DATE 06/0	4/2009	Colur	nbia County But Be Prominently Posted of	ulding Permit	tuu.atiom	PERMIT
			Be Prominently Posted of			000027852
APPLICANT	TOM BUS			PHONE	352 332-7665	22/0/
ADDRESS	3601	NW 97TH BLVD		GAINESVILLE		FL 32606
OWNER		PAULA MOSER		. PHONE	365-6714	22025
ADDRESS	266	SE TORTOISE C	Γ	LAKE CITY		FL 32025
CONTRACTO	R <u>M.</u>	TILLIS GIBSON JR		PHONE	352 332-7665	
LOCATION O	F PROPER	TY 441S, TI	L CR 18, TR TORTOISE C	CT, FOLLOW DRIVE TO	O END	
TYPE DEVEL	OPMENT	SWIMMING PO	OOL EST	TIMATED COST OF CO	NSTRUCTION	40526.00
HEATED FLO	OR AREA		TOTAL ARE	Α	HEIGHT	STORIES
FOUNDATION	V	WA	LLS R	OOF PITCH	FL	OOR
LAND USE &		A-3		To establish	. HEIGHT	,
Minimum Set I		-	T-FRONT 30.00	REAR	25.00	SIDE 25.00
			884 SS 2570M		-	
NO. EX.D.U.	1	_ FLOOD ZONE	<u>N/A</u>	DEVELOPMENT PERM	MIT NO	
PARCEL ID	19-6S-18-	-10621-004	SUBDIVISION	1		
LOT	BLOCK	PHASE	UNIT	төтл	AL ACRES	
W			CPC044114	V A	1	
Culvert Permit	No.	Culvert Waiver	Contractor's License Num	ber	Applicant/Owner/	Contractor
EXISTING		X09-153	BK	•	ID.	N
Driveway Conn	ection	Septic Tank Number	er LU & Zonin	g checked by App	roved for Issuance	e New Resident
COMMENTS:	NOC ON	FILE				
					Check # or Ca	ash 40115
		FOR B	BUILDING & ZONIN	G DEPARTMENT		
Temporary Pow	ver .	FOR B	BUILDING & ZONING Foundation	G DEPARTMENT	ONLY	ash 40115 (footer/Slab)
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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.

Columbia County Building Permit Application

For Office Use Only Application # 0905-49 Date Received 5/27 By W Permit # 27852
Zoning Official Date Q. C. O Flood Zone MA Land Use A-3 Zoning A-3
FEMA Map # N/A Elevation N/A MFE N/A River N/A Plans Examiner HO Date 6 4 00
Comments
NOC _LEH Deed or PA Site Plan _ State Road Info _ Parent Parcel #
□ Dev Permit # □ In Floodway □ Letter of Auth. from Contractor □ F W Comp. letter
IMPACT FEES: EMS Fire Corr Road/Code
School = TOTAL Suspended
Septic Permit No. 1 - 09-153 - IN Relaite Box Fax 352 332 0266
Name Authorized Person Signing Permit Ton Bost Phone 352 332 7665
Address 3601 NW 97 BLVD GAINESVILLE FL. 32606
Owners Name Mek or Paula Moser Phone
911 Address Z66 SE TORTOISE Ct. LAKE Ct. FL. 32025
Contractors Name FUNSTATE POOLS INC ATILLIS GIBSON JR. Phone 352-332-7665
Address 3601 NW 39 St. GANESVILLE FR. 32606
Fee Simple Owner Name & Address N
Bonding Co. Name & Address 4
Architect/Engineer Name & Address FUNSTATE Procs, DRISCOLL ENGINEERING INC.
Mortgage Lenders Name & Address 🛮 🖈
Circle the correct power company — FL Power & Light — Clay Elec. — Suwannee Valley Elec. — Progress Energy
Property ID Number 19-65-18-10621-004 Hy Estimated Cost of Construction 40, 526.00
Subdivision NameLotBlockUnitPhase
Driving Directions Go SOUTH ON 441 TO CR 18 LURN LEFT (EAST) GO SEVERGE Miles
TO TORTOISE CT. ON RIGHT (DAT Rd) TURN ONTO TORTOISE FOLLOW ROAD
KEEP RIGHT UNTILL ARIVE AT RESIDENCE Number of Existing Dwellings on Property
Construction of INGROUND CONCRETE SWIMMING POOL Total Acreage 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 766 Side 200 Side 400 Rear 430
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.

GANTAL TO LOS

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	
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NOTICE TO SWIMMING POOL OWNERS

approval and use of my pool, I will need all the ins applicable regulations. The Florida Building Code	have been informed and I understand that prior to the final inspection spections approved and the required fencing installed in accordance with Chapter 4 Section 24 requires private residential swimming pools, hot inches 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, 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.

Owner Signature / Date

Address: 266 SE TORTOISE Ct. LAKE CITY FL. 32025

Contractor Signature / Date

Contractor Signature / Date

Contractor Signature / Date

Contractor Signature / Date

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.

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 hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning. I further understand the above written responsibilities in Columbia County for obtaining this 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.

Contractor's Signature (Permitee)

Contractor's License Number CPC044114 **Columbia County** Competency Card Number_

Affirmed under penalty of perjury to by the <u>Contractor</u> and subscribed before me this <u>13</u> day of <u>May</u> 20_7

Personally known (V) or Produced Identification

SEAL:

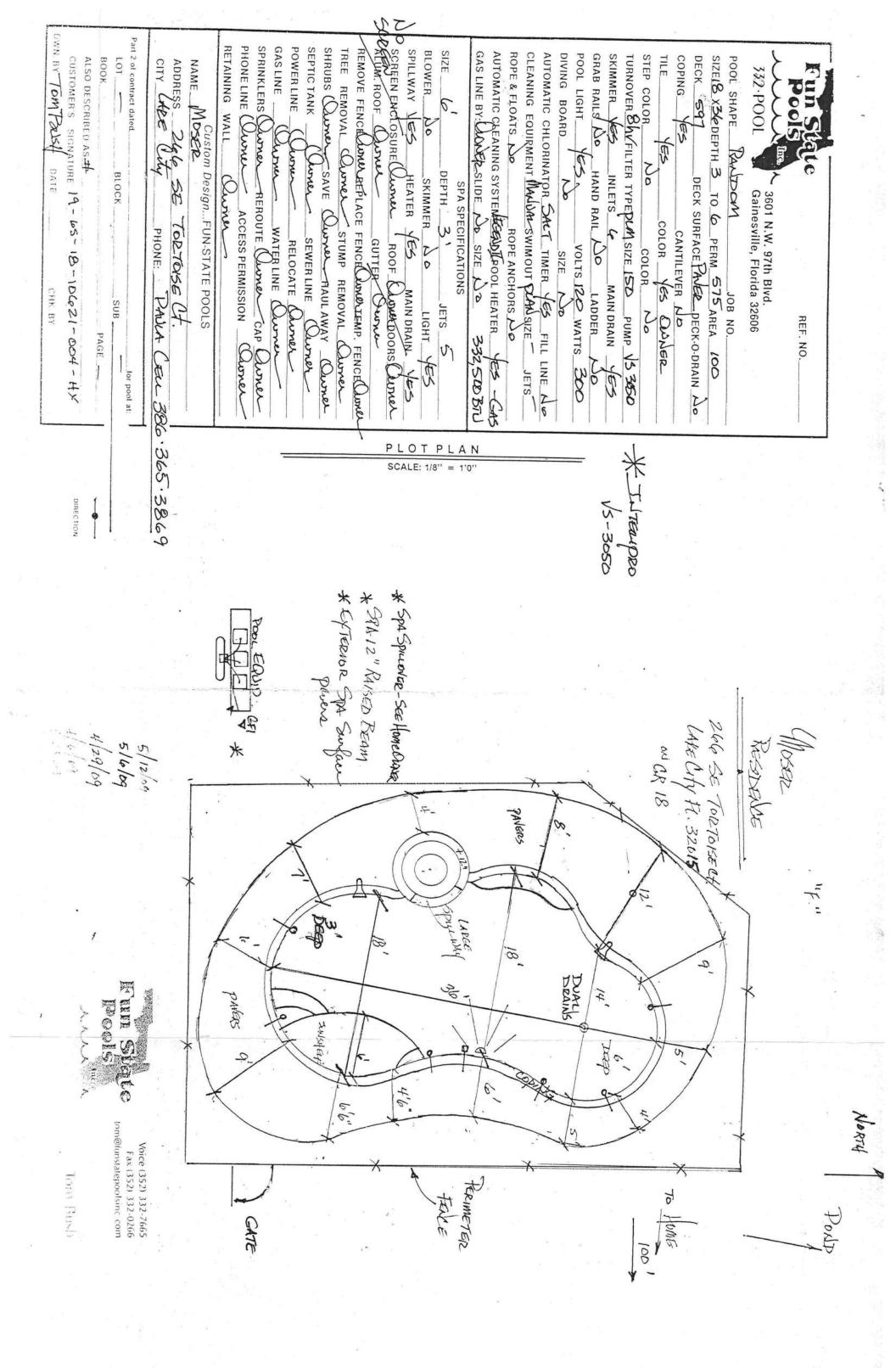
e of Fl∮rida Notary Signature (For the Contractor)



NORTH	
	POND
Fun State Pools REF. N	
3601 N.W. 97th Blvd. Gainesville, Florida 32606	
POOL SHAPE RANDOM JOB NO. SIZE18 X36 DEPTH 3 TO 6 PERM 575 AREA	
DECK 597 DECK SURFACE PAVER DECK.C COPING YES CANTILEVER NO 5'	TO HUME
STEP COLOR NO COLOR NO	100 1
SKIMMER JOS INLETS 4 MAIN DRAIN TOP OF THE GRAB RAILS NO HAND RAIL NO LADDER	
POOL LIGHT VOLTS 120 WATT	
CLEANING EQUIRMENT MANDAY SWIMOUT PLANSIZE	
AUTOMATIC CLEANING SYSTEM CANDILPOOL HEATER	2
SPA SPECIFICATIONS SIZE 6 DEPTH 3 JETS 5	PERIMETER FENCE
BLOWER DO SKIMMER DO LIGHT	A Tract
SCREEN ENCLOSURE Quine ROOF QUINE DOOF	***
TREE REMOVAL QUINE STUMP REMOVAL 66"	
SHRUBS Que SAVE Que HAUL AWAY SHEET! SEPTIC TANK QUE SEWER LINE QUE POWER LINE RELOCATE QUEEN	
GAS LINE WATER LINE OWNER SPRINKLERS OWNER REROUTE OWNER CAP	CHE
PHONE LINE QUINE ACCESS PERMISSION Q 9'	GATE
NAME MOSER Custom DesignFUN-STATE POOLS	
ADDRESS 266 SE TORTOISE CT. CITY LAKE City PHONE: PAULA Voice	(352) 332-7665
Part 2 of contract dated.	(352) 332-0266 atepoolsinc com
ALSO DESCRIBED AS # A.A.A.	Y IN
CUSTOMER'S SIGNATURE 19-65-18-10(21-00) WN. BY TOMPOUSH DATE CHK. BY	Iona Bush

N

NOTICE OF COMMENCEMENT This Instrument Prepared By: Name: Fun State Pools, Inc. Tom Bush Address: 3601 NW 97 Blvd G'ville FL 32606 Permit No: Tax Folio No: 19-65-18-10621-004 14X STATE OF: Florida Inst;200912008737 Date:5/27/2009 Time:12:04 PM DC,P.DeWitt Cason, Columbia County Page 1 of 1 B:1173 P:2637 COUNTY OF: Alachua THE UNDERSIGNED HEREBY gives notice that improvement(s) will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement. 1. DESCRIPTION OF PROPERTY: Street Address: 266 SE TORTO 2. GENERAL DESCRIPTION OF IMPROVEMENT(S): 3. OWNER INFORMATION: a.) Name: MARKOR b.) Interest in Property: Fee Simple c.) Fee Simple Titleholder (if other than owner) Name: 4. CONTRACTOR: a.) Name: Fun State Pools, Inc Address: 3601 NW 97 Blvd G'ville 32606 b.) Phone: 352-332-7665 5. SURETY: a.) Name: N/A Address: N/A b.) Amount of bond \$: N/A c.) Phone: N/A 6. LENDER: a.) Name: N/A Address: N/A b.) Phone: N/A 7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a) 7., Florida Statutes: a.) Name: N/A Address: N/A b.) Phone: N/A 8. In addition to himself, Owner designates the following person(s) to receive a copy of Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes. _ Address: N/A 9. Expiration date of notice of commencement (the expiration date is one (1) year from the date of recording unless a different date is WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR 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 AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT. mature of Owner or Owner's Authorized Officer/Director ner/Manager Signatory's Title/ Office_ The foregoing instrument was acknowledged before me this 13 day of May by Mark Moser (name of person) as_ (type of authority, e.g. officer, trustee, attorney in fact) for (name of party on behalf of whom instrument was executed). KARLEEN P. HOWARD Commission DD 768706 Signature of Notaly Public - State of Florida Expires March 16, 2012 Print, Type, or Stamp Commissioned Name of Notary Public Commission Number: DD 708700 Bonded Thru Troy Fain Insurance 800-385-7019 Personally Known ____ or Produced Identification > Verification Pursuant to Section 92.525, Florida Statutes Under penalties of perjury, I declare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and ure of Natural Person Signing Above



PROFESSIONAL SERVICES
DRISCOLL ENGINEERING, INC.
DRISCOLL ENGINEERING, INC.
DRISCOLL ENGINEERING, INC.
Galnesville, Florida 32606
(352) 331-1513
E.B.

PLANS AND SPECIFICATIONS

ins presented herein are only for the anticipated construction at the locations shown. If construction plans change, the Design Professional share and specifications can be re-evaluated. The Design Professional should be given the opportunity to review final plans and specifications that been followed endor if suppliment dealits and recommendations are needed. The Design Professional warrant shares and specifications has been followed endor! If suppliment dealits and recommendations are needed. The Design Professional warrant shares are needed. The Design Professional warrant shares are needed to the control of the professional services are needed. The design Professional warrant shares are needed. The design Professional services are needed. The design Professional services

CORPORATE PROTECTION

Sunderstand and agreed that the Design Professional's Basic Services under this agreement do not include project observation or review of the Contractors ther construction phase services will be provided by the client. The client assumes all responsibility for interpretation of the contractors documents and for client assumes any define against th Design Professional that may in any way connected thereto.

addion. The client agrees, to the fullest extent permitted by law, to indemnify and hold the Design Professional harmless from any loss, claim or cost including asonable attorney's fees and cost of defence, arising or resulting from the performance of such services by otherperson or entities and from any and all claims sleng from modifications, clarifications, adviscrations, adviscrations and adviscration and for adviscration and adviscration a

OWNERSHIP OF INSTRUMENTS OF SERVICE

All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by the Design Professional as instruments of service shall remain properly of the Design Professional. The Design Professional shall reliab all common law, statutory and other reserved rights, including the copyright thereto

DEFECTS IN SERVICE

The client shall promptly report to the Design Professional any defects or suspected defects in the Design Professionals work or services of which the client becomes aware, so that the Design Professional may take measures to minimize the consequences of such defect. The client warrants that the or she will impose similar notification requirement on all contractors in his or her client/contractor contract and shall require all subcontractors at any level to contain a like requirement. Failure by the client's contractors or subcontractors to notify the Design Professional, shall relive the Design Professional of the cost of remedying the defects above the sum such remedy would have cost had prompt notification been given.

VERIFICATION OF EXISTING CONDITIONS
Insamuch as the remodeling and/or rehabilitation of an existing building requires certain assumptions be made regarding existing conditions, and because some of these assumptions may not be verifiable without expending additional sums of money or destroying otherwise adequate serviceable portions of the building. The client agrees, to the fullest extent permitted by taw, to indemnify and hold the Design Professional harmless in any claim, liability or cost (including attorney's fees and cost of defense) for injury oe economotic loss artisting out of professional services provided under this agreement, except only those damages, liability, or cost attributable to the sole negligence or willful misconduct of the Design Professional.

CONCRETE CONSTRUCTION NOTES:

MIXB

CONCRETE MIX "A" SHALL BE USED FOR FOUNDATION AND WALLS FOTTINGS AND INTERIOR SLABS ON GRADE. CONCRETE
MIX "B" SHALL BE USED FOR EXTERIOR SLABS, CURBS AND ALL OTHER EXTERIOR CONCRETE, ALL CONCRETE MIXES
MIXES SHALL CONFAIN A WATTER- REDUCING ADMIXTURE CONFORMING TO ASTM C-494 AIR-ENTRAINING ADMIXTURE SHALL
SHALL CONFORM TO ASTM C-280

. CONCRETE WORK SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI-318) AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE" (ACI-301) LATEST EDITION.

3000 psi.

ULTIMATE COMPRESSIVE STRENGTH @ 28 DAYS
SLUMP RANGE
4*+/-1*
MAXIMUM AGGREGATE
ENTRAINED AIR
DRY WEIGHT PER CUBIC FT.
150

3. ALL CONCRETE SHALL CURE FOR A MINIMUM OF 28 DAYS. IF FORMS FOR VERTICAL SERFACES ARE REMOVED PRIOR TO THE END OF THE CURING PERIOD , SPRAY SURFACES WITH LIQUID MEMBRANE CURING COMPOUND. . REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 40 (F=40ks).) LAP CONTINUOUS BARS FOR TENSION LAP SPLICE PER ACI-318 UNLESS OTHERWISE NOTED. PROVIDE CORNER BARS OF SAME SIZE AND SPACING AS HORIZONTAL WALL REINFORCEMENT COVER FOR CONCRETE REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI-318, PARAGRAGH 7.7

S, WELDED WIRE FABRIC SHALL BE USED IN DRIVEWAY SLABS ON GRADE LAP SHEETS ON MESH SPACE AND WIRE TIE ADJACENT SHEETS TOGETHER SECURELY. CUT ALTERNATE REINFORCMENT AT CONTROL JOINTS. S, ALL SLABS ON GRADE SHALL HAVE CONSTRUCTION CONTROL JOINTS NOT TO EXCEED 15-0" SPACING, UNLESS OTHERWISE NOTED.

7. ALL SIDEWALKS SHALL HAVE CONSTRUCTION OR CONTROL JOINTS NOT TO EXCEED 5'-0" SPACING U.N.O.

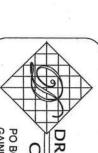
MASONRY CONSTRUCTION NOTES

, CONCRETE MASONRY WORK SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (ACI 530-02/ ASCES-02) AND "SPECIFICATIONS FOR MASONRY STRUCTURES: (ACI 530.1-02/ASCES-03).

CONCRETE MASONRY UNITS SHALL BE TYPE 1 AND COMPLY WITH "STANDARD SPECIFICATIONS FOR HOLLOW LOAD BEARING CONCRETE MASONRY UNITS (ASTM C90-90)
 THE MINIMUM NET AREA COMPRESIVE STRENGTH OF MASONRY (fm) AS DETERMINED BY THE UNIT STRENGTH METHOD SHALL BE 1500 PSI.

MORTAR SHALL CONFORM TO ASTM C270, TYPE M MORTAR SHALL BE USED UNLESS OTHERWISE NOTED. TYPE S MORTAR SHALL BE USED WITH MASONRY IN CONTACT WITH EARTH.

6. GROUT FOR FILLING BLOCK CORES AND BOND BEAMS SHALL HAVE A MINUMUM COMPRESSIVE STRENTH OF 3000 PSI. AT THE AGE OF 28 DAYS.



DRISCOLL ENGINEERING,I

PREPARED FOR

COLUMBIA CO, FL BUILDING DEPT, FILE COPY

CONTRACTOR:

ALL POOL CONSTRUCTION TO COMPLY WITH ANSI/ APSP-7 & FBC 2007 & 2009 AMENDMENTS.

SHEET:1 PROFESSIONAL SERVICES,

SHEET:3 SHEET:2

THESE DETAILS HAVE BEEN PREPARED IN COMPLIANCE WITH REQUIREMENTS OF THE 2007 FLORIDA BUILDING CODE RESIDENTIAL AND THE 2009 AMENDMENTS TO CHAPTER 41 TO THE BEST OF MY KNOWLEDGE



CONSULTING ENGINEERS

PO BOX 357577 GAINESVILLE, FL. 32606

EB 8690 PH (352) 331-1513

FUNSTATE POOLS 3601 N.W. 97th BLVD GAINESVILLE, FL 352-332-7665

GENERAL INFORMATION

SHEET:4 2 GENERAL NOTES & CHARTS3 DETAIL DRAWINGS4 DETAIL DRAWINGS5 DETAIL DRAWINGS

WILLIAM JOHNSON SHEET: CUSTOM DRAFTING 16909 N.E.21st. STREET GAINESVILLE, FL. 32609 PH (352) 485-1942 (352) 494-2041

RESIDENTIAL SWIMMING POOL & SPA DESIGN FOR FUN STATE POOLS USE ONLY



DRISCOLL ENGINEERING, INC. Post Office Box 357577 Gainesville, Florida 32635-7577 Phone (352) 331-1513 Fax (352) 505-3366 EB#8690

GENERAL NOTES FOR RESIDENTIAL SWIMMING POOLS

- Design, construction and workmanship shall be in conformity with the requirements of the 2007 Florida Building Code with 2009 supplement, Chapter 41, ANSI/NSPI 3; ANSI/NSPI 4; ANSI/NSPI 5; and ANSI/NSPI 6; ANSI/Apsp-7.
- Every swimming pool shall be equipped complete with approved mechanical equipment consisting of filter, pump, piping valves and component parts.
- Pool piping shall be designed so the water velocity will not exceed 10 feet per second (3048 mm/s) for pressure piping and 8 feet per second (2438 mm/s) for suction piping, except that the water velocity shall not exceed 8 feet per second (2438 mm/s) in copper
- 4. All pool and spa suction inlets shall be provided with a cover that has been tested and accepted by a recognized testing facility and comply with ANSI/ASME A112.19.8M, Suction Fittings for Use in Swimming Pools, Spas, Hot Tubs, and Whirlpool Bathhub

- □Exceptions:
 □□1. Surface Skimmers.
 □□2. Grate or grates having a minimum area of 144 square inches (.09 □□2. Grate) or greater.
- 5. A minimum of two suction inlets shall be provided for each pump in the suction inlet system, separated by a minimum of 3 feet (914 mm) or located on two different planes; i.e., one on the bottom and one on the vertical wall, or one each on two separate vertical walls. These suction inlets shall be plumbed such that water is drawn through them simultaneously through a common line to the pump. When a skimmer is used in conjunction with a single main outlet to meet the requirements of this section, the common suction line must be in compliance with Section R4101.6.6.3 such that a vacuum cannot be drawn on any single main outlet or skimmer.
- Pumps shall be installed in accordance with manufacturer's recommendations.
- Pump impellers, shafts, wear rings and other working parts shall be of
- All pool piping shall be tested and proved tight to the satisfaction of the administrative authority, under a static water or air pressure test of not less than 35 pounds per square inch (psi) (241 kPa) for 15 minutes.
- Exception: Circulating pumps need not be tested as required in this section.
- All pools whether public or private shall be provided with a ladder or steps in the shallow end where water depth exceeds 24 inches (610 mm). In private pools where water depth exceeds 5 feet (1524 mm), there shall be ladders, stairs or underwater benches/swim-outs in the deep end.

Where manufactured diving equipment is to be used, benches or swim-outs shall be recessed or located in a corner.

10. The entire design of matched components shall have sufficient capacity to provide a complete turnover of pool water in 12 hours or less.
11. Approved surface skimmers are required and shall be installed in strict accordance with the manufacturer's installation instructions. Skimmers shall be installed on the basis of one per 800 square feet (74 m2) of surface area or fraction thereof, and shall be designed for a flow rate of at least 25 gallons per minute (gpm) (1.6 L/s) per skimmer. □Exception: In private pools having more than one shallow end, only one set of steps is required. A bench, swim-out or ladder may be used at all additional shallow ends in lieu of an additional set of steps.

- 12. Approved manufactured inlet fittings for the return of re-circulated pool water shall be provided on the basis of at least one per 300 square feet (28 m2) of surface area. Such inlet fittings shall be designed and constructed to insure an adequate seal to the pool structure and shall incorporate a convenient means of sealing for pressure testing of the pool circulation piping. Where more than one injet is required, the shortest distance between any two required injets shall be a least 10 feet (3048 mm).
- Filters shall be equipped with a pressure gauge and an air release system.
- 14. Piping shall be schedule 40 PVC, NSFpw minimum.
- 15. Contractor shall install piping so as to not exceed the limits imposed by the tables shown.
- 16. All electrical design is by others.
- Minimum soil bearing capacity shall be a min. 2000 psf.
- Contractor shall submit completed total or simplified total dynamic head calculation worksheet with each permit application to the building dept.

Notes

- It a variable speed pump is used, use the max. pump flow in calculations.
- For side wall drains, use appropriate side wall drain flow as published by manufacturer.
- heertmanufacture's rame and approved maximum flow.
- See installation instructions for number of posts to be used.
- h-Flor strikes outlet coverigude must conform to most recent edition of ASME/ANSI A12.198 and be embossed with that edition approval.

Pump & Fiber make, model and location can not drange without stim iting a revised plans and TDH worksheet.

TDH For e
80
alculation h pump
ng ation
-8
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1

Check one.

Simplified Total Dynamic Head (S. Complete STDH Worksheet-Fill in blanks.

Total Dynamic Head (TDH)
Complete Program or other cales. F
required blanks on worksheet & att
calculations. . Fill in attach

CONSULTING ENGINEERS

PO BOX 357577 PH (352) 331-1513 AINESVILLE, FL 32606 FX (352) 505-3368

Schedule	Jule 40 PVC Pipe		Velocity-Feet	Per Second	nd	
Pipe Size	19	SON	8 fps	SC	10 fps	sd
- "1	16 gpm	. 0.25	21 gpm	0.66	28 gpm	0.94
1.5"	37 gpm	0.16	50 gpm	0.28	62 gpm	0
ń	62 gpm	0.15	82 gpm	0.25	103 gpm	0
2.5"	68 gpm	0.09	117 gpm	0.15	146 gpm	0
ယ္ခ	138 gpm	0.09	181 gpm	0.14	227 gpm	0.23
4"	234 gpm	0.06	313 gpm	0.10	392 gpm	0
ത്	534 gpm	0.04	712 gpm	0.04"	890 cipm	-

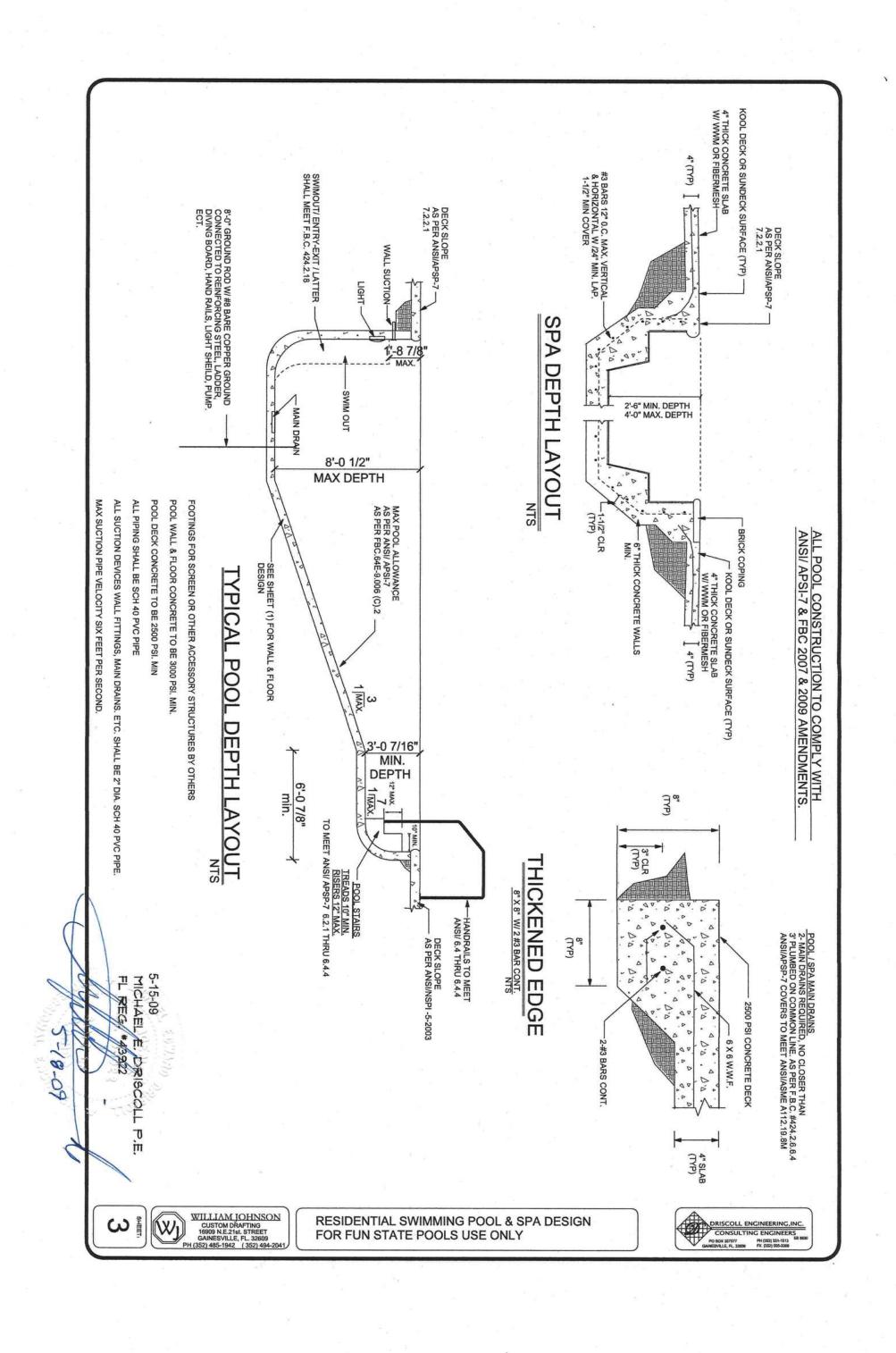
														P	SI	(PI	es	su	re	Ga	ug	e)															
မ္ပ	8	83	32	3	8	29	28	27	26	26	24	23	13	21	2	19	8	17	6	15	14	13	12	=	10	9	8	7	6	Ch	4	ω	N	-	0		
90.9	78.5	76.2	73.9	71.6	69.3	67.0	64.7	62.4	60.1	57.8	55.4	53.1	50.8	48.5	46.2	43.9	41.6	39.3	37.0	34.6	32.3	30.0	27.7	25.4	23.1	20.8	18.5	16.2	13.9	11.5	9.2	6.9	4.6	2.3	0.0	0	
88	8.08	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	0.00	57.7	55.3	53.0	50.7	48,4	46.1	43.8	41.5	39.2	36.9	34.6 6	32.2	29.9	27.6	25.3	23.0	20.7	18.4	16.1	13.8	15	9.1	6.8	4.5	4	Inches
87.6	85.3	0.88	80.7	78.4	76.1	73.8	71.5	69.2	8.99	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	Mercu
89.9	87.5	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	IIV (Vac
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	Inches Mercury (Vacuum Gaud
										.1 71.3																										12	cuum Gauge)
96.7	92,4	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	
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	6.66	22	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	29.5	27.3	25.0	22.7	20,4	18.1	16	
101.2	98.9	96.6	94.3	92.0	9.68	87.3	85.0	82.7	80.4	78.1	75.8	73.5	712	6.83	5.33	642	61.9	9.69	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	

CERTIFICATION I certify that to the best of my knowledge, these master plan, residential pool design requirements are in compliance with the 2007 Florida Building Code Residential with 2009 supplement, Chapter 41.

W

WILLIAM IOHNSON CUSTOM DRAFTING 16909 N.E.21st. STREET GAINESVILLE, FL. 32609

RESIDENTIAL SWIMMING POOL & SPA DESIGN FOR FUN STATE POOLS USE ONLY

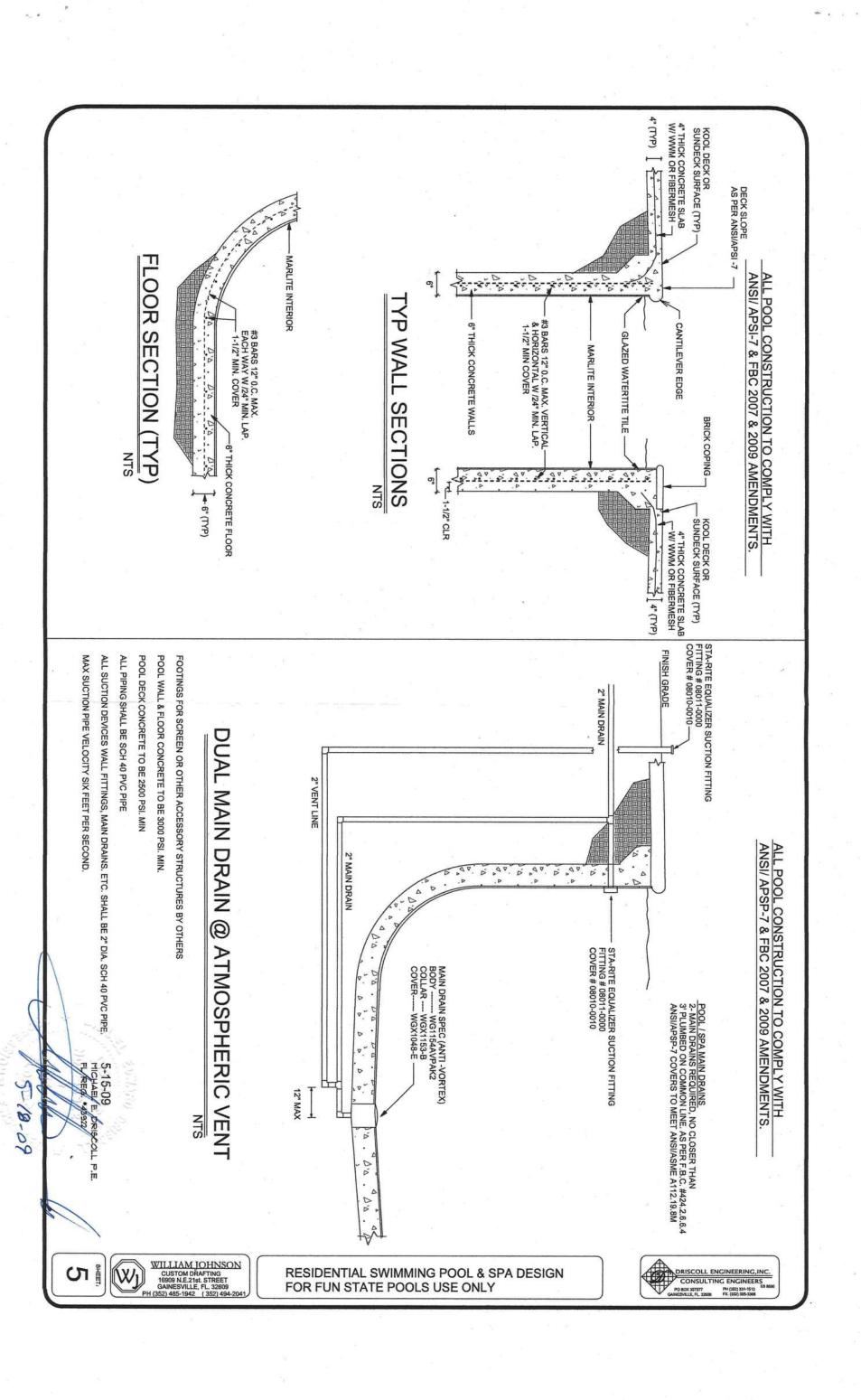


STEPS TYPICAL LAYOUT MAIN DRAIN ALL POOL CONSTRUCTION TO COMPLY WITH ANSI/ APSP-7 & FBC 2007 & 2009 AMENDMENTS. POOL WALL & FLOOR CONCRETE TO BE 3000 PSI. MIN. FOOTINGS FOR SCREEN OR OTHER ACCESSORY STRUCTURES BY OTHERS MAX SUCTION PIPE VELOCITY SIX FEET PER SECOND. ALL SUCTION DEVICES WALL FITTINGS, MAIN DRAINS. ETC. SHALL BE 2" DIA. SCH 40 PVC PIPE. ALL PIPING SHALL BE SCH 40 PVC PIPE POOL DECK CONCRETE TO BE 2500 PSI. MIN VENT EQUALIZER SUCTION-MAIN DRAIN 2" -VENT SUPPLY 1-1/2" POOL SWEEP 1-1/2" SKIMMER 2" MAIN DRAIN 2" ELECTRICAL DISCONNECT HEATER MAIN DRAINS SHALL MEET FBC 2007 # 424.2.6.6.4 & ANSI/APSP-7 MAIN DRAIN COVERS SHALL MEET ASME A112.19.8.M 2007 ALL ELECTRICAL DESIGN BY OTHERS ANY ELECTRICAL COMPONENTS SHOWN ON DRAWINGS ARE FOR DIAGRAMATICAL PURPOSE ONLY. 5-15-09 MICHAEI FILTER -18-09 TIME CLOCK σ, πj DRISCOLL ENGINEERING, INC.

CONSULTING ENGINEERS

PO BOX 307577 PH (362) 331-15(3) EIB 509

GANEEVILE, PL. 20006 PX. (362) 505-3066 WILLIAM JOHNSON
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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:

Minimum Flow Rate Required: 35 gpm Per Skimmer (Required: 1
Rate Required: 35 apm Per Skimmer (Rec
Required: 35 apm Per Skimmer (Rec
35 apm Per Skimmer (Rec
apm Per Skimmer (Rec
Per Skimmer (Rec
Skimmer (Rec
Rec
uired:
_
1 skimmer per 800 sf of surf. area)
per
800
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Surf.
greg)

- 1. Calculate Pool Volume: 373 (Surl. Area) × 4.5 (Avg Depth) x 7.48 (gal./cubic foot) = 19355
- Determine preferred Turnover Time in hours: _ _ x 60 (min. / hr.) =
- 3. Determine Max Flow Rate: 19355 / 480 (Turnover Mins) (Pool Flow Rate)
 4. Spa Jets: 5 x 20 gpm per jet = 100 (Hours) 40.32 + = ...

 (Pool Flow Rate) (Feature Flow Rate) (System 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) (Total Jet Flow Rate)

Determine Pipe Sizes:

Return Piping to be Branch Piping to be Trunk Piping to be 12 inch to keep velocity @ inch to keep velocity @ 6 fps max. at inch to keep velocity @ 8 fps max. at 10 fps max. at 103 82 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: 0
- Friction loss (in suction pipe) in inch pipe per 1 ft. @ 8 _gpm = :10 16 (from pipe flow/friction loss chart)
- Friction loss (in return pipe) in (Ft of head/) it of Pipe) (IDH Suct Pipe)
 x . 16 = 1.60 6 12 1.0 inch pipe per 1 ft. 4 103 gpm =

(Length of Return Pipe)

(Ft of head/1

ft of Pipe)

- TDH in Piping: 2.60 7
- Heater loss in TDH (from heater data sheet): Filter loss in TDH (from filter data sheet): 7.80
- Total all other loss: 44.52

Total Dynamic Head (TDH):

Selected Pump and Main Drain Cover:

STA FLITE VS-3050
PEEGYAU-20AL
(Fulling model and size in Horsepower)

Pump selection

using pump curve for TDH & System Flow Rate

Main Drain Cover APM STAR 32CHELXXX

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

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

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

AQUASAR SECTRLXXX

suction outlets @ suction outlets @ gpm max.

channel drain @

316

gpm w/

N

ports (see note

flow

(see note 3).

gpm max. flow (see note 2).

TDH Calculation Options For each pump

otal Head In Feet Conversion Chart

Inches Mercury (Vacuum Gauge)

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.

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

(from pipe flow/friction loss chart)

	- 13 - 18	N .	N	p 15			v 10	. 10				2 17	P	SI	(Pr	es	su	ге	G	αu	ge)												
35	¥	IJ	32	31	8	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	=	13	12	=	10	9	8	7	6	5	+	u	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	13.9	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
811	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
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	18.4	16.1	43.8	41.5	39.2	36.9	34.6	32.2	29.8	27.6	25.3	23.0	20.7	18.4	16.1	13.8	11.5	9.1	6.8	1.5
87 £	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	18.4	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
800	87.6	85.3	83.0	80.7	78.3	76.0	73.7	71.4	69.1	8.33	84.5	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
07 3	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
1 10	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	413	39.0	36.7	34.3	32.0	29.7	27.4	25.1	22.8	20.5	18.2	15.9	13.6
06.7	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
080	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	₹3.5	41.2	38.9	36.6	34.3	31.9	29.6	27.3	25.0	22.7	20.4	18.1
1010	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	4.4	41.1	38.8	36.5	34.2	31.5	29.6	27.3	25.0	22.7	20.

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

		004.	710 000	000		ς.
0.07		0.05	313 gpm	0.03		٠.
0.10		0.07	181 gpm	0.04		3.
0.13		0.09	117 gpm	0.05	88 gpm	2.5
0.16		0.10	82 gpm	0.06		2.
0.21	62 gpm	0.14	50 gpm	0.08	37 gpm	5
0.35		0.23	21 gpm	0.14	16 gpm	
Pa .	10	8	8 fps	pe .	6 f	Pipe Size
	8.	Feet Per Second	Velocity - Fee			
				VC Pipe	redule 40 PVC Pipe	Schedule
			Per Foot	on Loss	and Fricti	Flow s

This form is the property of funstatepoolsinc. and may only be used in conjunction with my Residential Swimming Pool Specification Drawings or by others with my written permission.

Date

TILLIS M. GIBSON 352-332-7665 5/19/09 CACOGAIIG

> Fun State Inc. tillis@funstatepoolsinc.com Fax (352) 332-0266

Voice (352) 332-7665

Sloo

Tillis Gibson

www.funstatepoolsinc.com

332 POOL

2

Swimming Pool Specification For: Mark Athour Moser 3601 N.W. 97th Blvd. • Gainesville, Florida 32606

Mrs City, FL; 32025 S.E. TOKTOISE CT.

Scale: None

PROFESSIONAL SERVICES
DRISCOLL ENGINEERING, INC.

PO BOX 357577 Gainesville, Florida 32606 (352) 331-1513 CA. 8690

PLANS AND SPECIFICATIONS

The plans and specifications presented herein are only for the anticipated construction at the locations shown. If consruction plans change, the Design Professional should be notified so the plans and specifications can be re-valuated. The Design Professional should be given the opportunity to review final plans and specifications to set if the intent of the plans and specifications that sheen followed and/or if suppliment details and recommendations are needed. The Design Professional warranties that the plans and specifications contained herein, have been prepaired in accordance with generally accepted professional engineering practice. No other warranties

CORPORATE PROTECTION
It is understand and agreed that the Design Professional's Basic Services under this agreement do not include project observation or review of the Contractors

or any other construction phase services will be provided by the client. The client assumes all responsibility for interpretation of the contractors documents and for construction observation and supervision and walves any deims against th Design Professional that may in any way connected thereto.

In addition, The client agrees, to the fullest extent permitted by law, to indemnify and hold the Design Professional harmless from any loss, claim or cost including reasonable attorney's lees and cost of defence, arising or resulting from the performance of such services by otherperson or entities and from any and all claims arising from modifications, indefinications, inderpretations, adjustments or changes made to contract documents to reflect changed field or other conditions, except for claims arising from the sole negligence or willful misconduct thereto.

OWNERSHIP OF INSTRUMENTS OF SERVICE

All reports, plans, specifications, computer fles, field data, notes and other documents and instruments prepared by the Design Professional as instruments of service shall remain property of the Design Professional. The Design Professional shall retain all common law, statutory and other reserved rights, including the copyright thereto

DEFECTS IN SERVICE

The client shall promptly report to the Design Professional any defects or suspected defects in the Design Professionals work or services of which the client becomes ware, so that the Design Professional may take measures to minimize the consequences of such defect. The client warrants that he or she will impose similar notification requirement on all contractors in his or her client/contract and shall require all subcontractors at any level to contain a like requirement. Failure by the client's contractors or subcontractors to notify the Design Professional, shall relive the Design Professional of the cost of remedying the defects above the sum such remedy would have cost had prompt notification been given.

Inasmuch as the remodeling and/or rehabilitation of an existing building requires certain assumptions be made regarding existing conditions, and because some of these assumptions may not be verifiable without expending additional sums of money or destroying otherwise adequate serviceable portions of the building. The client agrees, to the fullest extent permitted by law, to indemnify and hold the Design Professional harmless in any claim, liability or cost (Including attorney's tess and cost of defense) for injury oe economoc loss arising out of professional services provided under this agreement, except only those damages, liability, or cost attributable to the sole negliger or willful misconduct of the Design Professional.

CONCRETE CONSTRUCTION NOTES

- CONCRETE WORK SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI-318) AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE" (ACI-301) LATEST EDITION.
- 2. CONCRETE MIX "A" SHALL BE USED FOR FOUNDATION AND WALLS.FOTTINGS AND INTERIOR SLABS ON GRADE, CONCRETE MIX "S" SHALL BE USED FOR EXTERIOR SLABS, CURBS AND ALL OTHER EXTERIOR CONCRETE, ALL CONCRETE MIXES MIXES SHALL CONTAIN A WATER- REDUCING ADMIXTURE CONFORMING TO ASTM C-494 AIR-ENTRAINING ADMIXTURE SHALL CONFORM TO ASTM C-260

MIX B

ULTIMATE COMPRESSIVE STRENGTH @ 28 DAYS
SLUMP RANGE
4*+/-1*
MAXIMUM AGGREGATE
1* ENTRAINED AIR DRY WEIGHT PER CUBIC FT. NONE 150# 5-7% 150# 3000 psi. 3"+/-1" 3000 psi.

- 3. ALL CONCRETE SHALL CURE FOR A MINIMUM OF 28 DAYS. IF FORMS FOR VERTICAL SERFACES ARE REMOVED PRIOR TO THE END OF THE CURING PERIOD , SPRAY SURFACES WITH LIQUID MEMBRANE CURING COMPOUND.
- 4. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 40 (F=40ksi.) LAP CONTINUOUS BARS FOR TENSION LAP SPLICE PER ACI-318 UNLESS OTHERWISE NOTED. PROVIDE CORNER BARS OF SAME SIZE AND SPACING AS HORIZONTAL WALL REINFORCEMENT COVER FOR CONCRETE REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI-318, PARAGRAGH 7.7
- 5. WELDED WIRE FABRIC SHALL BE USED IN DRIVEWAY SLABS ON GRADE LAP SHEETS ON MESH SPACE AND WIRE TIE ADJACENT SHEETS TOGETHER SECURELY, CUT ALTERNATE REINFORCMENT AT CONTROL JOINTS.
 6. ALL SLABS ON GRADE SHALL HAVE CONSTRUCTION CONTROL JOINTS NOT TO EXCEED 15'-0" SPACING, UNLESS OTHERWISE NOTED.
- 7. ALL SIDEWALKS SHALL HAVE CONSTRUCTION OR CONTROL JOINTS NOT TO EXCEED 5:-0" SPACING U.N.O.

MASONRY CONSTRUCTION NOTES

- I, CONCRETE MASONRY WORK SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (ACI 530-02/ ASCES-02) AND "SPECIFICATIONS FOR MASONRY STRUCTURES: (ACI 530.1-0Z/ASCES-03).
- CONCRETE MASONRY UNITS SHALL BE TYPE 1 AND COMPLY WITH "STANDARD SPECIFICATIONS FOR HOLLOW LOAD BEARING CONCRETE MASONRY UNITS (ASTM C90.90)
 THE MINIMUM NET AREA COMPRESIVE STRENGTH OF MASONRY (fm) AS DETERMINED BY THE UNIT STRENGTH METHOD SHALL BE 1500 PSI.
- 4. MORTAR SHALL CONFORM TO ASTM C270. TYPE M MORTAR SHALL BE USED UNLESS OTHERWISE NOTED, TYPE S MORTAR SHALL BE USED WITH MASONRY IN CONTACT WITH EARTH.
- 5. MASONRY COLUMN REINFORCEMENT SHALL HAVE #2 TIES IN THE BED JOINTS AT 8" O.C, UNLESS OTHERWISE NOTED.
- GROUT FOR FILLING BLOCK CORES AND BOND BEAMS SHALL HAVE A MINUMUM COMPRESSIVE STRENTH OF 3000 PSI. AT THE AGE OF 28 DAYS.
- , PROVIDE CONTINUOUS HORIZONTAL JOINT REINFORCEMENT AT 16" O.C. AND IN THE FIRST COARSE ABOVE AND BELOW OPENINGS, UNLESS OTHERWISE NOTED.



CONSULTING ENGINEERS
PO BOX 357577
GANESVILLE, FL 32806
FX, (552) 505-3306

PH (352) 331-1513 FX. (352) 505-3366

PREPARED FOR

CLIENT & LOCATION:

266 S.E. TOROKE LAKE CITY, FL MOSER

3601 N.W. 97th BLVD **FUNSTATE POOLS** GAINESVILLE, FL CONTRACTOR:

352-332-7665



ANSI/ APSP-7 & FBC 2007 & 2009 AMENDMENTS ALL POOL CONSTRUCTION TO COMPLY WITH

SHEET:1 PROFESSIONAL SERVICES, GENERAL INFORMATION SHEET:2 GENERAL NOTES & CHARTS

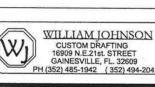
SHEET:4 SHEET:3 DETAIL DRAWINGS **DETAIL DRAWINGS**

SHEET:5 DETAIL DRAWINGS SHEET:6 PLANS

WITH REQUIREMENTS OF THE 2007 FLORIDA BUILDING CODE RESIDENTIAL AND THE 2009 AMENDMENTS TO CHAPTER 41 TO TH THESE DETAILS HAVE BEEN PREPARED IN COMPLIAN E BEST OF MY KNOWLEDGE

5-15-09 MICHAEL T REG. #43922 DRISCOLL Ū,Ū

SHEET,



MOSER

DS09-109

266 S.E. TORTOK LAKE CITY, FL

DRISCOLL ENGINEERING, INC.
Post Office Box 357577
Gainesville, Florida 32635-7577
Phone (352) 331-1513 Fax (352) 505-3366 EB#8690

GENERAL NOTES FOR RESIDENTIAL SWIMMING POOLS

- Design, construction and workmanship shall be in conformity with the requirements of the 2007 Florida Building Code with 2009 supplement, Chapter 41, ANSI/NSPI 3; ANSI/NSPI 4; ANSI/NSPI 5; and ANSI/NSPI 6; ANSI/Apsp-7.
- Every swimming pool shall be equipped complete with approved mechanical equipment consisting of filter, pump, piping valves and component parts.
- tubing. Pool piping shall be designed so the water velocity will not exceed 10 feet per second (3048 mm/s) for pressure piping and 8 feet per second (2438 mm/s) for suction piping, except that the water velocity shall not exceed 8 feet per second (2438 mm/s) in copper
- 4. All pool and spa suction inlets shall be provided with a cover that has been tested and accepted by a recognized testing facility and comply with ANSI/ASME A112.19.8M, Suction Fittings for Use in Swimming Pools, Spas, Hot Tubs, and Whirlpool Bathtub

- 001. C02. Surface Skimmers
- mm2) or greater Grate or grates having a minimum area of 144 square inches (.09
- 5. A minimum of two suction inlets shall be provided for each pump in the suction inlet system, separated by a minimum of 3 feet (914 mm) or located on two different planes; i.e., one on the bottom and one on the vertical wall, or one each on two separate vertical walls. These suction inlets shall be plumbed such that water is drawn through them simultaneously through a common line to the pump. When a skimmer is used in conjunction with a single main outlet to meet the requirements of this section, the common suction line must be in compliance with Section R4101.6.6.3 such that a vacuum cannot suction line must be in compliance with Section R4101.6.6.3. be drawn on any single main outlet or skimmer.
- Pumps shall be installed in accordance with manufacturer's recommendations.
- corrosion-resistant materials. Pump impellers, shafts, wear rings and other working parts shall be of
- All pool piping shall be tested and proved tight to the satisfaction of the administrative authority, under a static water or air pressure test of not less than 35 pounds per square inch (psi) (241 kPa) for 15 minutes.
- Exception: Circulating pumps need not be tested as required in this section.
- All pools whether public or private shall be provided with a ladder or steps in the shallow end where water depth exceeds 24 inches (610 mm). In private pools where water depth exceeds 5 feet (1524 mm), there shall be ladders, stairs or underwater benches/swim-outs in the deep end.

recessed or located in a corner. Where manufactured diving equipment is to be used, benches or swim-outs shall be

- □ Exception: In private pools having more than one shallow end, only one set of steps is required. A bench, swim-out or ladder may be used at all additional shallow ends in lieu of an additional set of steps.
- 10. The entire design of matched components shall have sufficient capacity to provide a
- complete turnover of pool water in 12 hours or less.

 11. Approved surface skimmers are required and shall be installed in strict accordance with the manufacturer's installation instructions. Skimmers shall be installed on the basis of one per 800 square feet (74 m2) of surface area or fraction thereof, and shall be designed for a flow rate of at least 25 gallons per minute (gpm) (1.6 L/s) per skimmer.
- 12. Approved manufactured inlet fittings for the return of re-circulated pool water shall be provided on the basis of at least one per 300 square feet (28 m2) of surface area. Such inlet fittings shall be designed and constructed to insure in adequate seal to the pool structure and shall incorporate a convenient means of sealing for pressure testing of the pool circulation piping. Where more than one inlet is required, the shortest distance between any two required inlets shall be a least 10 feet (3048 mm).
- Filters shall be equipped with a pressure gauge and an air release system.
- 14. Piping shall be schedule 40 PVC, NSFpw minimum.
- 15. Contractor shall install piping so as to not exceed the limits imposed by the tables
- 17. Minimum soil bearing capacity shall be a min. 2000 psf. All electrical design is by others
- Contractor shall submit completed total or simplified total dynamic head calculation worksheet with each permit application to the building dept.

Notes:

- I a variable speed pump is used, use the max, pump flow in calculations.
- For side wall drains, use appropriate side well drain flow as published by manufacturer.
- kset manufacture's rune and approved maximum flow.
- See installation instructions for number of ports to be used.

h-Floar suction outlet coverlynte must conform to most recent edition of ASMEPANSI Ali 2.198 and be embossed

Pump & Filter make, model and location can not change without submitting a revised plans and TDH worksheet.

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71 Simplified Total Dynamic Head (STDH) Complete STDH Worksheet-Fill in all Checkone

blanks.

Complete Program or other cales. Fill in required blanks onworksheet & attach calculations. Total Dynamic Head (TDH)

DRISCOLL ENGINEERING, INC.

CONSULTING ENGINEERS
PO BOX 357577

dule 4	oule 40 PVC Pipe		Velocity Foot	East Der Cacono	2	
Size	sof 6	SC	8 fps	os	10 fps	S
-	16 gpm		21 gpm	0.66	28 gpm	0.94
Ş	37 gpm	0.16	50 gpm	0.28	62 gpm	0.48
_	62 gpm	0.15	82 gpm	0.25	103 gpm	0.40
OI.	68 gpm	0.09	117 gpm	0.15	146 gpm	0.23
-	138 gpm	0.09	181 gpm	0.14	227 gpm	0.23
_	234 gpm	0.06	313 gpm	0,10	392 gpm	0.15
	534 gpm	0.04	712 gpm	0.04	890 com	n 10

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9.08	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
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
85,4	83.1	80.7	78.4	76.1	73.8	71.5	692	6.33	64.6	62.3	0.09	57.7	55.3	53.0	50.7	48,4	46.1	43.8	41.5	392	36.9	34.6	322	29.9	27.6	25.3	23.0	20.7	18.4	16.1	13.8	15	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	8.88	64.5	62.2	59,9	57.6	55.3	53.0	50.7	48.4	46.1	43.7	414	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
9.9	87.5	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	4 6 8 10 12
22.4	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
96.7	22.4	92.0	89.7	87.4	85.1	82.8	80.5	78.2	75.9	73.6	71.3	69.0	66.6	£ ω	62.0	59.7	57.4	56.1	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
										75.8																										
101.2	6.86	96.6	94.3	92.0	9.68	87.3	0.58	82.7	80.4	3 78.1	75.8	73.5	712	6.83	6.5	64.2	61.9	59.6	57.3	55.0	52.7	50.4	48.1	45.B	43.4	41.1	38.8	36.5	342	31.9	29.6	27.3	25.0	22.7	20.3	18

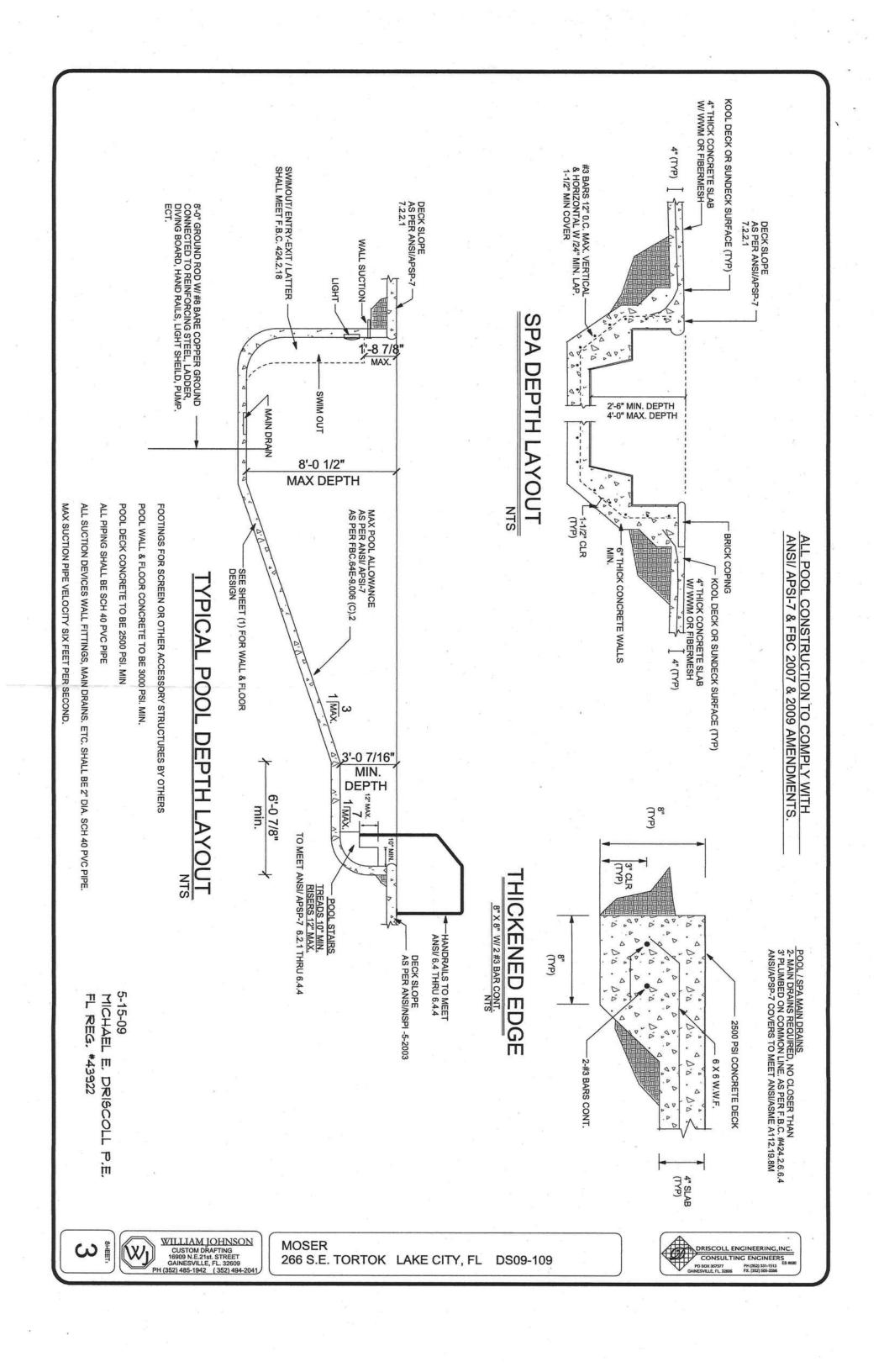
2009

CERTIFICATION

I certify that to the best of my knowledge, these master plan, residential pool design requirements are in compliance with the 2007 Florida Building Code Residential with supplement, Chapter 41.

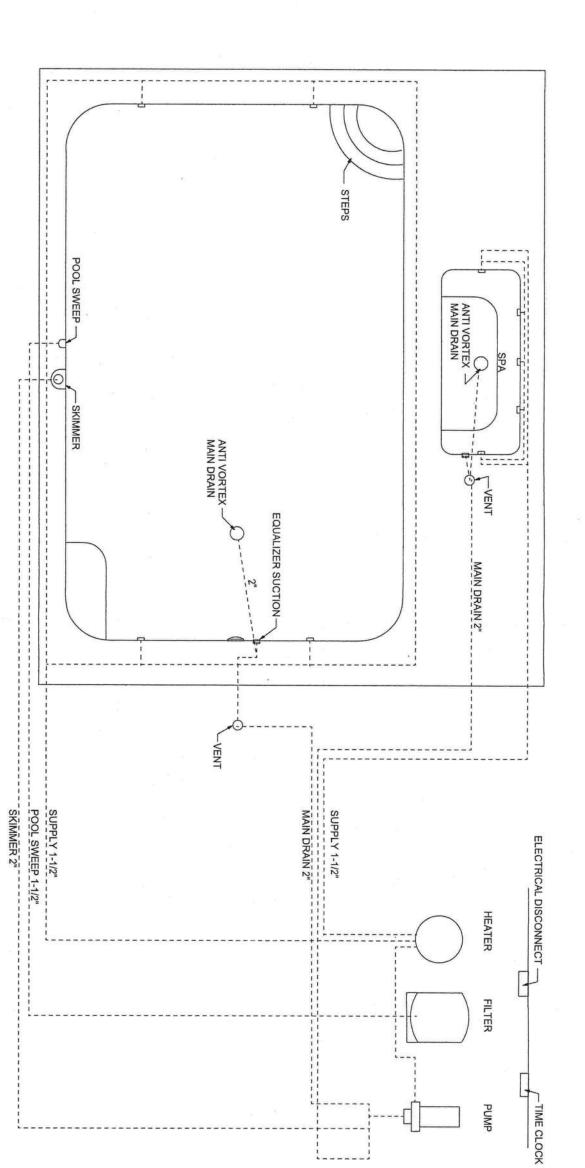
REG. *43922





ALL POOL CONSTRUCTION TO COMPLY WITH ANSI/ APSP-7 & FBC 2007 & 2009 AMENDMENTS.

MAIN DRAINS SHALL MEET
FBC 2007 # 424.2.6.6.4 & ANSI/APSP-7
MAIN DRAIN COVERS SHALL MEET
ASME A112.19.8.M 2007



POOL WALL & FLOOR CONCRETE TO BE 3000 PSI. MIN. FOOTINGS FOR SCREEN OR OTHER ACCESSORY STRUCTURES BY OTHERS

POOL DECK CONCRETE TO BE 2500 PSI. MIN

ALL PIPING SHALL BE SCH 40 PVC PIPE

ALL SUCTION DEVICES WALL FITTINGS, MAIN DRAINS. ETC. SHALL BE 2" DIA. SCH 40 PVC PIPE.

MAX SUCTION PIPE VELOCITY SIX FEET PER SECOND.

ALL ELECTRICAL DESIGN BY OTHERS ANY ELECTRICAL COMPONENTS SHOWN ON DRAWINGS ARE FOR DIAGRAMATICAL PURPOSE ONLY.

5-15-09 MICHAEL E. DRISCOLL FL REG. *43922 μį Ω



MOSER 266 S.E. TORTOK LAKE CITY, FL DS09-109



