

Cool and Cobb Engineering Company

Date: 10/31/2025
Job: Christy Mcdaniel
Location: 4743 N US Hwy 441, Lake City, FL 32055

Project: 25-1414

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 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 2023 8th 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.

General Notes:

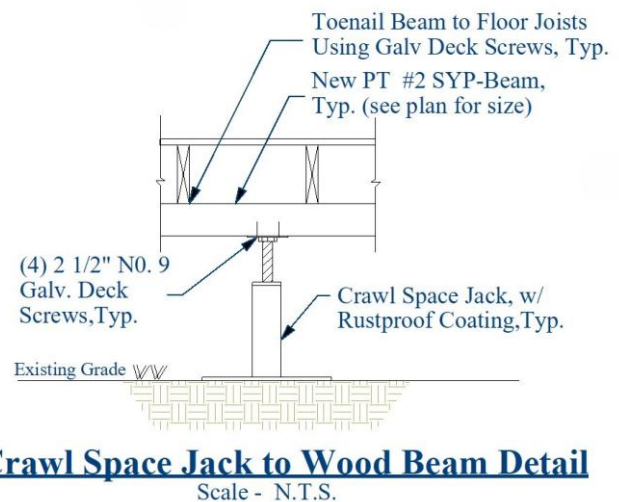
1. The Crawl Space Bracket attached in this design is approved as minimum size required for the loads.
2. Top plate to be secured to beam by: Wood Beam – (2) Min. #9 2 1/2" galv. deck screws
3. This design is developed per field assessment data by contractor and is based on agreement between contractor and owner. Cool and Cobb Engineering Co. Engineer has not performed an on-site structural assessment of the structure.
4. This design provides stabilization to the area receiving supplemental support only. Structure may require additional stabilization to other affected areas not addressed in the contractor/owner agreement.
5. This design is based on Assumed allowable soil loading of 2,000 psf. No deep soils geotechnical testing information was provided for this design.
6. This design does not address any possible sink hole activity as defined in Florida Statute § 627.706.
7. Contractor to document and certify any changes (with reason for field changes) on CCEC design plan and redline for "As Built" report.

10/31/2025

Kenneth F Wheeler, P.E.
State of Florida
Professional Engineer No. 60417

This item has been digitally signed and sealed by Kenneth F. Wheeler, P.E. on the date adjacent to the seal.

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: 10/6/2025

SUBMITTED TO: Christy

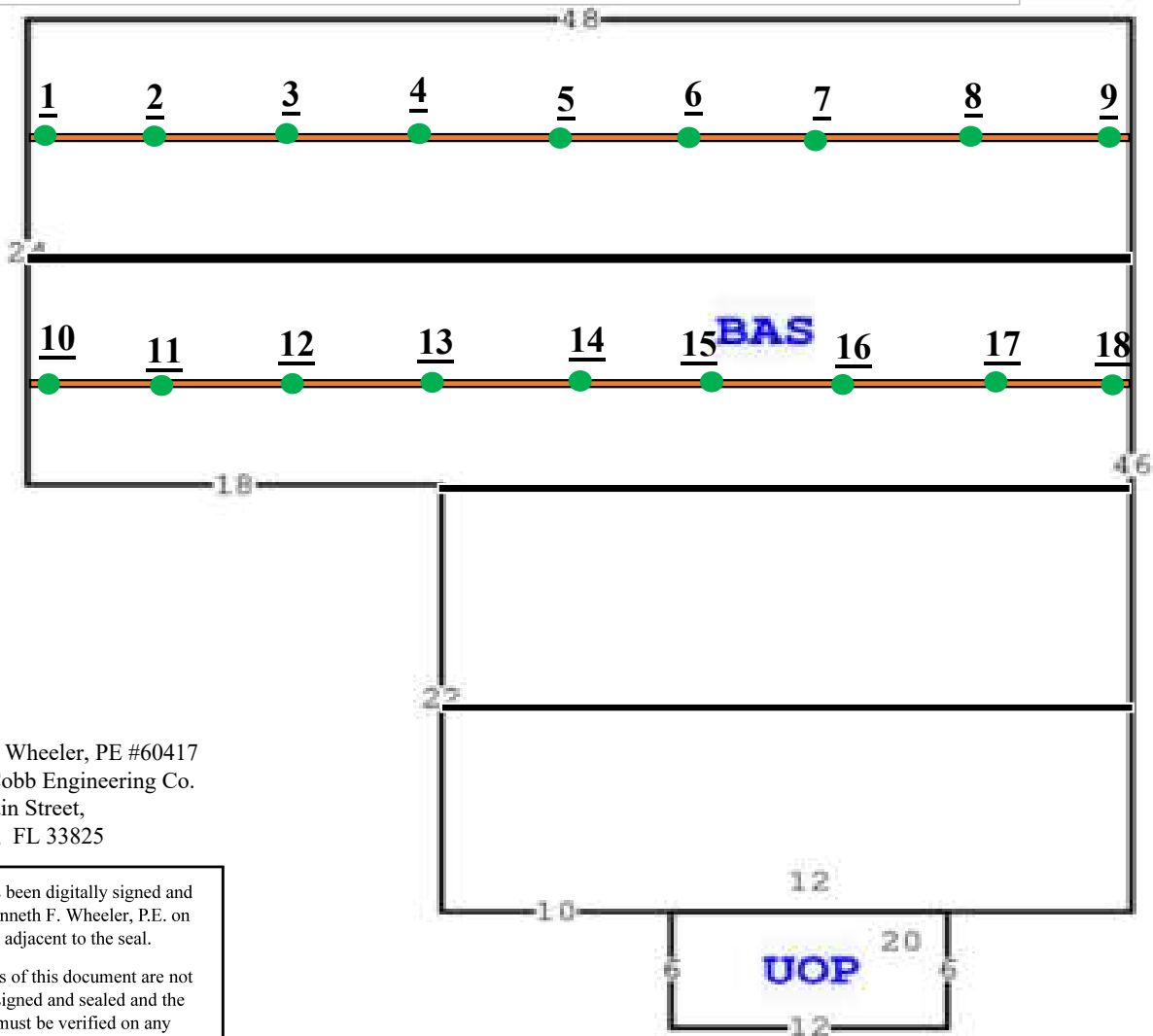
ADDRESS: 4743 N. US HWY 441

Lake City, FL 32055

EMAIL: rmcrr.office@gmail.com

Phone: 386-361-0723

SISTER UPTO 10 2X8X12 FLOOR JOIST AS NEEDED



10/31/2025

Kenneth F. Wheeler, PE #60417

Cool and Cobb Engineering Co.

203 W. Main Street,

Avon Park, FL 33825

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CCEC # 25-1414

Push Pier Model 300: ●

Push Pier Model 250: ●

Helical Pier: ●

Crawl Space Pier: ●

Interior Pier: ●

Low Profile Bracket: ●

Porch Bracket: ●

4x6 Wood Beam: ■

NCFI-24-120 ■

NCFI-24-010 ■

Existing Beams ■

Floor Joist: ■

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Attachment "A"

Total Load on Support (Live Load + Dead Load)

SUPPORT NO.	TOTAL CALCULATE LOAD	
1	1,280	lbs
2	1,900	lbs
3	1,900	lbs
4	1,900	lbs
5	1,900	lbs
6	1,900	lbs
7	1,900	lbs
8	1,900	lbs
9	1,280	lbs
10	1,280	lbs
11	1,900	lbs
12	1,900	lbs
13	1,900	lbs
14	1,900	lbs
15	1,900	lbs
16	1,900	lbs
17	1,900	lbs
18	1,280	lbs

Maximum Total Load on Pile: 1,900 lbs

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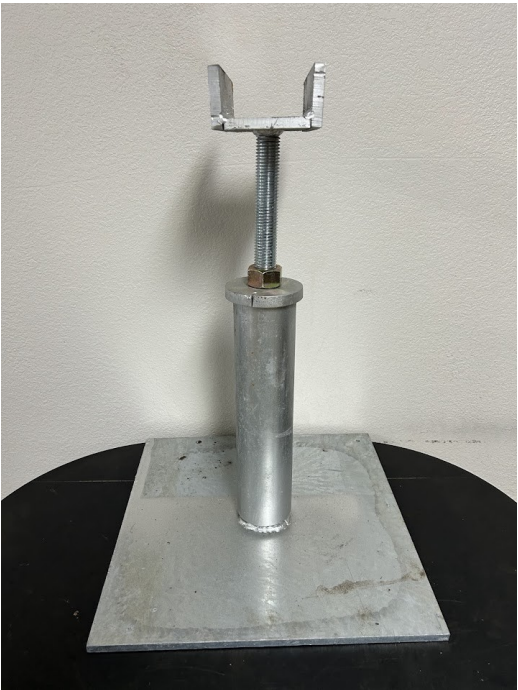
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NOTES:
MAX TOTAL LOAD ON PILE: 3,100 LBS.

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	CS-15-1_Top Plate	4" x 6" x 3/8" Plate ASTM A36 STEEL	1
2	CS-15-2_Bottom Plate	15" x 15" x 3/8" Plate ASTM A36 STEEL	1
3	CS-15-3_Tube	6" 2.375" OD, sch 40 ASTM A53 B	1
4	CS-15-4_Extension Tube	12" 2.5" OD, sch 40 ASTM A53 B	1
5	CS-15-5_Threaded Rod	12"L- 1" Zinc Coated Threaded Rod	1
6	FSS-2875-1032-1000_Pipe Cap	3" OD 1/2" Plate ASTM A36 STEEL	1
7	NUT 1-8	1-8 HEX NUT GR-8 Zinc Coated	2

Optional Top Plate for I-Beam – 4 1/4" x 6" x 3/8" Plate with (2) Side Plates 2" x 6" x 3/8" Plate ASTM A36 STEEL



Hot Dipped Galvanized in accordance with
ASTM A123

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	5/4/25	TITLE: CRAWL SPACE BRACKET-GAL					
		CHECKED								
		ENG APPR.								
		MFG APPR.								
INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5 MATERIAL		Q.A.			SIZE B		PART NO. CS-15-2-GAL		REV -	
		COMMENTS:								
		HOT-DIPPED GALVANIZED								
					SCALE: 1:12		WEIGHT:		SHEET 1 OF 1	