

# My Favorite Pool Builder

www.myfavoritepoolbuilder.com

steve@mfblc.com

CPC1459058

Cell 386-965-0066

## Swimming Pool Specification For:

David Brotherton

1044 NE Blackberry Cir Lake City, FL 32055

Prop ID 17-3S-16-02168-121

352-231-2401

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1956 SW Main Blvd.  
Lake City, FL 32025

Toll – Fax 800-286-7929  
Lake City 386-269-3307  
Gainesville 382-519-3125  
Jacksonville 904-248-4196  
Valdosta, Ga. 229-469-9525  
Tallahassee 850-296-3622



PLAN EXPIRES 1 YEAR FROM THE SIGNATURE DATE OR THE EFFECTIVE DATE OF A MAJOR FLORIDA BUILDING CODE CHANGE WHICHEVER IS SOONER <u>2/21/2021</u>	My Favorite Pool Builder, Inc. 1956 SW Main Blvd. Lake City, FL 32025 (386) 269-3304 OF (386) 965-0066 Cell CPC1459058
Swimming Pool Specification For: David Brotherton 1044 NE Blackberry Cir Lake City, FL 32055 Prop ID 17-3S-16-02168-121	Scale: None Rev Page 1 of 8



DESIGN CRITERIA:

APPLICABLE CODES, REGULATIONS & STANDARDS

1. THE 2020 FLORIDA BUILDING CODE, SPECIFICALLY CHAPTER 16 STRUCTURAL DESIGN, CHAPTER 20 ALUMINUM & CH. 23 WOOD.
2. AA ASM 35 & SPECIFICATIONS FOR ALUMINUM STRUCTURES, PART 1-A OF THE ALUMINUM DESIGN MANUAL PREPARED BY THE ALUMINUM ASSOCIATION, INC. WASHINGTON D.C. 2005 ED.
3. ASCE 7-16 & SE17
4. NDS NATIONAL DESIGN SPECIFICATION FOR WOOD.
5. ACI318 CONCRETE REFERENCE MANUAL.

WIND LOADS

1. BUILDING OCCUPANCY CATEGORY, PARAGRAPH 1604.5 & TABLE 1604.5: RISK CATEGORY 1.
2. BASIC WIND SPEED, TABLE 1609C, STATE OF FLORIDA DEBRIS REGION & BASIC WIND SPEED, PARAGRAPH 1609.3.1 & TABLE 1609.3.1 EQUIVALENT BASIC WIND SPEED: 110
3. WIND LOADS PER FBC TABLE 2002.4 (MWFRS) C  
VULT = 110 MPH & EXPOSURE = C

FOR 20 X 20 X 0.013" MESH SCREEN  
HORIZONTAL PRESSURES ON WINDWARD SURFACES = 24 PSF  
HORIZONTAL PRESSURES ON LEeward SURFACES = 18 PSF  
VERTICAL PRESSURES ON SCREEN SURFACES = 7 PSF  
VERTICAL PRESSURES ON SOLID SURFACES = 19 PSF

FOR 18 X 14 X 0.013" MESH SCREEN, APPLIED FACTOR = .88  
FOR ALLOWABLE STRESS DESIGN, APPLIED FACTOR = .6

FOOTING SIZE EXISTING CONCRETE SLAB. NO ADDITIONAL FOOTING OR FOUNDATION SYSTEM IS REQUIRED BY THE PROPOSED CONSTRUCTION IF A MINIMUM 4" CONCRETE SLAB IS PROVIDED IN SOUND CONDITION, FREE FROM STRUCTURAL CRACKING, SPALLING & OTHER DETERIORATION.

MISCELLANEOUS

1. SCREENED ENCLOSURES CONTAINING SWIMMING POOLS SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF FBC R4501.17 RESIDENTIAL SWIMMING BARRIER REQUIREMENTS.
2. ALUMINUM ADDITIONS ARE NOT TO BE INSTALLED ON A MANUFACTURED HOME, TRAILER HOME, OR PRE-FAB HOME. IF THE EXISTING STRUCTURE IS ONE OF THESE, A SEPARATE 4TH WALL SUPPORT SYSTEM IS SO TO BE ENGINEERED SO THAT NO ADDITIONAL LOADING IS PLACED ON THE MANUFACTURED HOME.

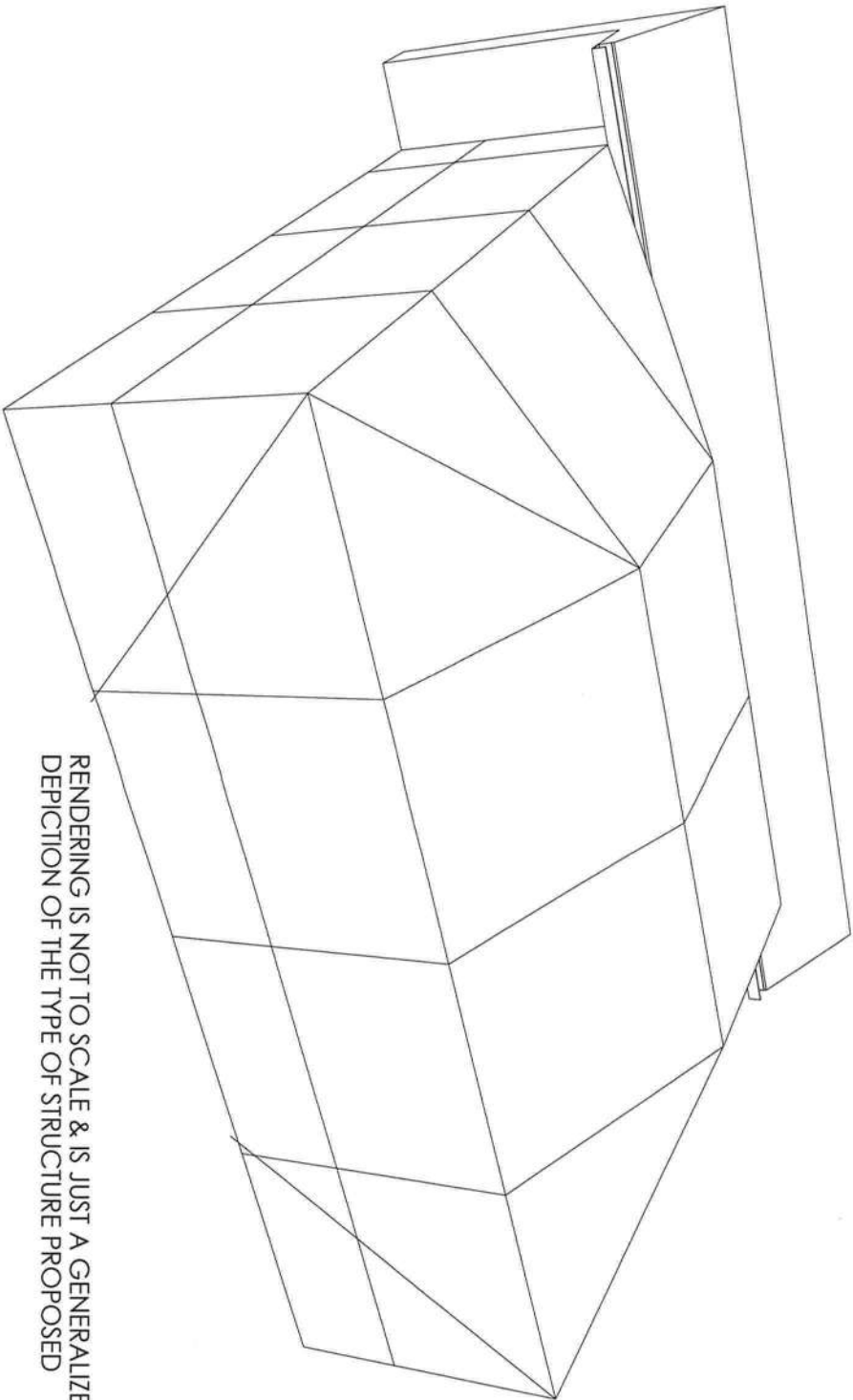
FASTENER SPECIFICATIONS

1. FASTENERS ARE REQUIRED TO BE SAE GRADE 2 OR BETTER ZINC PLATED. (CONCRETE ANCHORS ARE TO BE TAPCONS OR BETTER, INSTALLED TO MFG. SPECIFICATIONS)
2. IT IS THE OWNERS RESPONSIBILITY TO MAINTAIN THE SCREENS, FASTENERS AND SCREENS TO MANUFACTURING SPECIFICATIONS.
3. WHERE WOOD DECK IS PRESENT USE 1/4" X 3-1/2" GALV. LAG SCREWS IN LIEU OF MASONRY ANCHORS, UNLESS OTHERWISE SPECIFIED.
4. 1"x2" NON STRUCTURAL MEMBERS ATTACHED TO HOST  
A. FOR MASONRY/CONCRETE APPLICATION USE GALVANIZED 1/4" X 2-3/4" TAPCONS OR EQUAL AT 24" O.C. AND 6" FROM ENDS  
B. FOR WOOD APPLICATION USE #14 X 2-3/4" WOOD SCREW AT 24" O.C. AND 6" FROM ENDS.  
C. FOR ALUMINUM APPLICATION USE #10 X 1-1/2" SMS OR TEK SCREW AT 24" O.C. AND 6" FROM ENDS  
D. WHERE 1"x2" INSTALLED THROUGHOUT AN "OPEN VIEW" SPACING SHALL BE REDUCED TO 18" O.C. AND 6" FROM ENDS

RESPONSIBILITIES

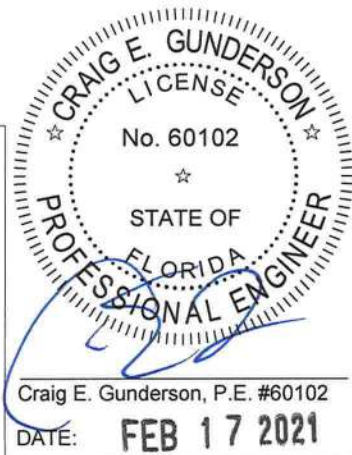
1. ALL SITE WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN ACCORDANCE WITH APPLICABLE BUILDING CODES, LOCAL ORDANANCES, AND THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES.
2. FOR FASTENERS WHICH ARE NOT VISIBLE AFTER INSTALLATION, THE CONTRACTOR SHALL VERIFY AND ENSURE INSTALLATION HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS AND IN ACCORDANCE WITH THE ATTACHED DETAILS.
3. FOR "PICTURE WINDOW" MODIFICATION TO EXISTING SCREEN ENCLOSURES, ALL OTHER "EXISTING SCREEN ENCLOSURE" FEATURES ARE TO MEET THE TYPICAL DETAILS AS PROVIDED IN THESE DETAILS. CONTRACTOR IS TO VERIFY & ASSURE EXISTING SCREEN ENCLOSURE IS STRUCTURALLY SOUND.
4. CONTRACTOR TO PROVIDE NOA'S & INSTALL ALL MATERIALS AS PER MANUFACTURER'S SPECIFICATIONS
5. INTEGRITY OF EXISTING/ HOST STRUCTURE SHALL NOT BE COMPROMISED WITH THE ATTACHMENT OF THE PROPOSED STRUCTURE.

SHEET NO.	DRAWING INDEX
S/01	GENERAL NOTES
S/02	PLAN/ ELEVATIONS
S/03	DETAILS
S/04	DETAILS

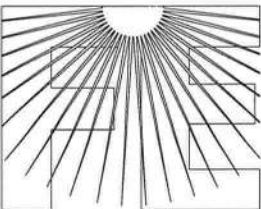


RENDERING IS NOT TO SCALE & IS JUST A GENERALIZED  
DEPICTION OF THE TYPE OF STRUCTURE PROPOSED

PROPOSED MANSARD SCREEN ENCLOSURE  
SEE FOUNDATION DESIGN SHEET-01



FLORIDA ENGINEERING LLC  
4161 TAMiami TRAIL, UNIT 101  
PORT CHARLOTTE, FLORIDA 33952  
(941) 391-5980  
www.flengineeringllc.com



PROJECT NO. 2104120

CA CERT. #30782

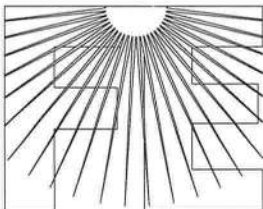
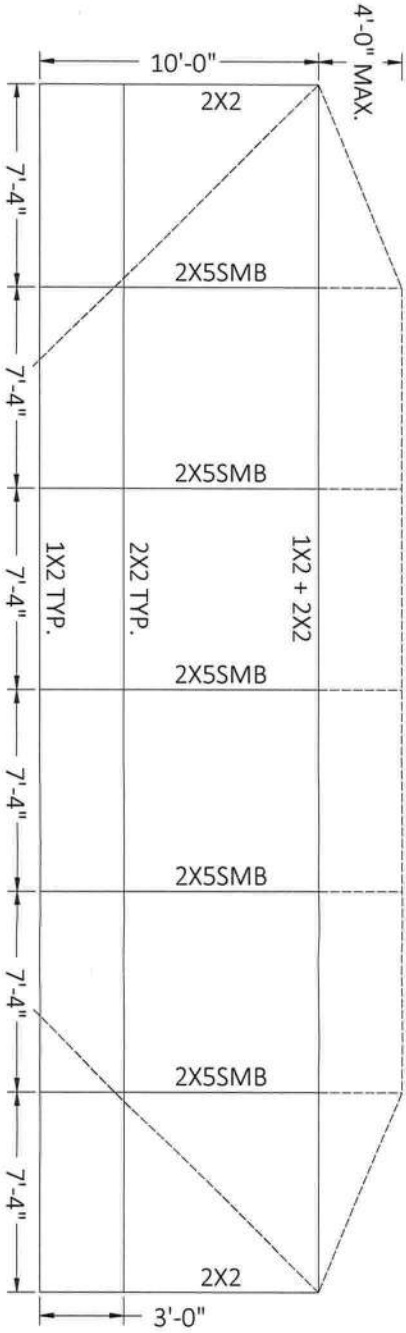
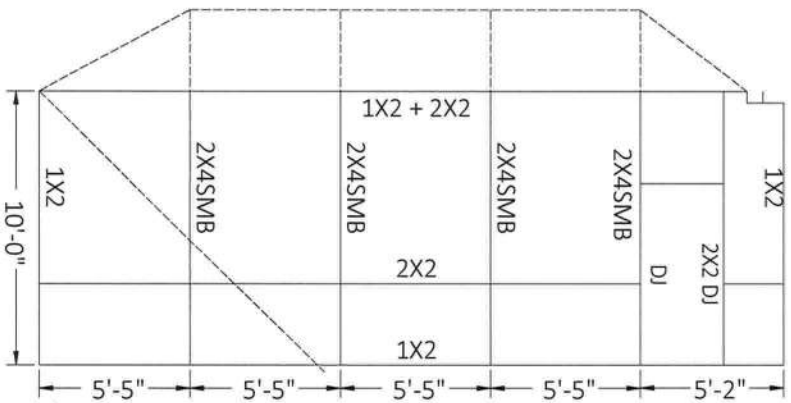
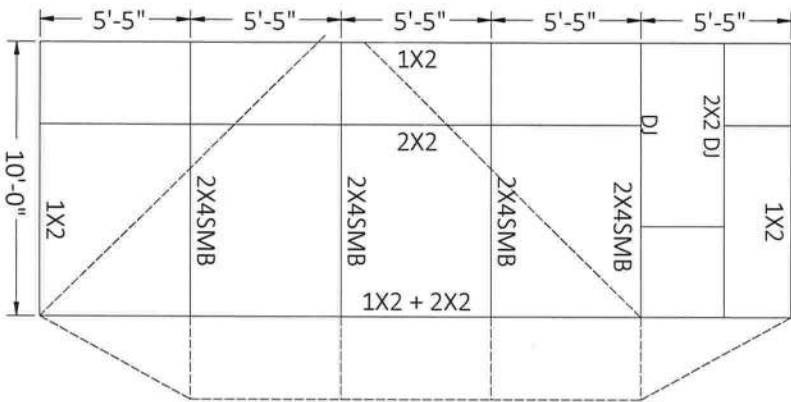
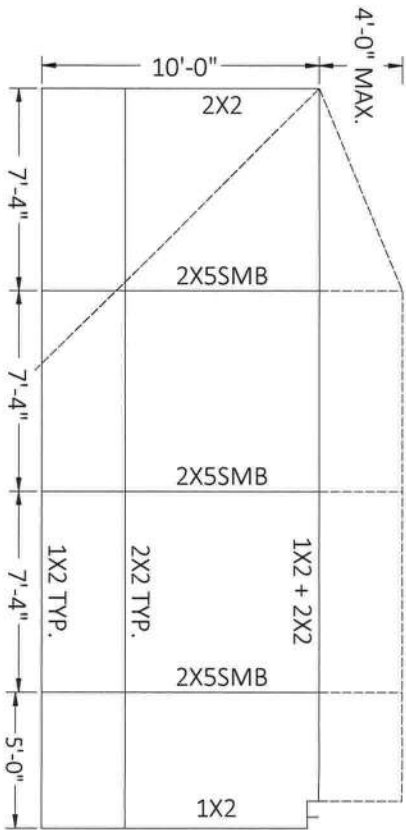
CONTRACTOR:  
MY FAVORITE POOL BUILDER

PROJECT ADDRESS:  
BROTHERTON  
1044 NE BLACKBERRY CIR  
LAKE CITY FL

DESIGN DATE:	02/12/2021	DATE
REVISION 1:		
REVISION 2:	DATE	SHEET:
DRAWN BY:	ST	01
SCALE:	NTS	



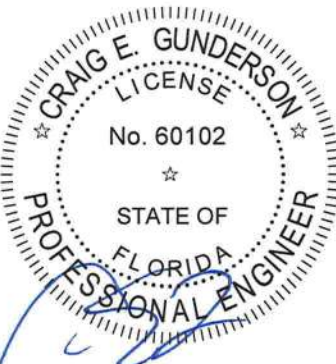
- ALUMINUM SPECIFICATIONS
1. ALUMINUM EXTRUSIONS SHALL BE 6005 T5 ALLOY UNLESS OTHERWISE NOTED.
  2. ALL SELF MATING BEAM SECTIONS ARE TO BE STITCHED WITH #12 SCREWS 6" FROM ENDS & 24" CENTER TO CENTER.
  3. ROOF BRACING SHALL BE A MINIMUM 2"x2"x.050".
  4. THE MINIMUM NORMAL THICKNESS OF PROTECTOR PANELS (KICKPLATES) SHALL BE AN INDUSTRY STANDARD OF 0.024 INCHES.
  5. VINYL AND ACRYLIC PANELS SHALL BE REMOVED WHEN WIND SPEEDS EXCEED 75 MPH PER FBC.
  6. SCREEN MATERIAL SHALL BE 18/14 SCREEN UNLESS APPROVED BY FLORIDA ENGINEERING, LLC.
  7. 1"x2" & 1"x3" NON STRUCTURAL MEMBERS MAY BE USED INTERCHANGEABLY.
  8. DOOR LOCATION MAY BE RELOCATED BY CONTRACTOR IN THE FIELD.



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PROJECT NO. 2104120

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Craig E. Gunderson, P.E. #60102  
DATE: **FEB 17 2021**

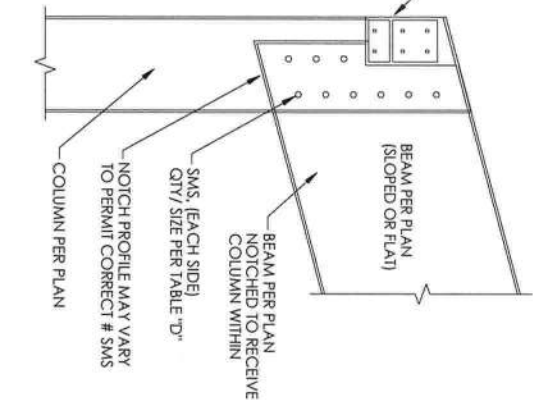
CONTRACTOR:  
**MY FAVORITE POOL BUILDER**

PROJECT ADDRESS:  
**BROTHERTON  
1044 NE BLACKBERRY CIR  
LAKE CITY FL**

DESIGN DATE: 02/12/2021  
REVISION 1: DATE  
REVISION 2: DATE  
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SCALE: NTS  
SHEET: **02**



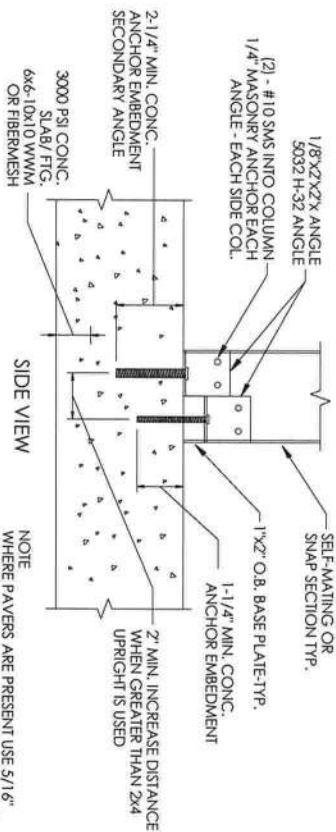
BEAM	QTY/ SIZE EACH SIDE
2x3	(6)/ #10
2x4	(8)/ #10
2x5	(8)/ #10
2x6	(9)/ #10
2x7	(11)/ #10
2x8	(12)/ #12
2x9	(14)/ #12
2x10	(14)/ #12



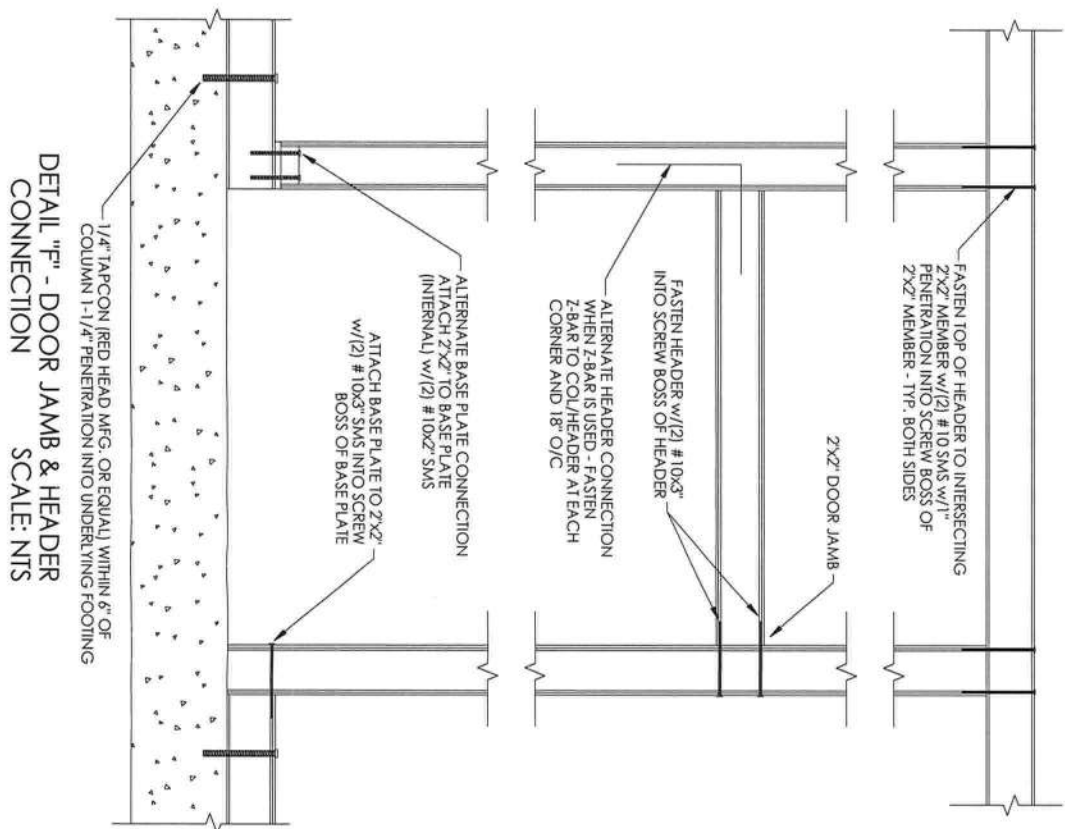
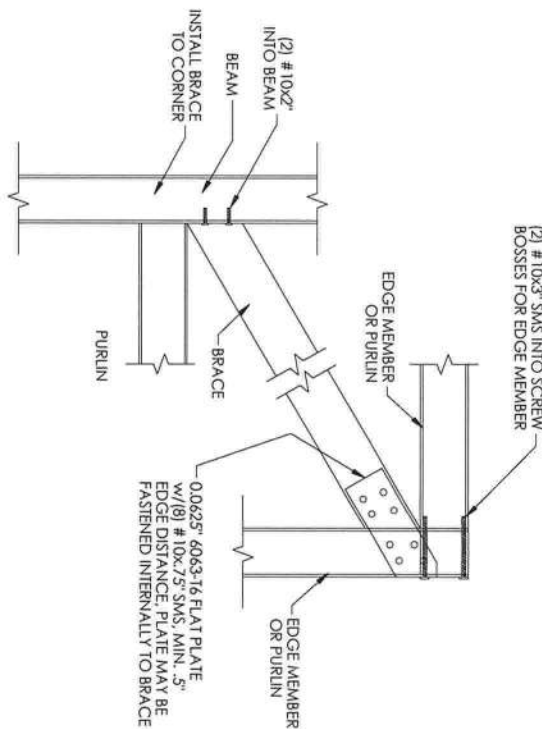
DETAIL E - UPRIGHT TO BEAM  
CONNECTION SCALE: NTS

MINIMUM NUMBER OF TAPCONS INTO CONCRETE &  
# 12 X 3/4" S.M.S. INTO UPRIGHT / EACH SIDE OF BEAM  
THROUGH SECONDARY 2" X 2" X 0.125" ANGLES  
(SEE BELOW)

2X4.S.M.B. (1)	1/4" x 2-1/4" S.S. TAPCON & (2)	10 x 3/4" S.M.S.
2X5.S.M.B. (1)	1/4" x 2-1/4" S.S. TAPCON & (2)	10 x 3/4" S.M.S.
2X6.S.M.B. (2)	1/4" x 2-1/4" S.S. TAPCON & (3)	10 x 3/4" S.M.S.
2X7.S.M.B. (2)	1/4" x 2-1/4" S.S. TAPCON & (4)	10 x 3/4" S.M.S.
2X8.S.M.B. (3)	1/4" x 2-1/4" S.S. TAPCON & (5)	10 x 3/4" S.M.S.
2X9.S.M.B. (4)	1/4" x 2-1/4" S.S. TAPCON & (6)	10 x 3/4" S.M.S.
2X10.S.M.B. (5)	1/4" x 2-1/4" S.S. TAPCON & (7)	10 x 3/4" S.M.S.



DETAIL "B" - 2"x4" OR LARGER SELF MATING  
UPRIGHT TO DECK DETAILS SCALE: NTS



### ALUMINUM MEMBERS DIMENSIONS

## HOLLOW SECTIONS

2 x 5: 2" x 5" x 0.050"

OPEN BACK SECTIONS

1 x 2: 1" x 2" x 0.044"  
1 x 3: 1" x 3" x 0.045"

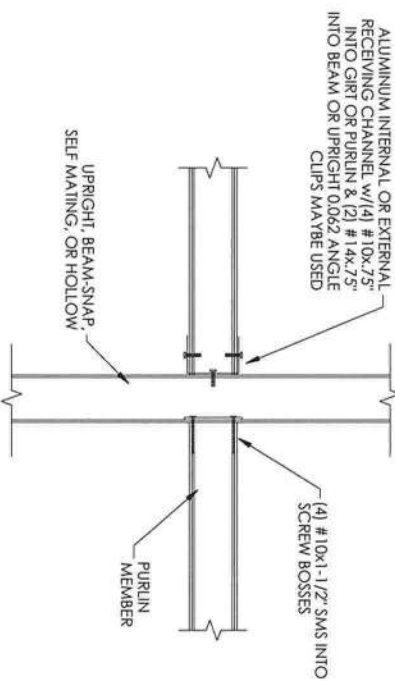
## SNAP SECTIONS

2 x 2 SNAP: 2" x 2" x 0.045"  
2 x 3 SNAP: 2" x 3" x 0.050"  
2 x 4 SNAP: 2" x 4" x 0.045"

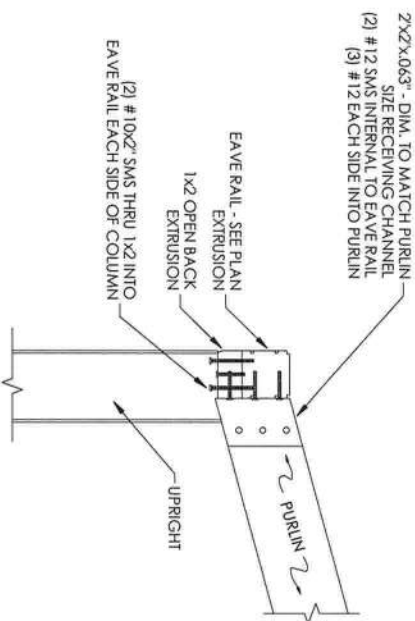
SELF MATING (SMB)

$$\begin{array}{l} 2 \times 4 \text{ SMB: } 2'' \times 4'' \times 0.046'' \times 0.100'' \\ 2 \times 5 \text{ SMB: } 2'' \times 5'' \times 0.050'' \times 0.116'' \\ 2 \times 6 \text{ SMB: } 2'' \times 6'' \times 0.050'' \times 0.120'' \\ 2 \times 7 \text{ SMB: } 2'' \times 7'' \times 0.055'' \times 0.120'' \\ 2 \times 8 \text{ SMB: } 2'' \times 8'' \times 0.072'' \times 0.224'' \\ 2 \times 9 \text{ SMB: } 2'' \times 9'' \times 0.072'' \times 0.224'' \\ 2 \times 9(\text{H}) \text{ SMB: } 2'' \times 9'' \times 0.082'' \times 0.306'' \\ 2 \times 10 \text{ SMB: } 2'' \times 10'' \times 0.092'' \times 0.374'' \end{array}$$

### DETAIL A



DETAIL "C" - GIRT OR PURLIN TO BEAM  
OR POST DETAIL SCALE: NTS

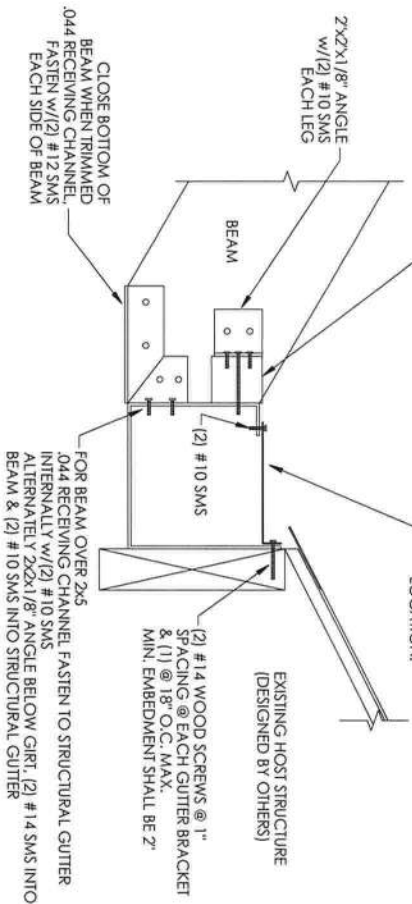


DETAIL "G" - SLOPED PURLIN  
CONNECTION SCALE: NTS

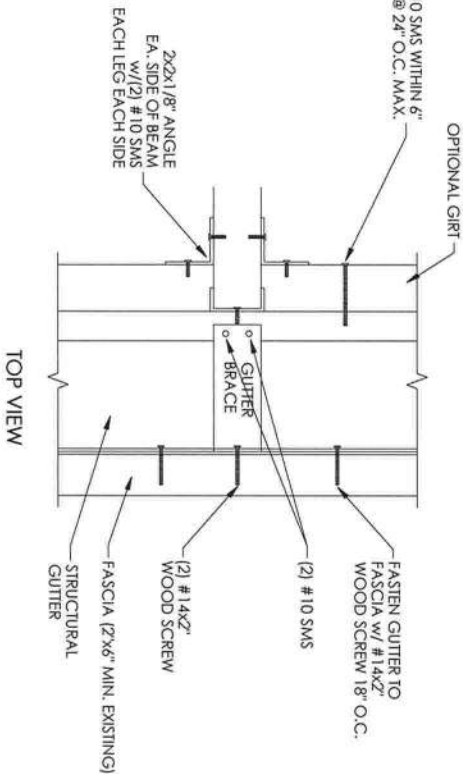
REVISION 1: _____ REVISION 2: _____ DRAWN BY: _____ SCALE: _____ DATE: _____ NTS _____	CONTRACTOR: MY FAVORITE POOL BUILDER		<b>FLORIDA ENGINEERING LLC</b> 4161 TAMIAMI TRAIL, UNIT 101 PORT CHARLOTTE, FLORIDA 33952 (941) 391-5980 <a href="http://www.flengineeringllc.com">www.flengineeringllc.com</a>	
	PROJECT ADDRESS: BROTHERTON 1044 NE BLACKBERRY CIR LAKE CITY FL			



GIRT FASTENED INTERNALLY AT EACH END W/ #10x1.5" EACH SCREW GROOVE FASTEN INTO BEAM W/ 2"x2"x1/8" ANGLE (2) #12 SMS INTO BEAM & (2) #10x1.5 THRU ANGLE INTO GUTTER WHERE NO GIRT IS PRESENT, ATTACH ANGLE DIRECTLY TO GUTTER.

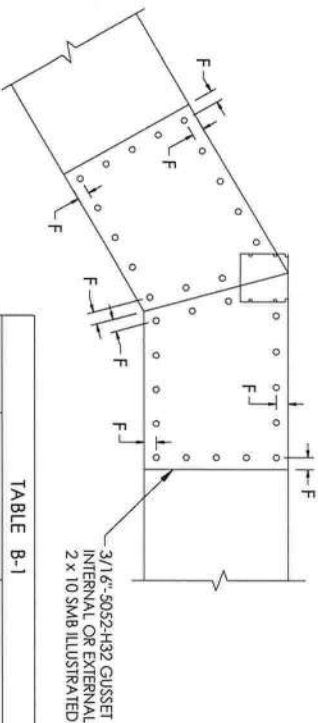


SIDE VIEW



TOP VIEW

DETAIL "H" BEAM TO GUTTER  
CONNECTION SCALE: NTS



3/16"-5052-H32 GUSSET  
INTERNAL OR EXTERNAL  
2 x 10 SMB ILLUSTRATED

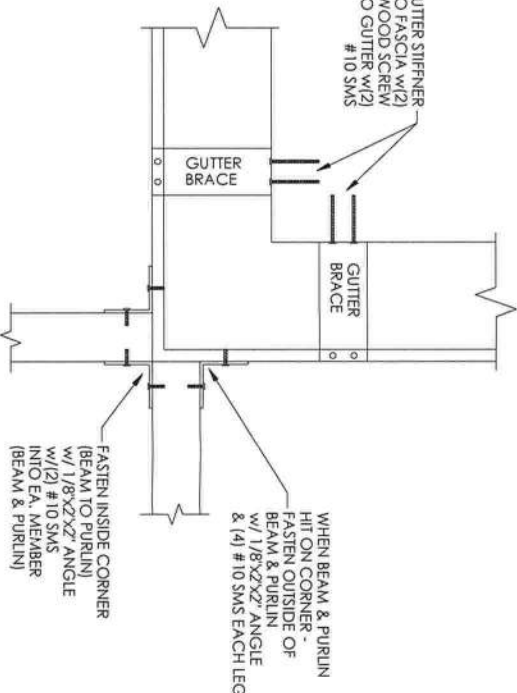
TABLE B-1

BEAM SIZE	COL. TO BEAM QTY SMS/ SIDE OF COL.	BEAM TO BEAM QTY SMS/ EA. FACE/SIDE
2 x 4	(8) #10	(13) #10
2 x 5	(8) #10	(13) #10
2 x 6	(11) #10	(13) #10
2 x 7	(15) #10	(15) #10
2 x 8	(13) #12	(15) #12
2 x 9	(21) #12	(21) #12
2 x 10	(23) #12	(22) #12

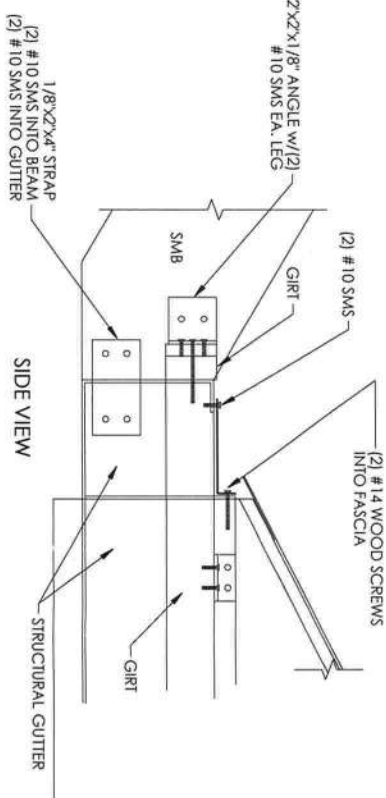
NOTE:  
INSTALL FASTENERS ALONG PERIMETER OF GUSSET  
-BEAM JOINT 3/8" MIN. FROM EDGE. FASTENERS  
MAY BE STAGGERED TO INSURE PROPER  
QUANTITY PER TABLE B-1  
FASTENER PATTERN MAY APPEAR DIFFERENT  
FROM ILLUSTRATION.  
MAINTAIN 1/2" SEPARATION BETWEEN FASTENERS.  
MAINTAIN 3/8" MIN. FASTENER SEPARATION FROM  
BEAM JOINT OR EDGE OF BEAM LAP  
FASTENERS MAY BE EVENLY SPACED AROUND  
EDGE OF GUSSET WITHIN 3/8" OF BEAM JOINT.  
FASTENERS MAY BE STAGGERED TO INSURE  
PROPER QUANTITY PER TABLE B-1

DETAIL "K" GUSSET CONNECTION  
SCALE: NTS

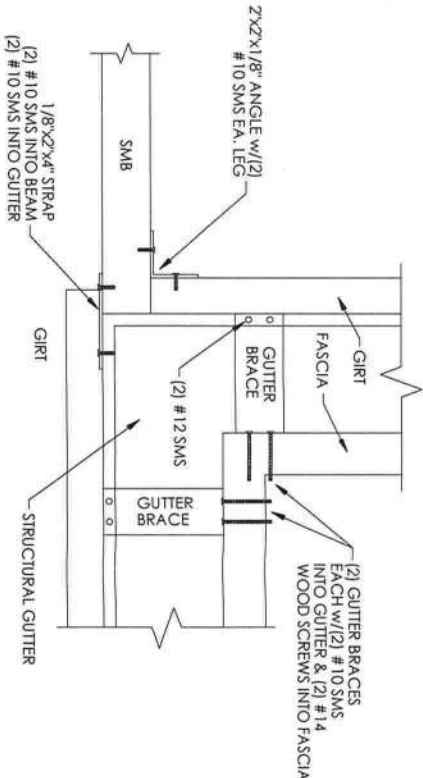
.050" GUTTER STIFFENER  
FASTEN TO FASCIA W/ (2)  
#12x2" WOOD SCREW  
FASTEN TO GUTTER W/ (2)  
#10 SMS



DETAIL "M" BEAM & PURLIN TO GUTTER  
CONNECTION SCALE: NTS

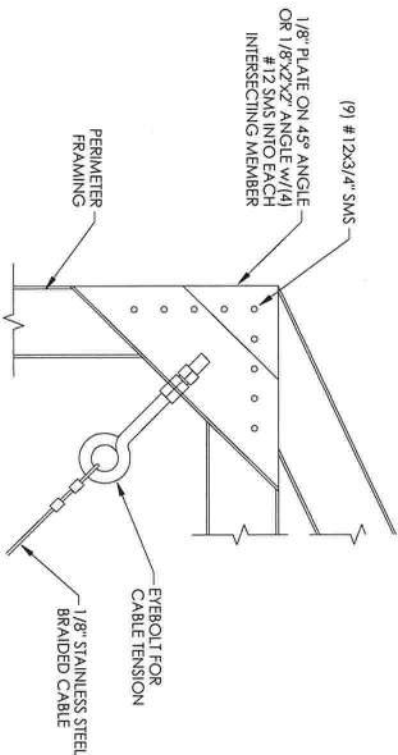


SIDE VIEW

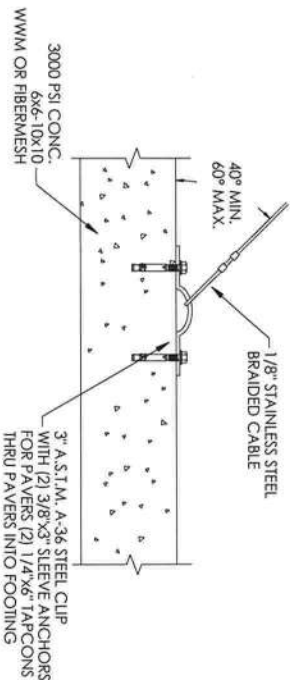


TOP VIEW

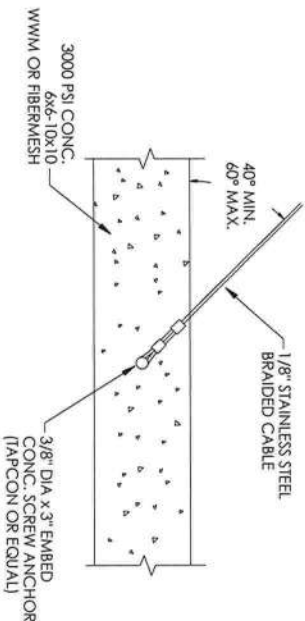
DETAIL "L" CORNER CONNECTION  
SCALE: NTS



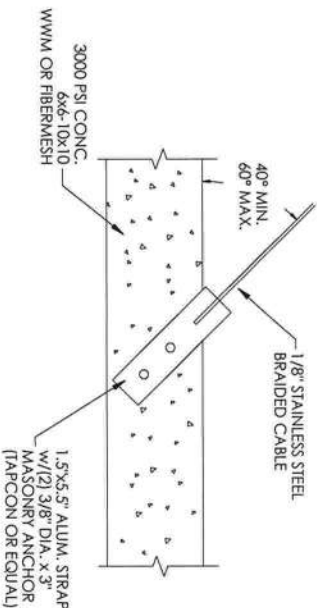
DETAIL "1-2" CABLE CONNECTION  
AT CORNER SCALE: NTS



1/8" STAINLESS STEEL  
BRAIDED CABLE

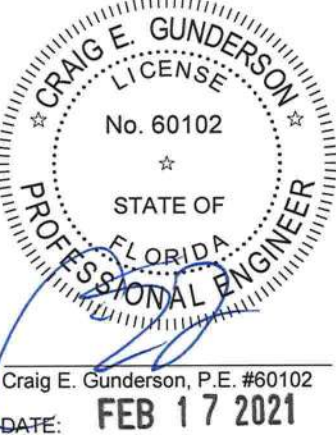


3/8" DIA x 3" EMBED  
CONC. SCREW ANCHOR  
(TAPCON OR EQUAL)

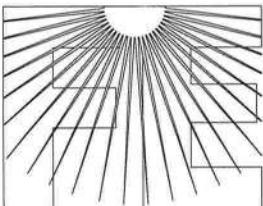


1.5"x5.5" ALUM. STRAP  
W/ (2) 3/8" DIA. x 3"  
MASONRY ANCHOR  
(TAPCON OR EQUAL)

DETAIL "1-1" CABLE CONNECTION  
AT FOUNDATION SCALE: NTS



Craig E. Gunderson, P.E. #60102  
DATE: FEB 17 2021



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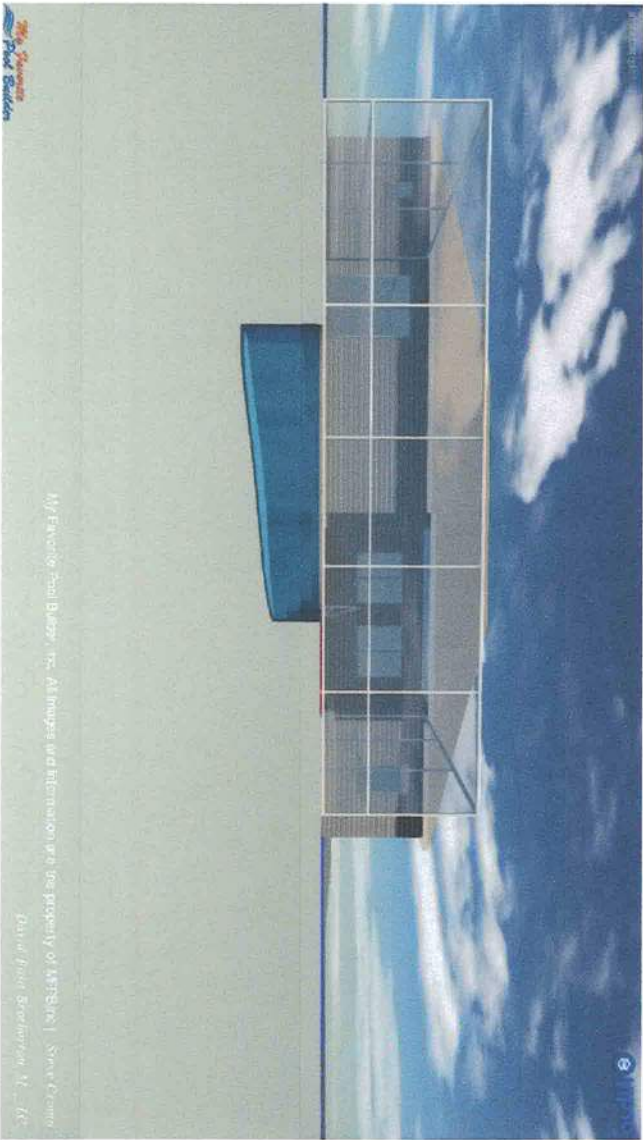
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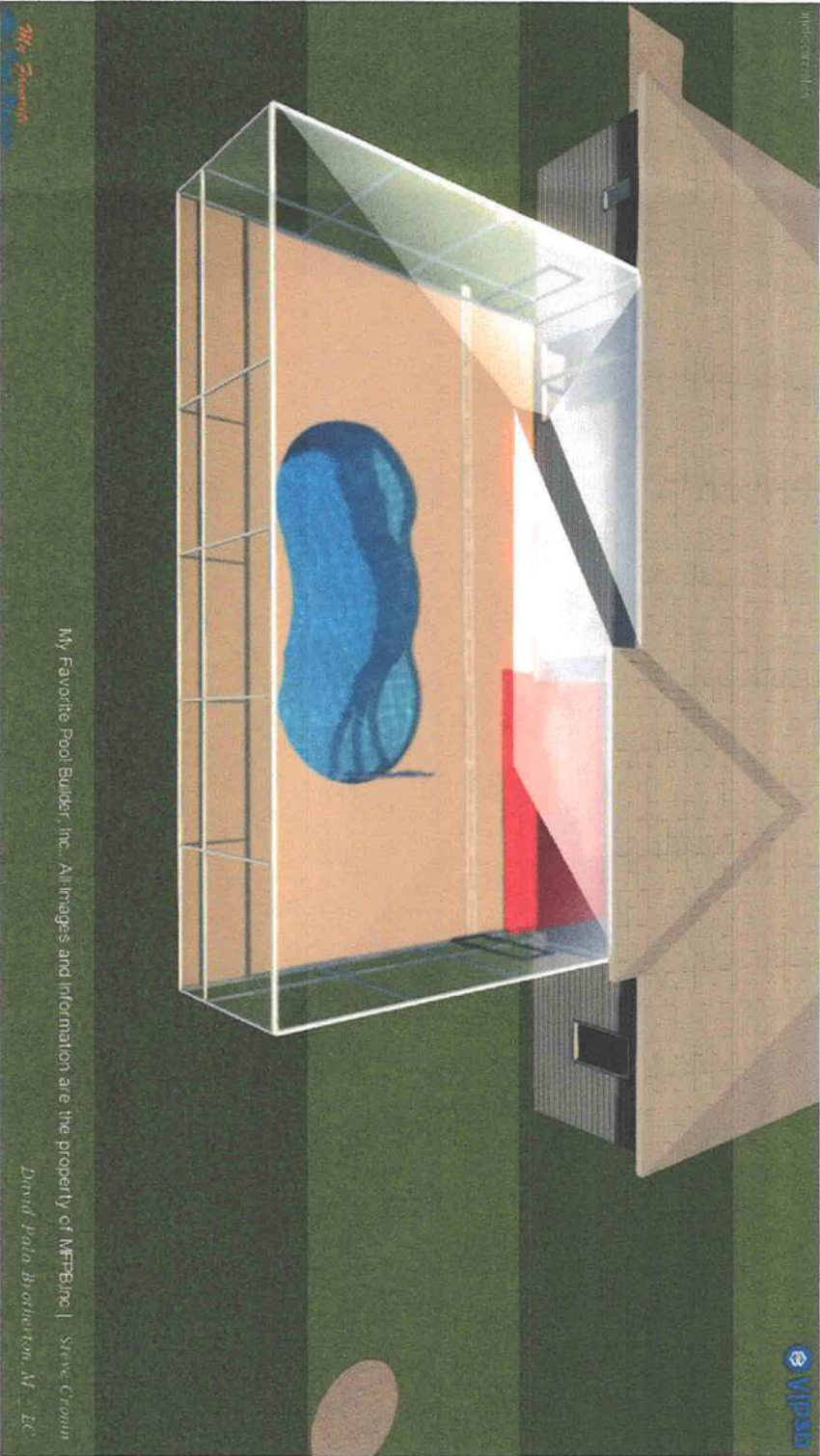
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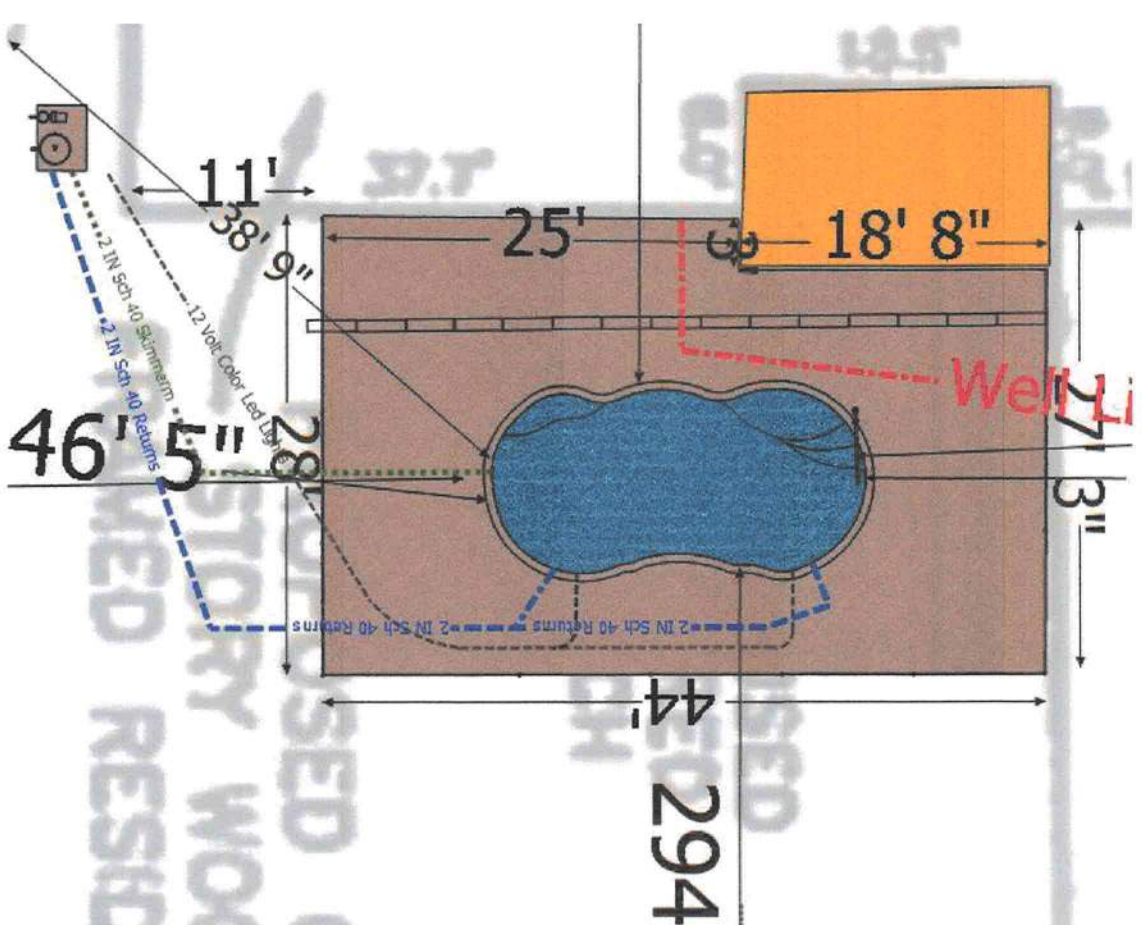
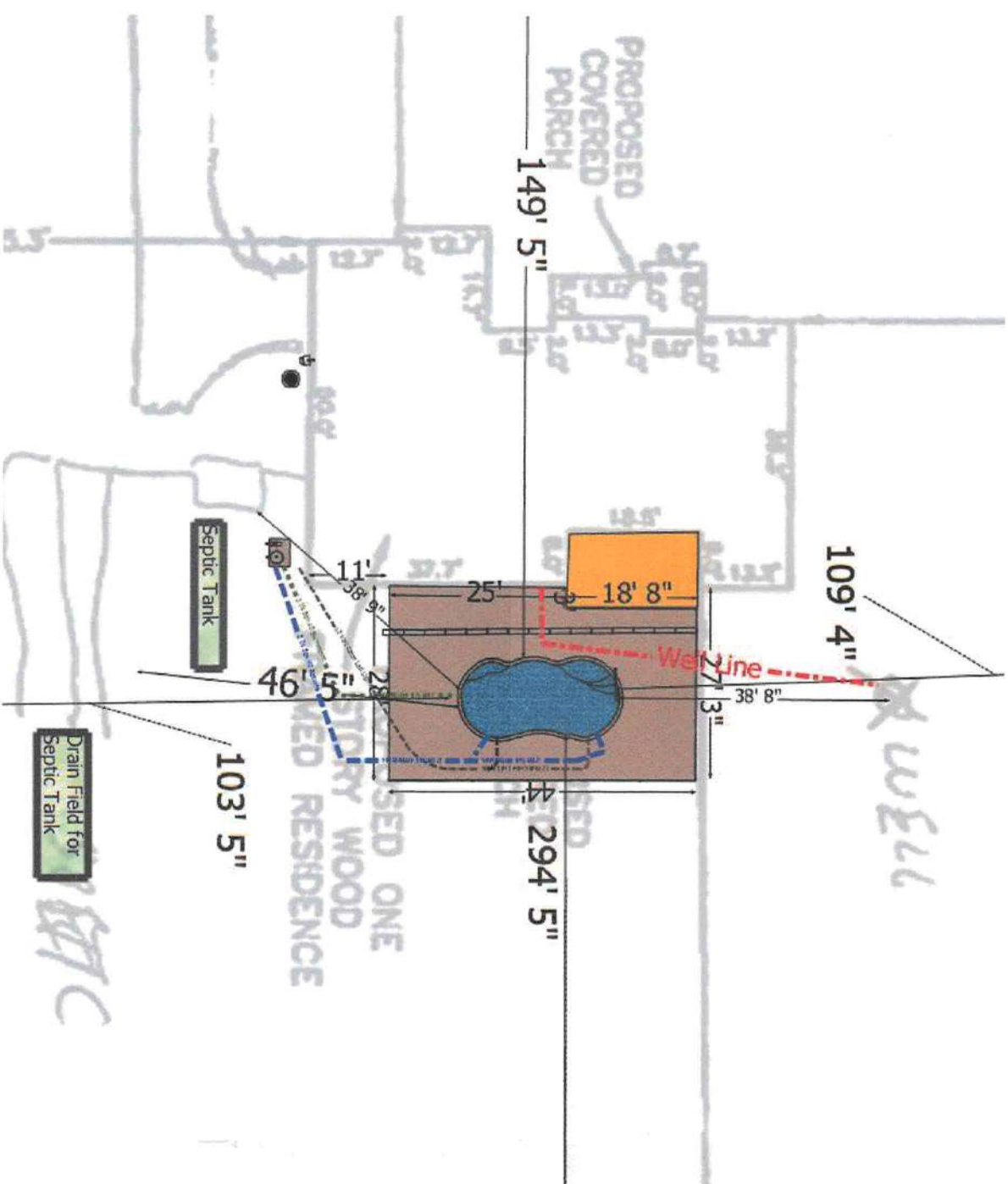
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David Pala Brotherton, AIA, LEED



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My Favorite Pool Builder, Inc. 1956 SW Main Blvd. Lake City, FL 32025 (386) 269-3304 OF CPC1459058	
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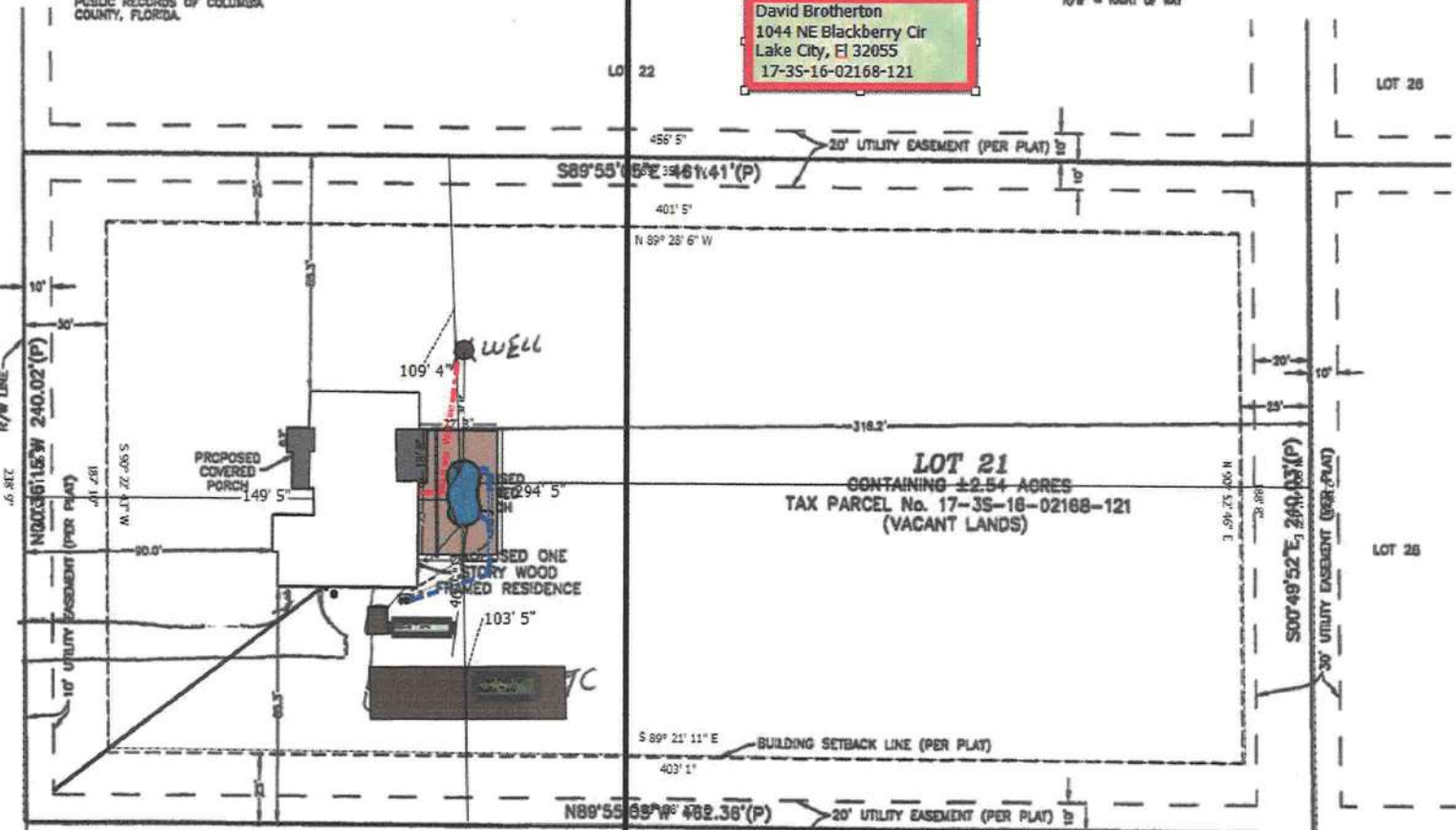
N.W. BLACKBERRY CIRCLE (60' R/W)

LEGAL DESCRIPTION  
LOT 21 OF BLACKBERRY FARMS, AS  
PER PLAT THEREOF RECORDED IN  
PLAT BOOK 1, PAGES 4-12 OF THE  
PUBLIC RECORDS OF COLUMBIA  
COUNTY, FLORIDA.

PLOT PLAN  
LYING IN SECTION 17, TOWNSHIP 3 SOUTH, RANGE 18 EAST,  
COLUMBIA COUNTY, FLORIDA  
THIS IS NOT A BOUNDARY SURVEY

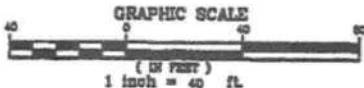
LEGEND  
(P) = PLAT DATA  
R/W = RIGHT OF WAY

David Brotherton  
1044 NE Blackberry Cir  
Lake City, FL 32055  
17-35-16-02168-121



SURVEYOR NOTES:  
1. THE BEARINGS SHOWN  
HEREIN ARE BASED ON THE PLAT  
OF BLACKBERRY FARMS.  
2. RECORDED EASEMENT  
AND/OR DEEDS NOT FURNISHED  
TO THE SURVEYOR ARE NOT  
SHOWN.  
3. THIS IS NOT A BOUNDARY  
SURVEY

FLOOD NOTE:  
THE SUBJECT PROPERTY LIES WITHIN FLOOD ZONE "X"  
(AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL  
CHANCE FLOODPLAIN) AS SHOWN ON FLOOD INSURANCE RATE  
MAP NUMBER 12023002000 FOR COLUMBIA COUNTY, FLORIDA  
AND INCORPORATED AREAS, EFFECTIVE DATE NOVEMBER 2,  
2010, FOR COLUMBIA COUNTY, COMMUNITY NUMBER 120070  
PARCEL NUMBER 0200 SUFFIX D.



DATE WHEN THE PLAT WAS RECORDED	DATE WHEN THE PLAT WAS RECORDED	DATE WHEN THE PLAT WAS RECORDED	DATE WHEN THE PLAT WAS RECORDED
17-35-16-02168-121	17-35-16-02168-121	17-35-16-02168-121	17-35-16-02168-121
17-35-16-02168-121	17-35-16-02168-121	17-35-16-02168-121	17-35-16-02168-121
17-35-16-02168-121	17-35-16-02168-121	17-35-16-02168-121	17-35-16-02168-121

3/1/21

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

2/21/2021

Swimming Pool Specification For:

David Brotherton

1044 NE Blackberry Cir Lake City, FL  
32055

Prop ID 17-35-16-02168-121

Scale: None Rev

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My Favorite Pool Builder, Inc.

1956 SW Main Blvd.

Lake City, FL 32025

(386) 269-3304 OF

CPCL459058