DA1 14/2010 Columbia County Bu This Permit Must Be Prominently Posted of	
APPLICANT DEREK DIXON	PHONE 904.651.9873
ADDRESS 1090 KENSINGTON PARK DRIVE	ALTAMONTE SPRINGS FL 32714
OWNER KENNETH & BARBARA SWEENEY	PHONE 352-316-3463
ADDRESS 918 SW CR 778	HIGH SPRINGS FL 32669
CONTRACTOR E. MICHAEL HOLLAND	PHONE 407.830.5327
LOCATION OF PROPERTY 441-S TO C-778,TR PROPERTY C	ON L, 2ND LOT PAST MARYNIK
DR(OR) 2ND LOT BACK FROM	SCRUBTOWN ROAD.
TYPE DEVELOPMENT SWIMMING POOL EST	TIMATED COST OF CONSTRUCTION 45000.00
HEATED FLOOR AREA TOTAL AREA	A HEIGHT STORIES
FOUNDATION WALLS RO	OOF PITCH FLOOR
LAND USE & ZONING A-3	MAX. HEIGHT
Minimum Set Back Requirments: STREET-FRONT 30.00	REAR 25.00 SIDE 25.00
NO. EX.D.U. 0 FLOOD ZONE	DEVELOPMENT PERMIT NO.
PARCEL ID 16-7S-17-10006-102 SUBDIVISION	N SUMMER'S ACRES UNREC.
LOT 2 BLOCK PHASE UNIT	TOTAL ACRES 10.54
Culvert Permit No. Culvert Waiver Contractor's License Number N/A Driveway Connection Septic Tank Number COMMENTS: NOS ON FILE. ACCESSORY USE.	TC Y
	Check # or Cash 53833
Temporary Power Foundation date/app. by	Check ii of Cash
Temporary Power Foundation date/app. by Under slab rough-in plumbing Slab	G DEPARTMENT ONLY (footer/Slab) Monolithic date/app. by Sheathing/Nailing
Temporary Power Foundation date/app. by Under slab rough-in plumbing Slab date/app. by	G DEPARTMENT ONLY (footer/Slab) Monolithic date/app. by date/app. by
Temporary Power Foundation date/app. by Under slab rough-in plumbing Slab date/app. by Framing Insulation	G DEPARTMENT ONLY Monolithic date/app. by date/app. by Sheathing/Nailing date/app. by
Temporary Power Foundation date/app. by Under slab rough-in plumbing Slab date/app. by Framing Insulation date/app. by date/app. by date/app. by	G DEPARTMENT ONLY (footer/Slab) Monolithic date/app. by Sheathing/Nailing
Temporary Power Foundation date/app. by Under slab rough-in plumbing Slab date/app. by Framing Insulation date/app. by Rough-in plumbing above slab and below wood floor date/	G DEPARTMENT ONLY Monolithic date/app. by date/app. by Sheathing/Nailing date/app. by date/app. by
Temporary Power Foundation date/app. by Under slab rough-in plumbing Slab framing Insulation date/app. by Gate/app. by Rough-in plumbing above slab and below wood floor Heat & Air Duct Peri. beam (Lintel)	G DEPARTMENT ONLY Monolithic date/app. by date/app. by Sheathing/Nailing date/app. by date/app. by date/app. by date/app. by date/app. by date/app. by Description Descriptio
Temporary Power Foundation date/app. by Under slab rough-in plumbing Slab framing Insulation date/app. by Gate/app. by Rough-in plumbing above slab and below wood floor Heat & Air Duct Air Duct Adate/app. by	G DEPARTMENT ONLY Monolithic date/app. by date/app. by Sheathing/Nailing date/app. by date/app. by date/app. by Lite/app. by date/app. by Description date/app. by
Temporary Power Foundation	G DEPARTMENT ONLY Monolithic date/app. by date/app. by Sheathing/Nailing date/app. by date/app. by date/app. by lite/app. by Description date/app. by date/app. by Description date/app. by date/app. by Description Des

INSPECTORS OFFICE CLERKS OFFICE

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

CERTIFICATION FEE \$

ZONING CERT. FEE \$ 50.00

FLOOD ZONE FEE \$ _

date/app. by

0.00

BUILDING PERMIT FEE \$

FLOOD DEVELOPMENT FEE \$

MISC. FEES \$

225.00

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

date/app. by

0.00

FIRE FEE \$ 0.00

CULVERT FEE \$

date/app. by

SURCHARGE FEE \$

WASTE FEE \$

TOTAL FEE

BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED NOT SUSPENDED, ABANDONED OR INVALID WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS OT THE PREVIOUS INSPECTION.

Columbia County Building Permit Application

For Office Use Only Application # 10/2 - 06 Date Received 12-6-10 By LH Permit # 29666
Zoning Official Date 10 .12.10 Flood Zone 14 Land Use A-3 Zoning A-3
FEMA Map #NA ElevationNA MFENA RiverNA Plans Examiner_1.C Date_12.6/5
Comments
NOC DEH Deed or PA Site Plan State Road Info Dearent Parcel #
Dev Permit # In Floodway Letter of Auth. from Contractor
School = TOTAL N/A accessing use
Septic Permit No. 14 Caut
Name Authorized Person Signing Permit Derak Dikow for Holland Pollsone 407-830-5327 904.87
Address 1090 KENSINGTON HARK DE ACTAMIONTE PRINTS 4/ 32914
Owners Name Barbara Sweeney Phone 352.318.1530
911 Address 918 SW County Rd 778, Wish Span 45, 1 32699
Contractors Name E. Mighael Holland/Holland Pads Phone 407-830-5327
Address 1090 Kensington Park Dr., 2000MONTE MEN 45, 41 32714
Fee Simple Owner Name & Address
Bonding Co. Name & Address
Architect/Engineer Name & Address Gordon Shepardson 672 N. Semoran Blvd, Orl., Fl.
Mortgage Lenders Name & Address
Circle the correct power company — FL Power & Light — Clay Elec. — Suwannee Valley Elec. — Progress Energy
Property ID Number 16-75-17-1006-102 Estimated Cost of Construction \$\\ 45,000.00
Subdivision Name Summers Acres Lot 2 Block Unit Phase
Driving Directions 441-5 TO C-778, TR PROPERTY ON Low 2NO LOT PAST
MARYNIK DE COR ZINS LOT BACK FROM SCHUBERTUR (DAS)-
Number of Existing Dwellings on Property
Construction of in Ground Swimming Pool Total Acreage 10,54 Lot Size
Do you need a - <u>Culvert Permit</u> or <u>Culvert Waiver</u> or <u>Have an Existing Drive</u> Total Building Height
Actual Distance of Structure from Property Lines - Front Side Side Rear
Number of Stories Heated Floor Area Total Floor Area Roof Pitch
Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction. CODE: Florida Building Code 2007 with 2009 Supplements and the 2008 National Electrical Code. Page 1 of 2 (Both Pages must be submitted together.) Revised 6-19-09
The spoke Wy Stephenie Ref. 12.13.10.

Columbia County Building Permit Application

TIME LIMITATIONS OF APPLICATION: An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

<u>TIME LIMITATIONS OF PERMITS:</u> Every permit issued shall become invalid unless the work authorized by such permit is commenced within 180 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 180 days after the time work is commenced. A valid permit receives an approved inspection every 180 days. Work shall be considered not suspended, abandoned or invalid when the permit has received an approved inspection within 180 days of the previous approved inspection.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment: According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE: YOU ARE HEREBY NOTIFIED as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

OWNERS CERTIFICATION: I CERTIFY THAT ALL THE FOREGOING INFORMATION IS ACCURATE AND THAT ALL WORK WILL BE DONE IN COMPLIANCE WITH ALL APPLICABLE LAWS REGULATING CONSTRUCTION AND ZONING.

NOTICE TO OWNER: There are some properties that may have deed restrictions recorded upon them. These restrictions may limit or prohibit the work applied for in your building permit. It may be to your advantage to check and see if your property is encumbered by any restrictions.

and doe in your property to chountbelled by any restriction	5115.
X Barbara J. Sweenen	(Owners Must Sign All Applications Before Permit Issuance.) ST PERSONALLY APPEAR AND SIGN THE BUILDING PERMIT.
Owners Signature **OWNER BUILDERS MU	ST PERSONALLY APPEAR AND SIGN THE BUILDING PERMIT.
CONTRACTORS AFFIDAVIT: By my signature I under	stand and agree that I have informed and provided this ten responsibilities in Columbia County for obtaining
E Michael Holland Contractor's Signature (Permitee)	Contractor's License Number <u>CPC 056809</u> Columbia County Competency Card Number
Affirmed under penalty of perjury to by the Contractor ar	nd subscribed before me this 1 day of December 2010.
Personally known or Produced Identification State of Florida Notary Signature (For the Contractor)	SEAL: STEPHANIE BAUMGARTNER MY COMMISSION # DD 983166 EXPIRES: April 19, 2014 Bonded Thru Budget Notary Services

SUBCONTRACTOR VERIFICATION FORM

METAL BLDG ERECTOR

APPLICATION NUM	1BER						Holla.		PHONE 407-8	30-5327	
records of the s Ordinance 89-6	In Columbia County one permit will cover all trades doing work at the permitted site. It is REQUIRED that we have records of the subcontractors who actually did the trade specific work under the permit. Per Florida Statute 440 and Ordinance 89-6, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in Columbia County. Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the										
Any changes, to start of that su										or to the	
ELECTRICAL	Print Name David Pruett License #: EC 000 29 23				-	Signature_	Phone #: 9	04-	Author 272-722	<u> </u>	
MECHANICAL/ A/C	Print Name_ License #:			n II	Signature_						
PLUMBING/ GAS				el Holl	and	Signature_	Phone #: 4		Holland 30-5327		
ROOFING	Print Name License #:		1			Signature_	Phone #:				
SHEET METAL	Print Name License #:	0/	A	A			Signature Phone #:				
FIRE SYSTEM/ SPRINKLER	Print NameLicense#:					Signature_	Signature Phone #:				
SOLAR	Print Name License #:					Signature Phone #:		dmudens er			
Specialty Li	cense	License N	lumber	Sub-Co	ntractors P	rinted Name	e	Sub-Co	ntractors Signa	ture	
MASON											
CONCRETE FIN	ISHER	A									
FRAMING	1										
INSULATION											
STUCCO											
DRYWALL			1/1	/							
PLASTER			10								
CABINET INSTA	ALLER	/ /									
PAINTING											
ACOUSTICAL CEILING											
GLASS											
CERAMIC TILE											
FLOOR COVER	ING										
ALUM/VINYL S	IDING										
GARAGE DOOF	GARAGE DOOR										

F. S. 440.103 Building permits; identification of minimum premium policy.--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit. Contractor Forms: Subcontractor form: 6/09

COLUMBIA COUNTY BUILDING DEPARTMENT



135 NE Hernando Ave., Suite B-21 Lake City, FL 32055

Office: 386-758-1008 Fax: 386-758-2160

Application Number	
--------------------	--

NOTICE TO SWIMMING POOL OWNERS

I	Barbara	Swaney	have been informed and I understand that prior to the final inspection
app	proval and use of	my pool, I will heed all	the inspections approved and the required fencing installed in accordance with
app	olicable regulation	s. The Florida Building	Code Chapter 4 Section 24 requires private residential swimming pools, hot
tub	s, or non-portable	spas containing water	over 24 inches deep to meet the following pool barrier safety feature
rec	uirements:		

- The pool access must be isolated by a barrier at least 4 feet high and installed around the perimeter of the pool. Unless the pool is equipped with a safety cover complying with the specifications of American Society for Testing and Materials standard F-1346-91.
- The barrier shall not have any gaps or openings which would allow a child to crawl under, squeeze through or climb over and must be placed no less than 20 inches from the water's edge.
- Gates located in the pool barrier must open outward away from the pool and be both self-closing and self
 latching, with a release mechanism not less than 54" above the standing surface at the gate.
- The barrier must be separate from any other fence, wall, or other enclosure surrounding the yard unless the
 fence, wall or other enclosure or portion thereof is situated on the perimeter of the pool and meets the pool
 barrier requirements.
- Where a wall of a dwelling serves as part of the barrier one of the following shall apply:
 - All doors and first floor windows with a sill height of less than 48 inches providing direct access from the home
 - to the pool must be equipped with an alarm that has a minimum sound pressure rating of 85 decibels at 10 feet. The alarm shall sound immediately upon opening the window or door unless the temporary bypass mechanism is activated.
 - Or; all doors providing direct access from the home to the pool must be equipped with a self-closing, self
 - latching device with a release mechanism located at least 54 inches above the floor.

According to Florida statutes, failure to comply with these requirements is a misdemeanor of the second degree, punishable by imprisonment for up to 60 days or a fine of up to \$500, except that no penalty shall be imposed if within 45 days after arrest or issuance of a summons or notice to appear, the pool is equipped with the aforementioned safety features and the responsible person attends a drowning prevention education program developed by the Florida Department of Health. I also understand that there are several inspections required in addition to a final inspection for my swimming pool.

Salbera J Sweener
Owner Signature / Date

Address: 918 5W County Rd 778, High Springs 32669

Contractor Signature / Date License Number

Columbia County Property Appraiser

DB Last Updated: 11/4/2010

Parcel: 16-7S-17-10006-102

<< Next Lower Parcel Next Higher Parcel >>

Tax Collector

Tax Estimator

Property Card

2010 Tax Year

Parcel List Generator

Interactive GIS Map Prin

Search Result: 3 of 3

Owner & Property Info

Owner's Name	SWEENEY KENNET	SWEENEY KENNETH C & BARBARA J					
Mailing Address	16975 HWY 278 WILLISTON, SC 29	16975 HWY 278 WILLISTON, SC 29853					
Site Address	918 SW COUNTY F	918 SW COUNTY ROAD 778					
Use Desc. (code)	VACANT (000000)						
Tax District	3 (County)	3 (County) Neighborhood					
Land Area	10.540 ACRES	02					
Description	NOTE: This description is not to be used as the Legal Description for this parcel in any legal transaction.						

AKA LOT 2 SUMMER'S ACRES UNR: COMM NW COR, RUN S 80.15 FT TO S R/W CR-778, RUN E ALONG R/W 698.08 FT FOR POB, CONT E 587.02 FT, S 782.02 FT, W 587.02 FT, N 782.02 FT TO POB. ORB 983-2580 & WD 1197-2087

0 350 700 1050 1400 1750 2100 2450 ft

Property & Assessment Values

2010 Certified Values	
Mkt Land Value	cnt: (0) \$51,388.00
Ag Land Value	cnt: (1) \$0.00
Building Value	cnt: (0) \$0.00
XFOB Value	cnt: (0) \$0.00
Total Appraised Value	\$51,388.00
Just Value	\$51,388.00
Class Value	\$0.00
Assessed Value	\$51,388.00
Exempt Value	\$0.00
Total Taxable Value	Cnty: \$51,388 Other: \$51,388 Schl: \$51,388

2011 Working Values

NOTE:

2011 Working Values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

Show Working Values

Sales History

Show Similar Sales within 1/2 mile

Sale Date	OR Book/Page	OR Code	Vacant / Improved	Qualified Sale	Sale RCode	Sale Price
7/13/2010	1197/2087	WD	٧ .	Q	01	\$130,000.00
5/21/2003	983/2580	WD	٧ .	Q		\$48,000.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
			NONE	7	100	

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)			
NONE									

Land Breakdown

Lnd Code	Code Desc Units Adju		Adjustments	Eff Rate	Lnd Value
000000	VAC RES (MKT)	10.54 AC	1.00/1.00/1.00/1.10	\$4,875.52	\$51,388.00

Columbia County Property Appraiser

DB Last Updated: 11/4/2010

<< Prev

3 of 3

DISCLAIMER

This information was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data

*		17 System		300	Numbe	er: 20101904		5612 - 2 20 1044			
	Ele	vation					Pool Speci	fications			
Set Pool Beam A	t: -7.75 IN			: -7.25 IN		Pool Area: 315 SF	Pool Length: 27 LF	Pool Width: 16 LF			
Dig & Haul Be	nchmark: Fin			m: 8 inch	Bond	Pool Perimeter:	Pool	Volume: 10472	Callena		
3		neerin		in o men	Dona	80 LF	Depths: 3 - TO - 5	volume: 10472	Gattons		
Turn Down: 12 b						Main Drain: 1 PR	Skimmer:	Returns: 3 EA			
Turn Down: 24 b	y 36 LF				Ш		1 EA				
Eng Angle Of Re (Double Steel) Length:10	pose					Extra Step: 0 LF	Filter: CS 250	Filter Pump: Jandy Flor Pro	1.5hp 2 spee		
	Deckin	g and	Γile			Inline Chlorinator: Jandy Aqua Pure 700	Pool Heater:	Pool Light: LED ColorLight	#1		
Pavers Thin: 243 SF	Pavers F 1771 SF	ull:	Paver (Color: Mah	ogany	sains) riqua i dic 700	Jandy Heat	LED COLOI LIGHT # 1			
Paver Pattern: (town random	Old Footer 0 92.00 LF		Coping Bullnos	Type: e Brick 15	55 LF	Vac Line: Pressure	Pump Auto	Ozonator: UltraPure 700			
Step Tile Color: AZ606 Cobalt 20		72. II. II.	Deco D	rains: 55 l	LF		Cleaner: Polaris 360				
24 12 In Raised 34 12 In Step Beam Riser			Coping	Color: Ta	upe	Pool Control System: PDA 6					
	Screen and	Interio	r Finish	,			Spa Specif	fications			
Screen Style: Screen Color: Bronze Mansard Type				Gutter:	56 LF	Accessories: 1 HP BLOWER Center Floor return	Spa A	rea: 35 SF	Spa Perimeter: 23 LF		
Gutter Size: As Required					ence:	Spa Jets: 6 EA	Spa Li LED C	ght: olorLight 1 EA	Pre Plumb Spa		
Screen Walls: 56 LF	Screen Root	: 631 SF	•	Screen H 10 FT	leight:	Dam Wall Thickness: 12 IN	Blowe	r	Spa Heater Jandy 250		
Max Beam: 21 LF	Doors: 2			Lanai Ins 36 LF	ert:	Spa Control System: PDA 6		F			
						Wate	r Features	and Options	1		
						Fla Falls: N/A	Water Feat	ures Pump: N/A			
					N	lotes					
11/18/2010 12:	31:35 PM - Pu	mp#FHI	PM1.5hp(2 speed).	piping.	Branch 3"Trunk 3"R	eturn 2.5"				
11/18/2010 12:	-torus-test in		EA 152.0	99 10		8 8					
11/18/2010 12:	29:26 PM - 12	barrier	footers(Pileasters) for re	ar due to drop dirt and	build up.				
11/18/2010 12:	27:13 PM - PL	UMB NO	TE::::Plu	ımb exter	nal byp	ass on heaters	10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5				
11/18/2010 12:	26:39 PM - PA	VER NO	TE:: From	nt patio ge	ets pave	erThin South beach	pattern old	town random2	43sqft		
			H	oll	an	d Pool	S				
		109				Altamonte Springs, F 27 Fax (407) 830-640					
Sales Rep: Derek Name: Barbara						PBPG:	T.	_ot #: 2			
Address: 918 SW		78				Address: 918 SW coun		.UC#. Z			
City: high spring		_	32669					Subdivision:			
Phones: 352-318		Offic				Municipality: Columbi	a I	Summer acres			
Cell:	, 1330	Fax:				Termite Bond Compar	ny: builder				
Customer's Sign	ature:	1 44.						Date:			
	acule.							LUMBE:			



Center floor return Equipment 3' 10"+ Thin Pavers on front patio..243sqft South Beach Old town Random -päver deck Deck drain 12" Raised spa **SWEENEY 20101904** 5'deep LED LIGHT House Under construction. Septic on right..Determine best access at pre-site paver deck -34' 10"covereed lanai **Brick coping** -20' 11"-Planter 3,deep 12"Riser 12"Riser 4' 9"-Safety fence covereed lanai Exit 399 US 441 paver deck -23' 11"-I-75 N ₹' 3 1 1 1 1 1 SW county rd 778 15' 10" SW Sterling ter 4'x3'Door pad

NOTICE OF COMMENCEMENT

Tax Parcel	Identification Number 16-75	-17-10006-102	County Clerk's Office Stamp or Seal
Fiorida Sta	itules, the following information is pro	ovided in this NOTICE OF COMMENCE	
1. Descript	tion of property (legal description):	Lot 2 Summer Acr	pod
2. General	description of improvements:	ground Swimming	Dod
a b c	Name and address: Sellneth Name and address of fee simple title Interest in property	Sweeney 918 Sw Co	wty Rd 778 High Springs A 3266
A Contract	or Information	P 1 1-0 11	D 1
a b) Name and address: HC lland) Telephone No.:	Took 1090 Kensington	Park Dr. , Altanowle Spring 32714
5. Surety Ir	nformation		
a) Name and address:		
	, and the contract of the cont		
6. Lender) Telephone No.:	Fax	No. (Opt.)
a'	Name and address:		
7. Identity	of person within the State of Florida de	lesignated by owner upon whom notices or	
a	Name and address:		
, o) Telephone No.:	Fax N	io. (Opt.)
b) Telephone No.:	Fax 1	No. (Opt.)
9. Expiratio	on date of Notice of Commencement (tied):	the expiration date is one year from the	date of recording unless a different date
WARNING COMMEN STATUTE COMMEN TO OBTAI	G TO OWNER: ANY PAYMENTS ICEMENT ARE CONSIDERED IM S, AND CAN RESULT IN YOUR PICEMENT MUST BE RECORDED IN FINANCING, CONSULT YOUR TICE OF COMMENCEMENT.	MADE BY THE OWNER AFTER THE MPROPER PAYMENTS UNDER CHAP PAYING TWICE FOR IMPROVEMEN O AND POSTED ON THE JOB SITE BE	
COLDUMN	F COLUMBIA	10. Signature of Owner or	Owner's Authorized Office/Director/Partner/Manager
		1	
		Print Name	TH COWSENEY
The foregoin	g instrument was acknowledged before r	me , a Florida Notary, this <u> </u>	of November, 20 10, by:
W.		as	(type of authority, e.g. officer, trustee, attorney
fact) for	Kenneth Charle	5.0	(type of authority, e.g. officer, trustee, attorney
	1 011.011	S Sweeney (nam	e of party on behalf of whom instrument was executed).
Personally Ki	nown OR Produced Identification		
	OR Produced Identification	· · · · · · · · · · · · · · · · · · ·	CHRISTINA WOOD MY COMMISSION # EE 008413
Notary Signal	nown OR Produced Identification	Type DL#S500 503 Notary Stamp or Sea	CHRISTINA WOOD MY COMMISSION # EE 008413 EXPIRES: July 13, 2014 Bonded Thru Notary Public Underwriters
Notary Signa	nown OR Produced Identification ture Compared to Section 92.525. Flori	Type DL #S500 503 Notary Stamp or Sea AND orida Statutes. Under penalties of periury.	CHRISTINA WOOD MY COMMISSION # EE 008413 EXPIRES: July 13, 2014
Notary Signa	nown OR Produced Identification	Type DL #S500 503 Notary Stamp or Sea AND orida Statutes. Under penalties of periury.	CHRISTINA WOOD MY COMMISSION # EE 008413 EXPIRES: July 13, 2014 Bonded Thru Notary Public Underwriters
Notary Signa	nown OR Produced Identification ture Compared to Section 92.525. Flori	Notary Stamp or Sea	CHRISTINA WOOD MY COMMISSION # EE 008413 EXPIRES: July 13, 2014 Bonded Thru Notary Public Underwriters



COMPFETTOZ

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection
This Certificate of Occupancy is issued to the below named permit holder for the building

accordance with the Columbia County Building Code. and premises at the below named location, and certifies that the work has been completed in

Parcel Number 16-7S-17-10006-102

Building permit No. 000029066

Permit Holder E. MICHAEL HOLLAND

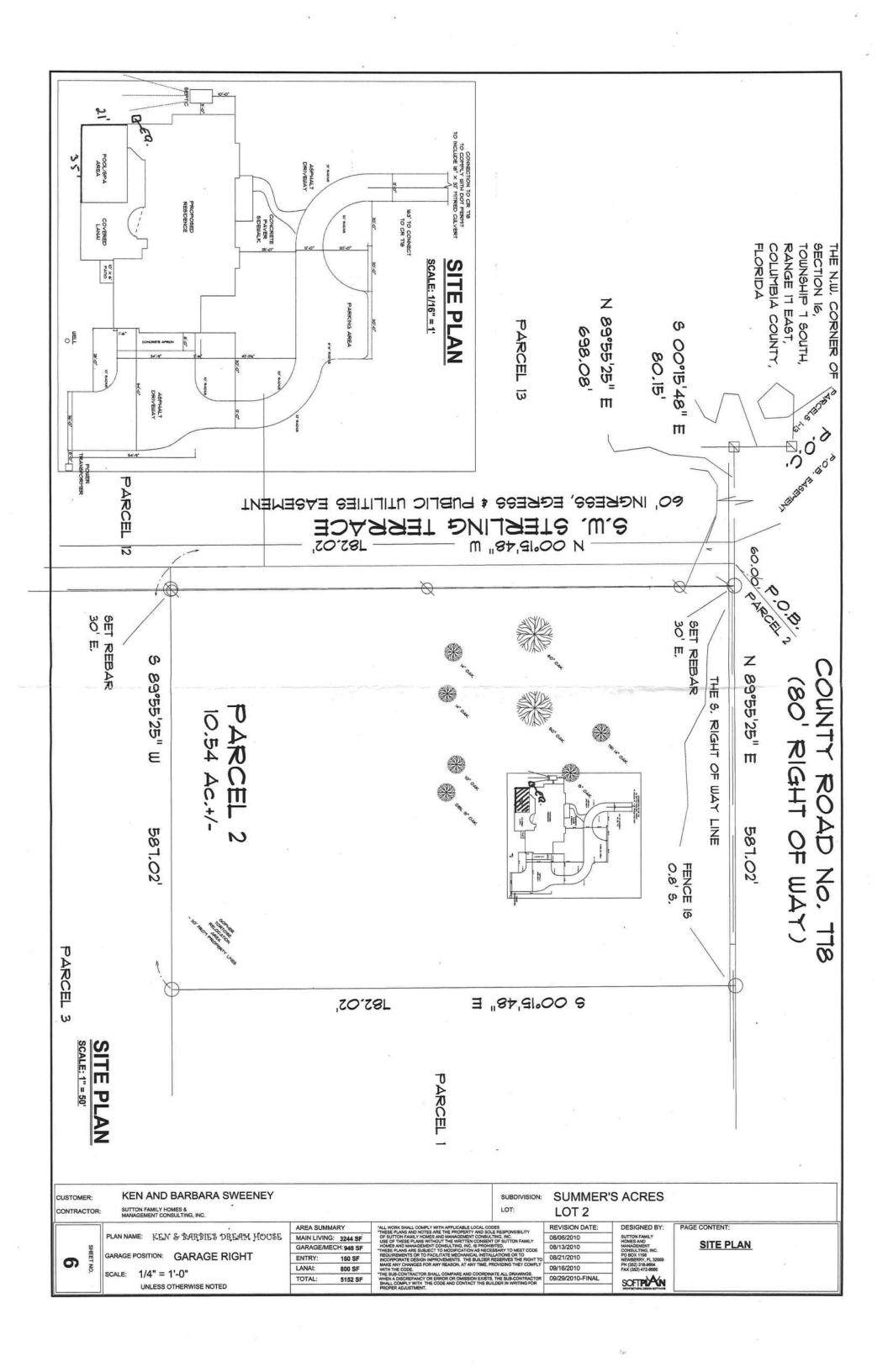
Owner of Building KENNETH & BARBARA SWEENEY

Location: 918 SW CR 778, HIGH SPRINGS, FL 32669

Date: 04/12/2011

Building Inspector

POST IN A CONSPICUOUS PLACE (Business Places Only)



ANSI/APSP-7 2006 Specifies three methods for determining the maximum system flow rate. simplified TDH calculation is one of the methods specified. The following

TDH Calculation Options For each pump

otal

Feet Conversion

Check one.

Simplified Total Dynamic Head (STDH)
Complete STDH Worksheet - Fill in a

Fill in all blanks.

Total Dynamic Head (TDH)

Simplified Total Dynamic Head Calculation Worksheet

Determine Maximum System Flow Rate:

	Ď.
	EN EN
	Flow
	Rate
,	Required:
λ 	35
200	gpm
No.	Per
2	Skimmer
	Ainimum Flow Rate Required: 35 gpm Per Skimmer (Required: 1 skin
	skimmer per 800 sf of surf. area)
	per
2000	800
S	st
S	앜
	surf.
6 41 19 7	area)

2. Determine preferred Turnover Time in hours:_ 36(Hours) _x 60 (min. / hr.) = (Turnover in Min.

3. Determine Max Flow Rate: 10472/ 6 (Jet Flow) (Jet Flow) gpm per jet = \(\frac{20}{(\text{Total Jet Flow Rate})} \) 30 + J - (System Flow Rate) (System Flow

(For single pump pool/spa combo, use the higher of No. 3 or No. 4 in the following calculations for the pool & spa)

Determine Pipe Sizes:

Return Piping to be Branch Piping to be Suction Piping to be Trunk, Skimmer & inch to keep velocity @ 10 fps max. at inch to keep velocity @ 8 fps max. at inch to keep velocity @ 6 fps max. at 120 120 00 gpm Maximum System Flow Rate. gpm Maximum System Flow Rate. gpm Maximum System Flow Rate.

Determine Simplified TDH:

- Distance from pool to pump in feet:
- Friction loss (in suction pipe) in W inch pipe per 1 ft. @ inch pipe per 1 ft. @ 120 gpm = 120 gpm = 9 (from pipe flow/friction loss chart) (from pipe flow/friction loss chart)
- (Length of Suct. Pipe) (Length of Return Pipe) (FI of head/1 ft of Pipe) (TDH Suct. Pipe) (Ft of head/1 ft of Pipe) (TDH Return Pipe

Friction loss (in return pipe) in

DH in Piping: 3.88

Heater loss in TDH (from heater data sheet): Filter loss in TDH (from filter data sheet): Total all other loss: 0.9 6.2

Selected Pump and Main Drain Cover. FHPM/-5-25peel

Total Dynamic Head (TDH): 34,78

Pump selection anny Ab-Pro (Make and Model) 1.5% using pump curve for TDH & System Flow Rate

Main Drain Cover Tayvacs (System Flow Rate must not exceed approved cover flow rates)

Notes: Minimum system flow based on min. flow per skimmer of 35 gpm betermine the Number and Type of Required In-Floor Suction Outlets:

0 0 Check all that apply. 3'-0" 0 tayuand

0 suction outlets @ channel drain @ suction outlets @ 9 gpm max. flow (see note 3). gpm max. flow (see note 2).

gpm w/

ports (see note 4).

Maximum Flow Capacity
of the new or replacement pump.

blanks on worksheet & attach calculations

Complete Program or other calcs. Fill in required

1. If a variable speed pump is used, pump flow in calculations. the max.

2. For side wall drains, use appropriate side flow as published by manufacturer.

3. Insert manufacturer's name and aproved maximum

4. See installation instructions for number of ports to

5. In-Floor suction outlet cover/grate must conform to most recent edition of ASME/ANSI A112.19.8 embossed with that edition approval be

Pump, Filter & Heater make and model cannot changed, and equipment location cannot be moved closer to pool without submitting a revised plan and TDH calculation worksheet for approval.

			8															e.							11.5)		
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1	1		1	ı	1		1			ı			۲	21	(r	85	BU I	re	ا	eu I	ge)					1						i	1 1	i
8	¥	ដ	Z	31	છ	29	28	27	26	25	24	23	23	21	8	19	18	17	6	35	14	13	12	=	6	8	00	7	6	5	•	3	2	-	0	
200	78.5	76.2	73.9	71.6	69.3	67.0	64.7	62.4	60.1	57.8	55.4	53.1	50.8	48.5	46.2	43.8	41.6	39.3	37.0	34.6	32.3	30.0	27.7	25.4	23.1	20.8	18.5	16.2	13.9	11.5	9.2	6.9	4.6	2.3	0.0	0
2	80.8	78.5	76.2	73.9	71.6	69.3	66.9	64.6	62.3	00.0	57.7	55.4	53.1	50.8	18.5	46.2	43.8	41.5	39.2	36.9	34.6	32.3	30.0	27.7	25.4	23.1	20.7	18.4	16.1	13.8	11.5	9.2	6.9	4.6	2.3	2
25.4	23	80.7	78.4	76.1	73.8	71.5	69.2	66.9	84.6	62.3	60.0	57.7	55.3	53.0	50.7	48.4	46.1	43.8	415	39.2	36.9	34.6	32.2	29.9	27.6	25.3	23.0	20.7	18.4	16.1	13.8	11.5	9.1	6.8	4.5	•
878	230	83.0	80.7	78.4	76.1	73.8	71.5	69.2	66.8	84.5	62.2	59.9	57.6	55.3	53.0	50.7	48.4	48.1	43.7	41.4	39.1	36.8	34.5	32.2	29.9	27.6	25.3	23.0	20.6	18.3	16.0	13.7	11.4	9.1	6.8	á
200	87.6	85.3	83.0	80.7	78.3	76.0	73.7	71.4	69.1	66.8	64.5	62.2	59.9	57.6	55.2	52.9	50.6	48.3	46.0	43.7	41.4	39.1	36.8	34.5	321	29.8	27.5	25.2	22.9	20.6	18.3	16.0	13.7	11.4	9.0	00
333	8.88	87.5	85.2	82.9	80.6	78.3	76.0	73.7	71.4	69.1	66.7	84.4	62.1	59.8	57.5	55.2	52.9	50.6	48.3	45.9	43.6	41.3	39.0	36.7	34.4	32.1	29.8	27.5	25.2	22.8	20.5	18.2	15.9	13.6	11.3	10
2	921	8.68	87.5	85.2	82.9	80.5	78.2	75.9	73.6	71.3	69.0	86.7	84.4	62.1	59.8	57.4	55.1	52.8	50.5	48.2	45.9	43.6	41.3	39.0	36.7	34.3	32.0	29.7	27.4	25.1	22.8	20.5	18.2	15.9	13:6	12
98.7	2	92.0	89.7	87.4	85.	82.8	80.5	78.2	75.9	73.6	71.3	69.0	68.6	84.3	62.0	59.7	57.4	55.1	52.8	50.5	48.2	45.9	43.5	41.2	38.9	36.6	34.3	32.0	29.7	27.4	25.1	22.8	20.4	18.1	15.8	14
989	98.6	94.3	92.0	89.7	87.4	85.1	82.8	80.5	78.1	75.8	73.5	71.2	6.83	66.6	84.3	62.0	59.7	57.4	55.0	52.7	50.4	48.1	15.8	43.5	41.2	38.9	36.6	34.3	31.9	29.6	27.3	25.0	22.7	20.4	18.1	16
101 2	98.9	96.6	94.3	92.0	89.6	87.3	85.0	82.7	80.4	78.1	75.8	73.5	71.2	68.9	66.5	64.2	61.9	59.6	57.3	55.0	52.7	50.4	48.1	45.8	43.4	41.1	38.8	36.5	34.2	31.9	29.6	27.3	25.0	22.7	20.3	18

NOTE: FIELD TDH MUST BE EQUAL TO OR HIGHER THAN THE CALCULATED TDH.

Flow and Friction Loss Per Foot Schedule 40 PVC Pipe 16 gpm 37 gpm 62 gpm 88 gpm 21 gpm 50 gpm 82 gpm 117 gpm 26 gpm 62 gpm 103 gpm 146 gpm 227 gpm

Drawn By:

A R PATTON &

(407) 977-1892 Associates, Inc.

Pools, Fountains and Features Specializing in Residential and Commercial

Control of the Contro
Specification Drawings or by others with my written permission.
may only be used in conjunction with my Residential Swimming Pool
This form is the property of Gordon H. Shepardson, PE and

2 878 672 N. Semoran Blvd., Office: (407) 275-1099 Fax: (407) 275-1015 Orlando, FL FL PE # 19533 JUN 2 2 2009 PE ដ Scale: None

1090 Kensington Park Dr Altamonte Springs FL 32714 C	Mush and Carolleman S	Liomand Loc
(407) 830-5327 CPC0056809		S

MASTER SPECIFICATION SWIMMING POOL RESIDENTIAL DRAWING

Rev 4 -

4/15/09



Qualification Test Plan

Title:

Chlorine Generator Cell
Qualification Test Plan

QTP #: 0113

Revision #: B

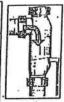
Date:

2/27/07

Page 23 of 28

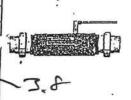
3-Port AquaPure1400 (.040) - 90°Plumb

Flow Rate (GPM)	Pressure (PSI) @ Inlet	Pressure (PSI) @ outlet	Pressure Drop (Delta P)		
30	43.7	43.6	0.1		
50	40.0	39.7	0.3		
70	34.4	33.7	0.7		
' 80	30.8	29.9	0.9		
100	21.1	19.5	1.6		
120 ·	. 12.8	10.7	2.1		
.132	4.2	1.4	2.8		



Square Cell AquaPure700

Flow Rate (GPM)	Pressure (PSI) @ Inlet	Pressure (PSI) @ outlet	Pressure Drop (Delta P)
30	43.8	43.3	0.5
50	40.7	39.5	1.2
70	35.1	33.6	1.5
. 80	32.5	30.5	2.0
100	22.8	19.5	3.3
120 ·	14.7	10.9	3.8
132	5.5	0.1	5.4



Square Cell AquaPure1400

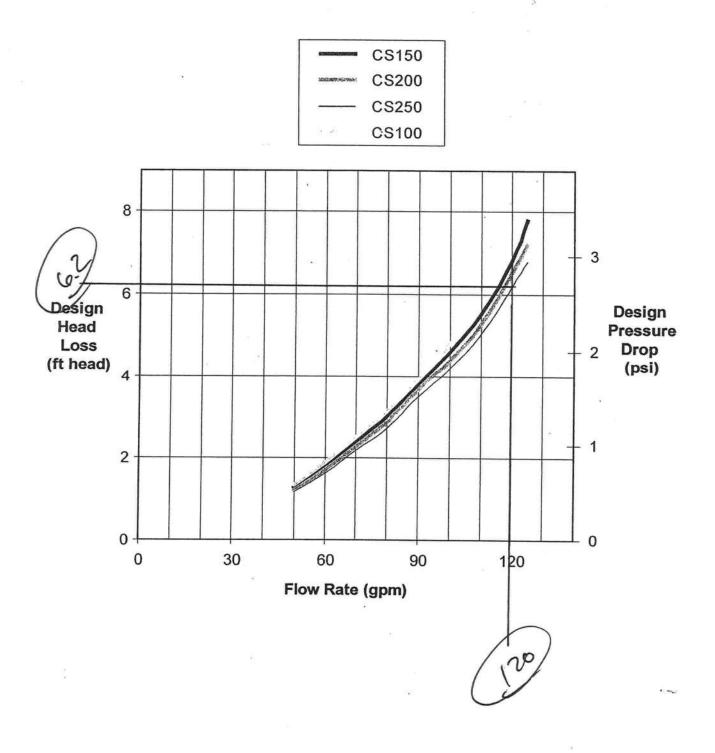
Flow Rate (GPM)	Pressure (PSI) @ Inlet	Pressure (PSI) @ outlet	Pressure Drop (Delta P)
· 30 ·	. 44.0	43.4	0.6
50	40.6	38.7	1.9
. 70	35.6	33.8	1.8
80	31.7	29.6	2.1
100	. 23.5	20.3	3.2
120 '	15	10.7.	4.3
132	. 5.6	0.2	5.4

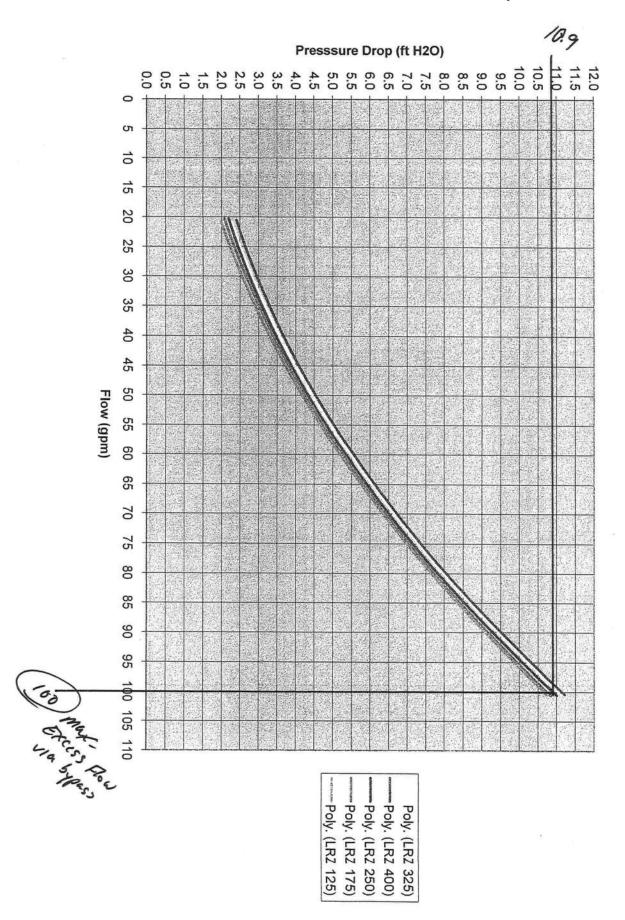


2 8	
Originator	Approval
Richard Wu	

Section 10. Head Loss Curves

10.1 Jandy® Cartridge Filter, CS Series

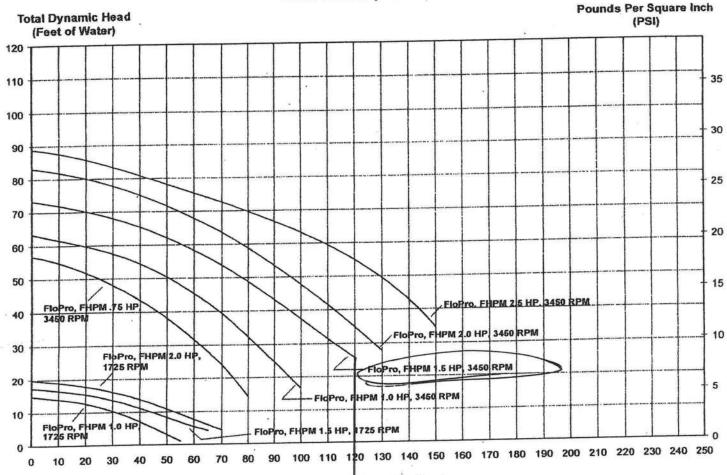




LRZ With a Polymer Header Heat Exchanger
Pressure Drop vs. Flow

7.3 Performance Curves

Jandy FloPro Series Pumps Max-Rated (FHPM)



Flow Rate, Gallons Per Minute

120 MAT LOW

Owners Manua

A Hayward Industries, Inc. Company

OWNER'S MANUAL INSTALLATION, OPERATION, & PARTS DUAL SUBMERGED SUCTION OUTLET SET [Commonly called main drains]





Basic safety precautions should always be followed, including the following: Failure to follow instructions can cause severe injury and/or death.

This is the safety-alert symbol. When you see this symbol on your equipment or in this manual, look for one of the following signal words and be alert to the potential for personal injury.

WARNING warns about hazards that could cause serious personal injury, death or major property damage and if ignored presents a potential hazard.

CAUTION warns about hazards that will or can cause minor or moderate personal injury and/or property damage and if ignored presents a potential hazard. It can also make consumers aware of actions that are unpredictable and unsafe.

The NOTICE label indicates special instructions that are important but not related to hazards.



A - WARNING - Read and follow all instructions in this owner's manual and on the equipment. Failure to follow instructions can cause severe injury and/or death.

IMPORTANT SAFETY INSTRUCTIONS

USE ONLY HAYWARD GENUINE REPLACEMENT PARTS

Pool Products avverd Industries, Inc. Company

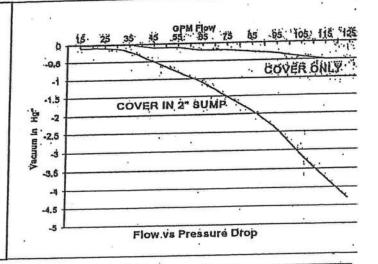
www.haywardpool.com

RECOMMENDED SYSTEM SPECIFICATIONS:

ACCEPTABLE PIPE SIZE FOR MAXIMUM RECOMMENDED

SYSTEM FLOW RATE PER APSP-7

Pipe Size [mm]	Flow rate GPM	Pipe Size [mm]	Flow rate GPM [Liter/Min]
1·½" [50]	[Liter/Min] 40: [150]	2 ½" [75]	90 · [340]	**
2" [63]	63 [240]	3" [90]	138 [522]	
, i	Chai	rt 1		



3X1048E Suction Outlet Covers are rated for Floor Only at 125 GPM

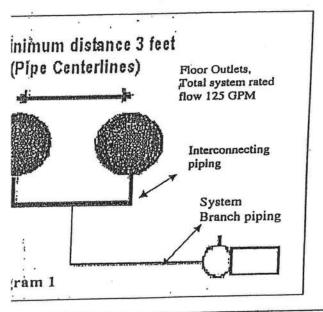
FIG 1 Note: 1" Hg = 1.13 Ft of Head

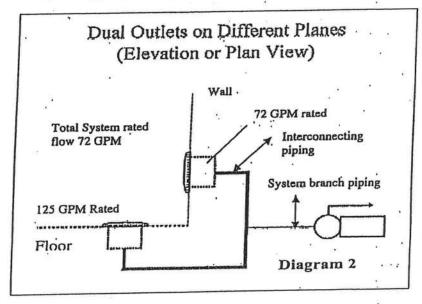
31048EW Suction Outlet Covers are rated for Wall or Floor at 72 GPM

he event of one suction outlet being blocked, the remaining suction outlets serving that system shall have a w rating capable of the full flow of the pump(s) for the specific suction system.

Imple: In the System shown in Diagram 1, two (2) "Floor Only" suction outlet covers are selected and mounted. These covers are individually rated for 125 GPM. For a desired flow rate through the pump of 100 GPM, a minimum pipe size from the Chart 1 is selected at 3". At the desired flow of 100 GPM one cover could be partially blocked and the other suction outlet flow would be below the rated 125 GPM of the "Floor" mounted suction outlet cover. Since there are two outlets flowing in normal operation, and the allowable velocity in the interconnecting piping is only 3ft/sec, the same pipe size is required in the interconnecting piping.

mple: In the System shown in Diagram 2, one (1) "Floor Only" suction outlet cover, rated at 125 GPM, and one (1) "Wall or Floor" suction outlet cover, rated at 72 GPM are selected and mounted. For a desired flow rate through the pump of 50 GPM, a minimum pipe size from the Chart 1 is selected at 2". At the desired flow of 50 GPM either cover could be totally blocked and the other suction outlet flow would be below the rated 72 GPM of the wall nounted suction outlet cover. Note: Flow may be limited by entrapping force in dual suction systems.





- Pool Walls shall be 5" thick and Floors shall be 6" thick and shall be pneumatically For pool plan, size, deck, and special details, see Contractor's Pool Plan.
- applied Concrete with a Compressive Strength of 3,000 psi in 28 days. Concrete Decks shall be 2,500 psi. Concrete construction will conform to ACI Standard 318. All Pool construction shall comply with Florida Building Code Building 2007 and Florida Building Code Residential 2007, tagether with 2009 Revisions, ANSI/NSP National Standard—5 for Residential Inground Swimming Pools, ANSI/NSP National Standard—3 for Permanently Installed Residential Spas, ANSI/APSP—7 American National Standard for Suction Entrapment Avoidance In Swimming Pools, Wading Pools, Spas, Hot Tubs and Catch Basins and the Latest Adapted National Electric Code (NEC)

ų

MIN. TO 6" MAX

SUP RESISTANT-

12" TYP.

WATERLEVEL

LADDERS ARE TO BE CROSS BRACED PER MANUFACTURERS SPECS

S.S. LADDER

28" MIN.

PLATE

BETWEEN TREAD
AND POOL WALL RUBBER —
BUMPER

TYPICAL

LADDER DETAIL

REINFORCING

#8 BARE, SOLID, COPPER CONDUCTOR TO SHELL

AS REQUIRED FOR STURDY INSTALLATION

ANCHOR NEDGE

PEXPANSION JOINTS AS REQUIRED

- #8 AWG COPPER WIRE

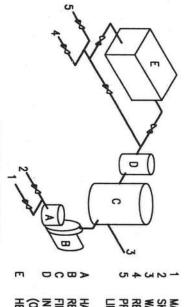
- All Pool Piping to be Schedule 40 PVC, bearing the mark of NSF Approval unless otherwise noted.
- All Reinforcing Steel to conform to ASTM 615, Grade 40. Reinforcing shall be #3 bars at 12" on center in each direction, w/ 15" lap joints in walls and floors up to 6'. Over 6' use #3 bars at 6" on center in each direction in the areas over

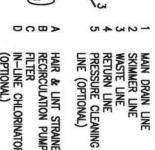
If Concrete is cast against Bare Earth without a Separation Barrier, the minimum cover shall be 3". With a Barrier (Steeltex) between Concrete and Earth, the ninimum cover shall be 11/2"

- Electrical Panel Ground to be by Electrician. Bond all Sheathed Cables, Raceways, Metal I bonded to the Pool Reinforcing Steel with #8 AWG Copper Wire. The #8 Copper Wire to be run internally and externally with the NEC approved PVC Light Conduit form the Light Niche to the Junction Box. Completion of the pool grounding to All Metallic Pool Fittings within 5' of the inside wall and deck reinforcing steel to the be
- 12'-0" Vertically of Maximum Water Level. Bond all Sheathed Cables, Raceways, Metal Piping and all Fixed Metal Parts not separated by a permanent barrier, if within 5'-0" Horizontally from Water and
- Latest Adapted National Electrical Code (NEC).
 Pool or Patio shall bear only on Rock or Clean Sand, which shall be compacted to Equipotential Bonding to be accomplished in accordance with Article 680 of the
- provide a Structurally Safe Bearing Capacity. Any Unsuitable Material encountere excavation shall be removed in its entirety and the area shall be backfilled with acceptable material and properly compacted. Where unsuitable Material cannot be emoved, the pool must be redesigned Any Unsuitable Material encountered in
- **10**. The Contractor must protect Existing Structures from failure by acceptable methods required. The Engineer accepts no responsibility for the safety of Existing
- = Required Setback areas. all dimesions shown prior The Design Engineer assumes no responsibility for pool construction in Easements or Required Setback areas. Pool Contractor and/or Owner shall verify the layout and
- 12. all dimesions shown prior to construction.

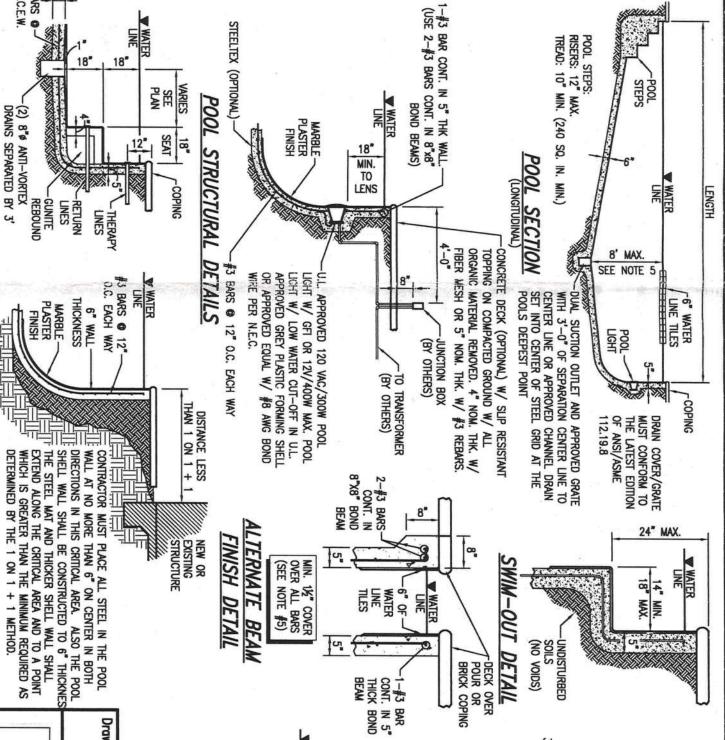
 Contractor shall determine the location of all Utilities in relation to the Pool and its and Ordinances. Equipment and ensure minimum clearances in accordance with Local Regulations
- :: Contractor shall provide adequate Temporary Fencing around the construction area to prevent unauthorized entry into the Pool Area. If a water supply is provided, a minimum 3" Atmospheric Break will be provided.
- 15. 14. Spa Construction. Filtration and Electrical details outlined in these drawings also relate
- 17. 16. All Pool and Spa Heaters shall be equipped with an On/Off Switch mounted for easy access to allow the Heater to be Shut Off without adjusting the Thermostat settings and to allow restarting without relighting the Pilot Light.

 WARNING! To empty the Pool for any reason, the Hydrostatic Uplift Pressure must be eliminated. The Owner must consult a Contractor experienced in eliminating
- Uplift Pressure.





HAIR & LINT STRAINER RECIRCULATION PUMP HEATER (OPTIONAL) N-LINE CHLORINATOR OPTIONAL



■ WATER

4'-0"

BOX

TRANS.

SPST TOGGLE -

TO SERVICE

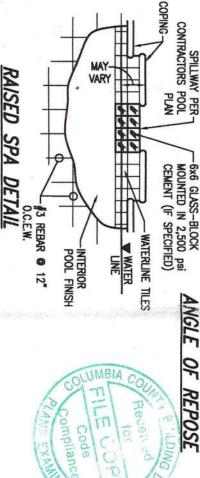
CLOCK PANEL

SPA STRUCTURAL DETAILS

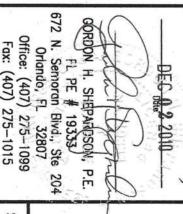
TYPICAL WALL AND

FLOOR WITHIN

O.C.E.W.



PLAN EXPIRES 1 YEAR FROM THE SIGNATURE DATE OR THE EFFECTIVE DATE OF A MAJOR FLORIDA BUILDING CODE CHANGE WHICHEVER IS SOONER



Altamonte Springs FL 32714

CPC0056809

Scale: None Rev

Drawn By:

ELECTRICAL DIAGRAM

12V/400W MAX. POOL LIGHT W/ LOW WATER CUT-OFF OR 120 V.A.C. W/ GFI PER NEC.

3 #12 IN 15"

ALL ELECTRICAL WORK SHALL CONFORM WITH ART. 680 OF THE LATEST ADAPTED NEC.

Associates, Inc. (407) 977-1892 A R PATTON &

Specializing in Residential and Commercial Pools, Fountains and Features

1090 Kensington Park Dr Honesty and Excellence in Service (407) 830-5327

MASTER SPECIFICATION SWIMMING POOL RESIDENTIAL DRAWING

COLUMBIA COUNTY 1 11/18/09

TURNDOWN NOTES

- Detail is based on NO surcharge behind the Turndown and the Ground away from the Turndown is Level (>4 to 1). Turndown may abut Ribbon Footer and be tied into Footer if Appropriate, with #3 Rebar.
- Turndown shall bear on Rock, Clean Sand or Structurally Sound Soils (>1,500 PSF) that shall be compacted to provide Optimum Bearing Capacity and prevent Settling
- All Reinforcing Steel is to Conform to ASTM 615, Grade 40.
- Concrete shall contain Fiber Mesh and have a 28 Day Compressive Strength of 2,500 PSI.
- 5 All Construction to Conform to Florida Building Code Building 2007, Florida Building Code Residential 2007, together with 2009 Revisions.
- 6 Refer to Contractor's Plan on file with the Building Department for Details on
- If the Base of the Turndown does not extend into the Old (Existing) Ground, a 4.00 Pilaster will be required every 5'-0" that will be either 2'-0" into the Ground or to 6" into the Indigenous Material, Whichever is Deeper. The Pilaster will have a #3 Rebar tied into the #5 Rebar in the base of the Vertical Pour.
- A Deck Turndown is NOT intended to be a substatute for a Retaining Wall. If the Vertical Dimension from the Top of the Concrete Deck to the Old (Existing) Ground reaches 42" for a 12" Turndown, 48" for a 18" Turndown or 54" for a 24" Turndown, for more than 20% of the Turndown Length or the Finished Grade Slope exceeds (steeper than) 4' Horizontally and 1' Vertically, a Turndown should not be used.
- 9. For a Paver Deck, if the Vertical Dimension from the Top of the Deck to the Old (Existing) Ground reaches 30.0" for a 12" Turndown, 36.0" for a 18" Turndown or 42.0" for a 24" Turndown, for more than 20% of the Turndown Length or the Finished Grade Slope exceeds (steeper than) 4' Horizontally and 1' Vertically, a Turndown should not be used.
- If a Screen Enclosure is to be installed on top of the Turndown, the Swimming Pool Contractor must Coordinate attachment of the Screen Enclosure to the Turndown with the Screen Contractor.

10.

FOOTER NOTES

If a Screen Enclosure is to be installed, the Swimming Pool Contractor must Coordinate Construction of any required Footer with the Screen Contractor.

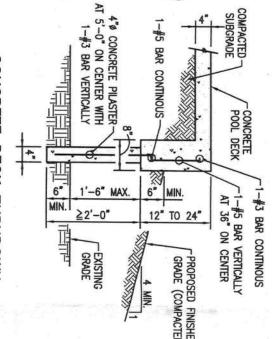
PROPOSED-FINISHED GRADE

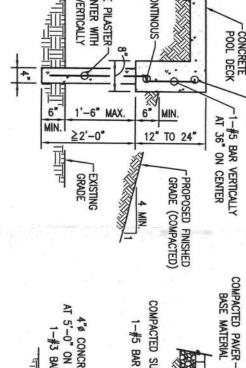
POOL DECK

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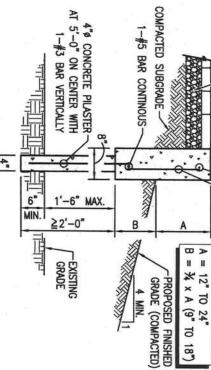
x 12" FOOTER

- 'n Footer shall bear on Rock, Sand or Structurally Sound Soils (>1,500 PSF) that shall be compacted to provide Optimum Bearing Capacity and prevent Settling or Shifting.
- S. Concrete shall have a 28 Day Compressive Strength of 2,500 PSI with Fiber Mesh or 6x6-10x10 W.W. Mesh.
- (3) #3 Rebars is Equivalent to (1) #5 Rebar.
- A Footer may be installed with a Brick Paver Pool Deck if required by the Jurisdiction or at the Option of the Contractor and may be placed over the Top of the Footer or Abutting the Side of the Footer.





CONCRETE DECK TURNDOWN



SEE PAVER DECK TURNDOWN DETAIL FOR INFORMATION NOT SHOWN

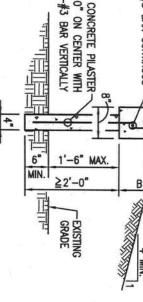
- BRICK PAVER POOL DECK

-1-#3 BAR CONTINOUS

~1-#5 BAR VERTICALLY AT 36" ON CENTER

-BRICK PAVER
POOL DECK

PAVER SECURED TO TOP OF TURNDOWN BY PAVER INDUSTRY STANDARDS



PAVER DECK TURNDOWN

DRAINAGE SWALE

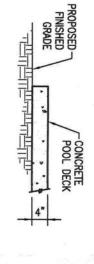
ALTERNATE PAVER ON TURNDOWN

/1-#5 BAR VERTICALLY AT 36" ON CENTER

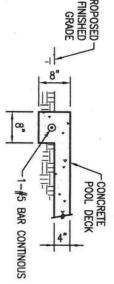
-1-#3 BAR CONTINOUS

-1-#5 BAR CONTINOUS

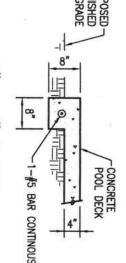
-BRICK PAVER
POOL DECK



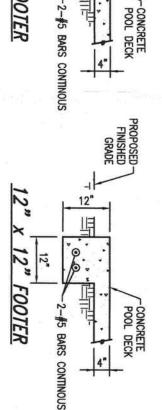
NO FOOTER



S x 8" FOOTER



A = 12" TO 24" $B = \frac{1}{2} \times A (9" \text{ TO } 18")$



Drawn By:

A R PATTON &

Specializing in

ALTERNATE PAVER LOCATION

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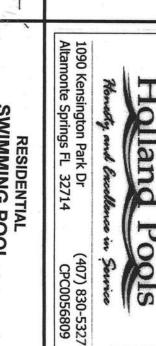
COMPACTED SUBGRADE

BASE MATERIAL

Associates, Inc.

(407) 977-1892

Pools, Fountains and Features Residential and Commercial



MASTER SPECIFICATION SWIMMING POOL DRAWING

COLUMBIA COUNTY

FOR

672 N. Semoran Blvd., St. Orlando, FL 32897

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Office: (407) 275-1099 Fax: (407) 275-1015

Scale:

None

Rev

4

4/15/09

GORDON H. SHEPARDSON

P.E.

FL PE # 1933

ANSI/APSP-7 2006 Specifies three methods for determining the maximum system flow rate. simplified TDH calculation is one of the methods specified. The following

Simplified Total Dynamic Head (TDH) Calculation Worksheet

Determine Maximum System Flow Rate:

linimum
imum Flow Rate F
Rate
Required:
35
gpm
Per
Skimmer
(Requ
ired:
1 skimmer per 800 sf of s
per
800
) sf
of.
트
area)

- Calculate Pool Volume: (Surf. Area) (Avg. Depth) x 7.48 (gal./cubic foot) = $\frac{}{\text{(Vol. in gal.)}}$
- Determine preferred Turnover Time in hours: (Hours) x 60 (min. / hr.) = (Turnover in Min.)
- 3. Determine Max Flow Rate: (Vol. in gal.) (Turnover Mins.) (Pool Flow Rate) + (Feature Flow Rate) (System Flow Rate)
- (No. of Jets) (Jet Flow) gpm per jet = Total Jet Flow Rate) flow rate.

(For single pump pool/spa combo, use the higher of No. 3 or No. 4 in the following calculations for the pool & spa)

Determine Pipe Sizes:

gpm Maximum System Flow gpm Maximum System Flow gpm Maximum System Flow	Return Piping to be	Trunk, Skimmer & Suction Piping to be	Branch Piping to be
Flow Flow	inch to keep velocity @ 10 fps max. at	inch to keep velocity @ 8 fps max. at	inch to keep velocity @ 6 fps max. at
Flow Flow			2
	Flow	gpm Maximum System Flow Rate.	gpm Maximum System Flow Rate.

Determine Simplified IDH:

- 1. Distance from pool to pump in feet:
- 2. Friction loss (in suction pipe) in inch pipe per 1 ft. @ gpm (from pipe flow/friction loss chart)
- 3. Friction loss (in return pipe) in inch pipe per 1 ft. @ gpm = (from pipe flow/friction loss chart)
- (Length of Return Pipe) (Ft of head/1 ft of Pipe) (TDH Return Pipe) (TDH Suct. Pipe) TDH in Piping:

(Length of Suct. Pipe)

(Ft of head/1 ft of Pipe)

Heater loss in TDH (from heater data sheet) Filter loss in TDH (from filter data sheet)

Total all other loss:

Selected Pump and Main Drain Cover: using pump curve for TDH & System Flow Rate Total Dynamic Head (TDH):

Main Drain Cover (Make and Model) (System Flow Rate must not exceed approved cover flow rates)

Pump selection

Notes: Minimum system flow based on min. flow per skimmer of 35 gpm Determine the Number and Type of Required In-Floor Suction Outlets:

Check all that apply. 0 0

0

0

0

	2	
channel	suction outlets	suction outlets
channel drain @	outlets	outlets
	0	0
92	, 19	9
gpm	gpm	gpm
₹	100	1
$\overline{}$	max.	max.
	max. flow	max. flow
P	max. flow (see	flow (see
ports	max. flow (see note	flow (see
ports (see	max. flow (see note 3).	max. flow (see note 2).
ports (see note 4).	max. flow (see note 3).	flow (see note

TDH Calculation Options For each pump Check one.

- Simplified Total Dynamic Head (STDH) Complete STDH Worksheet Fill in al Fill in all blanks.
- Complete Program or other calcs. Fill in required blanks on worksheet & attach calculations. Total Dynamic Head (TDH)
- of the new or replacement pump Maximum Flow Capacity

Notes

- 1. If a variable speed pump is used, use pump flow in calculations. the max.
- For side wall drains, use appropriate side wall drain flow as published by manufacturer.
- 3. Insert manufacturer's name and aproved maximum
- 4. See installation instructions for number of ports to be used.
- In-Floor suction outlet cover/grate must conform to most recent edition of ASME/ANSI A112.19.8 and be embossed with that edition approval.
- Pump, Filter & Heater make and model cannot changed, and equipment location cannot be moved closer to pool without submitting a revised plan and TDH calculation worksheet for approval.

Flow and Friction Loss Per Foot Schedule 40 PVC Pipe

		-	Velocity - Fee	 Feet Per Second 	4	
Size	6 1	fps	8 f	fps	10	fps
•	16 gpm	0.14		0.23'	26 gpm	0.35
5	100	0.08		0.14		0.21
	62 gpm	0.06'	82 gpm	0.10	103 gpm	0.16
5	88 gpm	0.05	117 gpm	0.09'		0.13
•	136 gpm	0.04	181 gpm	0.07		0.10
		0.03		0.05	392 gpm	0.07
•		0.02		0.03		

This form is the property of Gordon H. Shepardson, PE and may only be used in conjunction with my Residential Swimming Poc Specification Drawings or by others with my written permission. Pool

Contractors Telephone No.	Contractors Cert. No.	Contractors Printed Name	Contractors Signature		Date	
Fax: (407) 275-1015	Orlando, FL 32807 Office: (407) 275-1099	672 N. Semoran Blvd., Ste 204	GORDON H. SHEPARDSON, P.E.	This worksheet was Created and provided By	Date	DEC 0 2 2010 ×

PSI (Pressure Gauge) Total Head In Feet Conversion Inches Mercury (Vacuum Gauge) Chart

35	¥	H	32	31	30	29
80.9	78.5	76.2	73.9	71.6	69.3	67.0
83.1	80.8	78.5	76.2	73.9	71.6	69.3
85.4	83.1	80.7	78.4	76.1	73.8	71.5
87.6	85.3	83.0	80.7	78.4	76.1	73.8
89.9	87.6	85.3	83.0	80.7	78.3	76.0
92.2	89.8	87.5	85.2	82.9	80.6	78.3
94.4	92.1	89.8	87.5	85.2	82.9	80.5
96.7	94.4	92.0	89.7	87.4	85.1	82.8
98.9	98.6	94.3	92.0	89.7	87.4	85.1
101	98	96	94	92	89	87

NOTE: FIELD TDH MUST BE EQUAL TO OR HIGHER THAN THE CALCULATED TDH.

A R PATTON & Associates, Inc. (407) 977-1892 Specializing in Residential and Commercial Pools, Fountains and Features

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Honesty and Excellence in Service

1090 Kensington Park Dr Altamonte Springs FL 32714 (407) 830-5327 CPC0056809

MASTER SPECIFICATION SWIMMING POOL RESIDENTIAL DRAWING

COLUMBIA COUNTY Rev 7 11/18/09

Scale:

None

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