

1. **GENERAL STRUCTURAL NOTES:**
REFER TO SUBSEQUENT PLAN AND DETAIL NOTES FOR VARIATIONS AND REQUIREMENTS SPECIFIC TO REFERENCED PROJECT.

NOTES ON DRAWINGS TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES.

2. **DESIGN CRITERIA:**
BUILDING CODE CONFORMANCE (MEETS OR EXCEEDS REQUIREMENTS):
2015 INTERNATIONAL BUILDING CODE (IBC)
2015 INTERNATIONAL RESIDENTIAL CODE (IRC)
2018 NORTH CAROLINA BUILDING CODE (NCBC)

DEAD LOADS:

ROOF DEAD LOAD	15 PSF
FLOOR DEAD LOAD	15 PSF
WALL DEAD LOAD	12 PSF
BRICK	130 PCF
CMU	140 PCF
CONCRETE	150 PCF

LIVE LOADS:

ROOF LIVE LOAD	20 PSF
FLOOR LIVE LOAD (RESIDENTIAL)	40 PSF

3. **MATERIALS:**
BRACKET PLATES - ASTM A36
(MIN YIELD STRESS, $F_y = 36$ KSI / MIN TENSILE STRESS, $F_u = 58$ KSI)
PIER TUBES - ASTM A500 GRADE B OR C
(MIN YIELD STRESS, $F_y = 50$ KSI / MIN TENSILE STRESS, $F_u = 55$ KSI)
EXTERNAL SLEEVE - ASTM A500 GRADE B OR C
(MIN YIELD STRESS, $F_y = 50$ KSI / MIN TENSILE STRESS, $F_u = 62$ KSI)
PIER CAP - ASTM A529 GRADE 50
(MIN YIELD STRESS, $F_y = 50$ KSI / MIN TENSILE STRESS, $F_u = 65$ KSI)
COIL ROD - ASTM A193 GRADE B7
(MIN YIELD STRESS, $F_y = \text{---}$ / MIN TENSILE STRESS, $F_u = 125$ KSI)
STEEL ANGLE SHAPES - ASTM A36
(MIN YIELD STRESS, $F_y = 36$ KSI / MIN TENSILE STRESS, $F_u = 58$ KSI)

4. **WELDING NOTES:**
CONFORM TO AWS D1.1. WELDERS SHALL BE CERTIFIED IN ACCORDANCE WITH AWS REQUIREMENTS. USE E70 ELECTRODES OF TYPE REQUIRED FOR MATERIALS TO BE WELDED.

5. **CORROSION PROTECTION:**
SACRIFICIAL DESIGN THICKNESS - CAPACITIES INCLUDE A SCHEDULED LOSS IN STEEL THICKNESS DUE TO CORROSION FOR BLACK, UNCOATED STEEL. ANCHORS ARE DESIGNED FOR 50-YEAR SCHEDULED SACRIFICIAL THICKNESS LOSS IN ACCORDANCE WITH ICC-ES AC308.

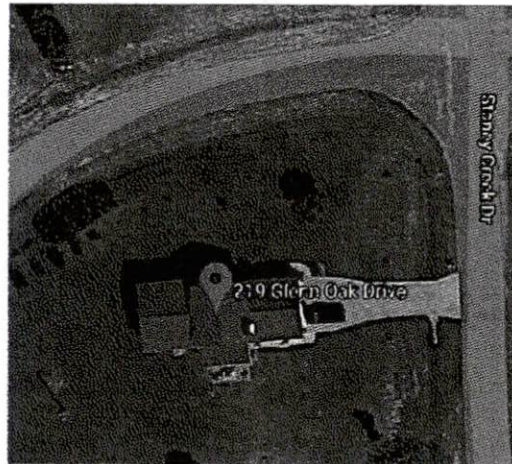
6. **INSTALLATION:**
SYSTEM TO BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS. MINIMUM INSTALLATION PRESSURE IS TO BE DETERMINED BY THE FOLLOWING EQUATION:

$$\text{PUSH PIER INSTALLATION PRESSURE (PSI): } [\text{DESIGN LOAD}] \times 2 / 9.62 \text{ IN}^2.$$

MINIMUM INSTALLATION DEPTH IS 10'-0" ± UNO.
CONTACT ENGINEER OF RECORD IF FIELD CONDITIONS DIFFER.

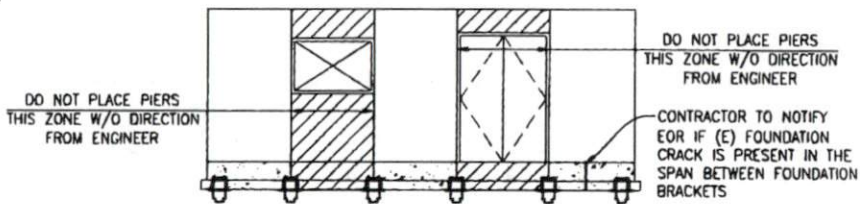
7. **EXISTING UTILITY LINES:**
CONTRACTOR TO REPAIR UTILITY LINES THAT MAY BE DAMAGED DURING INSTALLATION.

8. **PUSH PIER SPlicing:**
PILES ARE TO BE GRAVITY SPliced WITH FITTING COUPLERS. BUILDING WEIGHT WILL ENSURE JOINTS DO NOT SEPARATE.



VICINITY MAP

SCALE: NTS



NO PIER PLACEMENT ZONE

SCALE: NTS



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SOUTHEAST FOUNDATION & CRAWL SPACE REPAIR
DICKERSON RESIDENCE UNDERPINNING
219 GLENN OAK DRIVE
SANFORD, NC 27332

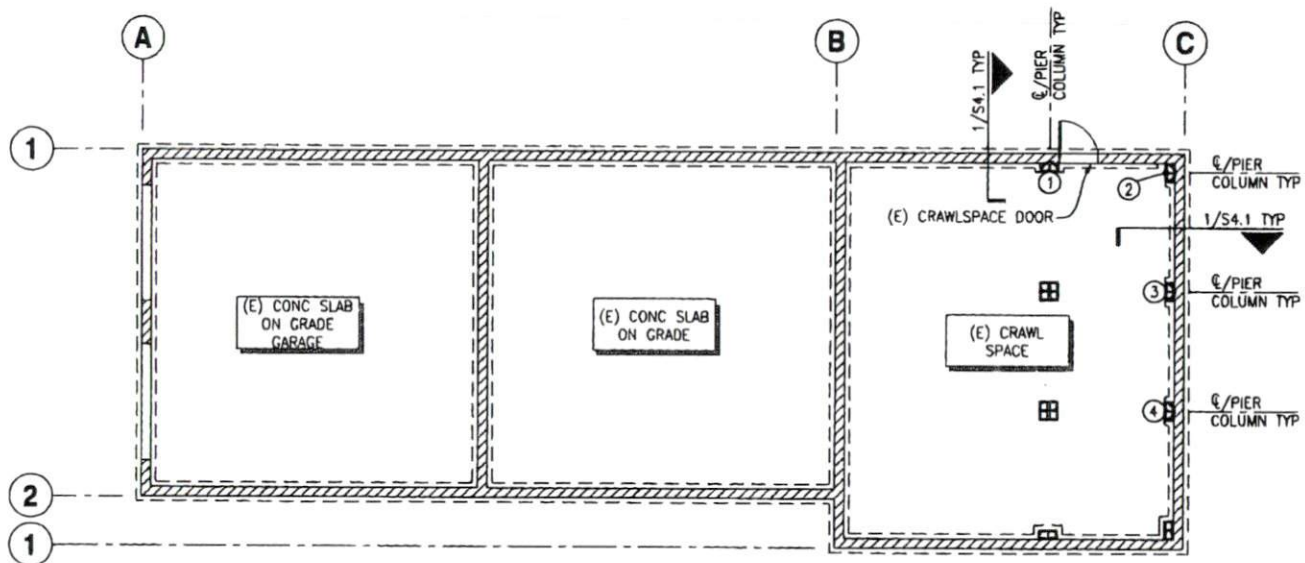
GENERAL NOTES

REVISIONS

PROJECT NO: SE19-066
DESIGNED BY: JN
DRAWN BY: JN
CHECKED BY: CVR, JLD
DATE: 10-03-2019

SHEET NO:
S1.1

1



(E) FOUNDATION/(N) PIER LAYOUT PLAN

SCALE: 1/8" = 1'-0"

(E) FOUNDATION/(N) PIER LAYOUT PLAN NOTES:

1. REFERENCE S1.1 FOR GENERAL REQUIREMENTS
2. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF DISCREPANCIES BETWEEN FIELD CONDITIONS & THOSE SHOWN IN THESE DOCUMENTS PRIOR TO CONSTRUCTION/INSTALLATION OF PIERS TYP
3. INDICATES (E) BRICK STEMWALL ON (E) CONC FOOTING (CONTRACTOR TO VERIFY 8"Wx5'-3"H (E) BRICK STEMWALL AND 1'-4"Wx10"DP (E) CONC FOOTING MIN TYP (NOTIFY ENGINEER OF RECORD IF FIELD CONDITIONS DIFFER))
4. SECTION CUT - DETAIL NUMBER/SHEET NUMBER
5. ALL SIMPSON HARDWARE IN CONTACT WITH PRESSURE TREATED LUMBER, CONCRETE OR MASONRY SHALL HAVE "ZMAX" COATING PER MFR, TYP
6. ALL CONSTRUCTION MATERIALS ON PLANS, ELEVATIONS & DETAILS ARE (N) UNO
7. INDICATES LOCATION OF FSI 288 PUSH PIER W/ FSI FS288BL OR FSI288B FOUNDATION BRACKET ((4) TOTAL)
PUSH PIER INSTALLATION NOTES:
 - MAX LOAD TO ANCHOR = 11,067 LBS
 - 2.875"Ø PIPE PILE W/ 0.165" THICK WALL
 - 3.5"Øx48" LONG PIPE SLEEVE W/ 0.216" WALL
 - MINIMUM 10'-0" INSTALLATION DEPTH
 - MINIMUM 2400 PSI INSTALLATION PRESSURE
 - MINIMUM 1/4" FOUNDATION LIFT DURING INSTALLATION



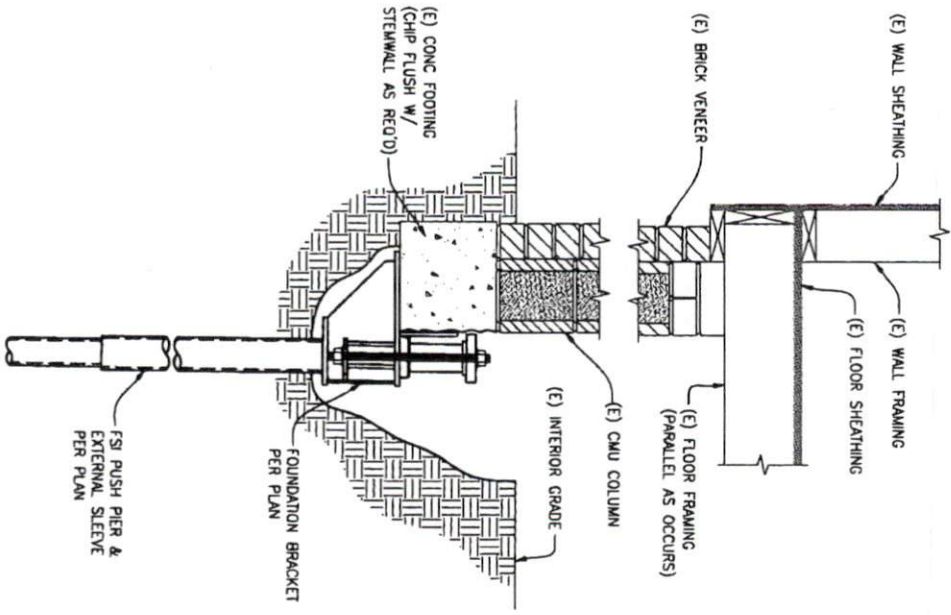
SOUTHEAST FOUNDATION & CRAWL SPACE REPAIR
 DICKERSON RESIDENCE UNDERPINNING
 219 GLENN OAK DRIVE
 SANFORD, NC 27332

(E) FOUNDATION/
(N) PIER LAYOUT
PLAN

REVISIONS

PROJECT NO:
SE19-068
 DESIGNED BY:
JN
 DRAWN BY:
JN
 CHECKED BY:
CVR, JLD
 DATE:
10-03-2019

SHEET NO:
S2.1




NOTE:
REF PLAN FOR LAYOUT & INSTALLATION REQ'S

(N) PUSH PIER TO (E) FOUNDATION DETAIL

SCALE: 1"=1'-0"

1



 <p>SFA SOUTHEAST FOUNDATION & CRAWL SPACE REPAIR 219 GLENN OAK DRIVE SANFORD, NC 27332</p>	<p>SOUTHEAST FOUNDATION & CRAWL SPACE REPAIR DICKERSON RESIDENCE UNDERPINNING 219 GLENN OAK DRIVE SANFORD, NC 27332</p>		<p>BRACKET DETAILS</p>	<p>REVISIONS</p>	<p>PROJECT NO.: SET 18.086 DESIGNED BY: JAN DRAWN BY: JAN CHECKED BY: CVR, JLD DATE: 10/06/2018</p>	<p>SHEET NO.: S4.1</p>
	<p>From: Southeast Foundation Repair 910 299 0208 10/03/2019 17:15 #277 P.005/005</p>					