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)

2018 NORTH CAROLINA RESIDENTIAL CODE (NCRC)

DEAD LOADS:

15 PSF ROOF DEAD LOAD FLOOR DEAD LOAD 15 PSF WOOD WALL DEAD LOAD 12 PSF CMU BLOCK W/ BRICK VENEER DEAD LOAD 39 PSF CONCRETE 150 PCF

LIVE LOADS:

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

BRACKET PLATES - ASTM A36 (MIN YIELD STRESS, Fy = 36 KSI / MIN TENSILE STRESS, Fu = 58 KSI) PIER TUBES - ASTM ASOO GRADE B OR C (MIN YIELD STRESS, Fy = 50 KSI / MIN TENSILE STRESS, Fu = 55 KSI) EXTERNAL SLEEVE - ASTM A500 GRADE B OR C (MIN YIELD STRESS, Fy = 50 KSI / MIN TENSILE STRESS, Fu = 62 KSI) PIER CAP - ASTM A529 GRADE 50 (MIN YIELD STRESS, Fy = 50 KSI / MIN TENSILE STRESS, Fu = 65 KSI) COIL ROD - ASTM A193 GRADE B7 (MIN YIELD STRESS, Fy = 105 KSI / MIN TENSILE STRESS, Fu = 125 KSI) STEEL ANGLE SHAPES - ASTM A36

(MIN YIELD STRESS, Fy = 36 KSI / MIN TENSILE STRESS, Fu = 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 AC35B.

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

PUSH PIER INSTALLATION PRESSURE (PSI): [DESIGN LOAD] X 2 / 9.62 IN2.

MINIMUM INSTALLATION DEPTH IS 10'-0"± UNO.

CONTACT ENGINEER OF RECORD IF FIELD CONDITIONS DIFFER.

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

PUSH PIER SPLICING PILES ARE TO BE GRAVITY SPLICED WITH FITTING COUPLERS. BUILDING WEIGHT WILL ENSURE JOINTS DO NOT SEPARATE.

9. INSPECTION & TESTING: CONTINUOUS SPECIAL INSPECTION IS REQUI) DURING INSTALLATION PER 2015 IBC SECTION 1810.4.12.

THE SPECIAL INSPECTOR IS RESPONSIBLE I! VERIFYING AND RECORDING THE FOLLOWING:

- -PROJECT DESCRIPTION (ADDRESS, IIALLATION DATE, PERMIT NUMBER -PILE AND BRACKET CONFIGURATION
- -PART DESCRIPTION (PRODUCT MANUSTURER, BRACKET TYPE, PIER TYPE, PIER OUTSIDE DIAMETER, PIER WALL CKNESS)
- -PIER INCLINATION, LOCATION, DEPTHND INSTALLATION PRESSURE ACHIEVED



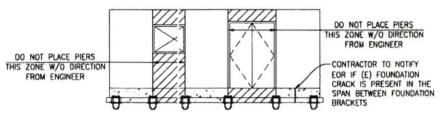
EXPIRES: 12/31/20

LOAD TESTING SHALL BE PERFORMED IN AURDANCE WITH ASTM METHOD 01143 (QUICK METHOD) ON 20 PERCENT OF PIERS AND WILL BE SELECTELY THE SPECIAL INSPECTOR. AN ALIGNMENT LOAD (AL) SHALL BE APPLIED TO THE PILE PRIOR TO SETTING I DEFLECTION MEASURING EQUIPMENT TO ZERO OR A REFERENCE POSITION. THE AL SHALL BE NO MORE TH 10% OF THE DESIGN LOAD. INCREMENTAL LOADING SHALL BE IN ACCORDANCE WITH THE FOLLOWING SCHEDU.

TEST LOADING SCHEDULE	D TIME	MAX DEFLECTION
AL (.10 DL MAX)	(IIN.	
0.25 DL	UL STABLE	
0.50 DL	UL STABLE	
0.75 DL	VIL STABLE	
1.00 DL	UL STABLE	
1.25 DL	IIL STABLE	
1.50 DL	ID FOR CREEP TEST (SEE BELOW)	0.04 INCHES
1.25 DL	IIL STABLE	
1.00 DL	LIL STABLE	
0.75 DL	UL STABLE	
0.50 DL	IIL STABLE	
0.25 DL	IIL STABLE	

LOAD TESTING CREEP ACCEPTANCE CRITERIHALL BE NO GREATER THAN 0.04 INCHES WITHIN A 10 MINUTE PERIOD. IF MOVEMENT IS OBSERVED GREAT THAN 0.04 INCHES WITHIN THE 10 MINUTE PERIOD THE LOAD TEST SHALL BE HELD FOR AN ADDITIONAL 50 MITES, THE PIER IS TO BE DEEPENED AND RE-TESTED, OR THE PIER IS TO BE ABANDONED AND REPLACED WITH NEW PIER. IF THE LOAD TEST IS TO BE HELD THE PIER MOVEMENTS SHALL BE MEASURED AT 15, ; 30, 40, 50, AND 60 MINUTES. THE CREEP VERSUS THE LOGARITHM OF TIME SHALL BE PLOTTED. IF THE CREEIATE IS LESS THAN 0.080 INCHES BETWEEN 6 AND 60 MINUTES, THE LOAD TEST SHALL BE CONSIDERED SLESSFUL.

PUSH PIER TEST PRESSURE (PSI): [DESIGN JAD] X 1.5 / 9.62 IN2.



NO PIER PLACEMENT ONE

SCALE: NTS



REPAIR **FOUNDATION** MONZON RESIDENCE 210 REMINGTON HILL DRIV BUNNLEVEL, NC 28923 OUTHEAST

GENERAL NOTES

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PROJECT NO: SE20-048 DESIGNED BY: DRAWN BY: MEK CHECKED BY: DATE: 04-08-2020

SHEET NO

S1.1



EXPIRES: 12/31/20

ACCUMENTION REPAINED NET MONZON RESIDENCE 210 REMINGTON HILL DRIVE BUNNLEVEL, NC 28323

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

- 1. REFERENCE S1.1 FOR GENERAL REQUIREMENTS
- CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF DISCREPANCIES BETWEEN FIELD CONDITIONS & THOSE SHOWN IN THESE DOCUMENTS PRIOR TO CONSTRUCTION/INSTALLATION OF PIERS TYP
- J. INDICATES (E) CMU STEMWALL W/ BRICK VENEER ON (E) CONC FOOTING (CONTRACTOR TO VERIFY 8"Wx1'-6"H (E) CMU STEMWALL AND 1'-4"Wx12"DP (E) CONC FOOTING MIN TYP (NOTIFY ENGINEER OF RECORD IF FIELD CONDITIONS DIFFER IN THE AREA OF WORK))
- 4. X/SXX SECTION CUT DETAIL NUMBER/SHEET NUMBER
- INDICATES LOCATION OF FSI 288 PUSH PIER W/ FSI FS288BL FOUNDATION BRACKET ((6) TOTAL)

PUSH PIER INSTALLATION NOTES:

- . MAX LOAD TO ANCHOR = B766 LBS
- . 2.875 PIPE PILE W/ 0.165 THICK WALL
- . 3.5" #x48" LONG PIPE SLEEVE W/ 0.216" WALL
- MINIMUM 10'-0" INSTALLATION DEPTH
- . MINIMUM 2000 PSI INSTALLATION PRESSURE
- MINIMUM 1/4" FOUNDATION LIFT DURING INSTALLATION
- 6. PIER SPACING SHALL BE AS INDICATED ON PLAN (5'-6" OC MAX) UNO
- CONTRACTOR TO NOTIFY ENGINEER OF RECORD IF (E) FOUNDATION CRACK IS PRESENT IN THE SPAN BETWEEN FOUNDATION BRACKETS
- ALL CONSTRUCTION MATERIALS ON PLANS, ELEVATIONS & DETAILS ARE (N) UNO

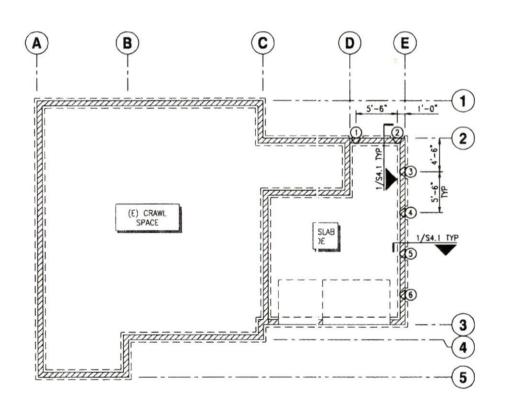
E) FOUNDATION/ N) PIER LAYOUT PLAN

VISIONS

OJECT NO: E20-048 SIGNED BY: IEK AWN BY: IEK IECKED BY: VR, JLD TE: 4-06-2020

EET NO:

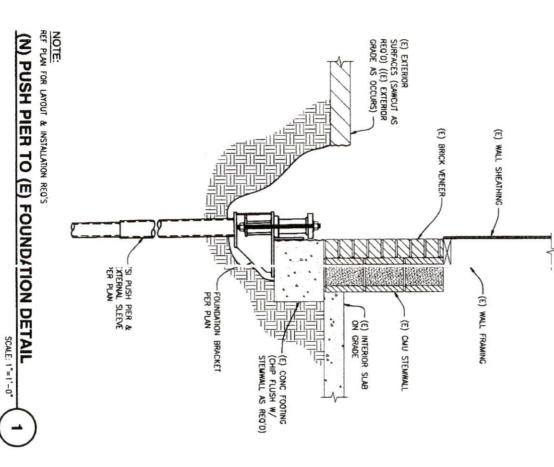
S2.1

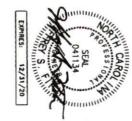


(E) FOUNDATION/(N) PIER LAYOUT PLAN

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







SOLITHEAST FOLINDATION REPAIR MONZON RESIDENCE

210 REMINGTON HILL DRIVE BUNNLEVEL, NC 28323



PRILECT NO: SI 20-049 DEI GALLO DAI 3: DAI NED BY: OH 20-049 DAI 3: DAI

IER DETAILS

