	lumbia County Building Must Be Prominently Posted on Premis		PERMIT 000028934
APPLICANT TERRY MIKE HART	wast be frommently rosted on fremis	PHONE 407-383-	
	ON PARK DR ALTIMO	ONTE SPRINGS	FL 32714
OWNER ROBERT & JAMIE SHR		PHONE 407-414-	
ADDRESS 874 SW ROBER	100 E 100 March		FL 32038
CONTRACTOR E. MICHAEL HOL	LAND	PHONE 407-830-	5327
LOCATION OF PROPERTY 47-	S TO US 27,TR TO UTAH,TL TO ROBE	RTS ROAD,TL APPROX	C.1/2
MII	LE ON THE R, 2ND BACK FROM 90 DI	EGREE CURVE ON R-E	LEC FENCE
TYPE DEVELOPMENT SWIMMIN	G POOL ESTIMATED	COST OF CONSTRUCT	ION 25000.00
HEATED FLOOR AREA	TOTAL AREA	HEIGH	T STORIES
FOUNDATION	WALLS ROOF PITC	CH	FLOOR
LAND USE & ZONING AG-3		MAX. HEIGHT	35
Minimum Set Back Requirments: ST	REET-FRONT 30.00	REAR 25.00	SIDE 25.00
NO. EX.D.U. 1 FLOOD Z	ONE NA DEVELO	PMENT PERMIT NO.	
PARCEL ID 30-6S-16-03989-000	SUBDIVISION		
LOT BLOCK PH.	ASE UNIT 0	TOTAL ACRES	15.62
	CPC056809 ×	Du M	,
Culvert Permit No. Culvert Waiver		Applicant/C	Owner/Contractor
EXISTING X10-0367	BK	TC	N
Driveway Connection Septic Tank N	umber LU & Zoning checked		suance New Resident
COMMENTS: NOC ON FILE	99.0		
COMMENTO:			
		Check #	or Cash 5893
FO	R BUILDING & ZONING DEPA		
	R BUILDING & ZONING DEPA	ARTMENT ONLY	(footer/Slab)
Temporary Powerdate/app. by	Foundation	ARTMENT ONLY  Monolit	(footer/Slab)
Temporary Power	Foundation date/app	ARTMENT ONLY  Monolit by	(footer/Slab)
Temporary Power  date/app. by  Under slab rough-in plumbing	Foundation date/app Slab date/app. by date	ARTMENT ONLY  Monolit by	(footer/Slab) hicdate/app. by
Temporary Power  date/app. by  Under slab rough-in plumbing  Framing	Foundation date/app Slab date/app. by date Insulation	ARTMENT ONLY  Monolit by  Shea	(footer/Slab) hicdate/app. by thing/Nailing
Temporary Power  date/app. by  Under slab rough-in plumbing  Framing  date/app. by	Foundation date/app  Slab  date/app. by date  Insulation date/app. by	ARTMENT ONLY  Monolit by  Shea	(footer/Slab) hic date/app. by thing/Nailing date/app. by
Temporary Power  date/app. by  Under slab rough-in plumbing  Framing	Foundation date/app  Slab  date/app. by date  Insulation date/app. by  wood floor	ARTMENT ONLY  Monolity  Sheat  App. by  Electrical rou	(footer/Slab) hic date/app. by thing/Nailing date/app. by
Temporary Power  date/app. by  Under slab rough-in plumbing  Framing  date/app. by  Rough-in plumbing above slab and below  Heat & Air Duct	Foundation    date/app     Slab     date/app. by   date     Insulation   date/app. by     wood floor   date/app. by     Peri. beam (Lintel)	ARTMENT ONLY  Monolit by  Sheat  App. by  Electrical rou	(footer/Slab) hic date/app. by thing/Nailing date/app. by gh-in date/app. by
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Temporary Power  date/app. by  Under slab rough-in plumbing  Framing  date/app. by  Rough-in plumbing above slab and below  Heat & Air Duct  date/app. by  Permanent power  date/app. by  Pump pole  Utility Pole	Foundation  date/app  Slab  date/app. by date  Insulation  date/app. by  wood floor  date/app. by  Peri. beam (Lintel)  C.O. Final  date/app. by  M/H tie downs, block	ARTMENT ONLY  Monolit  Sheat  App. by  Electrical rough  date/app. by  Culvert	(footer/Slab)  hic
Temporary Power  date/app. by  Under slab rough-in plumbing  Framing  date/app. by  Rough-in plumbing above slab and below  Heat & Air Duct  date/app. by  Permanent power  date/app. by  Pump pole  date/app. by  Utility Pole	Foundation	ARTMENT ONLY  Monolit  by  Sheat  App. by  Electrical rou  date/app. by  Culvert  king, electricity and pluml	(footer/Slab) hic
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Temporary Power  date/app. by  Under slab rough-in plumbing  Framing  date/app. by  Rough-in plumbing above slab and below  Heat & Air Duct  date/app. by  Permanent power  date/app. by  Pump pole  date/app. by  Reconnection  date/app. by  BUILDING PERMIT FEE \$ 125.00	Foundation    date/app     Slab     date/app. by   date     Insulation       date/app. by     wood floor       date/app. by     Peri. beam (Lintel)     C.O. Final       date/app. by     M/H tie downs, block     date/app. by     RV     date/app.	ARTMENT ONLY  Monolity  Sheat  App. by  Electrical rough  Culvert  King, electricity and plumb  Rep. by  SURCH	(footer/Slab)  hic
Temporary Power  date/app. by  Under slab rough-in plumbing  Framing  date/app. by  Rough-in plumbing above slab and below  Heat & Air Duct  date/app. by  Permanent power  date/app. by  Pump pole  date/app. by  Reconnection  date/app. by  BUILDING PERMIT FEE \$ 125.00  MISC. FEES \$ 0.00 ZO	Foundation    date/app     Slab     date/app. by   date     Insulation       date/app. by     wood floor       date/app. by     Peri. beam (Lintel)     C.O. Final       date/app. by     M/H tie downs, block     date/app. by     RV       date/app     CERTIFICATION FEE \$	ARTMENT ONLY  Monolity  Sheat  App. by  Electrical rough  Adate/app. by  Culvert  King, electricity and plumb  Rep. by  0.00  SURCH.  FEE \$ 0.00	(footer/Slab)  hic date/app. by  thing/Nailing date/app. by  gh-in date/app. by  ol date/app. by  date/app. by  date/app. by  hroof date/app. by  ARGE FEE \$ 0.00

PERMIT

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.

"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."

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.

For Office Use Only Application #_	/009-54 Da	te Received 9/28	8/10 By F Permit	# 28934
Zoning Official 52k Date 0	5.10.10 Flood Zon	e_ <u>N/A</u> Lan	d Use <u>A-3</u> Zon	ing A-3
FEMA Map # Elevation	MFE N/A	River_ N/A_F	Plans Examiner 1,C	Date_/o-/-/6
Comments		0000		
NOC TEH Deed or PA Site PI				
IMPACT FEES: EMS			ntractor of W Com	ip. letter
School	= TOTAL NA	Accessory U	ISC KI DE	
Septic Permit No. X10-367	in box imik	e	Fax 407 8	306404
Name Authorized Person Signing Perm	n lervy H	Aut	Phone 407 3	83-2052
Address 1090 Kensing	on Park Da	. Altam	onle Spring	-S, FL 32719
Owners Name Lauric SY	man		Phone	
911 Address 874 Sw. Rol				
Contractors Name E. Michig	uel Hollan	S	Phone 407 8	305337
Address 1090 Kensing t	on Park D	C. Altamo	onte Sp. Pl	39714
Fee Simple Owner Name & Address				*
Bonding Co. Name & Address				
Architect/Engineer Name & Address_	Gordon Si	nencudsus	DD GNES	iduo.
Mortgage Lenders Name & Address				Julian Script
Circle the correct power company – F	L Power & Light - (	Clay Elec Suw	rannee Valley Elec	Progress Energy
Property ID Number 30-(65-)(6-6			·×	
Subdivision Name_NO_Nome				
JUDINISM NOME NO NOME	0 27 TI	lof	Block Unit	Phase
Driving Directions 913 //2 3.	C I such	NIVELSI de	eil Utah,	TRON
Boberts, next	to last o	n Hight	Office Telegraph	A
			ng Dwellings on Prope	
Construction of ingrand par	st, soa & de	CC Tot	al Acreage 15.65	lot Size
Do you need a - <u>Culvert Permit</u> or <u>Culvert</u>	ert Waiver or Have	an Existing Drive	Total Building Hei	ght
Actual Distance of Structure from Proper	y Lines - Front	Side06e	Side 200	Rear 9201
Number of Stories Heated Floor A	rea	_ Total Floor Area	Roof I	Pilch
Application is hereby made to obtain a p installation has commenced prior to the of all laws regulating construction in this		d installations as it and that all work	ndicated. I certify that be performed to mee	t the standards

Page 1 of 2 (Both Pages must be submitted together.)

Revised 6-19-09

### 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.

TIME LIMITATIONS OF PERMITS: 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.

(Owners Must Sign All Applications Before Permit Issuance.) \*\*OWNER BUILDERS MUST PERSONALLY APPEAR AND SIGN THE BUILDING PERMIT. Owners Signature CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit including all application and permit time limitations. CPC056809 Contractor's License Number\_ **Columbia County** Contractor's Signature (Permitee) Competency Card Number Affirmed under penalty of perjury to by the Contractor and subscribed before me this 20 day of So when 20 10 or Produced Identification Personally known SEAL JENNIFER K. GIBSON MY COMMISSION # DD 884317 State of Florida Notary Signature (For the Contractor) EXPIRES: August 26, 2013 Bonded Thru Notary Public Underwriters Page 2 of 2 (Both Pages must be submitted together.) Revised 6-19-09

Inst. Number: 201012015717 Book: 1202 Page: 437 Date: 9/28/2010 Time: 3:39:13 PM Page 1 of 1

NOTICE OF COMMENCEMENT	Inst:201012015717 Date:9/28/2010 Time:3:39 PM DC,P.DeWitt Cason,Columbia County Page 1 of 1 B:1202 P:437
NOTICE OF COMMENCEMENT	County Clerk's Office Stamp or Seal
Tax Farcel Identification Number 30-65-16-03989	- DOO
THE UNDERSIGNED hereby gives notice that improvements will be made Florida Statutes, the following information is provided in this NOTICE OF	COMMENCEMENT
I. Description of property (legal description): VTILC 184 23 975	PER SUNS ISOLOGIFIFOR POBRUME ISOLOGIFU GEFTTOWN
a) Street (job) Address: 3'14.5W KODE-175 A	VE FORT White FL 32038
2 General description of improvements: <u>SWIMMING PCC</u>	
3. Owner Information a) Name and address: Robert & Jamie Sk	nrum 8745W Roberts Ave Fort White
b) Name and address of fee simple titleholder (if other than owner	
4. Contractor Information	A CONTRACTOR OF THE CONTRACTOR
a) Name and address: Holl und Pools 1090 b) Telephone No: 4075305337	Kensington Park Dr. Alternate Sp. FC 35714
5. Surety Information	
b) Amount of Bond:	
c) Telephone No.:	Fax No. (Opt.)
5 Lender	SI AND SINGE
b) Phone No.	
7 Identity of person within the State of Florida designated by owner upon v	whom notices or other documents may be served.
a) Name and address:	Fax No. (Opt.)
V) Total Marie Mar	Tax IV. (Opt.)
8. In addition to himself, owner designates the following person to receive a	copy of the Lienor's Notice as provided in Section 713.13(1)(b),
Florida Statutes:	
b) Telephone No.:	Fax No. (Opt.)
<ol> <li>Expiration date of Notice of Commencement (the expiration date is one is specified):</li> </ol>	
WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNE COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IT COMMENCEMENT MUST BE RECORDED AND POSTED ON THE TO OBTAIN FINANCING, CONSULT YOUR LENDER OR AN ATT YOUR NOTICE OF COMMENCEMENT.	UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA MPROVEMENTS TO YOUR PROPERTY; A NOTICE OF L JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND
STATE OF FLORIDA	MMXMI
COUNTY OF COLUMBIA  Signs	perc of Owner or Owner's Authorized Office/Director/Pertner/Manager
7	Jamie M Shrum
Print  The foregoing instrument was acknowledged before me, a Florida Notary, this	Name
	2.00
	(type of authority, e.g. officer, trustee, attorney
fact) for	(name of party on behalf of whom instrument was executed).
Personally Known OR Produced Identification Type  Notary Signature No	JENNIFER K. GIBSON MY COMMISSION # DD 884317 EXPIRES. August 26, 2013 go that floury Public Emderwritins
11. Verification pursuant to Section 92.525, Florida Statutes. Under pon	[[[[하다] - [[[[[[] - [[]
facts stated in it are true to the best of my knowledge and belief.	118h
Sign	nature of Natural Person Signing (in line #10 above.)

### SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER	CONTRACTOR Emichael HollandHone 5327
THIS FORM MUST BE	SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT

In Columbia County one permit will cover all trades doing work at the permitted site. It is <u>REQUIRED</u> 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 start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.

ELECTRICAL /	Print Name	rian m	iller	Signature	Moil.	
OP	License #: E	-130011	086	Ph	none #: 36666	811222
MECHANICAL/	Print Name				53006	\$ 440 A
A/C	License #:				one #:	
PLUMBING/	Print Name E.	micho	lei Hollan	Signature	z he ta	=0
GAS OK	License #:	2056	809	Ph	one #: 40\830	530
ROOFING	Print Name				101000	353
	License #:				one #:	
SHEET METAL	Print Name			Signature	N CONTRACTOR	-
	License #:				one #:	
FIRE SYSTEM/	Print Name			Signature		
SPRINKLER	License#:				ne #:	***
OLAR I	Print Name			Signature		
	lcense #:				ne #:	
Specialty Lice		The state of the s				
	nse License	Number	Sub-Contractor:	Printed Name	Sub-Contractor	s Signature
ASON	Ceci	-			Sub-Contractor	's Signature
AASON ONCRETE FINIS	Ceci	Number 250809 u		20015	Sub-Contractor	's Signature
MASON ONCRETE FINIS RAMING	Ceci	256869	Holland	20015	Sub-Contractor	s Signature
MASON ONCRETE FINIS RAMING NSULATION	Ceci	256869	Holland	20015	Sub-Contractor	's Signature
MASON ONCRETE FINIS RAMING NSULATION TUCCO	Ceci	256869	Holland	20015	Sub-Contractor	s Signature
MASON ONCRETE FINIS RAMING NSULATION TUCCO RYWALL	Ceci	256869	Holland	20015	Sub-Contracto	s Signature
MASON ONCRETE FINIS RAMING NSULATION TUCCO RYWALL LASTER	HER	256869	Holland	20015	Sub-Contracto	's Signature
MASON ONCRETE FINIS RAMING NSULATION TUCCO RYWALL	HER	256869	Holland	20015	Sub-Contractor	's Signature
MASON CONCRETE FINIS RAMING NSULATION TUCCO RYWALL LASTER ABINET INSTALL	HER CPCC	256869	Holland	20015	Sub-Contracto	's Signature
MASON ONCRETE FINIS RAMING NSULATION TUCCO RYWALL LASTER ABINET INSTALI	HER CPCC	256869	Holland	20015	Sub-Contracto	's Signature
MASON CONCRETE FINIS RAMING NSULATION TUCCO RYWALL LASTER ABINET INSTALL AINTING COUSTICAL CEIL	HER CPCC	256869	Holland	20015	Sub-Contracto	's Signature
MASON CONCRETE FINIS RAMING NSULATION TUCCO RYWALL LASTER ABINET INSTALI AINTING COUSTICAL CEIL LASS ERAMIC TILE OOR COVERING	HER CPCC	256869	Holland	20015	Sub-Contracto	's Signature
MASON CONCRETE FINIS RAMING NSULATION TUCCO RYWALL LASTER ABINET INSTALI AINTING COUSTICAL CEIL LASS RAMIC TILE OOR COVERING UM/VINYL SIDI	HER CPCC	256869	Holland	20015	Sub-Contracto	's Signature
MASON CONCRETE FINIS RAMING NSULATION TUCCO RYWALL LASTER ABINET INSTALI AINTING COUSTICAL CEIL LASS ERAMIC TILE OOR COVERING	HER CPCC	256869	Holland	20015	Sub-Contracto	's Signature

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	r
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### NOTICE TO SWIMMING POOL OWNERS

approval and use of my pool. I will need all the inspection	been informed and I understand that prior to the final inspection one approved and the required fencing installed in accordance with the ser 4 Section 24 requires private residential swimming pools, hot as deep to meet the following pool barrier safety feature
---	--

- 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:

- 1) 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.

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.

Owner Signature Date

Address: 874 SW. Roberts A. O

Contractor Signature / Date

License Number

3867582160

RX Date/Time 09/03/2010 09:07

### Columbia County Property Appraiser

DB Last Updated: 8/5/2010

Parcel: 30-6S-16-03989-000

<< Next Lower Parcel | Next Higher Parcel >>

Owner & Property Info

Owner's Name	SHRUM ROBERT G & JAMIE M			
Mailing Address	874 SW ROBERTS AVE FORT WHITE, FL 32038			
Site Address	874 SW ROBERTS AVE			
Use Desc.	IMPROVED A	(005000)		
Tax District	3 (County)	Neighborhood	30616	
Land Area	15.650 ACRES	Market Area	02	
Description		scription is not to be used as this parcel in any legal trans		

COMM NW COR OF SEC, RUN S 1594.09 FT FOR POB, RUN E 1284.58 FT TO W R/W OF A CO RD, S ALONG R/W 528.11 FT, W 367.34 FT, S 479 FT, W 541.09 FT, N 480.42 FT, W 362.26 FT, N 531.36 FT TO POB. (BEING PRCL 4 & PART OF PRCL 5) EX R/W &EX 6.03 AC DESC ORB 1177-2486 ORB 435-041, 553-66, 1057-888 WD 1085-54

### 2009 Tax Roll Year

Tax Collector Ta

Tax Estimator

Property Card

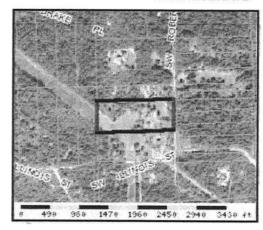
Parcel List Generator

Interactive GIS Map

Print

<< Prev

Search Result: 2 of 2



### Property & Assessment Values

2009 Certified Values		
Mkt Land Value	cnt: (1)	\$14,550.00
Ag Land Value	cnt: (2)	\$4,392.00
Building Value	cnt: (1)	\$86,100.00
XFOB Value	cnt: (6)	\$5,800.00
Total Appraised Value		\$110,842.00
Just Value		\$202,206.00
Class Value		\$110,842.00
Assessed Value		\$110,842.00
Exempt Value	(code: HX)	\$50,000.00
Total Taxable Value	Other	Cnty: \$60,842 r: \$60,842   Schi: \$85,842

2010 Working Values

NOTE:

2010 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
8/31/2005	1057/888	WD	I	á		\$321,000.00

### **Building Characteristics**

Bldg Item	Bldg Desc	Year Bit	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	SINGLE FAM (000100)	1984	AVERAGE (05)	2273	2877	\$84,305.00
	Mote: All O.F. calculatio					\$04,303.00

### Extra Features & Out Buildings

Code	Desc	Year Bit	Value	Units	Dims	Condition (% Good)
0190	FPLC PF	j o i	\$1,200.00	0000001.000	0×0×0	(000.00)
0040	EARN, POLE	0	\$1,000.00	0000001.000	OxOxO I	1000.001

0040	BARN, POLE	1993	\$1,400.00	0000001.000	0×0×0	(00.00)
0070	CARPORT UF	2008	\$600.00	0000001.000	0 x 0 x 0	(000.00)
0070	CARPORT UF	2008	\$600.00	0000001.000	0 x 0 x 0	(000.00)

### Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000100	SFR (MKT)	1 AC	1.00/1.00/1.00/1.00	\$9,495.32	\$9,495.00
006200	PASTURE 3 (AG)	14.65 AC	1.00/1.00/1.00/1.00	\$200.00	\$2,930.00
009910	MKT.VAL.AG (MKT)	14.65 AC	1.00/1.00/1.00/1.00	\$0.00	\$60,875.00
009945	WELL/SEPT (MKT)	2 UT - (0000000.000AC)	1.00/1.00/1.00/1.00	\$2,000.00	\$4,000.00

Columbia County Property Appraiser

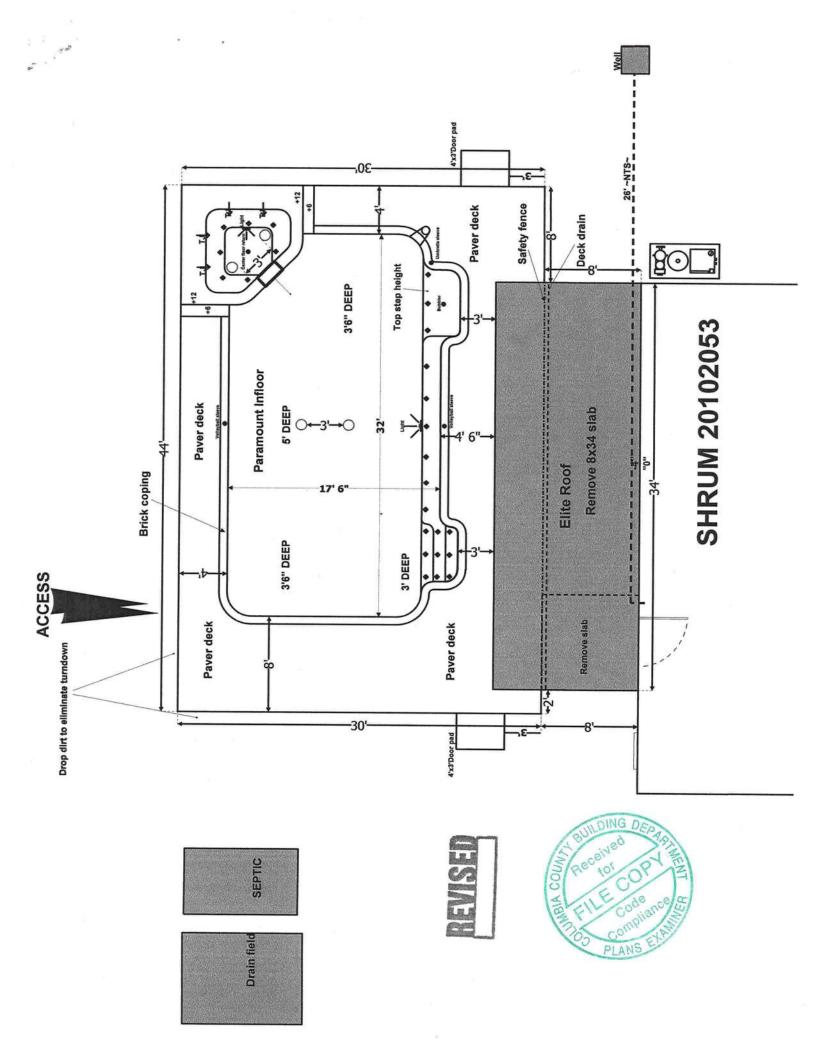
DB Last Updated: 8/5/2010

<< Prev

2 of 2

### 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 currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.



Pool Specifications	. *			Job	Num	be	er: 20102053						1
Layout / Dig / Steel Dig & Haul Bobcat Shuttle Benchmark: Finish Floor Beam: 8 Inch Bond Engineering Turn Down: 6 by 2 LF Turn Down: 12 by 20 LF Turn Down: 12 by 20 LF  Decking and Tile Paver Color: Anameteto Paver Color: Anameteto Paver Pattern Trade Of Raisee Beam 16 6° Step Riser UltraPure 700 Spa Area: 40 SF NA Screen Style: Screen Color: See Notes See Notes See Notes Screen Roof: A Required Screen Roof: Screen Roof: 10 16 7 18 Falls: N/A Na Beam: 30 LF Doors: 2 Lanal Insert: 0 LF Notes Notes Notes  Notes  Parall Color: File Falls: N/A Water Features and Options File Falls: N/A Water Features Pump: N/A  Notes  Pil-4/2010 9-46:36 AM - Volleyball and umbrella sleeves see drawing. Pil-4/2010 9-40:57 AM - Bronze screen single story with dome and elite roof Pil-4/2010 9-40:57 AM - Blower and heater already on site B/31/2010 11:48:21 AM - Blower and heater already on site B/31/2010 11:48:21 AM - Blower and heater already on site B/31/2010 11:48:21 AM - Blower and heater already on site B/31/2010 11:48:21 AM - Blower and heater already on site B/31/2010 11:48:21 AM - Blower and heater already on site B/31/2010 11:48:21 AM - Blower and heater already on site B/31/2010 11:48:21 AM - Blower and heater already on site B/31/2010 11:48:21 AM - Blower and heater already on site B/31/2010 11:48:21 AM - Blower and heater already on site B/31/2010 11:48:21 AM - Blower and heater already on site B/31/2010 11:49:21 BM - PumpFHPM1.5		Elevati	ion					P	ool S	pecificatio	ns		1
Dig & Haul   Bobcat Shuttle   Benchmark: Finish Floor   96 LF   Pool Perlimeter: 97 LF   Parlimeter: 97 LF   Parlimeter	Set Pool Beam At: -7	7.5 IN	Set Tile	At: -7 IN		T	Pool Area: 530	) SF			Poo	l Width: 17.6 LF	1
Dig B Haul		Layout / Dig	/ Steel										4
Engineering Turn Down: 16 by 2 LF Turn Down: 20 by 20 LF Turn Down: 17 by 20 LF Turn Down: 18 by 20 LF Turn Down: 18 by 20 LF Turn Down: 18 by 20 LF  Decking and Tile Paver Color: Paver Pattern: T- Damaretto Decking and Tile Paver Color: Paver Pattern: T- Damaretto Decking and Tile Paver Color: Paver Pattern: T- Damaretto Decking and Tile Paver Color: Paver Pattern: T- Damaretto Decking and Tile Paver Color: Paver Pattern: T- Damaretto Decking and Tile Paver Color: Paver Pattern: T- Damaretto Decking and Tile Paver Color: Paver Pattern: T- Damaretto Decking and Tile Paver Color: Paver Pattern: T- Damaretto Decking and Tile Paver Color: Paver Pattern: T- Damaretto Decking and Tile Paver Color: Paver Pattern: T- Damaretto Decking Color: Diffice: Diffice: Diffice Color Mile Davy Aqua Pure 700 Deck Light: Doct Light: Dam Waltink RS-4 Paramount PV3 Head Color: 774/N Davatink RS-4 Davatink RS-4 Deck Drains: 34 LF 20 6" Raised Beam 16 6" Step Riser Color: 774/N Davatink RS-4 Deck Drains: 34 LF 20 6" Raised Beam 16 6" Step Riser Color: 774/N Davatink RS-4 Deck Drains: 34 LF 20 6" Raised Beam 16 6" Step Riser Color: 774/N Davatink RS-4 Deck Drains: 34 LF 20 6" Raised Beam 16 6" Step Riser Color: 774/N Davatink RS-4 Deck Drains: 34 LF 20 6" Raised Beam 16 6" Step Riser Color: 774/N Davatink RS-4 Davatink RS	Dig & Haul	Bobcat Shutt	le Bench	mark: Fini	sh Floo	or		r:			1000000		
Turn Down: 6 by 2 LF  Turn Down: 12 by 20 LF  Turn Down: 12 by 20 LF  Turn Down: 12 by 20 LF  Decking and Tile  Paver Color:  Paver Pattern: T- pattern 6x6 6x9  Paver Pattern: T- pattern 6x6 6x9  105.00 LF  Tile Color #1: AZ608 25  AZ60	Beam: 8 inch Bond						Main Drain: 1	PR	Skimi	mer: 1 EA	Ext	ra Step: 0 LF	1
Turn Down: 12 by 20 LF  Decking and Tile  Paver Color:  Paver Pattern: 7-  pattern & 66 & 69 & 106 & 00 LF  UltraPure 700  System:  Accessories:  Coping Type:  Sep Tile Color:  Accessories:  Coping Color:  Coping Col		Enginee	ring		trees and the		Extra Swimout	:: 1	Filter	: CS 150			1
Decking and Tile  Paver Color: Paver Color: Paver Pattern: 7- Paver Pattern: 8- Paver Pattern 5- Paver Paver 7- Paver Paver 7- Paver Paver 7- P	Turn Down: 6 by 2 L	F									Jan	dy Flo Pro 1.5hp	
Paver Color:	Turn Down: 12 by 20	) LF					Inline Chlorina	itor:	Pool	Light:	Vac	Line: Pressure	1
Amaretto		Decking ar	d Tile				Jandy Aqua Pu	ire 700	LED C	ColorLight #	1		
Coping Type:   Accessories:   Accessories:   Accessories:   Accessories:   Accessories:   Accessories:   Spa Aperimeter: 24 LF	and the second s										4.454.500	[838] [83] [83] [83] [83] [83] [83] [83]	
Deco Drains: 34 LF   20 6' Raised Beam   16 6' Step Riser   Color: TAM   Spa Specifications			olor:		or #1:			2 Hood			- 171	leads	1
Chestnut   Screen Add Interior Finish   Accessories:   Spa Area: 40 SF   Spa Perimeter: 24 LF	Deco Drains: 34 LF	20 6" Raise	d Beam	16 6" Ste	p Rise	r	Color: TAN	nead					
Accessories: Spa Area: 40 SF Spa Perimeter: 24 LF N/A Accessories: Spa Area: 40 SF Spa Perimeter: 24 LF N/A Accessories: Spa Area: 40 SF Spa Perimeter: 24 LF N/A Spa Perimeter: 24 LF Spa Perimeter: 25 LF Spa Perimeter: 24 LF Spa Perimeter: 25 LF Spa Perimeter: 25 LF Spa Perimeter: 24 LF Spa Perimeter: 25 LF Spa Perimeter:								S	pa Sp	ecificatio	ns		
Screen Style: See Notes  Screen Color: See Notes  Gutter Size: See Notes  Gutter Size: As Required Screen Roof: 1186 SF  Soreen Height: 110 FF  Max Beam: 30 LF  Doors: 2  Lanai Insert: 0 LF  Notes				1				Spa Ar	ea: 40	SF	Spa Pe	erimeter: 24 LF	1
See Notes   See Notes   408 SF		AN A					-		•		_		-
As Required  Screen Walls: 1186 SF  Screen Roof: 1186 SF  Coreen Roof: 1186 SF  Lanai Insert: 0 LF  Water Features and Options  Fla Falls: N/A Water Features Pump: N/A  Water Features Pump: N/A  Water Features Pump: N/A  Notes  9/14/2010 9:45:38 AM - Access up driveway left of barn and loop around back of barn 9/14/2010 9:45:06 AM - volleyball and umbrella sleeves see drawing. 9/14/2010 9:40:57 AM - Bronze screen single story with dome and elite roof 9/14/2010 9:40:57 AM - Bronze screen single story with dome and elite roof 9/14/2010 9:40:30 AM - well water fill. Treat during fill 8/31/2010 12:17:13 PM - Pump#FHPM1.5Branch 2.5"Trunk 2"Return 2" 8/31/2010 11:48:21 AM - Blower and heater already on site 8/31/2010 11:47:59 AM - All underwater fittings to be TanDrain coversInfloor headsSkimmersect.  Holland Pools  **CALL MIKE HART ANY AND ALL QUESTIONS.**  1090 Kensington Park Drive Altamonte Springs, FL 32714 Phone (407) 830-5327 Fax (407) 830-6404  Name: Robert Shrum  PBPG: Lot #:  Address: 874 SW Roberts ave  City: Fort White  Zip: 32038  Municipality: Subdivision:  Termite Bond Company:	See Notes		1000	the second second second second	oof:		4 EA			nt 1 EA		Vall Thickness:	
114 LF  1186 SF  10 FT  Fla Falls: N/A  Water Features Pump: N/A  Notes  9/14/2010 9:45:38 AM - Access up driveway left of barn and loop around back of barn  9/14/2010 9:45:36 AM - volleyball and umbrella sleeves see drawing.  9/14/2010 9:40:57 AM - Bronze screen single story with dome and elite roof  9/14/2010 9:40:30 AM - well water fill. Treat during fill  8/31/2010 12:17:13 PM - Pump#FHPM1.5Branch 2.5"Trunk 2"Return 2"  8/31/2010 11:48:21 AM - Blower and heater already on site  8/31/2010 11:47:59 AM - All underwater fittings to be TanDrain coversInfloor headsSkimmersect.  Holland Pools  **CALL MIKE HART ANY AND ALL QU 407. 385. 205  1090 Kensington Park Drive Altamonte Springs, FL 32714  Phone (407) 830-5327 Fax (407) 830-6404  Name: Robert Shrum  PBPG: Lot #:  Address: 874 SW Roberts ave  City: Fort White  Zip: 32038  Municipality:  Subdivision:  Phones:  Office:  Termite Bond Company:	The state of the s												
Max Beam: 30 LF Doors: 2 Lanai Insert: 0 LF Water Features Pump: N/A  Notes  9/14/2010 9:45:38 AM - Access up driveway left of barn and loop around back of barn  9/14/2010 9:45:06 AM - volleyball and umbrella sleeves see drawing.  9/14/2010 9:40:57 AM - Bronze screen single story with dome and elite roof  9/14/2010 9:40:30 AM - well water fill. Treat during fill  8/31/2010 12:17:13 PM - Pump#FHPM1.5Branch 2.5"Trunk 2"Return 2"  8/31/2010 12:16:50 PM - Screen color and shape TBD  8/31/2010 11:47:59 AM - All underwater fittings to be TanDrain coversInfloor headsSkimmersect.  Holdand Pools  # CAN MIKE HART ANY AND ALL QUESTIONS.  1090 Kensington Park Drive Altamonte Springs, FL 32714 Phone (407) 830-5327 Fax (407) 830-6404  Name: Robert Shrum  PBPG: Lot #:  Address: 874 SW Roberts ave  City: Fort White Zip: 32038 Municipality: Subdivision:  Phones: Office: Termite Bond Company:	Indeed   Catalogue												
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9/14/2010 9:45:38 AM - Access up driveway left of barn and loop around back of barn 9/14/2010 9:45:06 AM - volleyball and umbrella sleeves see drawing. 9/14/2010 9:40:57 AM - Bronze screen single story with dome and elite roof 9/14/2010 9:40:30 AM - well water fill. Treat during fill 8/31/2010 12:17:13 PM - Pump#FHPM1.5Branch 2.5"Trunk 2"Return 2" 8/31/2010 12:16:50 PM - Screen color and shape TBD 8/31/2010 11:48:21 AM - Blower and heater already on site 8/31/2010 11:47:59 AM - All underwater fittings to be TanDrain coversInfloor headsSkimmersect.  Holland Pools  **CALL MIKE HART ANY AND ALL QUESTIONS.* 2  1090 Kensington Park Drive Altamonte Springs, FL 32714 Phone (407) 830-5327 Fax (407) 830-6404  Name: Robert Shrum  Address: 874 SW Roberts ave  City: Fort White  Zip: 32038  Municipality:  Subdivision:  Termite Bond Company:								s Pump:	N/A				
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To the Date Company.	City: Fort White	Zip	: 32038			1				Subdivis	ion:		
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146	Cell:	Fax	k:			1							
Customer's Signature: Date:	Customer's Signature: Date:									=			
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ANSI/APSP-7 2006 Specifies three methods for determining simplified TDH calculation is one of the methods specified. the maximum system flow The following

## Simplified Total Dynamic Head (TDH) Calculation Worksheet

## Determine Maximum System Flow Rate

Minimum Flow Rate Required: 35 gpm Per Skimmer (Required: 1 skimmer per 800 sf of surf. area)

1. Calculate Pool Volume: \_ 570 x (Surf. Area)  $\frac{9}{\text{(Avg. Depth)}} \times 7.48 \text{ (gal./cubic foot)} = \frac{17059}{\text{(Vol. in gal.)}}$ hours:  $6 \times 60 \text{ (min. / hr.)} = 360$ 

Determine preferred Turnover Time in hours: \_\_\_\_ (2) × 60 (min. / hr.) = (Turnover in Min.)

3. Determine Max Flow Rate: 17054 20 apm gpm per jet = (Turnover Mins.) (Pool Flow Rate) flow rate. (Feature 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) (Jet Flow) (Total Jet Flow Rate)

## Determine Pipe Sizes:

Return Piping to be Branch Piping to be Suction Piping to be Trunk, Skimmer & ىلا e inch to keep velocity @ 6 fps max. at inch to keep velocity @ 8 fps max. at inch to keep velocity @ 10 fps max. at F 3 Z gpm Maximum System Flow Rate. gpm gpm Maximum System Flow Rate. Maximum System Flow Rate.

## Determine Simplified TDH:

- 1. Distance from pool to pump in feet: 8
- 2. Friction loss (in suction pipe) in inch pipe per 1 ft. @ B gpm = ò (from pipe flow/friction loss chart)

3. Friction loss (in return pipe) in P inch pipe per 1 ft. @ B gpm = 10 (from pipe flow/friction loss chart)

(Length of Return Pipe) (Ft of head/1 ft of Pipe) (TDH Suct. Pipe) (Ft of head/1 ft of Pipe) (TDH Return Pipe)

TDH in Piping: 30.01

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

Total all other loss: 35.92

Total Dynamic Head (TDH):

Selected Pump and Main Drain Cover. FHPMIS

Pump selection Jamey Po-Pro 1.5 Make and Model)

using pump curve for TDH & System Flow Rate

Notes: Minimum system flow based on min. flow per skimmer of 35 gpm

tayugas

(System Flow Rate must not exceed approved cover flow rates)

Main Drain Cover

Determine the Number and Type of Required In-Floor Suction Outlets:

0 Check all that apply.

0 0

0

suction outlets @

suction outlets @ 3 gpm max. flow (see note

channel drain @ gpm w/ gpm max. flow (see note ports (see note 4).

TDH Calculation Options
For each pump

10

tal

Head In Feet Conversion Chart

-Check one.

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

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

								1000					P	SI	(	Pr	es	su	re	G	au	ige	)	S 1			90 0	2 5									
S,	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	-14	13	12	=	10	9	œ	7	6	S.	-	G	2	-	0		
80.9	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	43.9	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	
8.1	80.8	78.5	76.2	73.9	71.6	69.3	66.9	64.6	62.3	60.0	57.7	55.4	53.1	50.8	48.5	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	
85.4	83.1	80.7	78.4	76.1	73.8	71.5	69.2	66.9	64.6	62.3	60.0	57.7	55.3	53.0	50.7	48.4	46.1	43.8	41.5	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	4	
87.6	85.3	83.0	80.7	78.4	76.1	73.8	71.5	69.2	66.8	64.5	62.2	59.9	57.6	55.3	53.0	50.7	48.4	46.1	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	6	inci cui y
89.9	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	32.1	29.8	27.5	25.2	22.9	20.6	18.3	16.0	13.7	11.4	9.0	8	
92.2	89.8	87.5	85.2	82.9	80.6	78.3	76.0	73.7	71.4	69.1	66.7	64.4	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	(Anchall
94.4	92.1	89.8	87.5	85.2	82.9	80.5	78.2	75.9	73.6	71.3	69.0	66.7	64.4	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	(afana
96.7	94.4	92.0	89.7	87.4	85.1	82.8	80.5	78.2	75.9	73.6	71.3	69.0	66.6	64.3	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	9
98.9	96.6	94.3	92.0	89.7	87.4	85.1	82.8	80.5	78.1	75.8	73.5	71.2	68.9	66.6	64.3	62.0	59.7	57.4	55.0	52.7	50.4	48.1	45.8	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	

Flow and Friction Loss Per Foot Schedule 40 PVC Pipe

			Velocity - Feet Per Second	t Per Seco	nd.	
e Size		6 fps	8 fps	sq	10	fps
•	16 gpn	n 0.14'	21 gpm	0.23	gpm	0.35
.5	37 gpn		50 gpm	0.14	62 gpm	0.21
2.	62 gpn			0.10		0
2.5"	88 gpm	n 0.05'		0.09		0
3.	136 gp			0.07		0.10
*	234 gpi			0.05	392 gpm	0.07
6,	534 gpm		712 opm	1000		1

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

672 N. Semoran Blvd., Ste Orlando, FL 32807 GORDON Office: (407) 275-1099 Fax: (407) 275-1015 FL PE # 1933. = J.E 20 Scale:

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

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

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

Monday and breekenes in Sorries

SWIMMING POOL RESIDENTIAL DRAWING

None MASTER SPECIFICATION 4

GALLONS \* 17054 TURNOVER RATE HRS. = 6 = GPM NEEDED

WATER FEATURE /SPA REQR'D = GPM NEEDED

TOTAL GPM NEEDED

BEFORE PROCEEDING - SEE PIPE SIZING TABLE (PAGE2) TO USE THE CORRECT PIPE AND FITTING SIZE IN RELATIONSHIP TO THE VELOCITY AND GPM NEEDED

		10 1 11 11110	OIZE IIVIKE	DATIONOLI	IP TO THE VELOCITY	MIND OF I	INCLUED	
	SUCTIO	N SIDE VEL	OCITY -	8	RETURN SIDE VELO	OCITY -	10	
		QTY			QTY		·	
STATIC LIFT		1.5		1.5	*			
			<del>-1</del> 0 2	A 14 (A) (A) (A)			200	
	1"	0	_	0	0	_		::::::NOTE::::::
00	1 1/2"	0	_	0	0	_		LEX PIPE IS 40%
000	2"	40	_	4	38	_		MORE RESTRICTIVE
400	2 1/2"	3	=79 = 0 = <u>1</u> 8 = 0	0.27	0			THAN RIGID PIPE
PIPE	3"	0	_	0	0	_	0(	SEE PAGE 2)
	4"	0	_	0	0	_	0	
	6"	0	_	0	0	_	0	
	8"	0		0	. 0		0	
A CONTRACTOR			TE LOUIS	<b>多</b>				
	1"	0	_X 2.5 =	0	0	_X 2.5 =		
3	1 1/2"	0	_X 4.0 =	0	0	_X 4.0 =	0	
	2"	4	_X 5.7 =	2.28	8	_X 5.7 =		
	2 1/2"	0	_X 6.9 =	0	0	X 6.9 =	0	
	3"	0	_X 7.9 =	0	0	_X 7.9 =	0	
30 DEG ELL	4"	0	X 11.4 =	0	0	X 11.4 =	0	
	6"	0	X 16.7	0	0	X 16.7	0	
	8"	0	X 21.0	0	0	X 21.0	0	
	1"	0	X 6.0 =	0	0	X 6.0 =	. 0	
	1 1/2"	0	X 8.4 =	0	0	X 8.4 =	0	
	2"	0	X 12.0 =	0	3	X 12.0 =		
	2 1/2"	1	X 14.7 =	1.323	0	X 14.7 =	= 0	
	3"	0	X 16.4 =	0	0	X 16.4 =	= 0	
TEE	4"	0	X 22.0 =	0	0	X 22.0 =	= 0	
	6"	0	X 32.7 =	0	0	X 32.7 =	= 0	
	8"	0	X 49.0	0	0	X 49.0	0	
							SALE FOR	
^	1"	0	X 1.4 =	0	. 0	X 1.4 =	0	
	1 1/2"	0	X 2.1 =	0	0	X 2.1 =	0	
	2"	0	X 2.6 =	0	0	X 2.6 =	0	
	2 1/2"	0	X 3.1 =	0	0	X 3.1 =	0	
	3"	0	X 4.0 =	0	- 0	X 4.0 =	0	
15 DEG ELL	4"	0	X 5.1 =	0	0	X 5.1 =	0	
	6"	0	X 8.0 =	0	0	x 8.0	0	
	8"	0	X 10.6	0	0	X 10.6	0	
				107 200			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
<b>IDH FOR PIPE</b>	AND FIT	TING	<b>→</b>	10.273	•	<b>─</b>	24.896	BU
				18 14 000 000				12/
<b>IDH FOR PIPE</b>	FITTING	PLUS LIFT	<b></b>	11.773	PIPE AND FITTING	rdh —→	24.896	S Res
				AMARINE CO.				00 bre
SKIMMER 2"		0	_X 3.0 =	0	FILTER		3	191
MAINI DO AININ		2	X 1.5 =	3	HEATER LOST FROM DA	TA SHEET	0	18/21
WAIN DRAIN*								13.5
<b>第</b> 3000			The state of the s					
3-WAY VALVE	Carlo	EACH	0	0	3-WAY VALVE 1 1/2		0	100
3-WAY VALVE 3-WAY VALVE	2"	EACH	2	2.4	3-WAY VALVE 2"	3	5.76	103
3-WAY VALVE	2"	EACH EACH	0	2.4 0	3-WAY VALVE 2" 3-WAY VALVE 2.5"	3	5.76 0	03
3-WAY VALVE 3-WAY VALVE	2" 2.5"	EACH	0 0	2.4	3-WAY VALVE 2" 3-WAY VALVE 2.5" 3-WAY VALVE 3"	3 0 0	5.76 0 0	(3)
3-WAY VALVE 3-WAY VALVE 3-WAY VALVE	2" 2.5" 3"	EACH EACH	0	2.4 0 0 0	3-WAY VALVE 2" 3-WAY VALVE 2.5"	3	5.76 0	(S)
3-WAY VALVE 3-WAY VALVE 3-WAY VALVE 3-WAY VALVE	2" 2.5" 3" 4"	EACH EACH	0 0	2.4 0 0	3-WAY VALVE 2" 3-WAY VALVE 2.5" 3-WAY VALVE 3"	3 0 0	5.76 0 0	<b>(3)</b>
3-WAY VALVE 3-WAY VALVE 3-WAY VALVE 3-WAY VALVE 3-WAY VALVE	2" 2.5" 3" 4" 6"	EACH EACH EACH	0 0 0	2.4 0 0 0	3-WAY VALVE 2" 3-WAY VALVE 2.5" 3-WAY VALVE 3" 3-WAY VALVE 4"	3 0 0	5.76 0 0 0	<b>(2)</b>
3-WAY VALVE 3-WAY VALVE 3-WAY VALVE 3-WAY VALVE 3-WAY VALVE	2" 2.5" 3" 4" 6"	EACH EACH EACH EACH	2 0 0 0	2.4 0 0 0 0	3-WAY VALVE 2" 3-WAY VALVE 2.5" 3-WAY VALVE 3" 3-WAY VALVE 4" 3-WAY VALVE 6"	3 0 0 0 0	5.76 0 0 0 0	<b>(</b> 2)
3-WAY VALVE	2" 2.5" 3" 4" 6" 8"	EACH EACH EACH EACH EACH	2 0 0 0	2.4 0 0 0 0	3-WAY VALVE 2" 3-WAY VALVE 2.5" 3-WAY VALVE 3" 3-WAY VALVE 4" 3-WAY VALVE 6" 3-WAY VALVE 8"  SALT GENERATOR	3 0 0 0 0	5.76 0 0 0 0	<b>V</b> 03
3-WAY VALVE 3-WAY VALVE 3-WAY VALVE 3-WAY VALVE 3-WAY VALVE 3-WAY VALVE	2" 2.5" 3" 4" 6" 8"	EACH EACH EACH EACH EACH	2 0 0 0 0	2.4 0 0 0 0 0	3-WAY VALVE 2" 3-WAY VALVE 3.5" 3-WAY VALVE 3" 3-WAY VALVE 4" 3-WAY VALVE 6" 3-WAY VALVE 8"  SALT GENERATOR (YES OR NO)	3 0 0 0 0	5.76 0 0 0 0 0 0	<b>V</b> 03
3-WAY VALVE	2" 2.5" 3" 4" 6" 8"	EACH EACH EACH EACH EACH	2 0 0 0 0	2.4 0 0 0 0 0	3-WAY VALVE 2" 3-WAY VALVE 3.5" 3-WAY VALVE 3.5" 3-WAY VALVE 4.5" 3-WAY VALVE 6.5 3-WAY VALVE 8.5 SALT GENERATOR (YES OR NO) EXIT LOSS	3 0 0 0 0	5.76 0 0 0 0 0	<b>V</b> 03
3-WAY VALVE	2" 2.5" 3" 4" 6" 8"	EACH EACH EACH EACH EACH NO ES OR NO	2 0 0 0 0 0 0	2.4 0 0 0 0 0 0	3-WAY VALVE 2" 3-WAY VALVE 3.5" 3-WAY VALVE 3.5" 3-WAY VALVE 4.5" 3-WAY VALVE 6.5 3-WAY VALVE 8.5 SALT GENERATOR (YES OR NO) EXIT LOSS (SEE TABLE PAGE 2.5)	3 0 0 0 0	5.76 0 0 0 0 0 0 2.0000	<b>V</b> 03
3-WAY VALVE	2" 2.5" 3" 4" 6" 8"	EACH EACH EACH EACH EACH	2 0 0 0 0 0 0	2.4 0 0 0 0 0	3-WAY VALVE 2" 3-WAY VALVE 3.5" 3-WAY VALVE 3.5" 3-WAY VALVE 4.5" 3-WAY VALVE 6.5 3-WAY VALVE 8.5 SALT GENERATOR (YES OR NO) EXIT LOSS	3 0 0 0 0	5.76 0 0 0 0 0 0	
3-WAY VALVE	2" 2.5" 3" 4" 6" 8" ANER* AGE 3) YI	EACH EACH EACH EACH EACH NO ES OR NO	2 0 0 0 0 0 0 X 9.0 =	2.4 0 0 0 0 0 0	3-WAY VALVE 2" 3-WAY VALVE 3.5" 3-WAY VALVE 3.5" 3-WAY VALVE 4.5" 3-WAY VALVE 6.5 3-WAY VALVE 8.5 SALT GENERATOR (YES OR NO) EXIT LOSS (SEE TABLE PAGE 2.5)	3 0 0 0 0 0	5.76 0 0 0 0 0 0 2.0000	



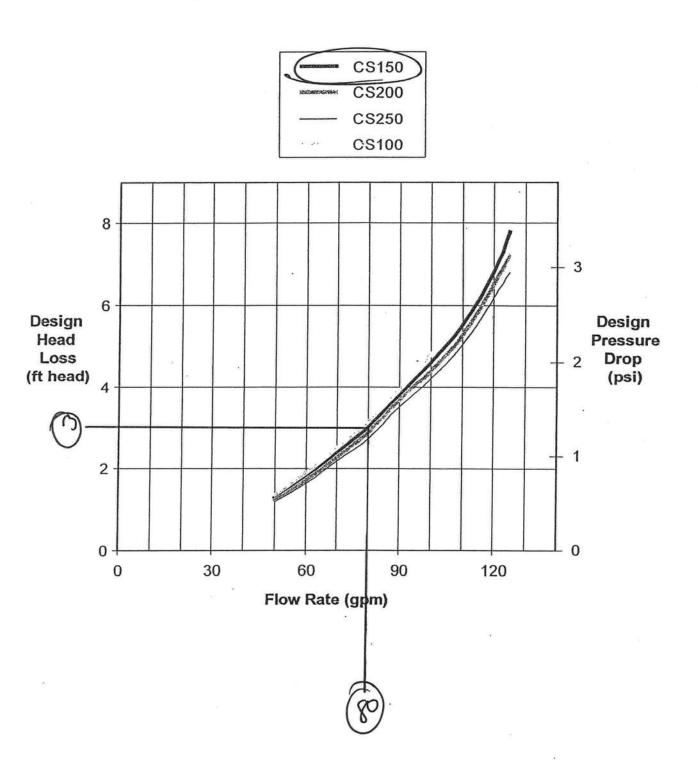
48.00

32

80

### ection 10. Head Loss Curves

### 0.1 Jandy® Cartridge Filter, CS Series





### Qualification Test Plan

·Title:

Date:

Chlorine Generator Cell

: Qualification Test Plan

Revision #: B

2/27/07

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QTP #: 0113

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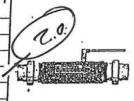
### 3-Port AquaPure1400 (.040) - 90°Plumb

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

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

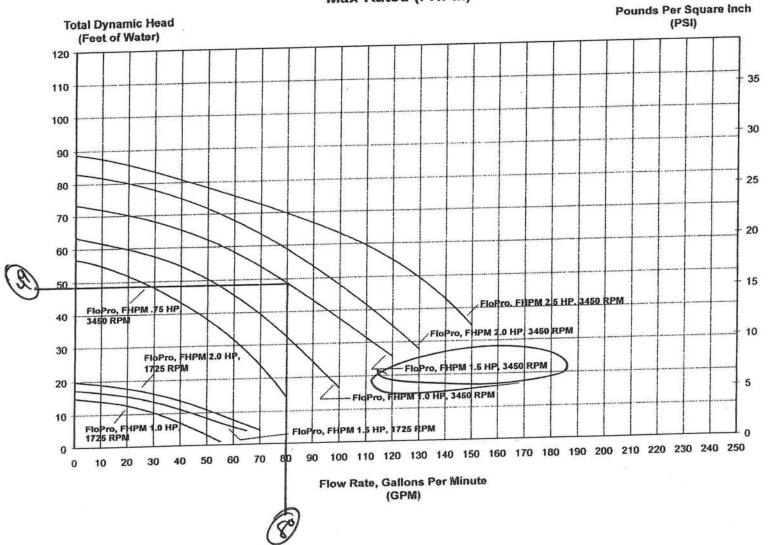


Originator	Approval	. 19	
Richard Wu			

7.3 Performance Curves

20102053

### Jandy FloPro Series Pumps Max-Rated (FHPM)



### 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.



▲ - 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

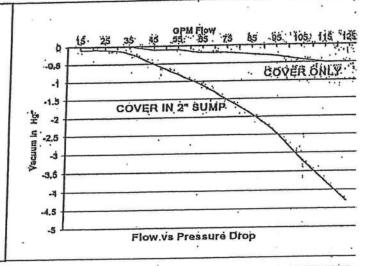
USE ONLY HAYWARD GENUINE REPLACEMENT PARTS

### RECOMMENDED SYSTEM SPECIFICATIONS:

### ACCEPTABLE PIPE SIZE FOR MAXIMUM RECOMMENDED

SYSTEM FLOW RATE PER APSP-7

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



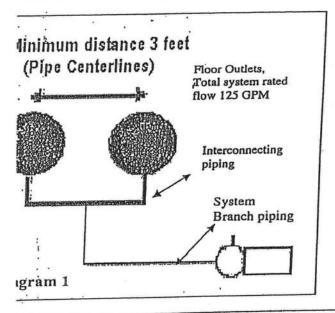
'GX1048E Suction Outlet Covers are rated for Floor Only at 125 GPM 'G1048EW Suction Outlet Covers are rated for Wall or Floor at 72 GPM

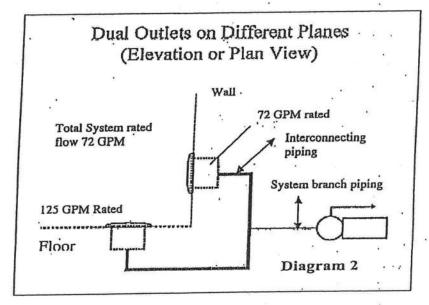
FIG 1 Note: 1" Hg = 1.13 Ft of Head

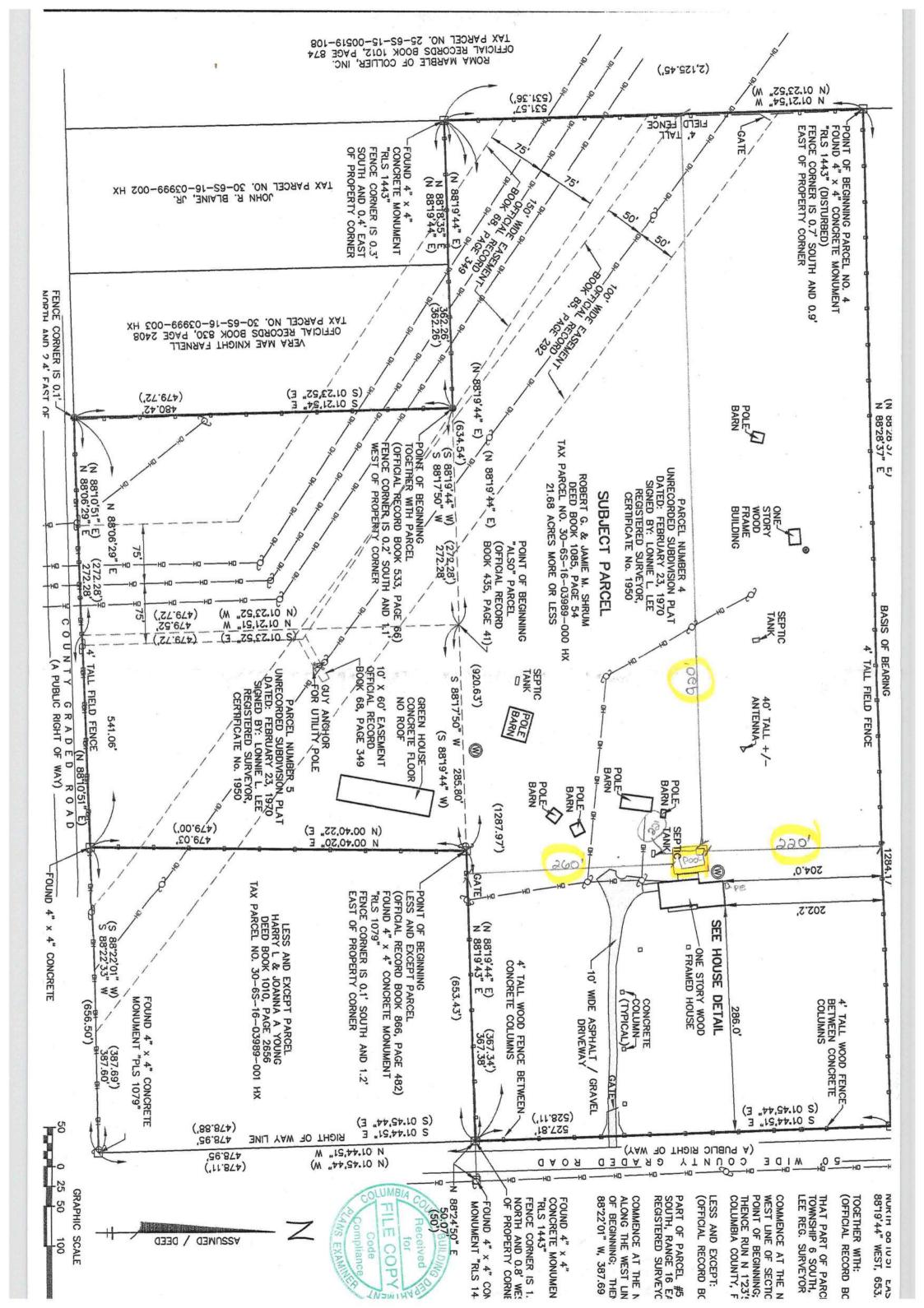
the event of one suction outlet being blocked, the remaining suction outlets serving that system shall have a pw rating capable of the full flow of the pump(s) for the specific suction system.

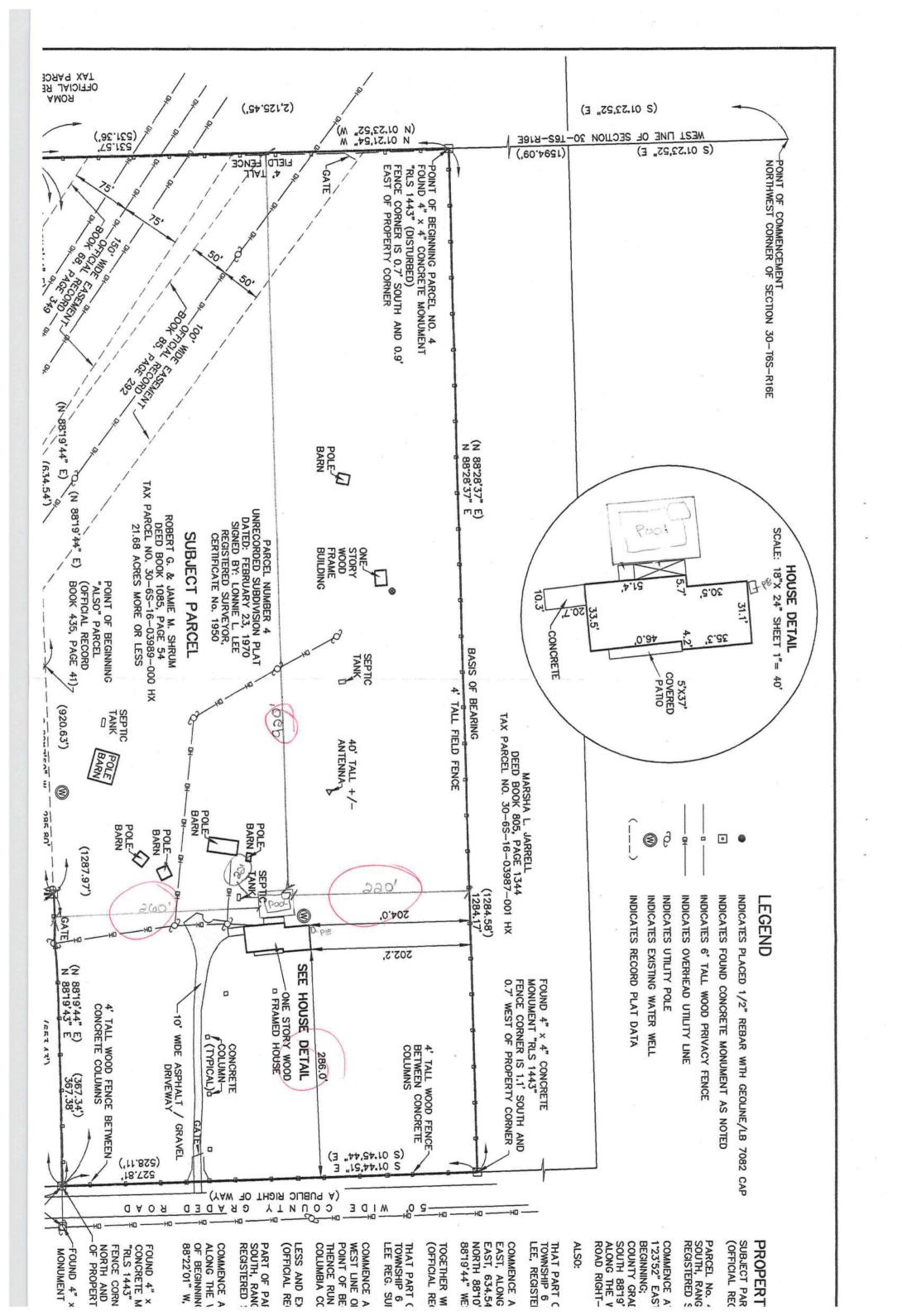
tample: In the System shown in Diagram 1, two (2) "Floor Only" suction outlet covers are selected and mounted. These covers are individually rated for 125 GPM. For a desired flow rate through the pump of 100 GPM, a minimum pipe size from the Chart 1 is selected at 3". At the desired flow of 100 GPM one 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.

ample: 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 mounted suction outlet cover. Note: Flow may be limited by entrapping force in dual suction systems.









### BOUNDARY SURVE

IN SECTION 30, TOWNSHIP 6 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA

FOR: ROBERT G. & JAMIE M. SHRUM

PROPERTY DESCRIPTION

E MONUMENT AS NOTED

BAR WITH GEOLINE/LB 7082 CAP

RIVACY FENCE

Y LINE

WELL

ATA

x 4" CONCRETE "RLS 1443" RNER IS 1.1' SOUTH AND OF PROPERTY CORNER 4' TALL WOOD FENCE-C BETWEEN CONCRETE O, COLUMNS SS 01.44 \* 0 ш m m 子の早 PI O 286.0 E DETAIL o z ORY WOOD RIGHT Y ED HOUSE 우 이 R A D CONCRETE COLUMN-& (TYPICAL)& m D WIDE ASPHALT / GRAVEL DRIVEWAY æ 0 P 8 D ALL WOOD FENCE BETWEEN-CRETE COLUMNS (367.34<sup>2</sup>) 367.38<sup>2</sup> 653.43') SS 01°44°51" 01°45°44" PARCEL BOOK 866, PAGE 482) DNCRETE MONUMENT zz 22 mm 0.1' SOUTH AND 1.2' 44, Y CORNER RIGHT 51" ₹3 EXCEPT PARCEL JOANNA A YOUNG 1010, PAGE 2656

1-6S-16-03989-001 HX

FOUND 4" x 4" CONCRETE

(387.69') 387.60

MONUMENT "PLS 1079"

(656.50')

4' SOUTH AND

TY CORNER

RETE

SUBJECT PARCEL (OFFICIAL RECORD BOOK 435, PAGE 41)

PARCEL No. 4. OF AN UNRECORDED SUBDIVISION SURVEY PLAT OF THE NW 1/4 OF SECTION 30, TOWNSHIP 6 SOUTH, RANGE 16 EAST; SAID SURVEY PLAT BEING DATED FEBRUARY 23, 1970, AND SIGNED BY LONNIE L. LEE REGISTERED SURVEYOR, ON CERTIFICATE No. 1950; SAID LANDS BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NW CORNER OF SAID SECTION 30, TOWNSHIP 6 SOUTH, RANGE 16 EAST, AND RUN SOUTH 1°23'52" EAST. ALONG THE WEST LINE OF SAID SECTION 30 A DISTANCE OF 1,594.09 FEET, TO THE POINT OF BEGINNING; THENCE NORTH 88"28'37" EAST, 1,284.58 FEET TO THE WEST RIGHT-OF-WAY LINE OF A 50-FOOT COUNTY GRADED ROAD; THENCE SOUTH 1°45'44" EAST ALONG SAID RIGHT-OF-WAY LINE 528.11 FEET; THENCE SOUTH 8819'44" WEST, 1,287.97 FEET TO THE WEST LINE OF SAID SECTION 30; THENCE NORTH 1'23'52" WEST, ALONG THE WEST LINE OF SAID SECTION 30, 531.36 FEET TO THE POINT OF BEGINNING, LESS AND EXCEPT COUNTY ROAD RIGHT-OF-WAY.

ALSO:

THAT PART OF PARCEL No. 5 OF AN UNRECORDED SUBDIVISION SURVEY PLAT OF THE NW 1/4 OF SECTION 30, TOWNSHIP 6 SOUTH, RANGE 16 EAST; SAID SURVEY PLAT DATED FEBRUARY 23, 1970, AND SIGNED BY LONNIE L. LEE, REGISTERED SURVEYOR, CERTIFICATE No. 1950, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NW CORNER OF SECTION 30, TOWNSHIP 6 SOUTH, RANGE 16 EAST, AND RUN SOUTH 1°23'52" EAST, ALONG SAID WEST LINE OF SAID SECTION 30 A DISTANCE OF 2,125.45 FEET; THENCE RUN NORTH 88"19"44" EAST, 634.54 FEET TO THE POINT OF BEGINNING; THENCE RUN SOUTH 1"23"52" EAST, 479.72 FEET; THENCE RUN NORTH 88"10"51" EAST, 656.50 FEET; THENCE RUN NORTH 1"45"44" WEST, 478.11 FEET; THENCE RUN SOUTH 88"9'44" WEST, 653.43 FEET TO THE POINT OF BEGINNING.

TOGETHER WITH: (OFFICIAL RECORD BOOK 553, PAGE 66)

THAT PART OF PARCEL No. 5 OF UNRECORDED SUBDIVISION SURVEY PLAT OF THE NW 1/4 OF SECTION 30, TOWNSHIP 6 SOUTH, RANGE 16 EAST, SAID SURVEY PLAT DATED FEBRUARY 23, 1970, AND SIGNED BY LONNIE L. LEE REG. SURVEYOR CERTIFICATE No. 1950, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NW CORNER OF SECTION 30, TOWNSHIP 6 SOUTH, RANGE 16 EAST, AND S 1°23'52" EAST, ALONG WEST LINE OF SECTION 30, A DISTANCE OF 2125.45 FEET; THENCE RUN N 8819'44" EAST 362.26 FEET TO THE POINT OF BEGINNING; THENCE RUN S 10"23"52" EAST, 480.42 FEET; THENCE RUN N 88"10"51" EAST, 272.28 FEET; THENCE RUN N 1"23"52" WEST 479.72 FEET; THENCE RUN S 88"19"44" WEST, 272.28 FEET TO THE BEGINNING, IN COLUMBIA COUNTY, FLORIDA.

LESS AND EXCEPT: (OFFICIAL RECORD BOOK 866, PAGE 482)

PART OF PARCEL #5 OF AN UNRECORDED SUBDIVISION SURVEY PLAT OF THE NW 1/4 OF SECTION 30, TOWNSHIP 6 SOUTH, RANGE 16 EAST, SAID SURVEY PLAT DATED FEBRUARY 23, 1970, AND SIGNED BY LONNIE L. LEE, REGISTERED SURVEYOR, CERTIFICATE # 1950 BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NW CORNER OF SECTION 30, TOWNSHIP 6 SOUTH, RANGE 16 EAST, AND RUN S 1"23"52" E, ALONG THE WEST LINE OF SAID SECTION 30, 2,125.45 FEET; THENCE N 88"9'44" E, 920.63 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE N 88"9'44" E, 367.34 FEET; THENCE S 1"45"44" E, 478.88 FEET; THENCE S 88"22'01" W, 387.69 FEET; THENCE N 00"40"22" E, 479.00 FEET TO THE POINT OF BEGINNING.

FOUND 4" x 4" CONCRETE MONUMENT "RLS 1443" FENCE CORNER IS 1.5' NORTH AND 0.8' WEST OF PROPERTY CORNER

FOUND 4" x 4" CONCRETE MONUMENT "RLS 1443"

88'24'50" E 50.07 (50')

SURVEYOR'S NOTES

- 1. BEARINGS HEREON ARE REFERENCED TO THE ASSUMED BEARING OF N 88"28'37" E ALONG THE NORTH LINE OF THE PARENT TRACT.
- NO ABOVE-GROUND OR BELOW-GROUND UTILITIES OR IMPROVEMENTS WERE LOCATED EXCEPT AS SHOWN HEREON.
- THE BOUNDARY SURVEY SHOWN HEREON IS BASED UPON ACTUAL FIELD MEASUREMENTS AND OBSERVATIONS MADE ON AUGUST 15, 2005.
- REPRODUCTIONS OF THIS SKETCH ARE NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA SURVEYOR AND MAPPER.

### FLOOD NOTE

ACCORDING TO MY INTERPRETATION OF COMMUNITY PANEL NUMBER 120070 0255 B OF THE FLOOD INSURANCE RATE MAPS FOR COLUMBIA COUNTY, FLORIDA, DATED: JANUARY 6, 1988 THE SUBJECT PROPERTY IS IN FLOOD ZONE "X", IE "AREAS DETERMINED TO BE OUTSIDE THE 500-YEAR FLOOD PLAIN."

CERTIFIED TO:

ROBERT G. & JAMIE M. SHRUM PROFESSIONALS' TITLE COMPANY, LLC FIRST AMERICAN TITLE INSURANCE COMPANY OF TEXAS

GEOLINE SURVEYING, INC. LB 7082

DAVID G. SHORT FLORIDA PROFESSIONAL SURVEYOR AND MAPPER CERTIFICATE OF REGISTRATION NO. 5022

URVEYING, INC.

Professional Land Surveyors 13430 NW 104th Terrace, Suite A Alachua, Florida 32615 (386)418-0500 Fax: (386)462-9986 geoline@geolineinc.com

DRAWN BY: DAVID SHORT DESIGNED: DAVID SHORT DAVID SHORT HECKED:

200

1" = 100'SCALE August 17, 2005 DATE 200-175 PROJECT #

CUEET # 1 AE 1

SHRUM PROPERTY

COLUMBIA COUNTY, FLORIDA

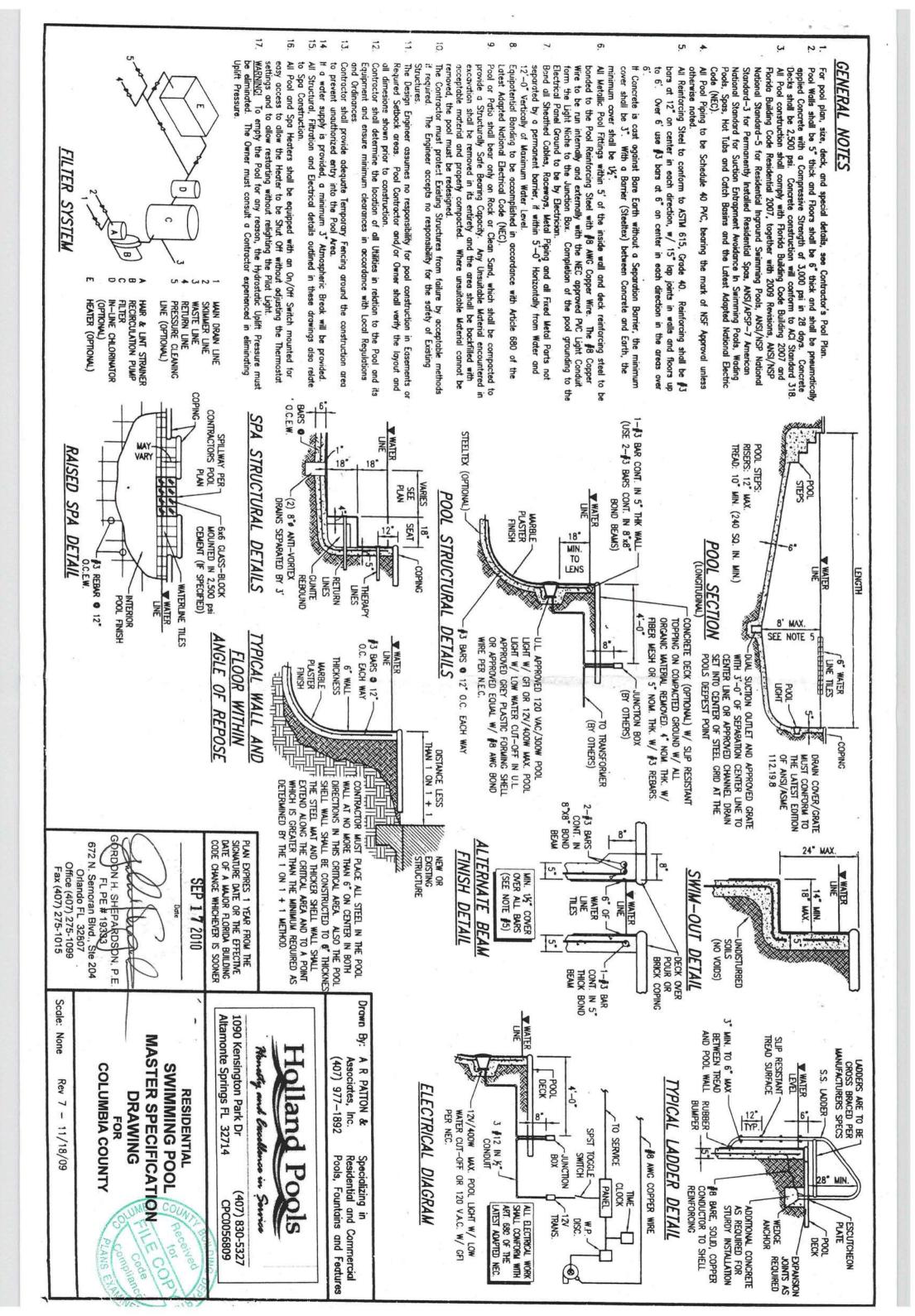
( IN FEET ) SCALE: 18"X 24" SHEET 1"= 100'

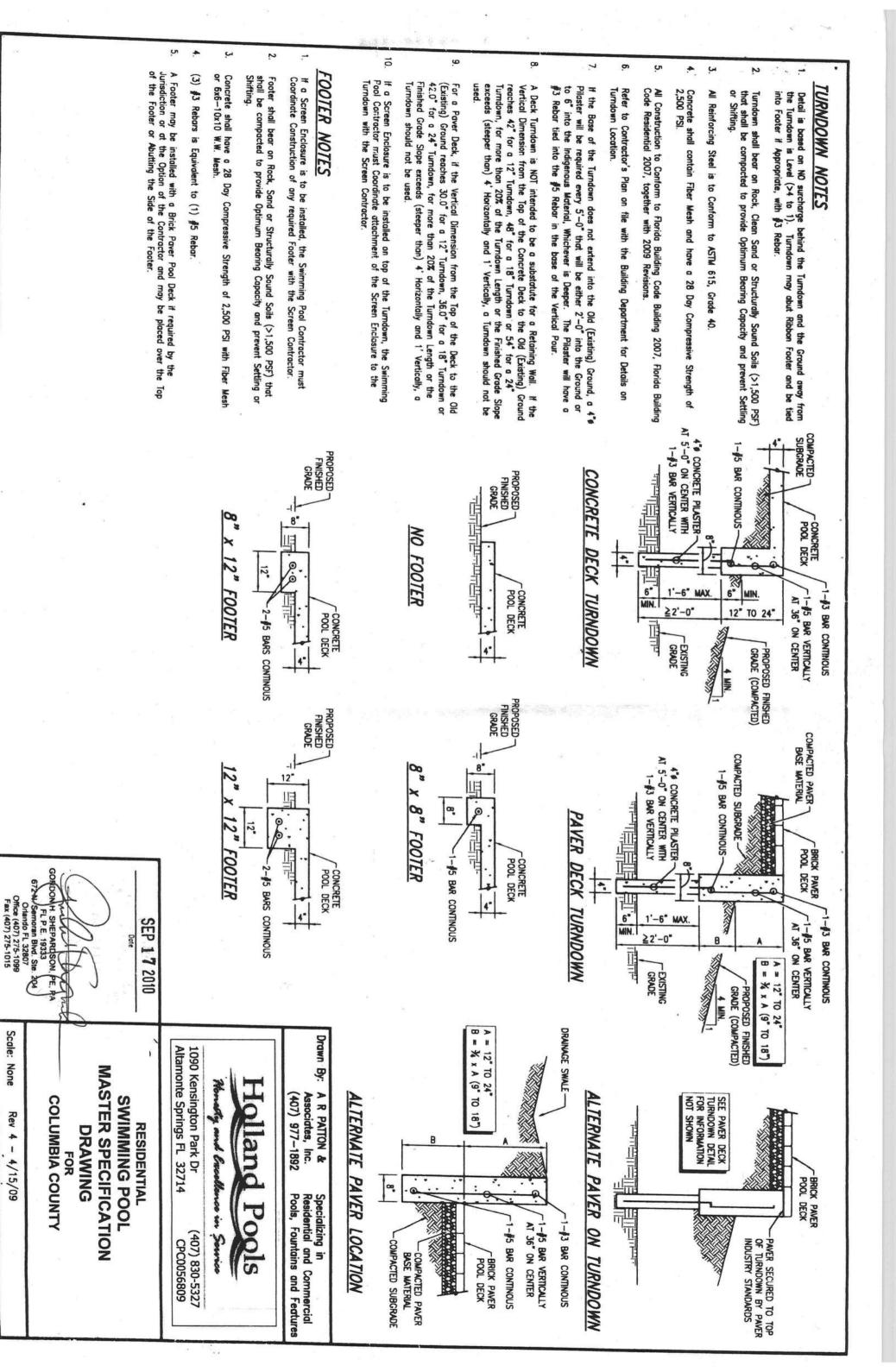
GRAPHIC SCALE

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

# Simplified Total Dynamic Head (TDH) Calculation Worksheet

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System	2	
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ile.	-	

chc	© © Ö 3 suc	⊚ 3'-0" ⊙ 2 suc	Check all that apply.	Determine the Number and Type of Required In-Floor Suction Outlets:	oke and Model)	(Make and Model) using pun	and Main Drain Cover.		Heater	Filte		5. X = (Length of Return Pipe) (Ft of head/1 ft of Pipe) (TDH Return Pipe)	4. (Length of Suct. Pipe) (Ft of head/1 ft of Pipe) (TDH Suct. Pipe)	3. Friction loss (in return pipe) ininch pipe per 1 ft. 0	Friction loss (in suction pipe) in	Determine Simplified IDH:  1. Distance from pool to pump in feet:	Return Piping to be inch to keep velocity @ 10	Trunk, Skimmer & inch to keep velocity @ 8 fg	inch to keep velocity @	Determine Pipe Sizes:	4. Spa Jets: X gpm per jet = (Total Jet Flow Rate)  (For single pump pool/spa combo use the higher of No. 3 or No. 4	(Hours)	2	nimum Flow Rate Required: 35
channel drain @ gpm w/ ports (see note 4).	suction outlets @ gpm max. flow (see note 3).	suction outlets @ gpm max. flow (see note 2).	THE PARTY OF THE P	or 33 gpm.	(System Flow Rate must not exceed approved cover flow rates)	using pump curve for IDH & System Flow Rate	Total Dynamic Head (TDH):	Total all other loss:	Heater loss in TDH (from heater data sheet):	Filter loss in TDH (from filter data sheet):	TDH in Piping:			gpm =(from pipe flow/friction loss chart)	gpm =(from pipe flow/friction loss chart)		10 fps max. at gpm Maximum System Flow Rate.	8 fps max. at gpm Maximum System Flow Rate.	6 fps max. at gpm Maximum System Flow Rate.	no. I in the following concentrations for the poor or open	you in gan (unnover miss.) (roof for room rate) (system from rate)  x gpm per jet = flow rate.  of Jet Flow) (Total Jet Flow Rate)  pool/son combo use the higher of No. 3 or No. 4 in the following calculations for the pool & son)	+ (Tumo	x 7.48 (gal./cubic foot) = (vol. m gal.) x 60 (min. / hr.) = (vol. m gal.)	gpm Per Skimmer (Required: 1 skimmer per 800 sf of surf. area)
Contractors Printed Name Gordon H Shepa 672 N Semoran	Contractors Signature Created and By	This worker	Date Date	SEP 1 7	Specification Drawings or by others with my writter		0.03' 313 gpm 0.05' 392 gpm 0.03' 712 gpm 0.03'	88 gpm 0.05' 117 gpm 0.09' 146 gpm 136 gpm 0.04' 181 gpm 0.07' 227 gpm	16 gpm 0.14' 21 gpm 0.23' 26 gpr 37 gpm 0.08' 50 gpm 0.14' 62 gpr	Velocity - Feet Per Second 10 fps	Schedule 40 PVC Pipe	and Cristian Inc. Dec Cont	TDH calculation worksheet for approval.	changed, and equipment location cannot be moved		<ol><li>In-Floor suction outlet cover/grate must conform t most recent edition of ASME/ANSI A112.19.8 and b</li></ol>	<ol><li>See installation instructions for number of ports to be used.</li></ol>	<ol> <li>Insert manufacturer's name and aproved maximum flow</li> </ol>	flow as published by manufacturer.	pump flow in calculations.			of the new or replacement pump.	Complete Program or other calcs. Fill in require blanks on worksheet & attach calculations.

### TDH Calculation Options For each pump Simplified Total Dynamic Head (STDH) Complete STDH Worksheet — Fill in all blanks. Check one. on approval. ns for number of ports to me and aproved maximum p is used, use the max. over/grate must conform to SME/ANSI A112.19.8 and be appropriate side wall drain inufacturer. ement pump. (IDH) other calcs. Fill in required & attach calculations.

Ū.			Velocity - Fe	Feet Per Second	Z	
pe Size	6	큫	8 fp.	fps ed	10 fps	T T
-	16 gpm	0.14	21 gpm	0.23	26 gpm	0.35
1.5	37 gpm	0.08	50 gpm	0.14	62 gpm	0.21
2"	md6 29	0.06	82 gpm	0.10	103 gpm	0.16
25	undf6 88	0.05	117 gpm	0.09	146 gpm	0.13
J.	136 gpm	0.04	181 gpm	0.07	227 gpm	0.10
*	234 gpm	0.03'	JIJ gpm	0.05	392 gpm	0.07
5.	SJ4 gpm	0.02'	712 gpm	0.03		

verty of Gordon H. Shepardson, PE and ijunction with my Residential Swimming Pool or by others with my written permission.

This worksheet was Created and provided By Gordon H Shepardson PE PA 672 N Semoran Blvd Ste 204 Orlando FL 32807 Off (407) 275-1099 Fax (407) 275-1015	Contractors Telephone No	Contractors Cert. No.	Contractors Printed Name	Contractors Signature		Date	
	- Fax (407) 275-1099	Orlando FL 32807	Gordon H Shepardson PE PA	Created and provided	9	Oate	SEP 1 7 2010

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35	34	u	32	31	30	29	28	27	26	25	24	2.3	n	21	20	19	18	17	16	15	=	13	12	=	10	9	8	1	6	5	•	u	2	-	0		-	Total Head
80.9	78.5	78.2	73.9	71.6	69.3	67.0	64.7	62.4	80.1	57.8	55.4	53.1	50.8	48.5	46.2	43.9	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	E .	H
83.1	80.8	78.5	76.2	73.9	71.6	69.3	66.9	64.6	62.3	60.0	57.7	55.4	53.1	50.8	48.5	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	_	ead
85.4	83.1	80.7	78.4	76.1	73.8	715	69.2	66.9	64.6	62.3	60.0	57.7	55.3	53.0	50.7	48.4	46.1	43.8	41.5	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		Inches	'n
87.6	85.3	83.0	80.7	78.4	76.1	73.8	71.5	69.2	66.8	64.5	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	8	Mercury	Feet
89.9	87.6	85.3	83.0	80.7	78.3	76.0	73.7	71.4	69.1	8.88	84.5	62.2	59.9	57.6	55.2	529	50.6	48.3	48.0	43.7	41.4	39.1	36.8	34.5	32.1	29.8	27.5	25.2	22.9	20.6	18.3	16.0	13.7	11.4	9.0			
92.2	8.68	87.5	85.2	82.9	80.6	78.3	76.0	73.7	71.4	69.1	86.7	64.4	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	(Vacuum	Conversion
94.4	92.1	89.8	87.5	85.2	82.9	80.5	78.2	75.9	73.6	71.3	0.00	66.7	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	n Gauge)	Vers
96.7	94.4	92.0	89.7	87.4	85.1	82.8	80.5	78.2	75.9	73.6	71.3	69.0	66.6	64.3	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	ge)	ion
98.9	96.6	94.3	92.0	89.7	87.4	85.1	82.8	80.5	78.1	75.8	73.5	71.2	68.9	66.6	64.3	62.0	59.7	57.4	55.0	52.7	50.4	48.1	45.8	435	412	38.9	36.6	$\dashv$	Н	-	-	25.0	-		-	16		
101.2	98.9	96.6	94.3	92.0	89.6	87.3	85.0	82.7	80.4	78.1	75.B	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	36.6	36.5	Н	+	-	+	25.0	-	20.3	168		Chart

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

(407) 977-1892	Associates, Inc.	A R PATTON &
Pools,	Residential and	Specia
Four	dia	lizing
Fountains	a	3.
and Fo	C	
Fe	ommerc	

Drawn By:

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# Honesty and Cacollance in

RESIDENTIAL

Altamonte Springs FL 32714 1090 Kensington Park Dr

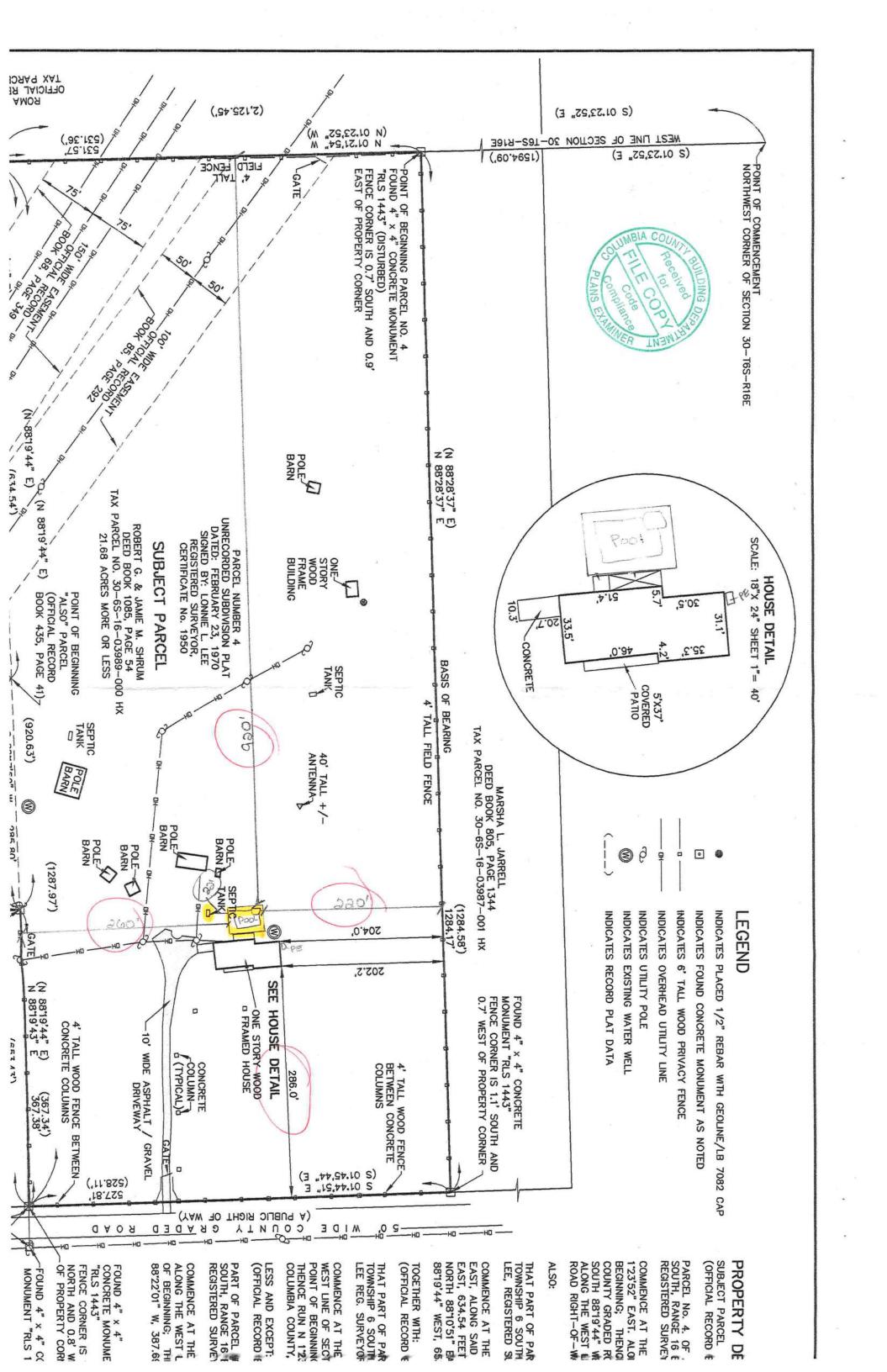
(407) 830-5327 CPC0056809

MASTER SPECIFICATION SWIMMING POOL COLUMBIA COUNTY DRAWING

Scale: None

Rev 7 -

11/18/09



### BOUNDARY SURVE

IN SECTION 30, TOWNSHIP 6 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA

FOR: ROBERT G. & JAMIE M. SHRUM

### PROPERTY DESCRIPTION

SUBJECT PARCEL BAR WITH GEOLINE/LB 7082 CAP E MONUMENT AS NOTED

RIVACY FENCE

x 4" CONCRETE "RLS 1443"

RNER IS 1.1' SOUTH AND

OF PROPERTY CORNER

4' TALL WOOD FENCE-

BETWEEN CONCRETE

COLUMNS

286.0

CONCRETE

COLUMN-

WIDE ASPHALT / GRAVEL DRIVEWAY

E DETAIL

ORY WOOD

ED HOUSE

RETE

4' SOUTH AND

TY CORNER

Y LINE

WELL

ATA

(OFFICIAL RECORD BOOK 435, PAGE 41)

PARCEL No. 4. OF AN UNRECORDED SUBDIVISION SURVEY PLAT OF THE NW 1/4 OF SECTION 30, TOWNSHIP 6 SOUTH, RANGE 16 EAST; SAID SURVEY PLAT BEING DATED FEBRUARY 23, 1970, AND SIGNED BY LONNIE L. LEE REGISTERED SURVEYOR, ON CERTIFICATE No. 1950; SAID LANDS BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NW CORNER OF SAID SECTION 30, TOWNSHIP 6 SOUTH, RANGE 16 EAST, AND RUN SOUTH 1°23'52" EAST. ALONG THE WEST LINE OF SAID SECTION 30 A DISTANCE OF 1,594.09 FEET, TO THE POINT OF BEGINNING; THENCE NORTH 88°28'37" EAST, 1,284.58 FEET TO THE WEST RIGHT-OF-WAY LINE OF A 50-FOOT COUNTY GRADED ROAD; THENCE SOUTH 1°45'44" EAST ALONG SAID RIGHT-OF-WAY LINE 528.11 FEET; THENCE SOUTH 88"19'44" WEST, 1,287.97 FEET TO THE WEST LINE OF SAID SECTION 30; THENCE NORTH 1"23"52" WEST, ALONG THE WEST LINE OF SAID SECTION 30, 531.36 FEET TO THE POINT OF BEGINNING, LESS AND EXCEPT COUNTY ROAD RIGHT-OF-WAY.

### ALSO:

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THAT PART OF PARCEL No. 5 OF AN UNRECORDED SUBDIVISION SURVEY PLAT OF THE NW 1/4 OF SECTION 30, TOWNSHIP 6 SOUTH, RANGE 16 EAST; SAID SURVEY PLAT DATED FEBRUARY 23, 1970, AND SIGNED BY LONNIE L. LEE, REGISTERED SURVEYOR, CERTIFICATE No. 1950, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NW CORNER OF SECTION 30, TOWNSHIP 6 SOUTH, RANGE 16 EAST, AND RUN SOUTH 1°23'52" EAST, ALONG SAID WEST LINE OF SAID SECTION 30 A DISTANCE OF 2,125.45 FEET; THENCE RUN NORTH 88"19"44" EAST, 634.54 FEET TO THE POINT OF BEGINNING; THENCE RUN SOUTH 1"23"52" EAST, 479.72 FEET; THENCE RUN NORTH 8810'51" EAST, 656.50 FEET; THENCE RUN NORTH 1'45'44" WEST, 478.11 FEET; THENCE RUN SOUTH 8819'44" WEST, 653.43 FEET TO THE POINT OF BEGINNING.

TOGETHER WITH: (OFFICIAL RECORD BOOK 553, PAGE 66)

THAT PART OF PARCEL No. 5 OF UNRECORDED SUBDIVISION SURVEY PLAT OF THE NW 1/4 OF SECTION 30, TOWNSHIP 6 SOUTH, RANGE 16 EAST, SAID SURVEY PLAT DATED FEBRUARY 23, 1970, AND SIGNED BY LONNIE L LEE REG. SURVEYOR CERTIFICATE No. 1950, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NW CORNER OF SECTION 30, TOWNSHIP 6 SOUTH, RANGE 16 EAST, AND S 1°23'52" EAST, ALONG WEST LINE OF SECTION 30, A DISTANCE OF 2125.45 FEET; THENCE RUN N 8819'44" EAST 362.26 FEET TO THE POINT OF BEGINNING; THENCE RUN S 10'23'52" EAST, 480.42 FEET; THENCE RUN N 88"10'51" EAST, 272.28 FEET; THENCE RUN N 1"23'52" WEST 479.72 FEET; THENCE RUN S 88"19'44" WEST, 272.28 FEET TO THE BEGINNING, IN COLUMBIA COUNTY, FLORIDA.

LESS AND EXCEPT: (OFFICIAL RECORD BOOK 866, PAGE 482)

PART OF PARCEL #5 OF AN UNRECORDED SUBDIVISION SURVEY PLAT OF THE NW 1/4 OF SECTION 30, TOWNSHIP 6 SOUTH, RANGE 16 EAST, SAID SURVEY PLAT DATED FEBRUARY 23, 1970, AND SIGNED BY LONNIE L. LEE, REGISTERED SURVEYOR, CERTIFICATE # 1950 BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NW CORNER OF SECTION 30, TOWNSHIP 6 SOUTH, RANGE 16 EAST, AND RUN S 1°23'52" E, ALONG THE WEST LINE OF SAID SECTION 30, 2,125.45 FEET; THENCE N 88"19'44" E, 920.63 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE N 88"19'44" E, 367.34 FEET; THENCE S 1"45'44" E, 478.88 FEET; THENCE S 88"22'01" W, 387.69 FEET; THENCE N 00"40'22" E, 479.00 FEET TO THE POINT OF BEGINNING.

SURVEYOR'S NOTES

LOCATED EXCEPT AS SHOWN HEREON.

FOUND 4" x 4" CONCRETE MONUMENT "RLS 1443" FENCE CORNER IS 1.5' NORTH AND 0.8' WEST OF PROPERTY CORNER

FOUND 4" x 4" CONCRETE MONUMENT "RLS 1443"

GRAPHIC SCALE

( IN FEET )

SCALE: 18"X 24" SHEET 1"= 100'

100

25 50

### REPRODUCTIONS OF THIS SKETCH ARE NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA SURVEYOR AND MAPPER.

FLOOD NOTE ACCORDING TO MY INTERPRETATION OF COMMUNITY PANEL NUMBER 120070 0255 B OF THE FLOOD INSURANCE RATE MAPS FOR COLUMBIA COUNTY, FLORIDA, DATED: JANUARY 6, 1988 THE SUBJECT PROPERTY IS IN FLOOD ZONE "X", IE "AREAS DETERMINED TO BE OUTSIDE THE 500-YEAR FLOOD PLAIN."

BEARINGS HEREON ARE REFERENCED TO THE ASSUMED BEARING OF N

NO ABOVE-GROUND OR BELOW-GROUND UTILITIES OR IMPROVEMENTS WERE

THE BOUNDARY SURVEY SHOWN HEREON IS BASED UPON ACTUAL FIELD

88"28"37" E ALONG THE NORTH LINE OF THE PARENT TRACT.

MEASUREMENTS AND OBSERVATIONS MADE ON AUGUST 15, 2005.

CERTIFIED TO:

ROBERT G. & JAMIE M. SHRUM PROFESSIONALS' TITLE COMPANY, LLC FIRST AMERICAN TITLE INSURANCE COMPANY OF TEXAS

GEOLINE SURVEYING, INC. LB 7082

DAVID G. SHORT

FLORIDA PROFESSIONAL SURVEYOR AND MAPPER CERTIFICATE OF REGISTRATION NO. 5022

### SURVEYING, INC.

Professional Land Surveyors 13430 NW 104th Terrace, Suite A Alachua, Florida 32615 (386)418-0500 Fax: (386)462-9986 geoline@geolineinc.com

1" = 100' SCALE DRAWN BY: DAVID SHORT August 17, 2005 DATE DESIGNED: DAVID SHORT PROJECT # 200-175 CHECKED: DAVID SHORT

> PROPERTY SHRUM COLUMBIA COUNTY, FLORIDA

JOB # 200-175

200

SHEET # 1 OF 1

