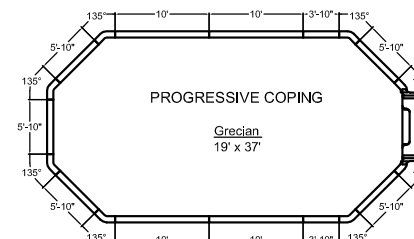
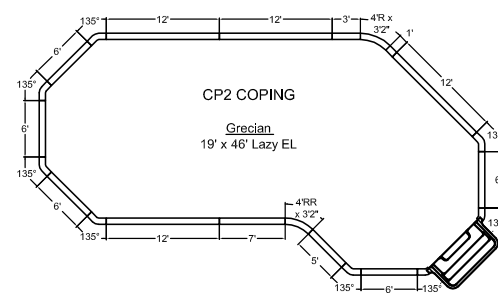
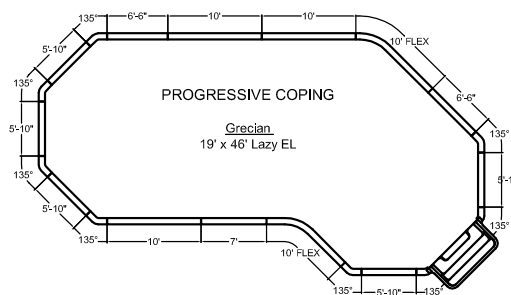
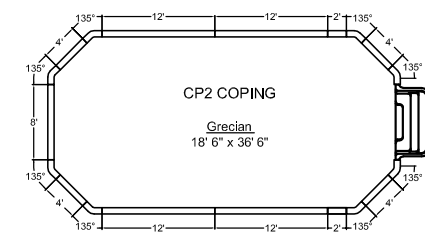
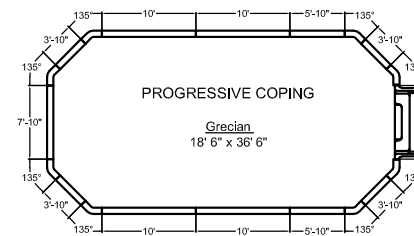
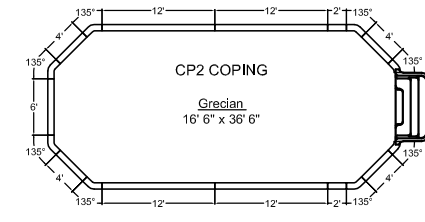
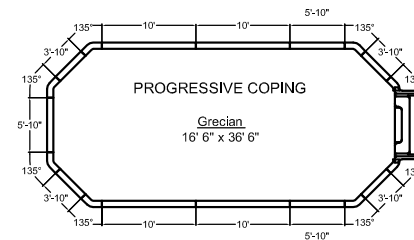
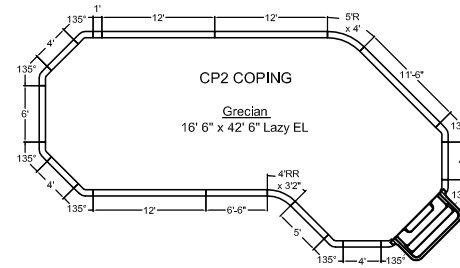
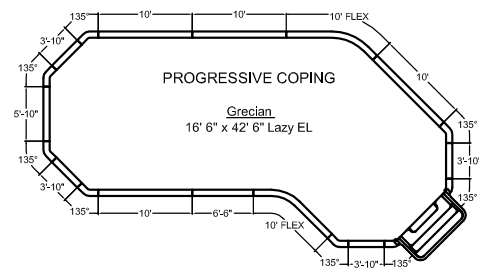
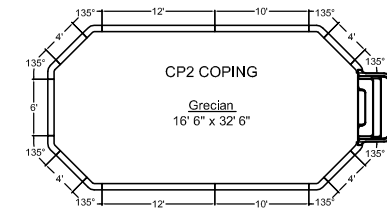
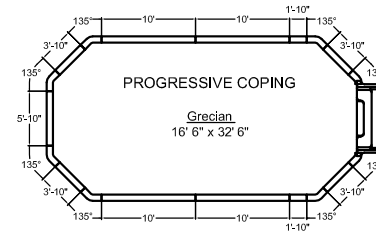
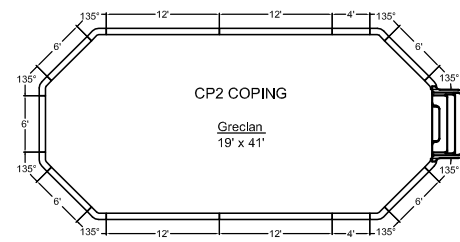
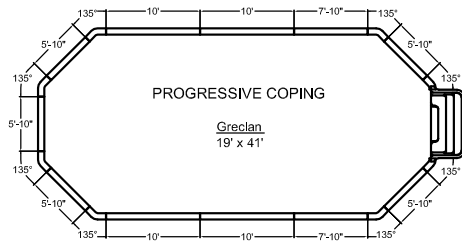




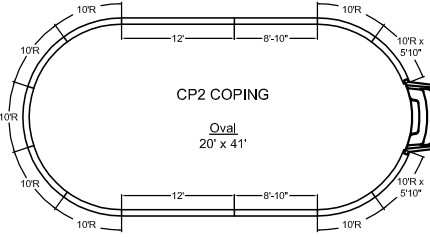
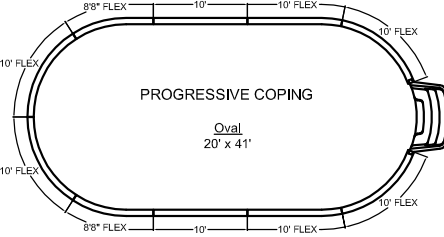
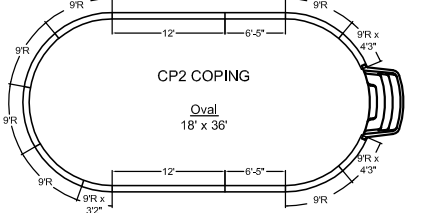
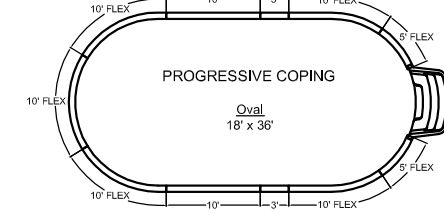
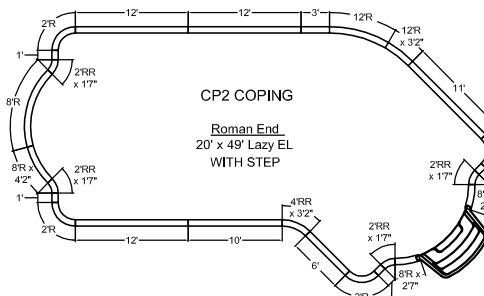
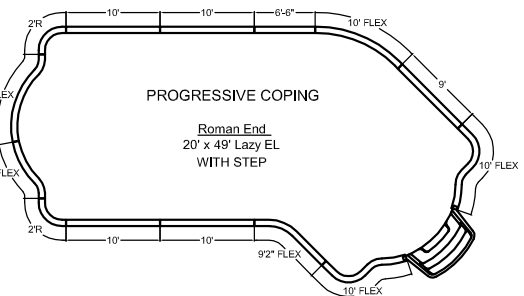
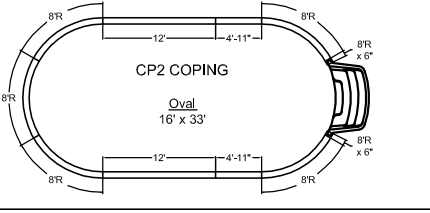
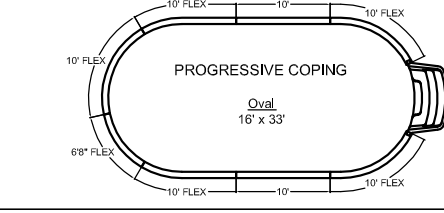
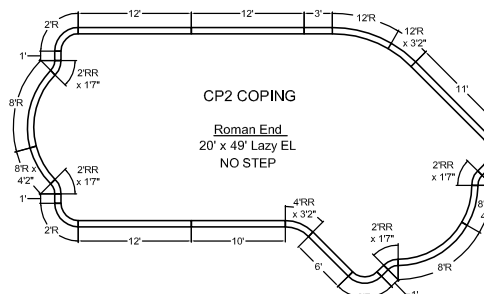
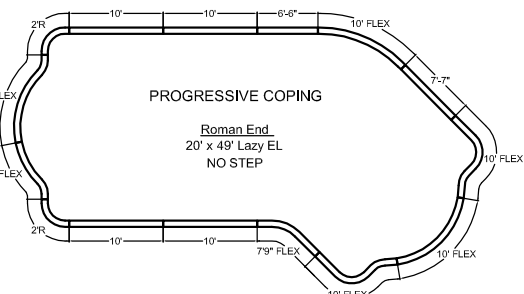
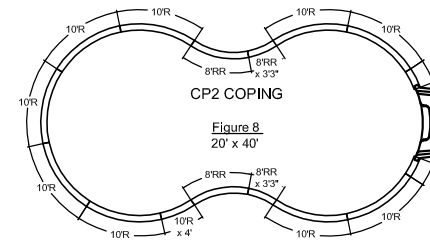
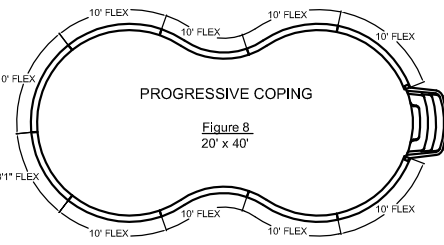
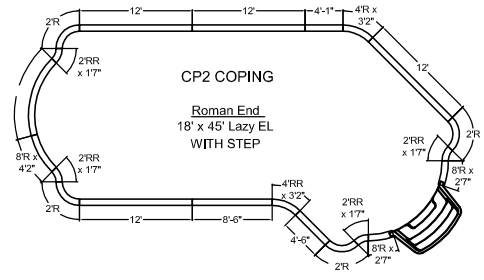
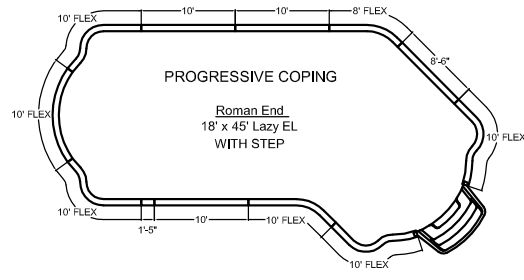
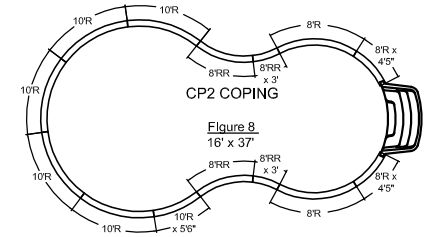
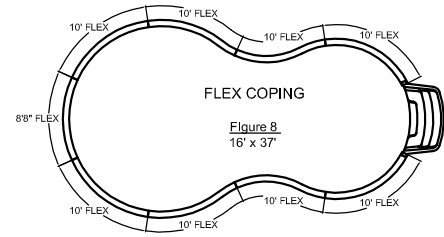
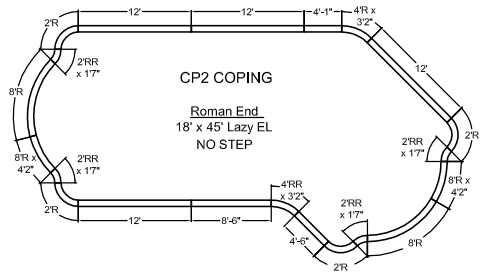
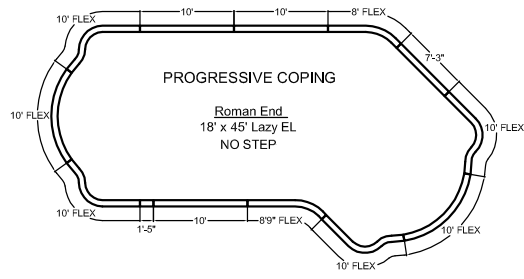
COPING LAYOUTS

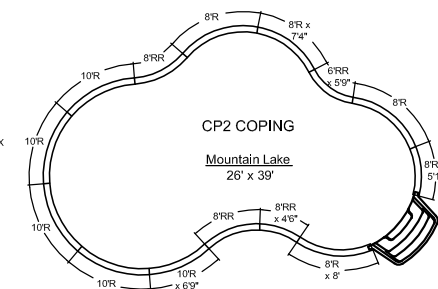
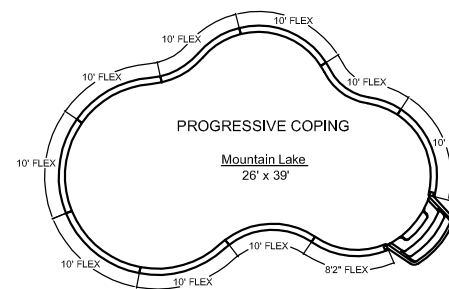
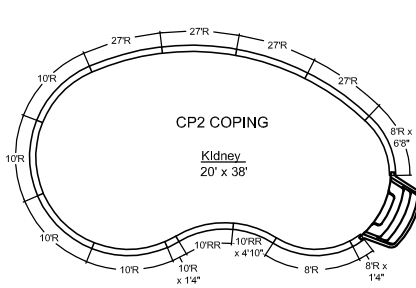
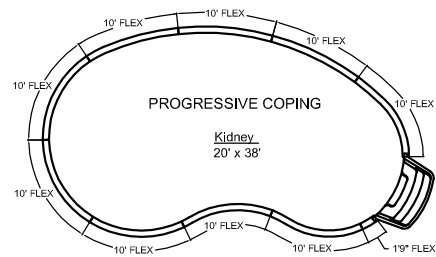
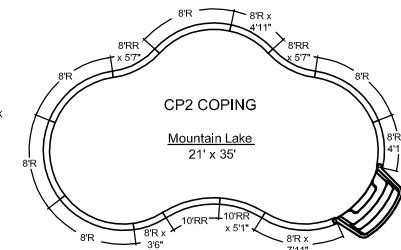
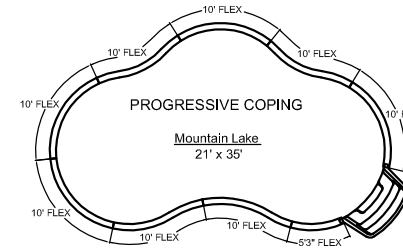
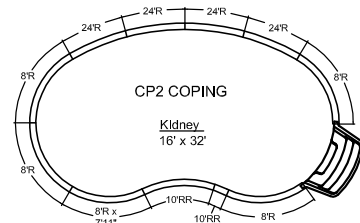
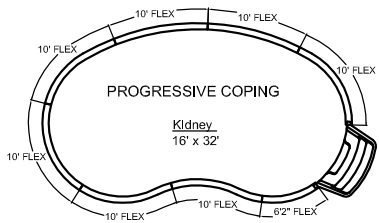
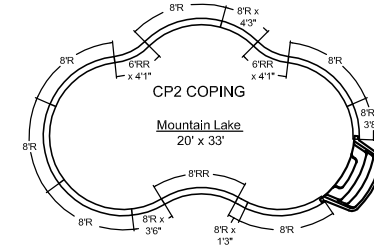
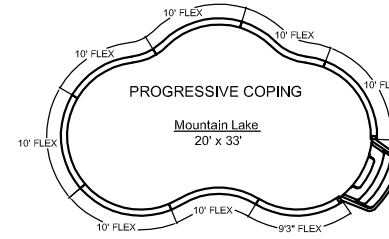
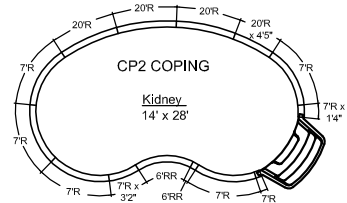
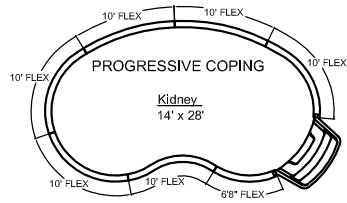


COPING LAYOUTS













JANUARY  
2011

**MATRIX** [PLUS]  
POOL SYSTEM

**COPING LAYOUTS  
PANEL DIG CROSS SECTION**

Construction Drawing: Different methods and precautions may be dictated by various ground conditions. This is to be determined by and is the responsibility of the contractor who is not an agent of the manufacturer of the component parts.

Installation is to be done in accordance with all federal, state and local building codes, as well as A.N.S.I. / N.S.P.I. suggested standards.

