Cool and Cobb Engineering Company

Date: 1/9/2024 Project: 24-1008

Job: Mike Burnett

Location: 556 SW Memorial Dr Fort White, FL 32038

Columbia County Building Department
Plans Reviewed for Code Compliance
State of Florida

CRAWLSPACE JACK DESIGN ANALYSIS

The load requirements for the Crawl Space Jacks designed to assist in supporting the identified are 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.

1/9/2024

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

KENNETH F. WHEELER LICENSE No 60417 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Kenneth F Wheeler
Date: 2024.01.09 14:52:31 -05'00'

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

Contractor: Foundation Professionals

Legend

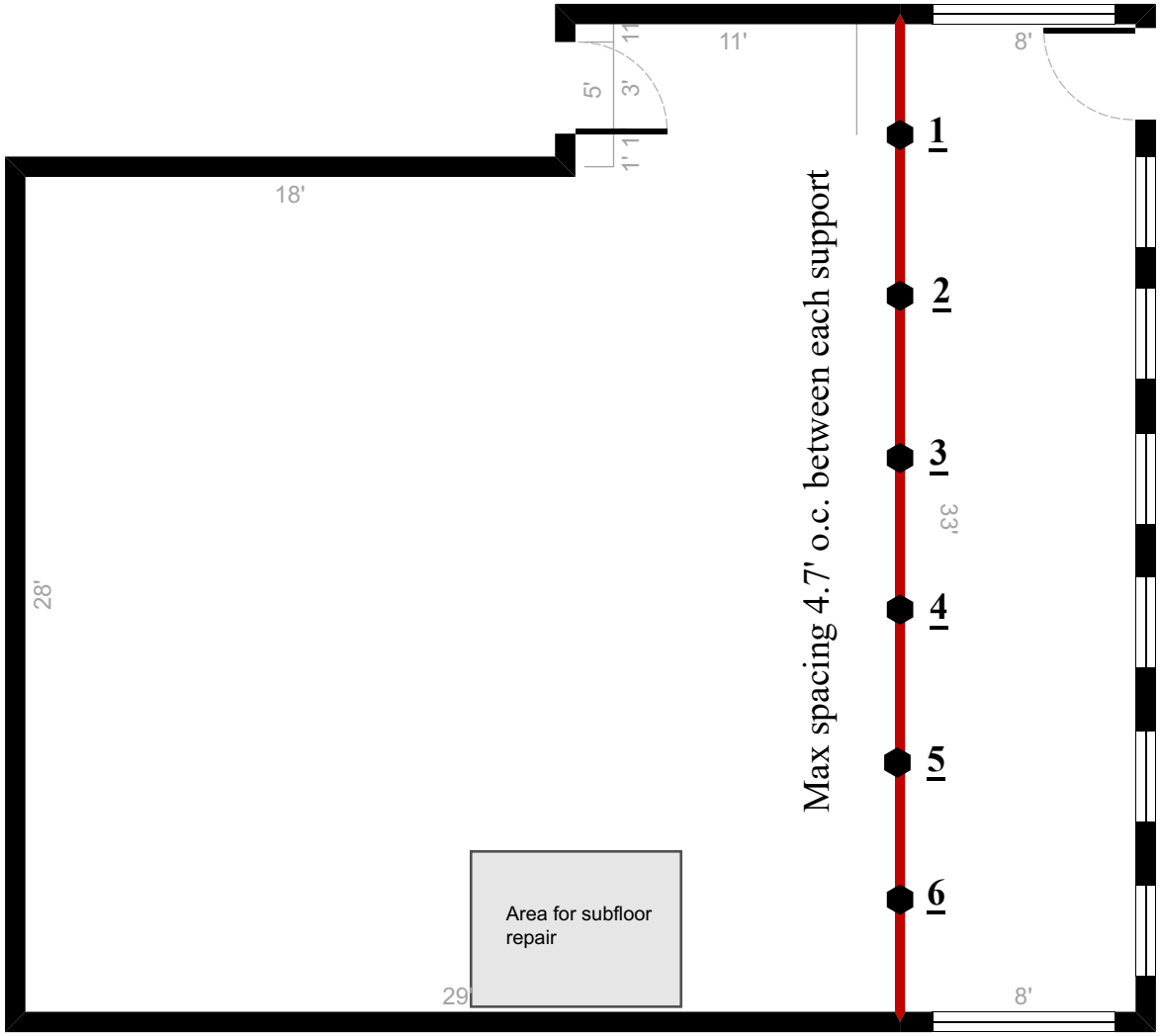
Foundation

Support Post

Beam

Door

Window



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1/9/2024
Kenneth F. Wheeler, P.E.
PE #60417
Cool and Cobb Engineering Co.
203 W. Main St.
Avon Park, FL 33825

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Burnett - Foundation Repair

Foundation Professionals of Florida
3309 SW State Road 247
Lake City, FL 32024
www.foundationprosfl.com

Project Address
Mike Burnett
556 SW Memorial Dr
Fort White, FL 32038

Created By
Conner Rawlins
(904) 515-8680
12/7/2023

Cool and Cobb Engineering Company

Date:	1/9/2024	Project 24-1008
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Attachment "A"

Total Load on Pile (Live Load + Dead Load)

PILE NO.	TOTAL CALCULATE LOAD	
1	2,470	lbs
2	2,470	lbs
3	2,470	lbs
4	2,470	lbs
5	2,470	lbs
6	2,470	lbs

Maximum Total Load on Pile: 2,470 lbs

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EARTH CONTACT PRODUCTS, LLC

Product Datasheet

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

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PPB-103

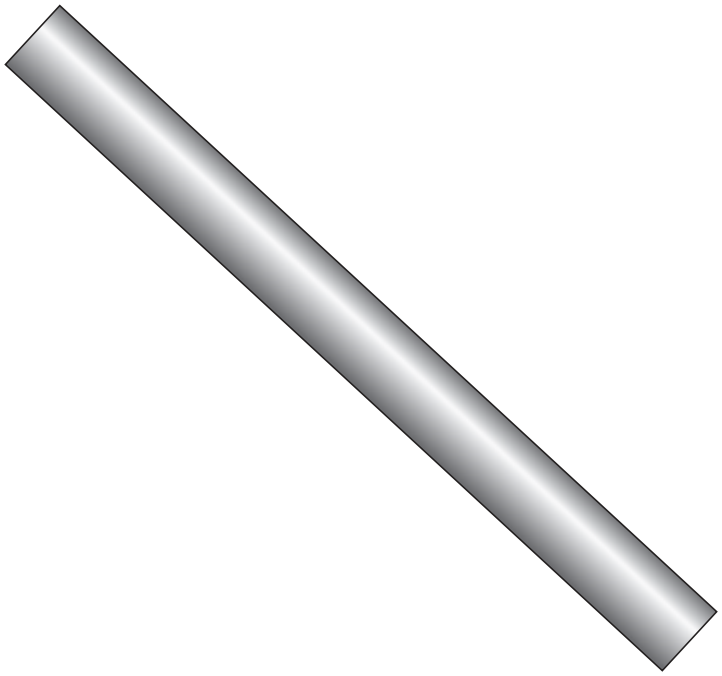
PPB-107

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.

PPB-350-CSP - Pier Pipe Extension



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Product Specifications	
Product Style	Support Jack
Component	PPB 350 Steel Pier Pipe Extension
Outside Diameter	3-1/2"
Wall Thickness	.165"
Length	42"
Coating	Galvanized
Pier Pipe	ASTM A500
Standard Package	19 per bundle
Weight	24 lbs. (456 lbs per bundle)

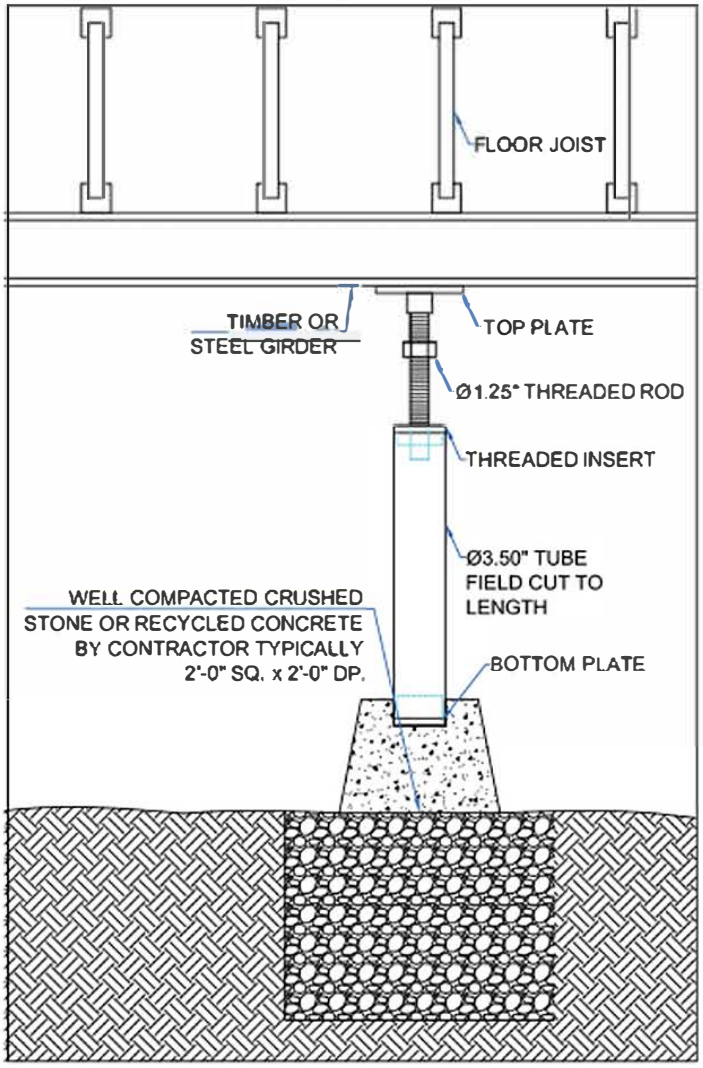
Notes

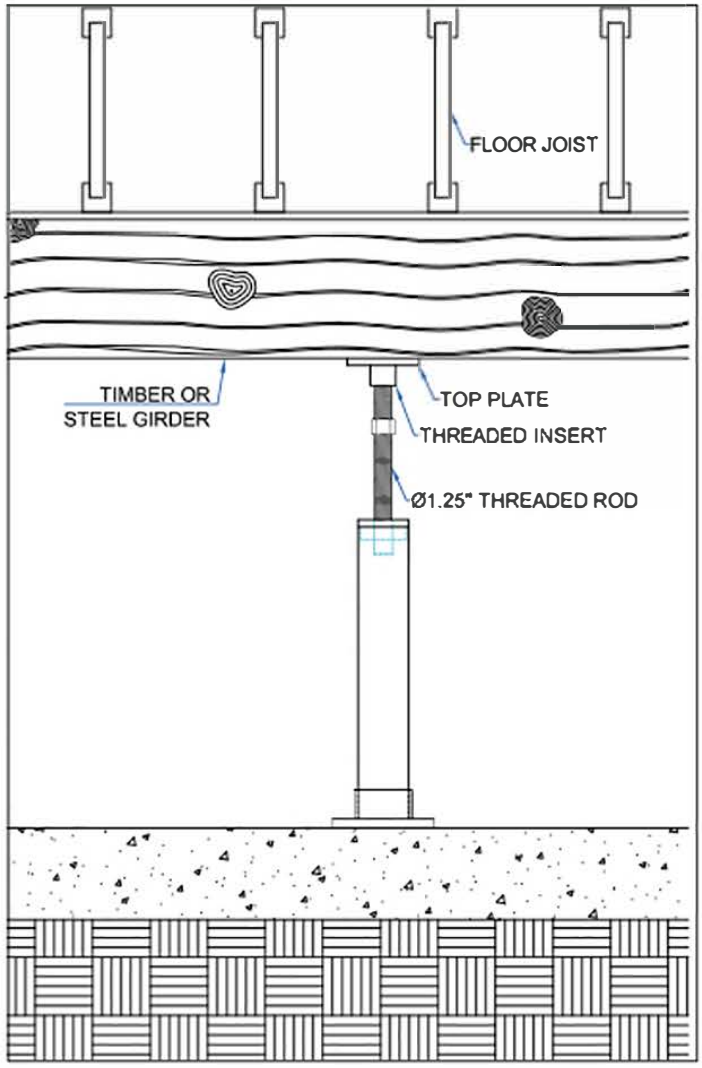
Used with PPB-103 and PPB-107 Support Jacks.

ECP Crawlspace Support Jacks

ECP's PPB-103 and PPB-107 crawlspace support jacks are designed to provide positive support to sagging floors above crawlspaces and to help remove the bouncing or squeaking caused by inadequate support. This supplemental support system has an ultimate capacity of 60,000lbs and is used where existing column supports have failed or settled.

ECP products are "Designed and Engineered to Perform".





Advantages:

- Quick to Install
- Positive Support System
- Economical
- Easily used in conjunction with crawlspace encapsulation
- Zinc Corrosion Protected
- 60,000 lb Ultimate Capacity

EARTH CONTACT PRODUCTS

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