

Cool and Cobb Engineering Company

Date: 10/17/2025
Job: Samuel Martinezl
Location: 1845 SW Haltiwanger Rd., Lake City, FL 32024

Project: 25-1392

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:

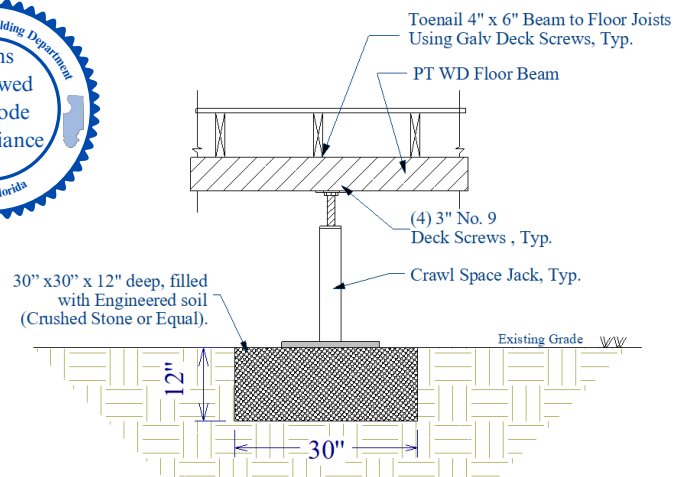
1. The Crawl Space Bracket attached in this design is approved as minimum size required for the loads.
2. Top plate to be secured to beam by: Wood Beam – (2) Min. #9 2 ½" galv. deck screws
3. This design is developed per field assessment data by contractor and is based on agreement between contractor 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.

10/17/2025

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.



Crawl Space Jack Detail
Scale - N.T.S.

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

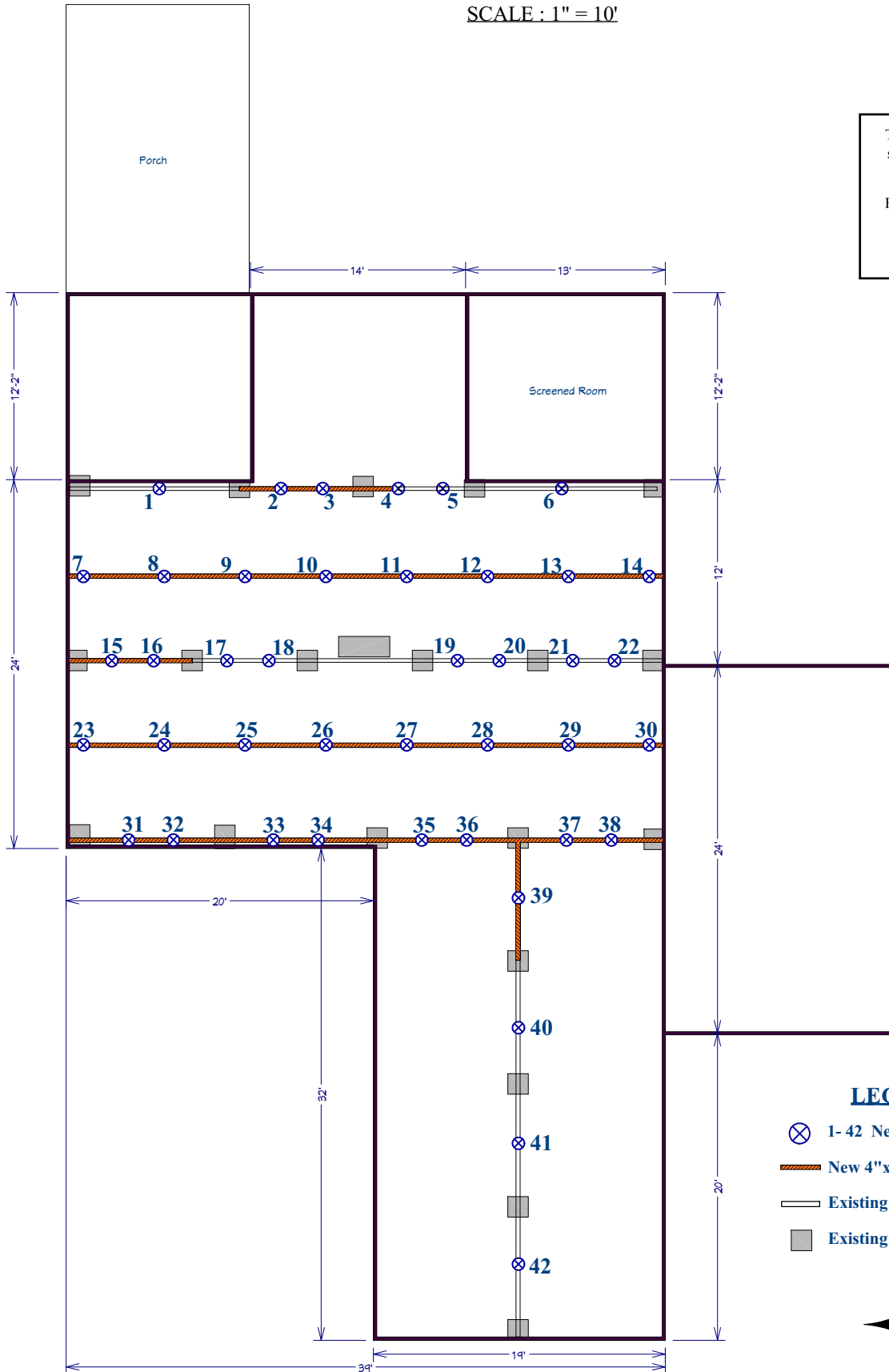
Contractor: Stable Foundations

Pier Identification & Location Plan

SCALE : 1" = 10'

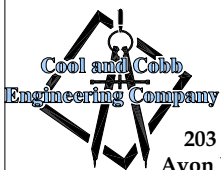
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LEGEND

- ⊗ 1- 42 New Crawl Space Jacks
- New 4"x6" PT WD Beam
- Existing Beam
- Existing Conc Pier



203 West Main St.
Avon Park, FL 33825

Kenneth F. Wheeler, P.E.
FL License No. 60417
(863) 657-2323 Office
ken@coolandcobb.com

Seal:

10/17/25

Project:

Samuel Martinez
1845 SW Haltiwanger Rd.,
Lake City, FL 32024

Project #:

25-1392

Cool and Cobb Engineering Company

Date: 10/17/25

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Attachment "A"

Total Load on Support (Live Load + Dead Load)

PILE NO.	Total Calculated Load	PILE NO.	Total Calculated Load
1	* 8,640 lbs	26	1,750 lbs
2	3,360 lbs	27	1,750 lbs
3	3,360 lbs	28	1,750 lbs
4	3,360 lbs	29	1,750 lbs
5	3,360 lbs	30	1,210 lbs
6	* 9,360 lbs	31	3,120 lbs
7	1,210 lbs	32	3,120 lbs
8	1,750 lbs	33	3,120 lbs
9	1,750 lbs	34	3,120 lbs
10	1,750 lbs	35	3,120 lbs
11	1,750 lbs	36	3,120 lbs
12	1,750 lbs	37	3,120 lbs
13	1,750 lbs	38	3,120 lbs
14	1,210 lbs	39	2,100 lbs
15	860 lbs	40	2,100 lbs
16	860 lbs	41	2,100 lbs
17	860 lbs	42	2,100 lbs
18	860 lbs		
19	860 lbs		
20	860 lbs		
21	860 lbs		
22	860 lbs		
23	1,210 lbs		
24	1,750 lbs		
25	1,750 lbs		

* Needs 30" x 30" x 12" Crushed Stone Baase under 16"x16" Jack Base

Maximum Total Load on Pile: 9,360 lbs

10/17/25

Kenneth F Wheeler, P.E.

PE# 60417

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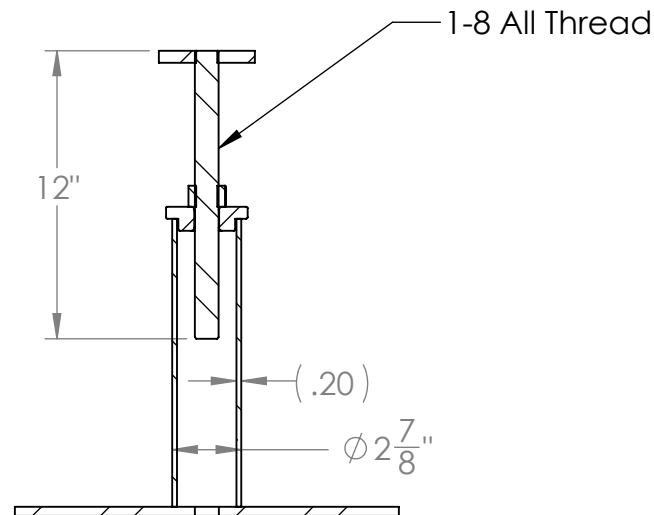
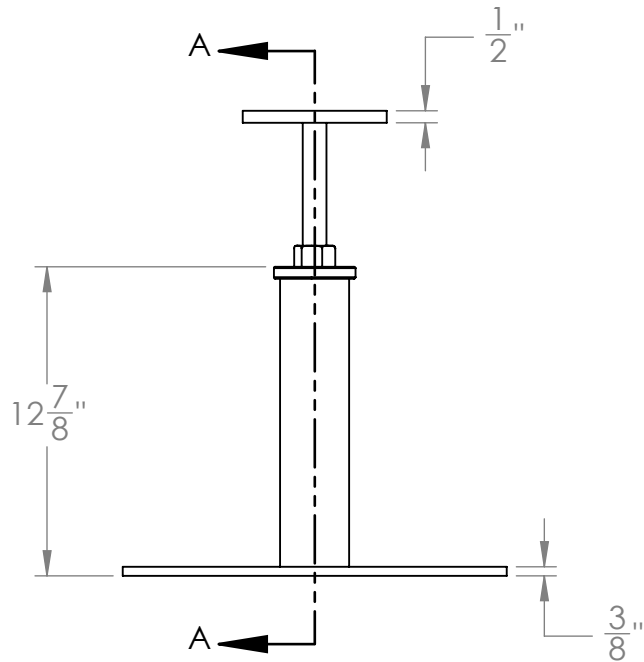
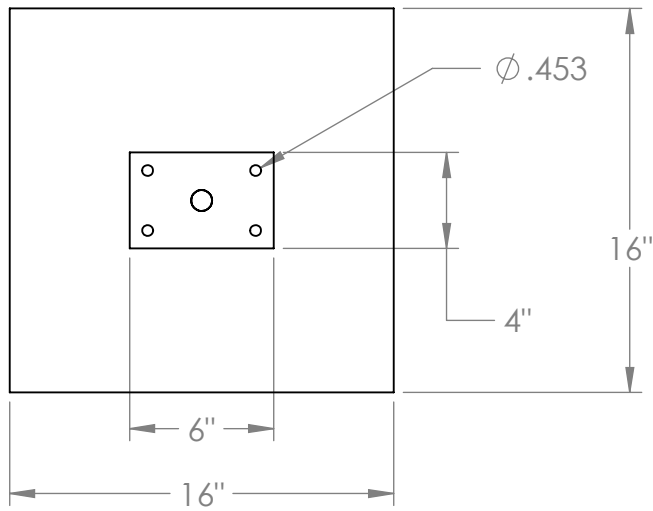
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Cool and Cobb Engineering Co.

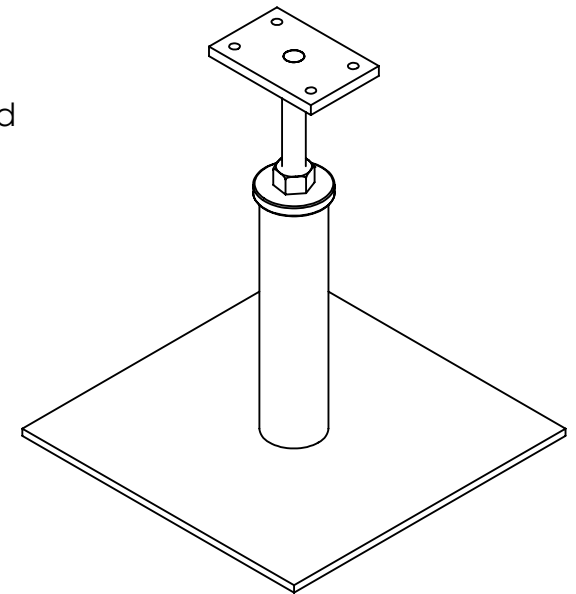
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10/17/2025
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 Cool and Cobb Engineering Co.
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SECTION A-A



Notes:

1. FINISH: HOT DIPPED
 GALVANIZED PER ASTM A123-
 (LATEST REV)



TMG Manufacturing
 www.tmgmfg.com
 5517 W. Sligh Ave, Suite 100
 Tampa, Florida 33634
 (813) 464-2299

TOLERANCES UNLESS OTHERWISE SPECIFIED:
 X/X ± 1/16; ANGLES ± 1°

	NAME	DATE	TITLE: Crawl Space Bracket, Galvanized		
DRAWN	Name	1-1-2013			
CHECKED	Name	1-1-2013			
ENG APPR.	TMG	2-19-2020	SIZE DWG. NO. REV A 872-2021-G 1		
MATERIAL N/A					
FINISH Noted		SCALE: 1:8 WEIGHT:40.45 SHEET 1 OF 1			