Cool and Cobb Engineering Company

Job: CARC- Advocates for Citizens with Disabilities, Inc. Date: 12/2/2025

Location: 127 SE Cameron Terr., Lake City, FL 32025 Project: 25-1448

PUSH PIER DESIGN

Design Scope Notes:

1. This design is developed per field assessment and layout provided by licensed foundation contractor. Cool and Cobb Engineering Co. have not performed an on-site assessment of the structure.
2. Location and quantity of supplemental supports have been determined by owner/contractor agreement.
3. The design intent offers supplemental support to stabilize the existing foundation in depicted area(s) only and will reduce the total pressures on existing soils. The structure may require additional stabilization to other affected areas not addressed in this design.
4. This design is based on the estimated load of the structure placed on shallow soils. No deep soils geotechnical testing information was provided for this design.
5. Cool and Cobb is not responsible for on-site engineering evaluations or inspections. If on-site inspection is required, contractor to obtain an approved 3rd party to inspect and provide Cool and Cobb Engineering inspection certification details and report.
6. This design does not address any possible sink hole activity as defined in Florida Statute § 627.706.

General Notes:

1. Contractor to ensure all piles are installed in accordance with ICC ES AC 358.
2. The first pile installed on site will be considered a test pile. If soft soil conditions are found, the contractor shall stop after the first installation and notify the engineer, for re-evaluation to ensure the shaft is adequately supported.
3. In the event stabilization results in any void below foundation, chemical grout should be applied to provide continuous support below concrete foundation and/or slab. Contractors should use caution as any lift could damage below slab utilities.
4. At completion of the installation, Cool and Cobb Engineering Co. shall be supplied with a signed and dated Installation Log to include final location, final depth, and installation torque psi of each pile along with any design changes (with reason for field changes), for Engineer approval and completion of the "As Built Certification".

LOADING ANALYSIS

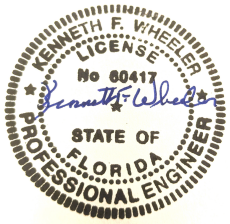
The loadings were determined for each pile specifically. The support locations and type are provided in the attached plan. Calculated total loadings, including both dead and live loads are provided in Attachment "A". Based on the total loading requirements, Push Pier driver is to be used to achieve pile capacity, including 2 to 1 safety factor of 22,500 lbs., which is greater than the maximum calculated load of 11,250 lbs. which occurs on pile No. 6 . This design is based on a maximum of 8' pile spacing with no piles under windows or door openings. Any piles installed less than 48" apart are to be battered 10° away from each other.

Contractor to certify installation meets above calculated loading by providing ± ¼" lift on foundation, and a minimum pier depth of fifteen (15') feet which is certified as meeting the requirements of the Florida Building Code 2023, 8th Edition, and good standard engineering practice.

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.

12/2/2025
Kenneth F. Wheeler, P.E.
State of Florida
Professional Engineer No. 60417



Digitally signed by Kenneth F Wheeler
Date: 2025.12.03 13:06:30 -05'00'

Contractor: **Foundation Professionals**

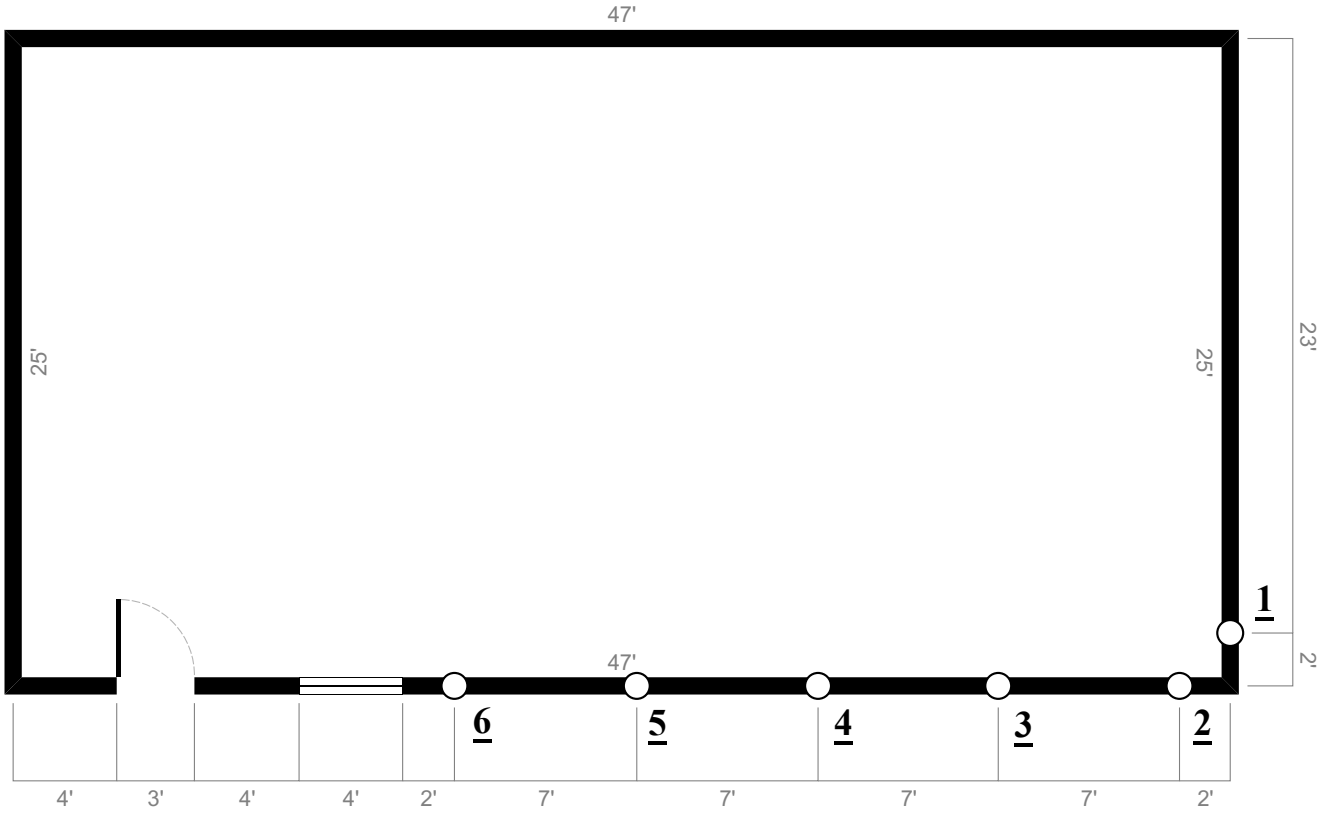
203 W. Main St.
Avon Park, FL 33825
Office: (863) 657-2323

Legend

Foundation

Exterior Pier

Window



Brick block Structure
Built: 1993
Foundation: Concrete block
Siding: Brick block
Roof: Metal

N

FPI to install up to 6 ECP concentric 250 push piers.

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Date: 2025.12.03 13:06:45 -05'00'

12/2/2025
Kenneth F. Wheeler, PE #60417
Cool and Cobb Engineering Co.
203 W. Main Street,
Avon Park, FL 33825

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CCEC# 24-1448

Cadle-Foundation stabilization

Foundation Professionals of Florida
CGC#1522700
3309 SW State Road 247
Lake City, FL 32024
www.foundationprosfl.com
(386) 755-3002

Project Address
CARC- Advocates for Citizens with Disabilities, Inc.
Amy Cadle
127 SE Cameron Terrace
Lake City, FL 32025
(386) 752-1880 | acadle@lakecity-carc.com

Created By
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Created 9/25/2025

Cool and Cobb Engineering Company

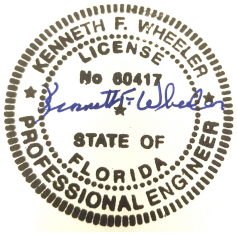
Job: CARC- Advocates for Citizens with Disabilities, Inc. Date: 12/2/2025
Location: 127 SE Cameron Terr., Lake City, FL 32025 Project # 25-1448

Attachment "A"

Total Load on Support (Live Load + Dead Load)

SUPPORT NO.	TOTAL CALCULATE LOAD
1	7,200 lbs
2	8,250 lbs
3	10,500 lbs
4	10,500 lbs
5	10,500 lbs
6	11,250 lbs

Maximum Total Load on Pile: 11,250 lbs



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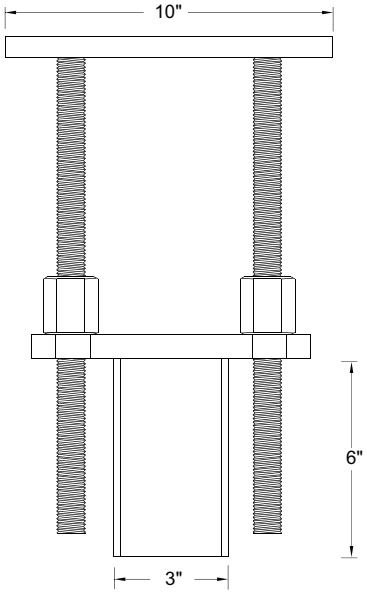
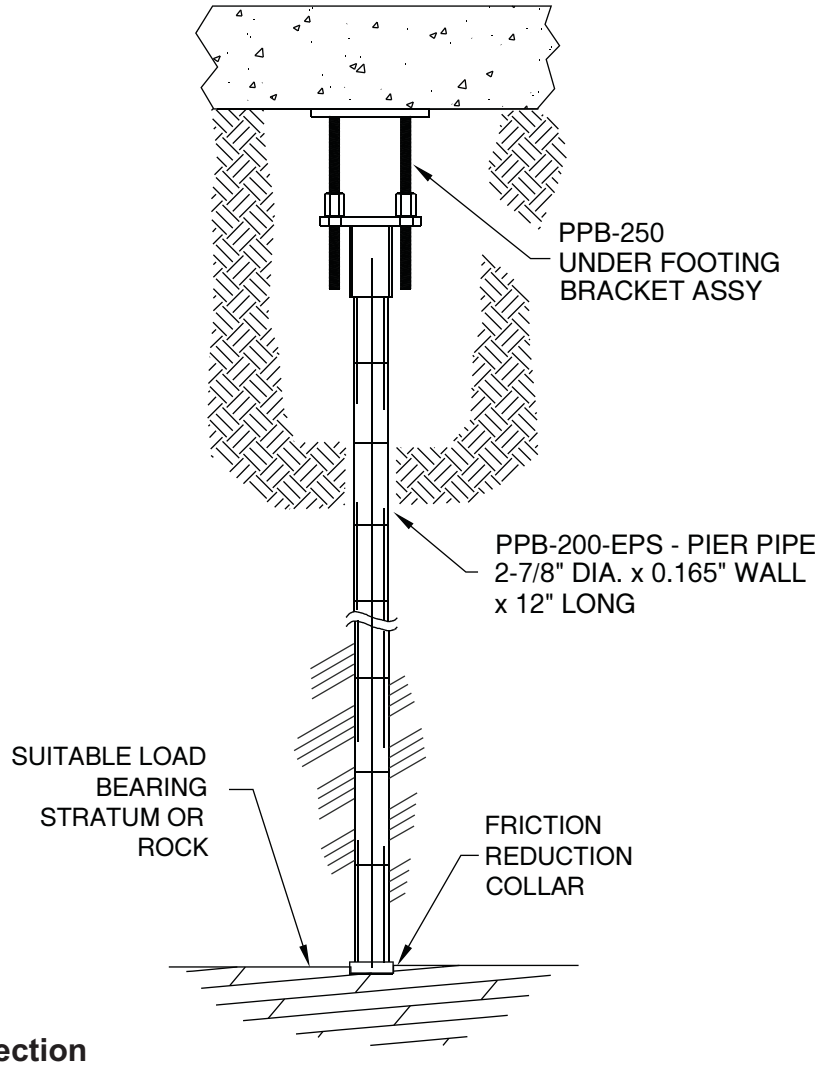
202 W. Main St.
Avon Park, FL 33824
Office: (863) 657-2323

ECP Steel Pier ™ - PPB-250 Utility Bracket Pier System



PPB-250
Utility Bracket Details



- **Ultimate Capacity – 54,000 lb**
- **Fully Adjustable Unlimited Lift Capability**
- **Installs From Outside or Inside Structure**
- **Friction Reduction Collar On Lead Pier Section**
- **Installs With Portable Equipment**
- **Installed With Little or No Vibration**
- **Installs To Rock or Verified Load Bearing Stratum**
- **100% of Piers Field Load Tested During Installation**

EARTH
CONTACT
PRODUCTS
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15612 S Keeler Terr.
Olathe, Ks 66062
Phone:913-393-0007
Fax:913-393-0008
info@getecp.com
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