

- 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 WALL DEAD LOAD	39 PSF
CONCRETE	150 PCF

LIVE LOADS:

ROOF SNOW 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, $F_y = ---$ / 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.

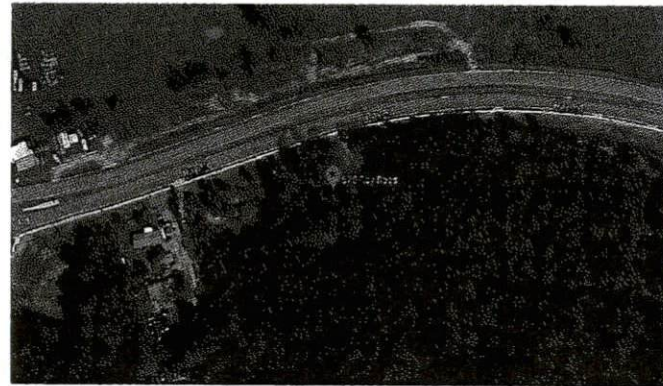
- 6. **INSTALLATION:**
SYSTEM TO BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS. MINIMUM INSTALLATION PRESSURE IS TO BE DETERMINED BY THE FOLLOWING EQUATION:

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.

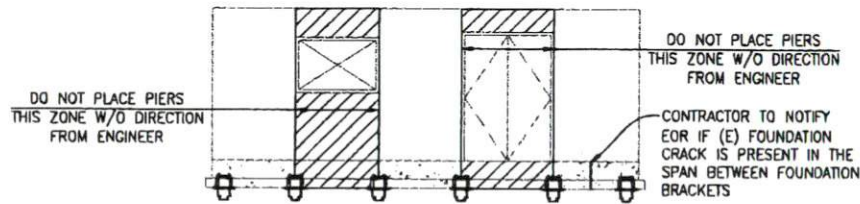
- 7. **EXISTING UTILITY LINES:**
CONTRACTOR TO REPAIR UTILITY LINES THAT MAY BE DAMAGED DURING INSTALLATION.

- 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

1

SOUTHEAST FOUNDATION & CRAWL SPACE REPAIR
CLEMENS RESIDENCE
575 RAY ROAD
SPRING LAKE, NC 28390

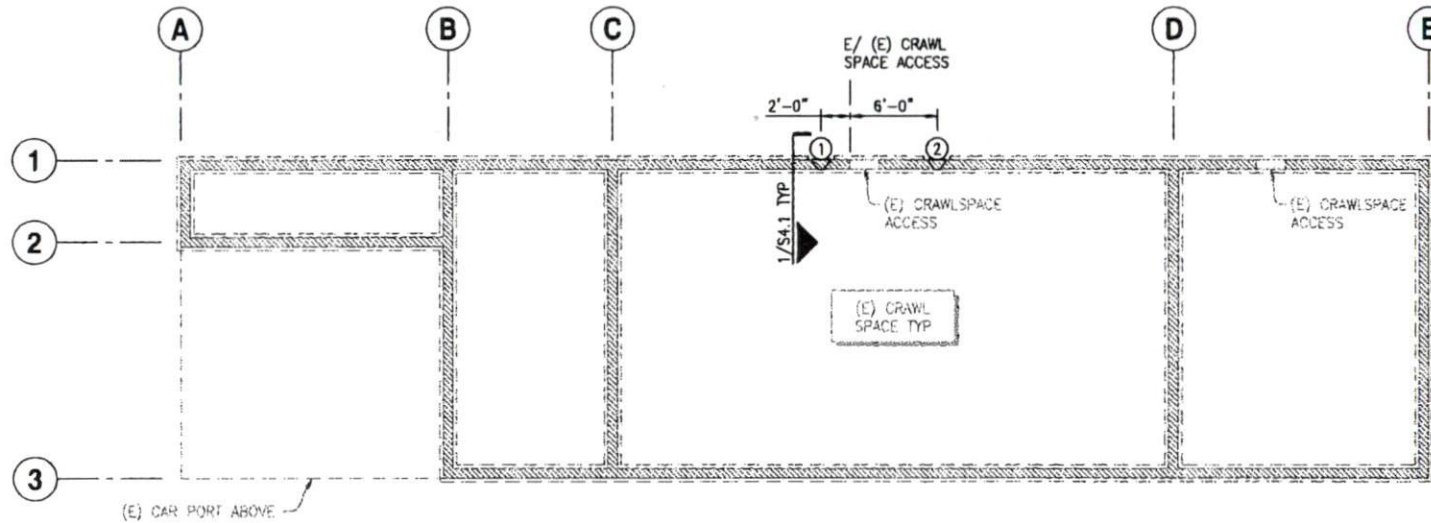
GENERAL NOTES

REVISIONS

PROJECT NO: SE19-027
DESIGNED BY: CAF
DRAWN BY: CAF
CHECKED BY: JLD
DATE: 06-03-2019

SHEET NO:

S1.1



(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 6"Wx3'-6"H (E) BRICK STEMWALL AND 1'-0"Wx10"DP (E) CONC FOOTING MIN TYP (NOTIFY ENGINEER OF RECORD IF FIELD CONDITIONS DIFFER))
4. SECTION CUT - DETAIL NUMBER/SHEET NUMBER

5. INDICATES LOCATION OF FSI 288 PUSH PIER W/ FSI FS288BL FOUNDATION BRACKET PER DETAILS ON S4.1 ((2) TOTAL)

PUSH PIER INSTALLATION NOTES:

- MAX LOAD TO ANCHOR = 10,936 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 2,300 PSI INSTALLATION PRESSURE
- MINIMUM 1/4" FOUNDATION LIFT DURING INSTALLATION

6. PIER SPACING SHALL BE AS INDICATED ON PLAN (8'-0" OC MAX) UNO
7. CONTRACTOR TO NOTIFY ENGINEER OF RECORD IF (E) FOUNDATION CRACK IS PRESENT IN THE SPAN BETWEEN FOUNDATION BRACKETS
8. ALL CONSTRUCTION MATERIALS ON PLANS, ELEVATIONS & DETAILS ARE (N) UNO



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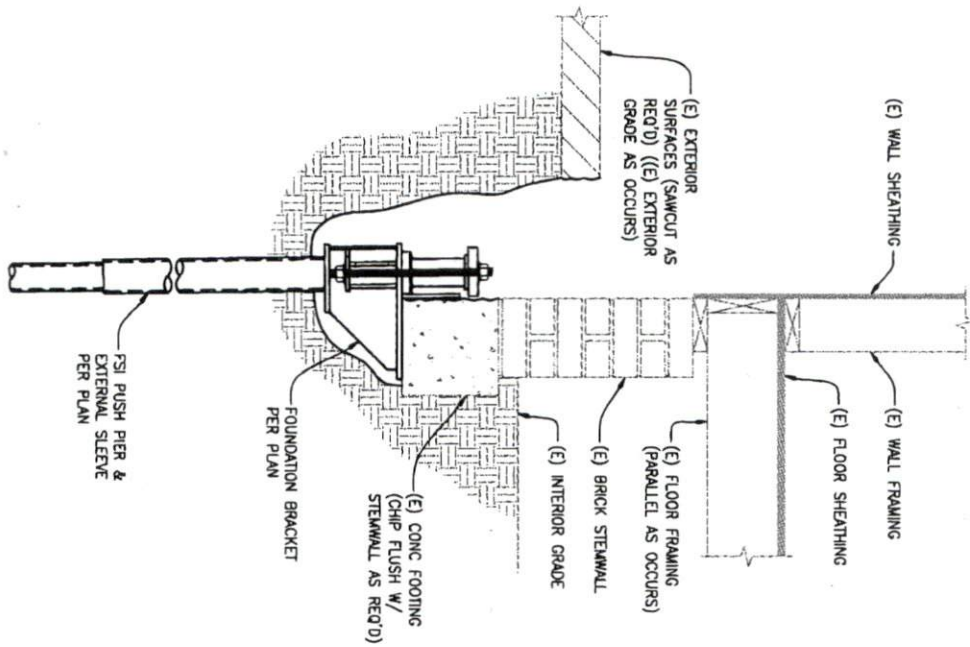
(E) FOUNDATION/
(N) PIER LAYOUT
PLAN

REVISIONS

NO.	DESCRIPTION

PROJECT NO:
SE19-027
DESIGNED BY:
CAF
DRAWN BY:
CAF
CHECKED BY:
JLD
DATE:
06-03-2019

SHEET NO:
S2.1



NOTE:
REF PLAN FOR LAYOUT & INSTALLATION REQ'S

(N) PUSH PIER TO (E) FOUNDATION DETAIL

SCALE: 1"=1'-0"

1



PROJECT NO:	SETBACK
DESIGNED BY:	CAF
DRAWN BY:	JLD
CHECKED BY:	JLD
DATE:	06/03/2019

REVISIONS	

PIER DETAIL

SOUTHEAST FOUNDATION & CRAWL SPACE REPAIR
 CLEMENS RESIDENCE
 575 RAY ROAD
 SPRING LAKE, NC 28390



SHEET NO:
S4.1