GENERAL REQUIREMENTS

REFER TO SUBSEQUENT PLAN AND DETAIL NOTES FOR VARIATIONS AND REQUIREMENTS SPECIFIC TO REFERENCED PROJECT.

NOTES ON DRAWINGS TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES.

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:

FLOOR DEAD LOAD 15 PSF INTERIOR WOOD WALL DEAD LOAD 9 PSF

LIVE LOADS:

FLOOR LIVE LOAD (RESIDENTIAL) 40 PSF

DEFLECTIONS:

L/240 TOTAL LOAD DEFLECTION LIMIT LIVE LOAD DEFLECTION LIMIT L/360

REFERENCE STANDARDS:

CONFORM TO IBC CHAPTER 18 "SOILS & FOUNDATIONS"

DESIGN SOIL VALUES:

ALLOWABLE FOUNDATION PRESSURE (ASSUMED) 1500 PSF



12/31/22 **EXPIRES:** DATE SIGNED: 02/21/22

FSI SMARTJACK SYSTEM INFO						
PART	DESCRIPTION	COMMENTS	MIN YIELD STRESS, F _y	MIN TENSILE STRESS, Fu		
SJQ350T	ASTM A500 GRADE C HD GALV, PER ASTM 123, HSS $3^{1}/_{2}$ x $3^{1}/_{2}$ x 0.095 "x'L' SQUARE TUBE		50 KSI	62 KSI		
S4x7.7	ASTM A992 STEEL S SHAPE BEAM (L=120" & 144" - FIELD CUT TO LENGTH)	STEEL BEAM CONDITION	50 KSI	65 KSI		
SJQ125ATR	ASTM A108 GRADE 1018 $1\frac{1}{4}$ "øx0'-10"L THREADED ROD W/ WELDED HEAVY HEX NUT		54 KSI	64 KSI		
SJQ350BP-C	ASTM A572 GRADE 50 $\mathbb{R}^3/_{16}$ x16x3'-0" ASTM A572 GRADE 50 $\mathbb{R}^3/_{16}$ x3 $^1/_2$ " STIFFENERS	COMPETENT NATIVE SOIL W/ SAND FTG CONDITION PER PLAN	50 KSI	65 KSI		
SJ350TPS4	ASTM A36 BENT $\mathbb{R}^3/_{16}$ x3x0'-6" ASTM A53 GRADE B $1^3/_4$ " ϕ x $^1/_4$ "x1.38"L CONFINING RING (AT END & INTERMEDIATE LOCATIONS)	STEEL BEAM CONDITION	36 KSI 35 KSI	58 KSI 60 KSI		
SJQ350TP-A	ASTM A36 $\frac{1}{8}$ %x4 $\frac{1}{2}$ x0'-4 $\frac{1}{2}$ " ASTM A53 GRADE B $\frac{1}{4}$ 0x $\frac{1}{4}$ 0x $\frac{1}{4}$ 0x1 $\frac{3}{8}$ 0L CONFINING RING	WOOD BEAM CONDITION	36 KSI 35 KSI	58 KSI 60 KSI		
SJQ350TI	ASTM A36 BENT ${\mathbb R}0.120$ " ASTM A572 GRADE 50 ${\mathbb R}^3/_4$ x3.63x0'-3.63" W/ $1^1/_4$ "ø THREAD TAP		36 KSI 50 KSI	58 KSI 65 KSI		

NOTE:

INSTALL PER MFR RECOMMENDATIONS



SUPPORT FLOOR RESIDENCE GILBERT

619 RAIFORD RD ERWIN, NC 28339

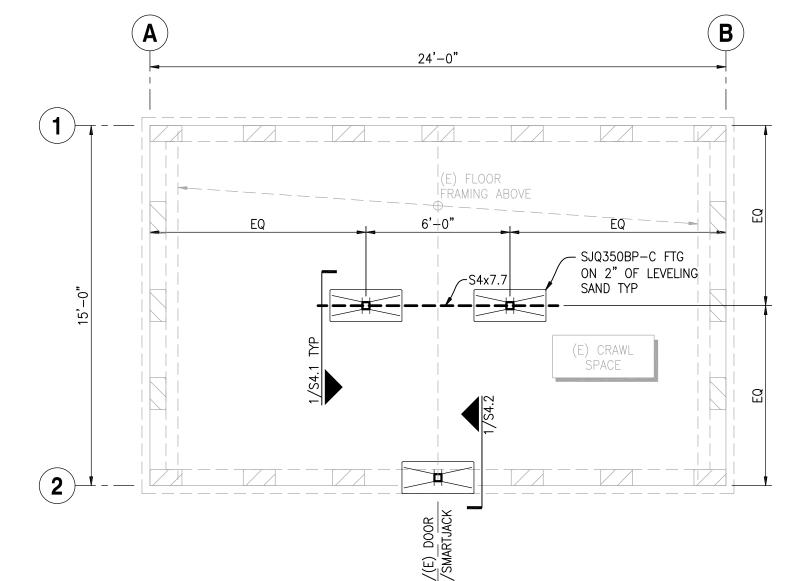
GENERAL NOTES

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PROJECT NO: SE22-045 DESIGNED BY: DRAWN BY: CHECKED BY: DATE: 02-21-2022

SHEET NO:

S1.1



(E) FOUNDATION/(N) SMARTJACK LAYOUT PLAN

SCALE: $\frac{1}{4}$ "=1'-0"



(E) FOUNDATION/(N) SMARTJACK 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 WORK TYP
- 3. INDICATES (E) CMU PILASTER ON A SHEET METAL WALL ALL ON (E) CONC FOOTING (NOTIFY ENGINEER OF RECORD IF FIELD CONDITIONS DIFFER IN THE AREA OF WORK))
- 4. Land Section Cut Detail Number/Sheet Number
- 5. INDICATES LOCATION OF FSI SJQ350 SMARTJACK ((3) TOTAL)
 MAX LOAD TO SMARTJACK = 2,659 LBS
- 6. SMARTJACK SPACING SHALL BE AS INDICATED ON PLAN (6'-0" OC MAX)
- 7. REPLACE "IN-KIND" ALL (E) WOOD MEMBERS (JOISTS, PURLINS, SUBPURLINS, SHEATHING, STUDS, WALL PLATES) WHICH SHOW SIGNS OF DRY ROT OR STRUCTURAL DAMAGE
- 8. CONTRACTOR SHALL NOT REMOVE ANY (E) POSTS OR PRE-CAST FOOTINGS SUPPORTING THE (E) FLOOR FRAMING PRIOR TO SUPPORTING THE (E) FLOOR FRAMING ABOVE
- 9. FILL ALL VISIBLE CRACKS IN THE FOUNDATION WALL WITH HYDRAULIC CEMENT OR EPOXY
- O. ALL CONSTRUCTION MATERIALS IN THESE DOCUMENTS ARE (N) UNO

RESIDENCE

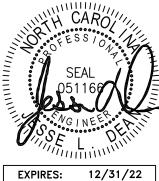
GILBERT

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PROJECT NO: SE22-045 DESIGNED BY: ST DRAWN BY: ST CHECKED BY: JLD DATE: 02-21-2022

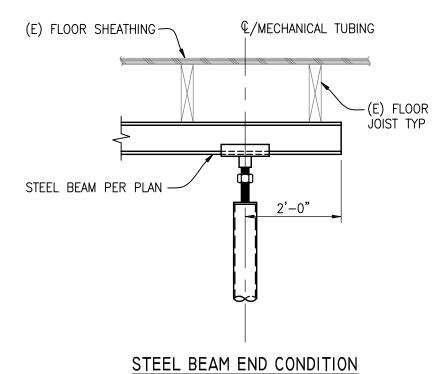
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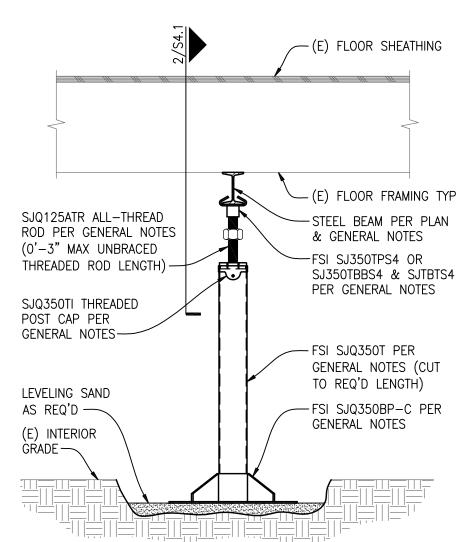
S2.1



EXPIRES:

DATE SIGNED: 02/21/22





NOTES:

- REF PLAN FOR LAYOUT & INSTALLATION REQ'S
- INSTALL PER MFR RECOMMENDATIONS

FSI SJQ350 SMARTJACK IN CRAWLSPACE

NOTE:

REF 1/S4.1 FOR CALLOUTS IN COMMON

(N) SMARTJACK W/ SUPPLEMENTAL BEAM

SCALE: 1"=1'-0"

SHEET NO:

S4.1

SCALE: 1"=1'-0"

SUPPORT FLOOR RESIDENCE

619 RAIFORD RD ERWIN, NC 28339

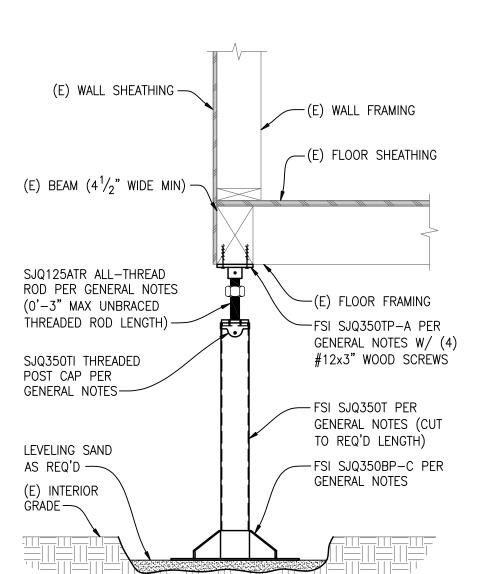
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SMARTJACK DETAILS

GILBERT

REVISIONS

PROJECT NO: SE22-045 DESIGNED BY: DRAWN BY: ST CHECKED BY: JLD 02-21-2022





EXPIRES:

12/31/22

DATE SIGNED: 02/21/22

SUPPORT

sfa

RESIDENCE FLOOR GILBERT

619 RAIFORD RD ERWIN, NC 28339

SMARTJACK DETAIL

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PROJECT NO: SE22-045 DESIGNED BY: ST DRAWN BY: ST CHECKED BY: JLD DATE: 02-21-2022

SHEET NO:

S4.2