Cool and Cobb Engineering Company

Date: 8/31/2021

Job: Barbara Simonian

Location: 352 Northwest Scenic Lake Drive
Lake City, FL 32055

PUSH PIER DESIGN ANALYSIS

The load requirements for the pilings designed to assist in supporting the identified areas of the subject residence were determined. The selected piling locations and the specific piling are identified on the Pier Identification and Location Plan attached. The calculated total loads on the piles in the specific location, including both dead and live loads are documented in the attached table which is designated as Attachment "A". Based on the total load requirements for each of these piles, the push pier driver is to be employed. The push pier driver should be employed with a calculated load of _6,000____ lbs., which will provide pile capacity, including the 2 to 1 safety factor of _12,000_____ lbs. which is greater than the maximum calculated total load of _6,000___ lbs. which occurs on the pile identified as no. __1__. Based on this analysis, the use of the push pier driver for the ECP piles with a specific load of _12,000____ lbs. and a minimum depth of 15' is approved and certified as meeting all the requirements of the Florida Building Code 2020 7th 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. After completion of installation, Cool and Cobb Engineering Company shall be supplied with a drilling log of the location and depths of each pile installed so they can evaluate the installation and prepare the "As Built" drawings.

General Notes:

1. A log of each pile to be kept by Contractor noting depth for each pile.
2. Piles installed less than 48" apart are to be battered 10° away from each other.
3. All pile calculations are based on a maximum spacing of 8'-0".
4. This design is based on the loads of the structure placed on the shallow soils under the structure.
5. 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.

8/31/2021
Kenneth F Wheeler, P.E.
State of Florida
Professional Engineer No. 60417

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Date: 2021.08.31 15:09:55 -04'00'

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

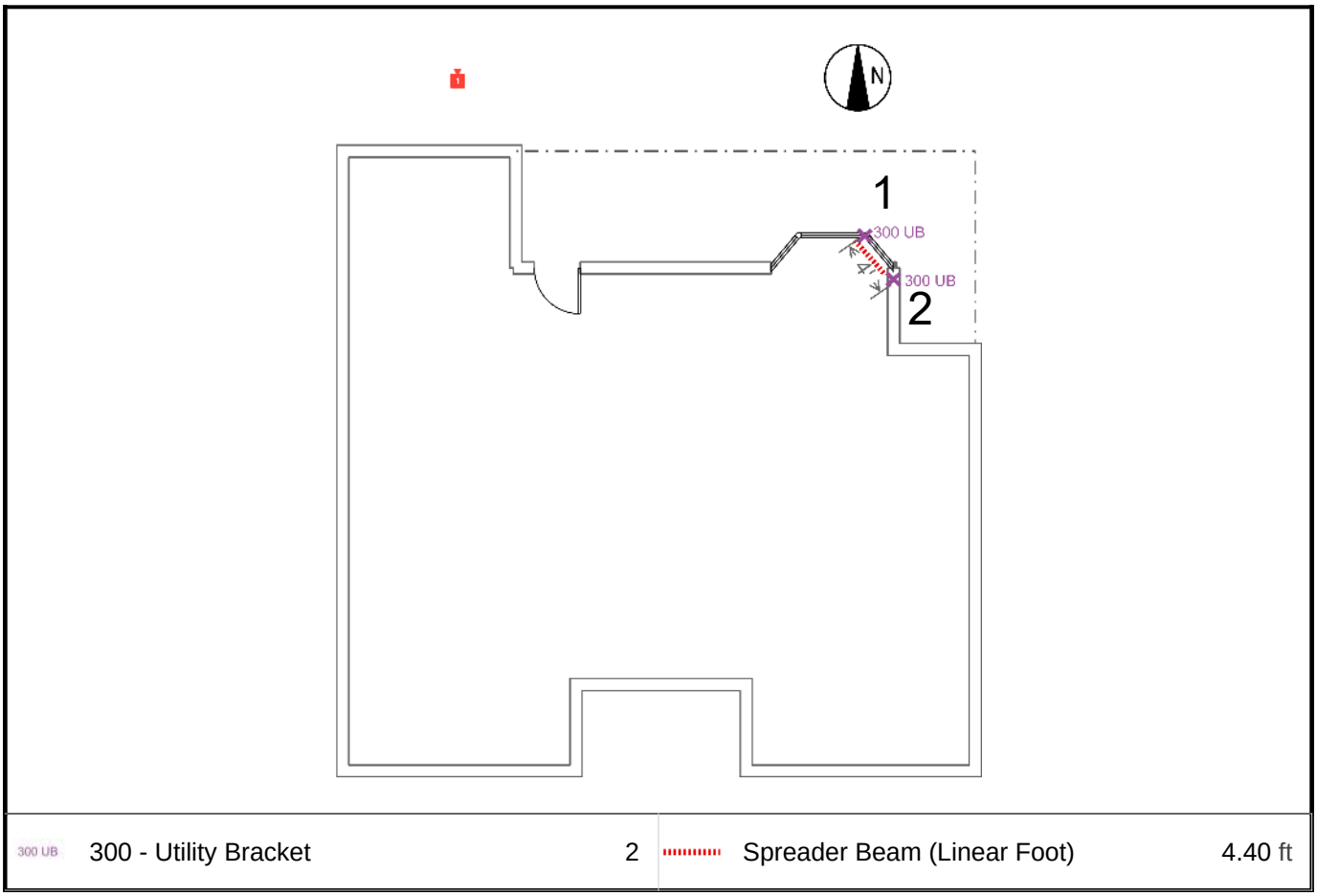
Contractor: Foundation Professionals

Foundation Professionals of Florida
P.O. Box 1625
Lake City, Florida 32056
www.foundationprosfl.com

Project Address
Barbara Simonian
352 Northwest Scenic Lake Drive
Lake City, FL 32055

Created By
Conner Rawlins
(386) 406-2191
08/26/2021

Repair Plan



300 UB	300 - Utility Bracket	2	Spreader Beam (Linear Foot)	4.40 ft

Year structure was built:
N/A

Construction:
Wood Frame

Foundation Type:
Concrete - Shallow Spread Footing

Veneer:
Brick

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8/31/2021
Kenneth F. Wheeler, P.E.
PE# 60417

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Cool and Cobb Engineering Co.
203 W. Main St.
Avon Park, FL 33825

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	Lake City, FL 32055

Attachment "A"

Total Load on Pile (Live Load + Dead Load)

PILE NO.	TOTAL CALCULATE LOAD
1	6,000 lbs
2	6,000 lbs

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Maximum Total Load on Pile: 6,000 lbs

8/31/2021

Kenneth F Wheeler, P.E.

PE# 60417

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

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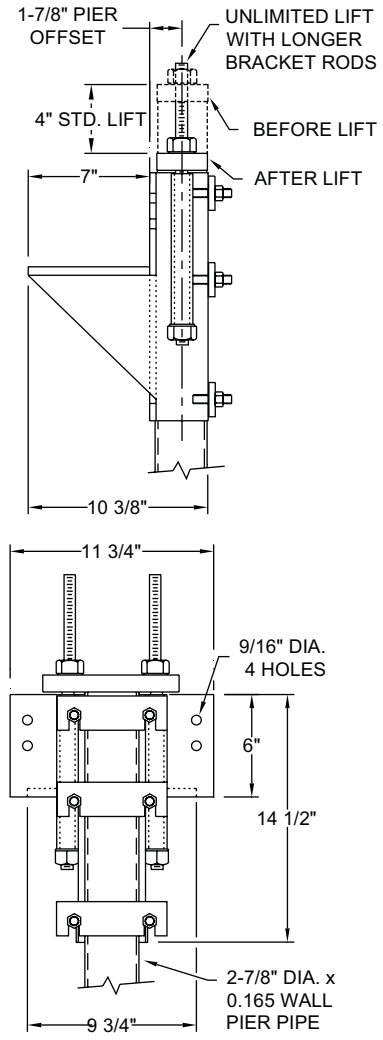
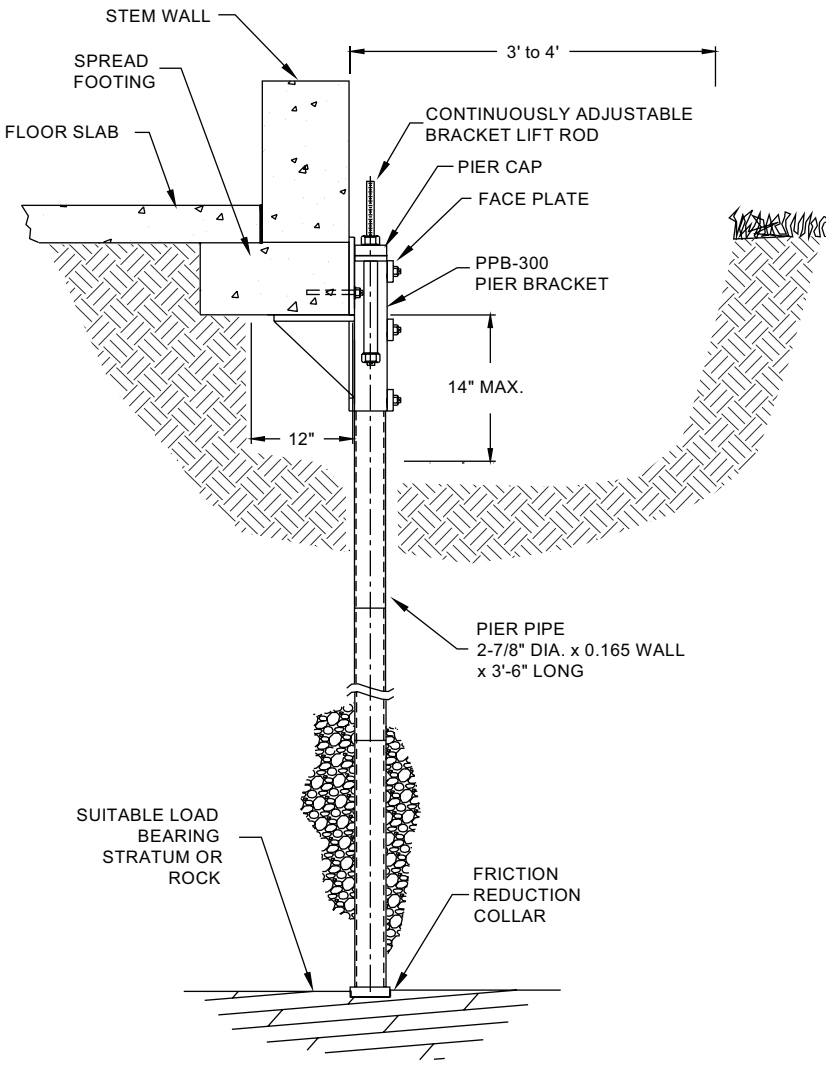
Cool and Cobb Engineering Co.
203 W. Main St.
Avon Park, FL 33825

ECP Steel Pier ™ - PPB-300 Pier System



PPB-300
Utility Bracket Details



PPB-300 Utility Bracket
Application Drawing

- Ultimate Capacity – 68,000 lb
- Standard Lift – 4”
- Fully Adjustable Unlimited Lift Capability
- Installs From Outside or Inside Structure
- 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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