Cool and Cobb Engineering Company

Date: 7/29/2022

Job: Rosa Febre

Location: 1189 S Marion Ave

Lake City, FL 32025

CRAWL SPACE JACK DESIGN ANALYSIS

The load requirements for the Crawl Space Jacks designed to assist in supporting the identified areas of the subject residence were determined. The selected Crawl Space Jack locations and the specific Crawl Space Jacks are identified on the Jack Identification and Location Plan attached. The calculated total loads on the Crawl Space Jacks in the specific location, including both dead and live loads are documented in the attached table which is designated as Attachment "A". This Crawl Space Jack design is approved and certified as meeting all the requirements of the Florida Building Code 2020 7th Edition, and good engineering practice. This is not to be the primary support structure, but a supplement support to assist in support of the weight of the structure, which will reduce the total pressure on the existing soils and reduce deflection in beams. After completion of installation, Cool and Cobb Engineering Company shall be supplied with a log of the location of each Crawl Space Jack installed so they can evaluate the installation and prepare the "As Built" drawings.

General Notes:

1. A log of each Crawl Space Jack to be kept by Contractor.
2. Assumed allowable soil loading of 2,000 psf

7/29/2022

Carl E Cool, P.E.
State of Florida
Professional Engineer No. 16921

Digitally signed by Carl E Cool
Date: 2022.07.29 09:24:39 -04'00'

This Item has been electronically sealed by Carl Cool using a digital signature and date. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

203 W. Main St.
Avon Park, FL 33825
Office: (863) 657-2323
Fax: (863) 657-2324

Contractor: Solid Foundations

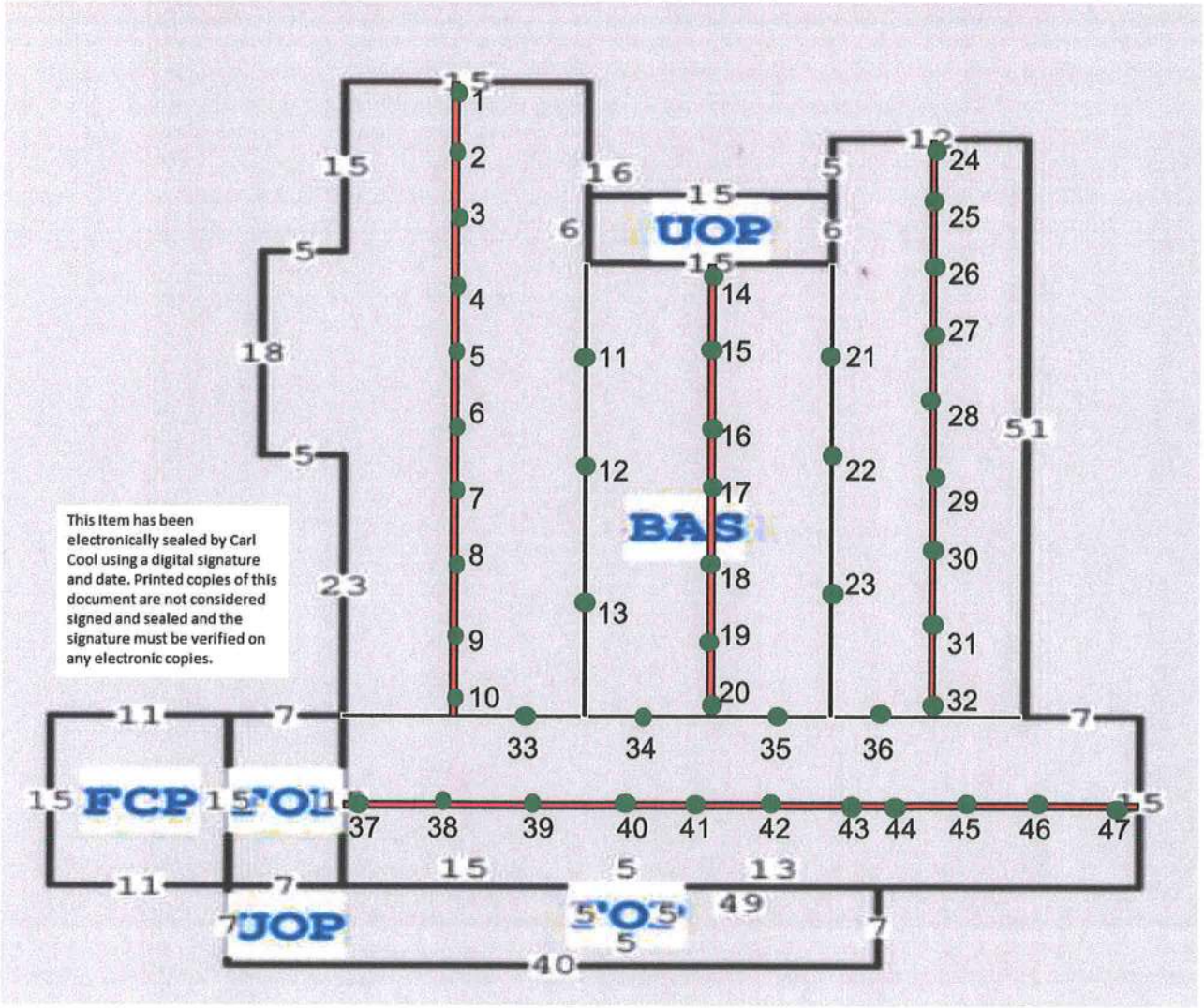
Solid Foundations
1910 SW Main Blvd
Lake City, FL 32025
855-227-0300
www.solidfoundations.com

SF Representative: Jimbo Willis
Cell: 386-288-3240
Email: Jimmie@solidfoundations.com

CONTRACT DATE: 5/20/2022
SUBMITTED TO: Rosa Febre
ADDRESS: 1189 S. Marion Ave.
Lake City, Fl. 32025

EMAIL: rsf2131@gmail.com
Phone: 904-540-8394

One - Story home on an elevated pier system with approximately 16 to 22" clearance



Push Pier Model 300:
Push Pier Model 250:
Helical Pier:
Crawl Space Pier:
Interior Pier:
Low Profile Bracket:
Porch Bracket:
4x6 Wood Beam:
Polyurethane 700:
Polyurethane 430:
Exsisting Beams
Floor Joist:

7/29/2022
Carl E. Cool, P.E.
PE# 16921

Cool and Cobb Engineering Co.
203 W. Main St.
Avon Park, FL 33825

Cool and Cobb Engineering Company

Date:	7/29/2022
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Location:	1189 S Marion Ave
	Lake City, FL 32025

Attachment "A"

Total Load on Pile (Live Load + Dead Load)

PILE NO.	TOTAL CALCULATE LOAD
1	1,340 lbs
2	2,680 lbs
3	2,680 lbs
4	2,680 lbs
5	2,680 lbs
6	2,680 lbs
7	2,680 lbs
8	2,680 lbs
9	2,680 lbs
10	1,340 lbs
11	*3,550 lbs
12	*3,550 lbs
13	*3,550 lbs
14	1,440 lbs
15	2,890 lbs
16	2,890 lbs
17	2,890 lbs
18	2,890 lbs
19	2,890 lbs
20	1,440 lbs
21	*3,550 lbs
22	*3,550 lbs
23	*3,550 lbs
24	1,050 lbs
25	2,100 lbs
26	2,100 lbs
27	2,100 lbs
28	2,100 lbs
29	2,100 lbs
30	2,100 lbs

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***LOADS LIMITED TO 3,550 LBS**

Maximum Total Load on Pile: 3,550 lbs

7/29/2022
Carl E. Cool, P.E.
PE# 16921

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Avon Park, FL 33825

Cool and Cobb Engineering Company

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Job:	Rosa Febre
Location:	1189 S Marion Ave
	Lake City, FL 32025

Attachment "A"

Total Load on Pile (Live Load + Dead Load)

PILE NO.	TOTAL CALCULATE LOAD
31	2,100 lbs
32	1,050 lbs
33	3,520 lbs
34	3,520 lbs
35	3,520 lbs
36	3,520 lbs
37	1,030 lbs
38	2,060 lbs
39	2,060 lbs
40	2,060 lbs
41	2,060 lbs
42	2,060 lbs
43	2,060 lbs
44	2,060 lbs
45	2,060 lbs
46	2,060 lbs
47	1,030 lbs

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Maximum Total Load on Pile: 3,520 lbs

7/29/2022

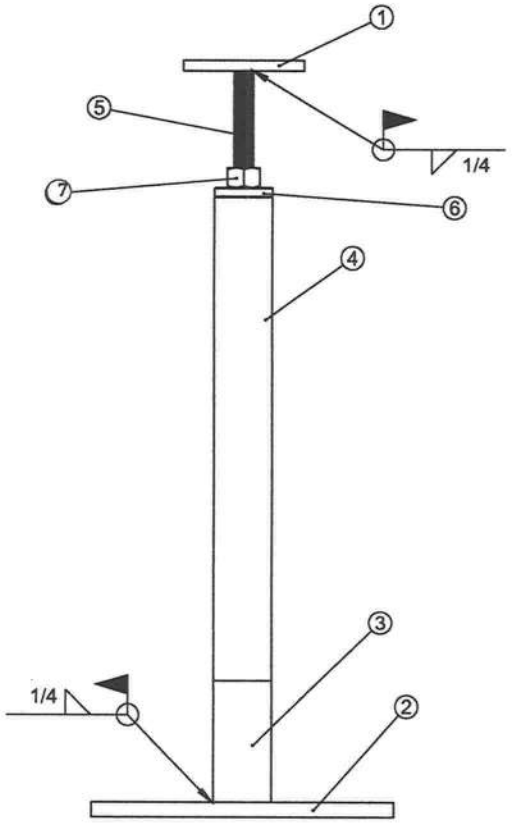
Carl E. Cool, P.E.

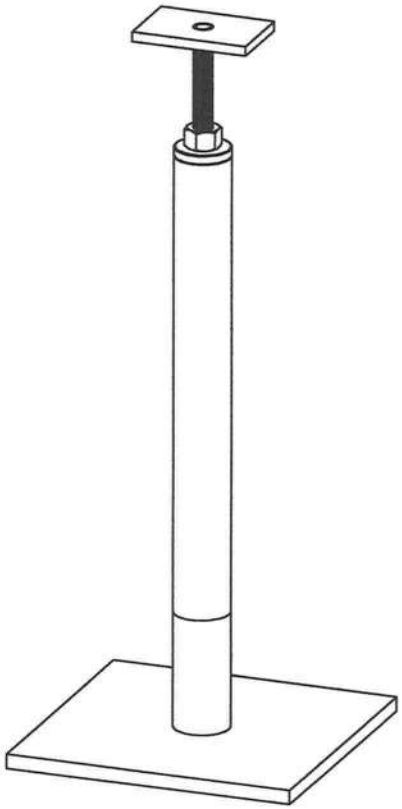
PE# 16921

Cool and Cobb Engineering Co.
203 W. Main St.
Avon Park, FL 33825

NOTES: UNLESS OTHERWISE SPECIFIED

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	CS-16-1_Top Plate	4" x 6" x 3/8" Top Plate	1
2	CS-16-2_Bottom Plate	16' x 16" x 3/8" Bottom Plate	1
3	CS-16-3_Tube	Tube 6"_ 2.5" SCH 40	1
4	CS-16-4_Extension Tube	Tube 24"_ 2.5" SCH 40	1
5	CS-16-5_Threaded Rod	1" X 12" Threaded Rod	1
6	FSS-25-1032-1000_Pipe Cap	Pipe Cap	1
7	1-8 NUT	1-8 NUT	1





7/29/2022
Carl E. Cool, P.E.
PE# 16921

Cool and Cobb Engineering Co.
203 W. Main St.
Avon Park, FL 33825

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/16 ANGULAR: MACH± .5 TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL±.005	DRAWN	JEO	4/5/2021
	CHECKED		
	ENG APPR.		
	MFG APPR.		
INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5	Q.A.		
MATERIAL	COMMENTS:		

FOUNDATION SYSTEMS SUPPLY

TITLE:
CRAWL SPACE BRACKET

SIZE	PART NO.	REV
B	CS-16	-

SCALE: 1:12 WEIGHT: SHEET 1 OF 1