

Cool and Cobb Engineering Company

Date: 4/10/2025

Project: 25-1140

Job: Traci Murray

Location: 2960 SE County Rd 252, 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 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. 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. 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 one of the below methods:
 - Steel Beam – Field spot weld, min. 2 locations each jack.
 - Wood Beam – (2) Min. 2 ½" length deck screw
3. Assumed allowable soil loading of 2,000 psf.
4. A log of each Crawl Space Jack to be kept by Contractor.

4/10/2025

Kenneth F Wheeler, P.E.

State of Florida

Professional Engineer No. 60417



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by Kenneth F
Wheeler
Date: 2025.04.10
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This item has been digitally signed and sealed by Kenneth F. Wheeler, P.E. on the date adjacent to the seal.

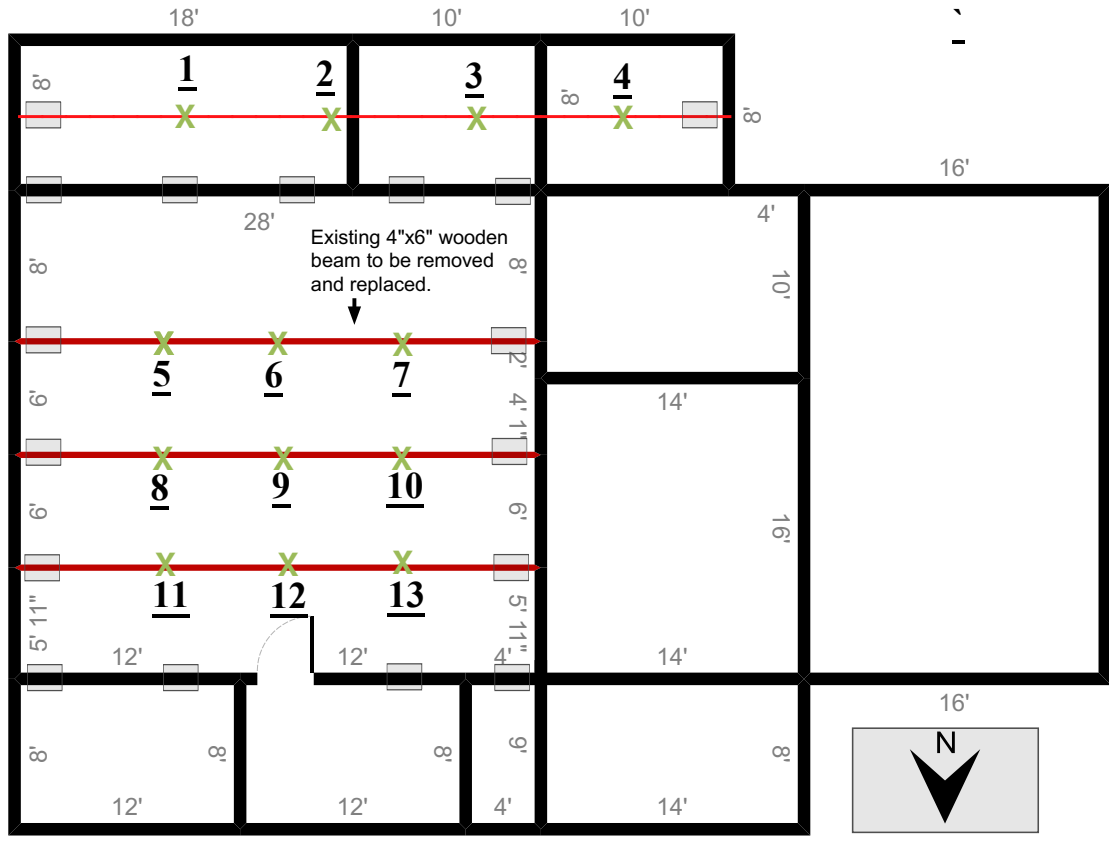
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203 W. Main St.
Avon Park, FL 33825
Office: (863) 657-2323
Fax: (863) 657-2324

Contractor: Foundation Professionals

Legend

- Foundation 
- New W4x13 Steel Beam 
- Existing Relocated Piers w/ shims where needed 
- New Crawlspace Jacks 1 - 13 



Concrete block structure
 Built : 1940
 Foundation: Pier and beam
 Crawlspace height: 18"
 Siding: Stucco
 Roof: Metal
 FPI proposes to install 124 LN ft of
 Galvanized Steel I-Beam
 13 PPB 107 Crawlspace Screwjacks



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4/10/2025
 Kenneth F. Wheeler, PE #60417
 Cool and Cobb Engineering Co.
 203 W. Main Street,
 Avon Park, FL 33825

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Murray- Crawlspace Repair

Foundation Professionals of Florida
 3309 SW State Road 247
 Lake City, FL 32024
 www.foundationprosfl.com
 (386) 755-3002

Project Address
 Traci Murray
 2960 SE County Rd 252
 Lake City, FL 32025
 (386) 623-6637 | atzb1234@yahoo.com

Created By
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 Created 3/4/2025



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Project # 25-1140

Attachment "A"

Total Load on Support (Live Load + Dead Load)

<u>SUPPORT NO.</u>	<u>TOTAL CALCULATE LOAD</u>
1	1,150 lbs
2	1,150 lbs
3	1,150 lbs
4	1,150 lbs
5	2,510 lbs
6	2,510 lbs
7	2,510 lbs
8	2,150 lbs
9	2,150 lbs
10	2,150 lbs
11	2,140 lbs
12	2,140 lbs
13	2,140 lbs

Maximum Total Load on Pile: 2,510 lbs



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Wheeler
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Kenneth F Wheeler, P.E.
PE# 60417

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PPB-103 & PPB-107--Crawl Space Jack

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203 W. Main St.
Avon Park, FL 33825



PPB-103



PPB-107

Product Specifications

Anchor Style	Resistance
Component	Crawl Space Jack
Ultimate Capacity	60,000 lbs.
Shaft Material	3-1/2" O.D. x .165" Wall
Bearing Plate Size	5" x 6"
PPB-103 Baseplate	3-1/2" x 3-1/2"
PPB-107 Baseplate	7" x 7"
Threaded Rod	1-1/4" x 10"
Coating	Galvanized
Standard Package	Each

Notes

Pre-cast or poured footing provided by contractor.



4/10/2025
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PE #60417

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203 W. Main St.
Avon Park, FL 33825



NEW GROUND SUPPORT PAD FOR CRAWL SPACES

TAKE YOUR SUPPORT TO THE NEXT LEVEL

ECP's new Footing Pad for supplemental support replaces the need to handle concrete or crushed gravel in confined crawl space areas. The 24" round composite Footing Pad has a capacity of 9,327 lbs. with a 3:1 Factor of Safety when used on 3,000 psi soil. This load is backed up by the ICC and ESR-2147.

ECP is offering the Footing Pad at two different price points. Full skid quantity is 68 pieces, and full skids will be priced at _____ per Footing Pad. For quantities less than 68, the Footing Pad will be _____ each. Please contact ECP to order your Footing Pad and Crawl Space Supports today.

Part #	Description	Qty	Price	Bulk	Price
PPB -107- FP24	24" Footing Pad for use with PPB -107	1 - 67		68 Per Skid	