

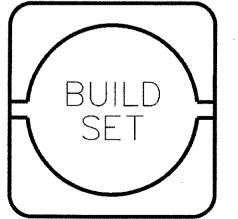
DESCRIPTION:

LEFT/RIGHT ELEVATIONS

FOX HILL
DATE:

 $\frac{1}{24}/21$

ARCHITECT IS NOT RESPONSIBLE FOR THE STRUCTURAL ELEMENTS OF THESE PLANS. A STRUCTURAL ENGINEER MAY NEED TO VERIFY ALL STRUCTURAL ASPECTS OF THESE PRINTS BEFORE CONSTRUCTION BEGINS. FIELD CONDITIONS MAY BE DIFFERENT FROM PLAN. ALL STATE AND LOCAL CODES TAKE PRECIDENCE OVER THESE PLANS. CONTRACTOR WILL BE RESPONSIBLE FOR PLAN INTEGRITY AND CODE COMPLIANCE



LSMO SVF 65 3106 SW BLUE RIBBON ST.

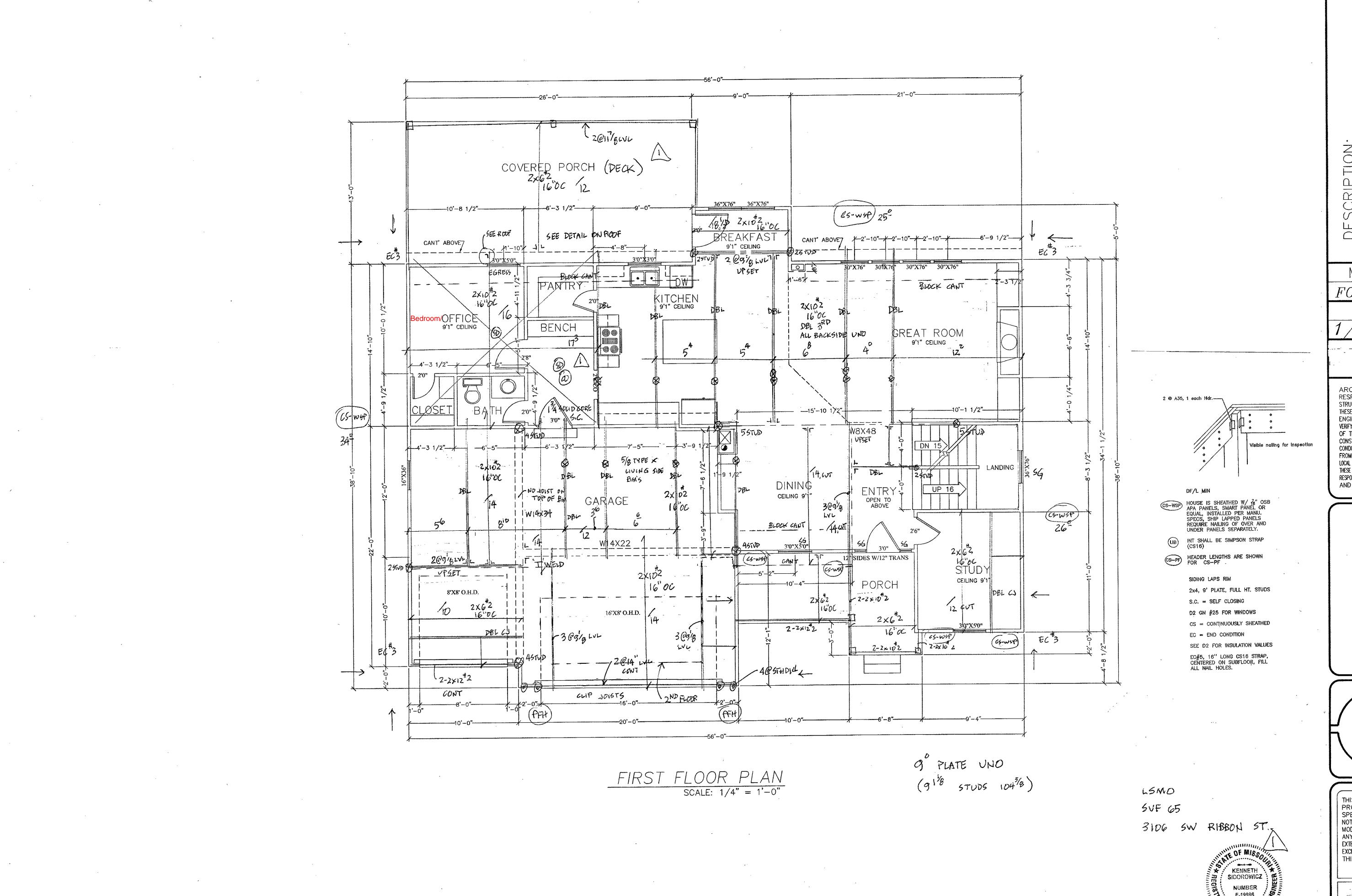


THIS DRAWING IS THE PROPERTY OF BILLY SPELLERBERG AND IS NOT TO BE REPRODUCED, MODIFIED, OR USED FOR ANY OTHER PROJECT, OR EXTENTION OF THIS PROJECT, EXCEPT BY AGREEMENT WITH THIS COMPANY.

 $2_{of}6$

HEET NoteLease FO

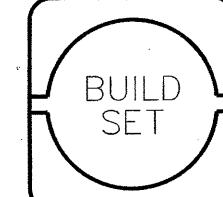
DELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/25/2021



FRAMING FLOORMODEL:

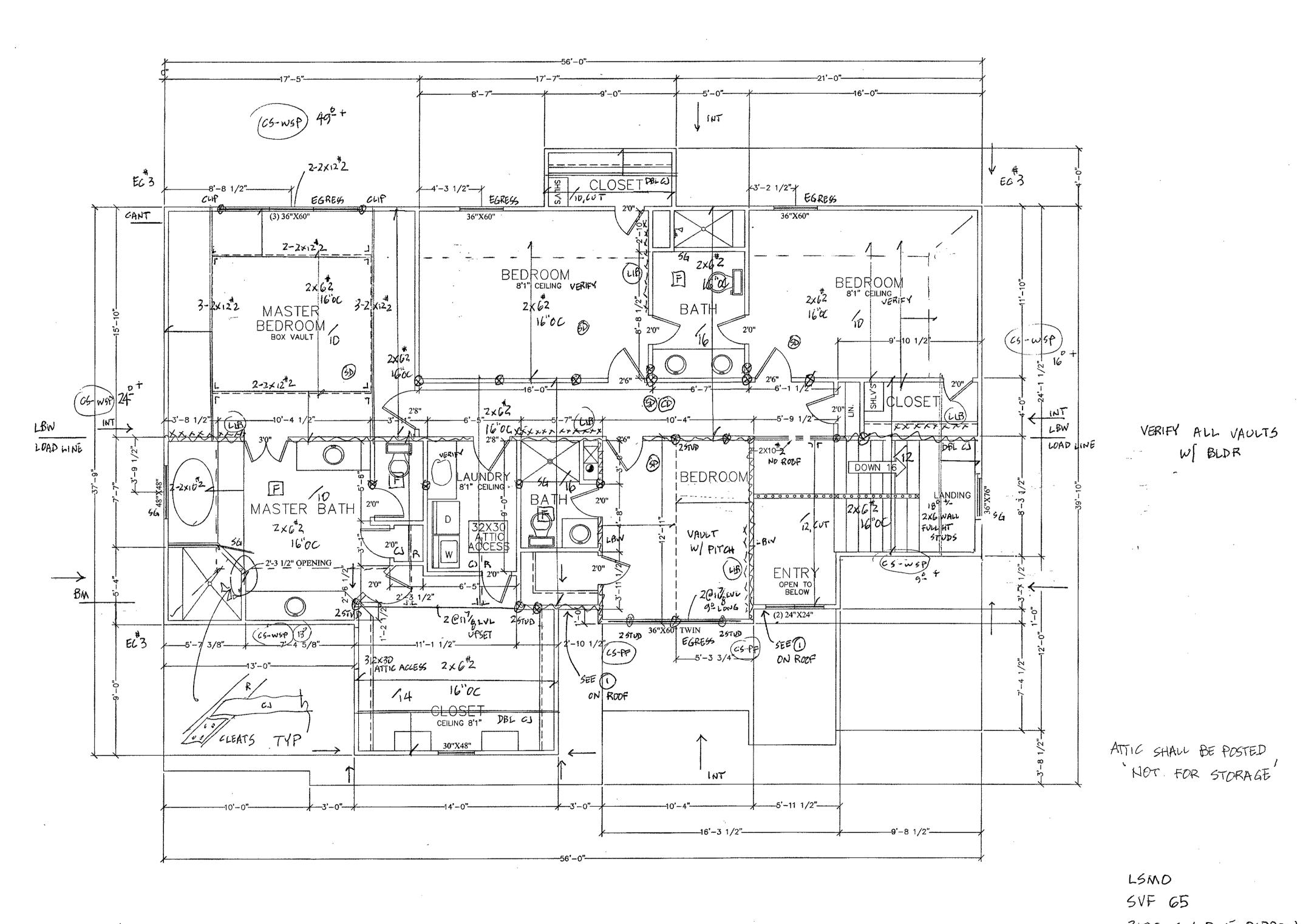
FOX HILL DATE:

ARCHITECT IS NOT RESPONSIBLE FOR THE STRUCTURAL ELEMENTS OF THESE PLANS. A STRUCTURAL ENGINEER MAY NEED TO OF THESE PRINTS BEFORE CONSTRUCTION BEGINS. FIELD CONDITIONS MAY BE DIFFERENT FROM PLAN. ALL STATE AND LOCAL CODES TAKE PRECIDENCE OVER THESE PLANS. CONTRACTOR WILL BE RESPONSIBLE FOR PLAN INTEGRITY AND CODE COMPLIANCE



THIS DRAWING IS THE PROPERTY OF BILLY SPELLERBERG AND IS NOT TO BE REPRODUCED, MODIFIED, OR USED FOR ANY OTHER PROJECT, OR EXTENTION OF THIS PROJECT, EXCEPT BY AGREEMENT WITH THIS COMPANY.

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/25/2021



SECOND FLOOR PLAN

SCALE: 1/4" = 1'-0"

DESCRIPTION: SECOND ROOF

MODEL: FOX HILL

DATE:

ARCHITECT IS NOT RESPONSIBLE FOR THE STRUCTURAL ELEMENTS OF THESE PLANS. A STRUCTURAL ENGINEER MAY NEED TO VERIFY ALL STRUCTURAL ASPECTS OF THESE PRINTS BEFORE CONSTRUCTION BEGINS. FIELD CONDITIONS MAY BE DIFFERENT FROM PLAN. ALL STATE AND LOCAL CODES TAKE PRECIDENCE OVER THESE PLANS, CONTRACTOR WILL BE RESPONSIBLE FOR PLAN INTEGRITY AND CODE COMPLIANCE

3106 SW BLUE RIBBON ST.

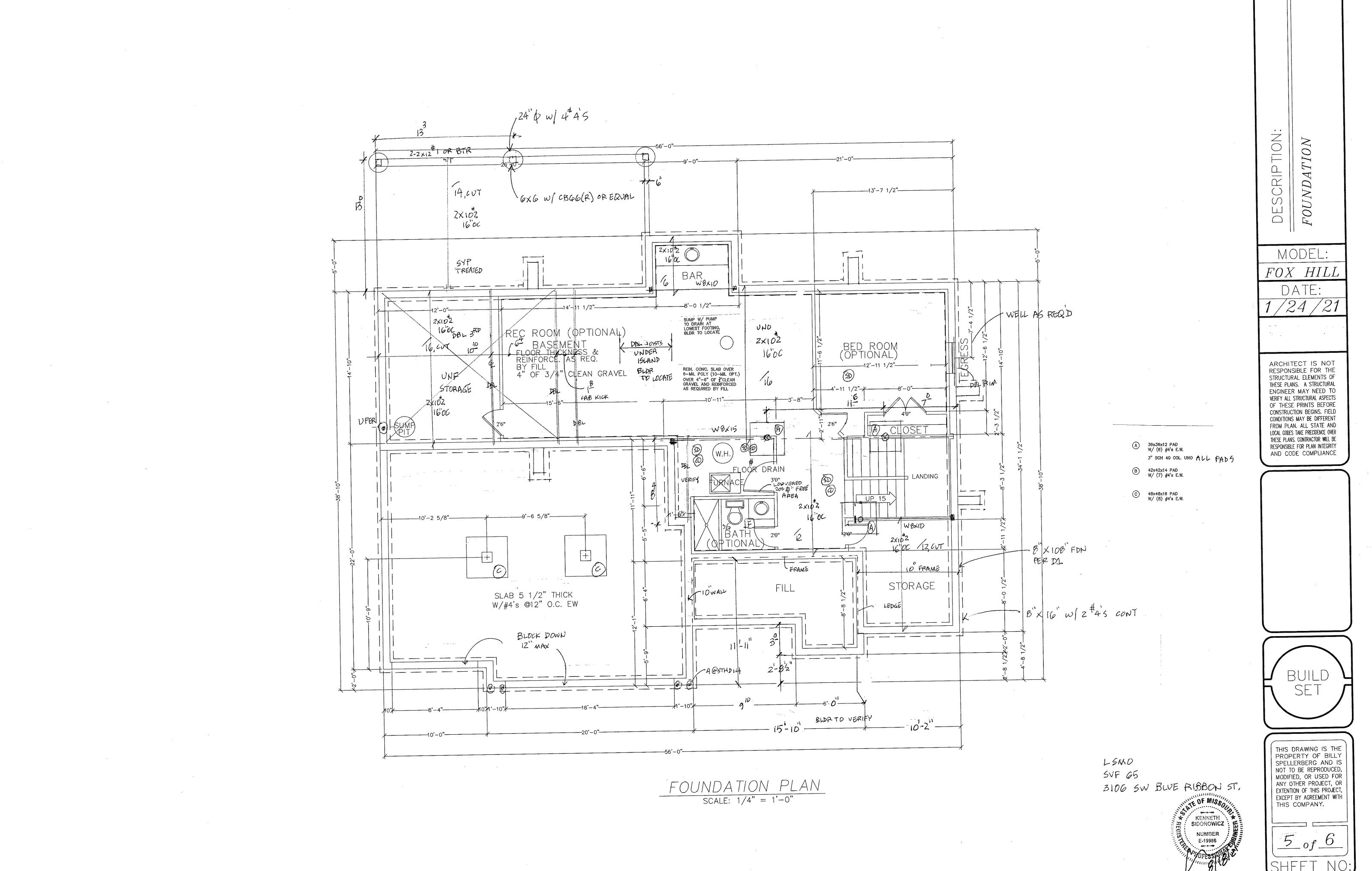
8° PLATE (818) UNO

2X4 STUDS FULL HT (925/8)

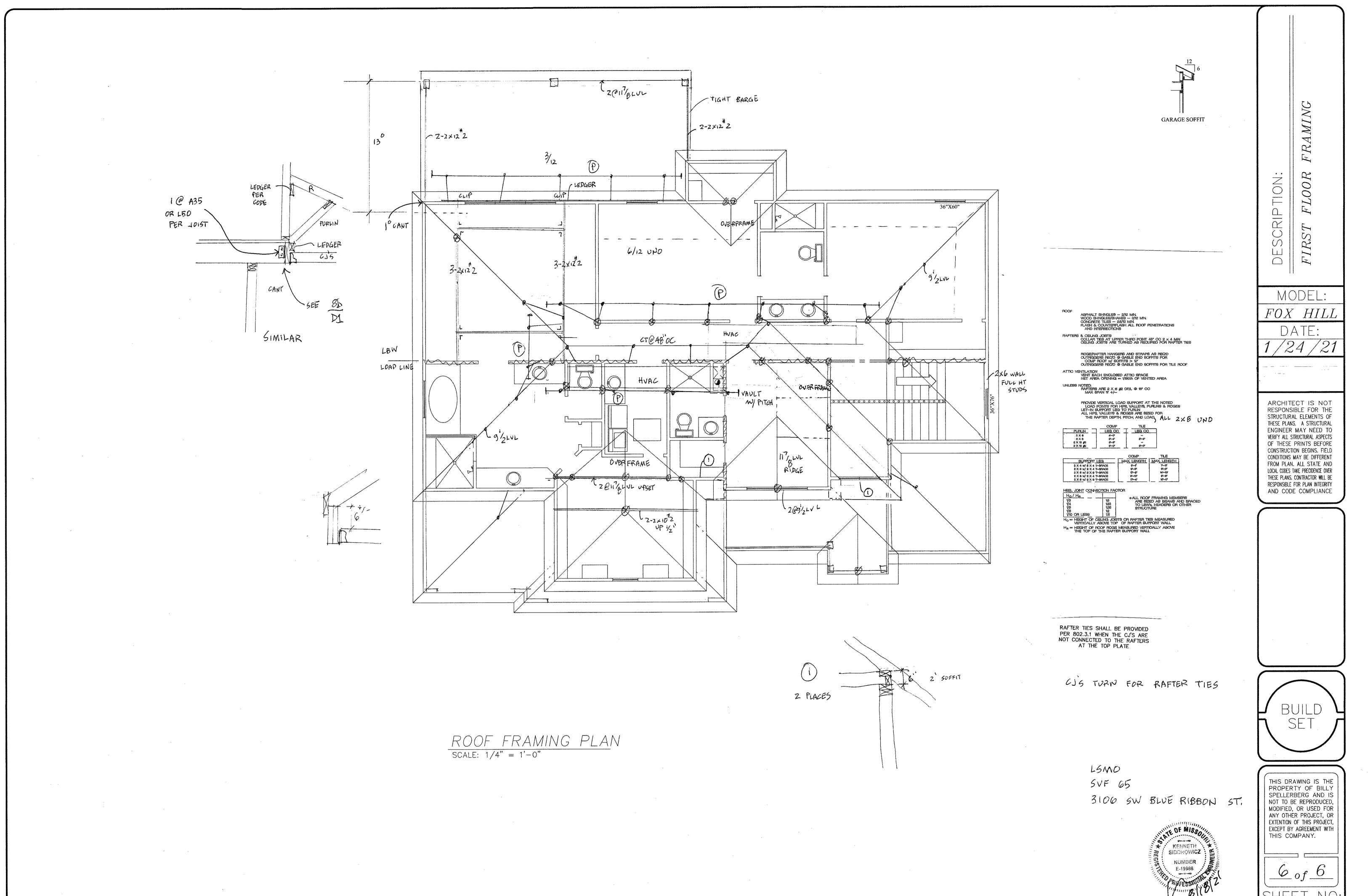
KENNETH SIDOROWICZ

THIS DRAWING IS THE PROPERTY OF BILLY SPELLERBERG AND IS NOT TO BE REPRODUCED, MODIFIED, OR USED FOR ANY OTHER PROJECT, OR EXTENTION OF THIS PROJECT, EXCEPT BY AGREEMENT WITH THIS COMPANY.

LEE'S SUMMIT, MISSOURI
08/25/2021



RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/25/2021



DELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/25/2021

HOLD PED. 12" BELOW BLOCK-DOWN

A 3" MIN. COVER

CAST w/ SLAB

PEDESTAL

SLAB @ PEI

SLAB ON FILL

<u>DIVISION 1</u> — GENERAL REQUIREMENTS 1. DESIGN AND CONSTRUCTION WORK FOR THIS PROJECT SHALL

2. FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE THE WORK AS SHOWN OR INFERRED BY THE DRAWINGS.

A) GROUND SNOW LOAD (INCLUDING DRIFTING SNOW)__20 PSF

SEE TABLE _SEE TABLE _SEE TABLE, (0/10 TRUSSES)

5. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, OBTAIN CLARIFICATION FROM A / E BEFORE CONTINUING

6. THE CONTRACTOR SHALL EXAMINE ACTUAL JOB CONDITIONS AND BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE PLANS. IF ERRORS, OMISSIONS, OR DISCREPANCIES ARE FOUND THEY SHALL BE REPORTED TO THE DESIGN

7. DIMENSIONS FOR NEW CONSTRUCTION ARE TO FACE OF FINISH OR COLUMNS AND FACE OF CONCRETE, WOOD, OR MASONRY WALLS UNLESS OTHERWISE INDICATED. DIMENSIONS INDICATE NOMINAL

8. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL TRADES

9. PROVIDE SUFFICIENT STUDS AND BLOCKING WHERE REQUIRED TO SUPPORT EQUIPMENT AND/OR MISCELLANEOUS ITEMS, I.E., LOAD POINTS, TYPICAL CASEWORK, CABINETS, GRAB BARS ETC.

11. GARAGE DOORS AND FRAMES SHALL BE DESIGNED AND INSTALLED TO MEET THE 115 MPH WIND LOAD RESISTANCE REQUIREMENTS OF

12. ALL EXTERIOR DOORS, INCLUDING THE DOOR LEADING FROM THE GARAGE TO THE DWELLING UNIT, SHALL INCORPORATE THE PHYSICAL SECURITY PROVISIONS OF THE JURISDICTION IN WHICH

2. ALL FOOTINGS ARE DESIGNED TO BEAR ON NATURAL UNDISTURBED SOIL CAPABLE OF ADEQUATELY SUSTAINING A MINIMUM BEARING PRESSURE OF 1,500 PSF. IF SUITABLE UNDISTURBED BEARING CAPACITY IS NOT ENCOUNTERED AT THE ELEVATION INDICATED ON THE DRAWINGS, CONTRACTOR SHALL NOTIFY THE ENGINEER OF

3. ALL TOPSOIL, ORGANIC MATERIAL, AND EXISTING STRUCTURES SHALL BE REMOVED FROM BUILDING AREA AND FROM AREAS TO BE PAVED. STOCKPILE ALL TOPSOIL FOR REUSE.

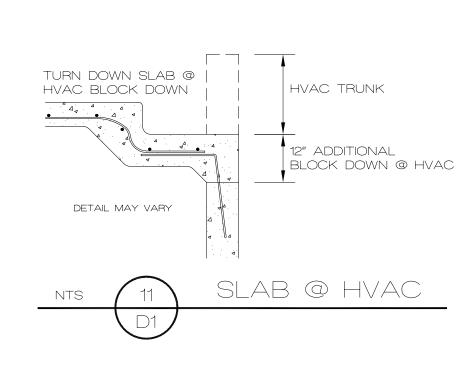
4. REFERENCE THE SOILS REPORT FOR ALL FILL CONDITIONS.

5. OVEREXCAVATE BUILDING AREA BELOW SLAB SUBGRADE ELEVATION AND REPLACE WITH MATERIAL PER SOILS REPORT,

7. IN-SITU SOIL CONDITIONS, SEE SOILS REPORT OR 1,500 PSF BEARING

FOOTING SHALL BE UNIFORM AND CONSISTENT. NOTIFY THE ENGINEER OF RECORD OF ANY INCONSISTENCIES.

9. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DISPOSING OF ANY EXCESS EXCAVATION MATERIALS AND FOR OBTAINING AND SUPPLYING ADDITIONAL FILL MATERIAL AS



6" MIN. STEM WALL—

<u>DIVISION 3</u> — CONCRETE

CONCRETE CONSTRUCTION."

A) CEMENT - ASTM C 150 TYPE

F) FLY ASH — ASTM C 618, CLASS C

A) FOOTINGS, WALLS, AND SLABS

B) EXTERIOR SLABS AND CURBS

THAN 15 PERCENT BY WEIGHT.

7. CONCRETE WORK EXECUTION:

APPROVAL).

11. REINFORCEMENT

WITH EOF

× > 0.58

PEDESTAL

4

3" MIN COVER

PED @ FTG

- UNDISTURBED

NOTED OTHERWISE ON DRAWINGS:

CONTROL HEAT ONLY (NOT SLUMP).

10. PUMPS SHALL NOT BE PRIMED IN FORMS.

FULL MESH AND LACE SPLICES WITH WIRE.

MIN FOR #4 BAR. SEE TABLE

SUPERPLASTICIZERS.

1. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF

ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED

B) AGGREGATE — ASTM C 33, MAXIMUM AGGREGATE SIZE 3/4"

E) WATER-REDUCING ADMIXTURE - ASTM C 494, INCLUDING

3. CONCRETE SHALL DEVELOP THE FOLLOWING MINIMUM 28 DAY

CONCRETE PROPORTIONS SHALL BE ESTABLISHED ON THE BASIS

OF FIELD EXPERIENCE AND/OR TRIAL MIXTURES IN ACCORDANCE

IN THE MIX, MIX SHALL CONTAIN A WATER-REDUCER. FLY ASH

4. PROPORTION AND DESIGN MIXES TO RESULT IN CONCRETE SLUMP

CONCRETE TO RESULT IN CONCRETE AT POINT OF PLACEMENT

6. ALL PLUMBING AND ELECTRICAL ROUGH—INS MUST BE COMPLETE, INSPECTED AND APPROVED BEFORE REQUESTING THE SLAB

A) MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE. UNLESS

CAST AGAINST AND EXPOSED TO EARTH_

B) IN CORNERS OF GRADE BEAMS PROVIDE CORNER REINFORCEMENT

LAP TWO FEET EACH DIRECTION IN OUTSIDE FACE, MATCHING SIZE

C) PROVIDE CONTROL JOINTS IN SLABS-ON-GRADE AT NOT GREATER

REPRESENTATIVE PRIOR TO OFF LOADING. ANY CONCRETE MORE

THAN 45 MINUTES OUT PRIOR TO STARTING PLACEMENT SHALL BE

GALLON PER YARD; NOTE THAT THIS ADDITION SHALL BE USED TO

A) ALL REINFORCING BARS SHALL BE A615, GR40 MIN. LAP SPLICES 18"

B) WELDED WIRE FABRIC SHALL BE ASTM A185, LAP AT LEAST ONE

C) REBAR SHALL BE CLEAN, AND FREE FROM RUST AND OIL PRIOR TO

THE PLACEMENT OF CONCRETE. REBAR SHALL BE TIED AND

E) STEEL SHALL BE STORED ON SITE ABOVE GRADE, AND COVERED

12. ADJUST FOUNDATION FOR SITE AND SOIL CONDITIONS AND VERIFY

POSSIBLE. TIES, CHAIRS, OR OTHER PRODUCTS SHALL BE

PROTECTED WHEN LOCATED NEAR EXPOSED SURFACES

D) TIE STEEL TO PREVENT DISPLACEMENT. HOOK AND TIE STEEL AS

AS REQUIRED FOR PROTECTION FROM RAIN AND OTHER POSSIBLE

SECURED AS REQUIRED TO PREVENT DISPLACEMENT IN THE FORMS.

NOT EXPOSED TO EARTH OR WEATHER

THAN 20 FEET ON CENTER IN EACH DIRECTION. SAW CUT

AGGREGATE. (DO NOT SAW CUT STRUCTURAL SLABS W/O

8. BATCH TICKETS SHALL BE SUBMITTED TO A CONTRACTORS

9. THE MAXIMUM ADDITION OF WATER SHALL BE LIMITED TO 1

CONTROL JOINTS MINIMUM 1/4 OF THE SLAB DEPTH, AS SOON AFTER SLAB FINISHING AS POSSIBLE WITHOUT DISLODGING

EXPOSED TO EARTH OR WEATHER_

AND SPACING OF HORIZONTAL REINFORCEMENT.

AT A POINT OF PLACEMENT OF NOT MORE THAN 4" TO 5".

HAVING AIR CONTENT OF 5 TO 7 PERCENT ENTRAINED AIR.

5. USE AIR-ENTRAINING ADMIXTURES IN EXTERIOR EXPOSED

WITH ACI 318-89 SECTIONS 5.2 AND 5.3. WHEN FLY ASH IS UTILIZED

SHALL BE ADDED AT THE RATE OF NOT MORE THAN 100 POUNDS

PER CUBIC YARD AND CEMENT SHALL BE REDUCED BY NOT MORE

COMP. STRENGTH (f'c)

SEE TABLE

SEE TABLE

CONCRETE MATERIALS SHALL COMPLY WITH:

D) AIR-ENTRAINING ADMIXTURE - ASTM C 260

DESIGN COMPRESSIVE STRENGTH (f'c):

TYPE OF CONSTRUCTION

(AIR-ENTRAINED CONCRETE)

C) WATER - POTABLE, WATER/CEMENT RATIO .5 (MAX.)

CONCRETE" AND ACI 332 "REQUIREMENTS FOR RESIDENTIAL

DBL PLATE FOR GYP CRETE DETAIL MAY VARY CONCRETE SLAB JOIST HNGR -FLOOR JOIST $\frac{1}{2}$ 1–1/2" COVER MIN. DETAIL MAY VARY 1-1/2" LEDGE – 1—1/2" LEDGE MIN.

OPT. MUDSILL ANCHORAGE ALTERNATIVE TO J-BOLTS DETAIL MAY VARY MIN. \bot - 2 X LEDGE 24" LAP, MIN - DRILL & SEAL AS REQ'D 1-1/2" COVER -

-SIMPSON MAS

DIVISION 4 - MASONRY

BLOCK STRENGTH

ALIGNMENT.

PLANS OR DETAILS.

MINIMUM OF ONE LAP LENGTH.

ADOPTED BUILDING CODE.

WALL HT.

ABOVE FLOOR

LESS THAN 4'

>4' TO 9'

2 X 4 OR 2 X 6

2.5" INSULATION,

ICF WALL

FLUSH FRAMING @ FDN

MORTAR STRENGTH

GROUT STRENGTH__

1. COMPRESSIVE STRENGTH OF CONCRETE MASONRY CONSTRUCTION

(CMU) SHALL BE AS FOLLOWS (PSI). MASONRY STRENGTH NOT

2. CONCRETE BLOCK SHALL BE HOLLOW LOAD-BEARING CONCRETE

MASONRY UNITS CONFORMING TO ASTM C 90, TYPE N-II. ALL

3. MORTAR MIX SHALL CONFORM TO THE REQUIREMENTS OF ASTM C

270, TYPE M OR S. TYPE M MORTAR SHALL BE USED WHERE

4. GROUT SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 476.

USE SUFFICIENT WATER FOR GROUT TO FLOW INTO ALL JOINTS OF

THE MASONRY WITHOUT SEGREGATION. ALL CELLS IN CONCRETE

BLOCKS CONTAINING REINFORCING SHALL BE FILLED SOLID WITH

BE GROUTED SOLID. HOLD GROUT DOWN 1—3" BELOW TOP OF

GROUT. ALL MASONRY BELOW FINISHED FLOOR OR GRADE SHALL

BLOCK AT GROUT LIFT JOINTS AND AT CONCRETE PLACED OVER

. MINIMUM LINTEL, WHERE NOT ON PLANS, SHALL HAVE A MINIMUM

OF 2 — #5's CONTINOUS HORIZONTAL BARS IN BOTTOM OF BOND

DEPTH OF 24." ALL LINTEL REINFORCING AND GROUT SHALL

6. LAP REINFORCING 48 BAR DIAMETERS. STAGGER LAP SPLICES A

TIES OF EQUIVALENT STIFFNESS EMBEDDED INTO HORIZONTAL

16," MAXIMUM HORIZONTAL SPACING SHALL BE 24." TIES IN

7. MASONRY VENEER SHALL BE ATTACHED TO SUPPORT WALL

BEAM OR LINTEL BLOCK AND SHALL BE GROUTED SOLID TO A MIN.

EXTEND 2' MINIMUM PAST JAMBS UNLESS NOTED OTHERWISE ON

FRAMING WITH 36" DIAMETER WALL TIES OR DOVETAIL-TYPE METAL

MORTAR JOINTS. MAXIMUM VERTICAL SPACING OF TIES SHALL BE

ALTERNATE COURSES SHALL BE STAGGERED. PROVIDE #9 WIRE

#9 WIRE WITH WALL ANCHOR TIES. CONSTRUCTION JOINTS IN

1. ALL MISCELLANEOUS STRUCTURAL STEEL WORK SHALL CONFORM

TO THE REQUIREMENTS OF AISC "SPECIFICATIONS FOR DESIGN,

MISCELLANEOUS STRUCTURAL STEEL MATERIAL SHALL COMPLY

3. FLITCH PLATES SHALL HAVE 1" DIA. BOLTS @ 16" OC, STAGGERED

RETURN WALLS

* RETURN WALLS ALLOW FOR BACKFILL W/O FLOOR DECK

NO HEAVY EQUIPMENT OR SURCHARE LOADING.

DETAIL MAY VARY

IN PLACE FOR 60 PCF EQUIVALENT FLUID WEIGHT SOIL.

B) STEEL PIPE COLUMNS - ASTM A53 GRADE B(Sch 40 TYP)

C) ANCHOR BOLTS - ASTM A307 GRADE A, NON-HEADED TYPE

RETURN SPACING

(HOLD DOWN 24" BELOW GRADE)

RETURN WALLS NOT REQ'D

16'-4" ON CENTER (MAX.), AND WITHIN

8' OF STEP DOWN OR AS SHOWN

LSIMPSON MAS

ALTERNATIVE

INSTALLATION

FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR

8. WATERPROOFING, DRAINAGE PLANE, AND INSTALLATION PER

<u>DIVISION 5.5</u> — MISC. STRUCTURAL STEEL

A) STRUCTURAL STEEL — ASTM A992

TOP AND BOTTOM BETWEEN JOIST LAYOUT.

UNLESS OTHERWISE NOTED.

REINFORCING IN HORIZONTAL MORTAR JOINTS AT 16" OC. ENGAGE

MASONRY VENEER WALLS SHALL BE LOCATED PER THE DRAWINGS.

BLOCKS SHALL BE PLACED IN RUNNING BOND CONSTRUCTION

(UNLESS OTHERWISE NOTED) WITH ALL VERTICAL CELLS IN

1500

1900

1800

SPECIFICALLY NOTED ON PLAN SHALL BE (f'm) 1500 PSI.

MASONRY STRENGTH (F'M DESIGN)_

MASONRY IS IN CONTACT WITH SOIL.

— DOWELS @ 12" OC SLAB @ WALL NTS SLAB ON FILL CONCRETE OR CMU

CONC STRENGTH REQ'D STRENGTH FTG 3,000 psi 3,500 psi WALL 3,500 psi SLAB SUS-SLAB 7 SACK MIX

 $\frac{w_{i} * L^{2}}{}$ - 27,206 #-in 40,000 * 0.2 $0.85 * f_c * b$ $\phi M_N = *\phi A * f(d - a/2)$ = 0.9(0.2)(40000)(4-0.22/2)

GARAGE SLAB:

= 28,008 #-in > 27,206 (OKAY).. Use #4 @ 12" OC EW 12'-6" (+/-) MODULE

<u>DIVISION 6</u> — ROUGH CARPENTRY

1. ALL ROUGH CARPENTRY WORK SHALL CONFORM TO THE REQUIREMENTS OF NFPA "NATIONAL DESIGN SPECIFICATION OF WOOD CONSTRUCTION", TPI "DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES", APA "PLYWOOD DESIGN SPECIFICATIONS", DOC PS 1 "PRODUCT STANDARD FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD", DOC PS 56 "STRUCTURAL GLUED" LAMINATED TIMBER", AND APPLICABLE SECTIONS OF THE INTERNATIONAL BUILDING CODE.

2. ROUGH CARPENTRY MATERIALS SHALL COMPLY WITH: A) LUMBER - S4S, S-DRY, KD, OR S-GRN GRADE MARKED, COMPLYING WITH PS 20, GRADED UNDER WWPA OR SPIB RULES: STUD GRADE HEADER: #2 DOUGLAS FIR MIN TYPICAL RAFTER: #2 DOUGLAS FIR PLATES: #2 DOUGLAS FIR BLOCKING: #2 DOUGLAS FIR

> B) METAL FRAMING FASTENERS - ASTM A 153, HOT-DIP GALVANIZED FASTENERS; EQUAL TO SIMPSON STRONG-TIE CONNECTORS COMPLYING WITH APPLICABLE ICC-ES REPORTS C) PLYWOOD - APA RATED SHEATHING, COMPLYING TO PS 1. D) LVL - LAMINATED VENEER LUMBER SHALL BE GRADE 2800

F-2.0E AND SHALL MEET THE REQUIREMENTS OF APPLICABLE

ICC-ES REPORTS. E) GLULAM BEAMS - COMBINATION 24F-V3 IN ACCORDANCE WITH AITC A190.1

3. EXTERIOR WALL AND ROOF SHEATHING SHALL BE $\frac{7}{16}$ " APA RATED SHEATHING 24/0 EXTERIOR GLUED (MIN) FOR 16" OC STUD SPACING. NAIL SHEATHING TO SUPPORT MEMBERS WITH 8D COMMON NAILS AT 6" ON CENTER ALONG EDGE SUPPORTS AND 12" ON CENTER ALONG FIELD SUPPORTS UNLESS NOTED OTHERWIDE. PROVIDE SOLID BLOCKING AT ALL UNSUPPORTED PANEL EDGES; 4/8 GUN NAILS.

NOTE: ROOF SHEATHING SHALL BE §" APA RATED SHEATHING FOR TILE ROOF, OR AS REQUIRED BY MANUFACTURER.

4. INTERIOR SHEAR WALL SHEATHING WHERE NOTED SHALL BE 2" APA RATED SHEATHING 24/0 EXTERIOR GLUED (MIN) FOR 16" OC STUD SPACING. NAIL SHEATHING TO SUPPORT MEMBERS WITH 8D COMMON NAILS AT 4" ON CENTER ALONG EDGE SUPPORTS AND 6" ON CENTER ALONG FIELD SUPPORTS UNLESS NOTED OTHERWISE. PROVIDE SOLID BLOCKING AT ALL UNSUPPORTED PANEL EDGES.

5. ATTACH METAL FRAMING FASTENERS TO FRAMING MEMBERS WITH MINIMUM NUMBER AND SIZE OF NAILS LISTED IN THE APPLICABLE ICC-ES REPORTS.

6. WOOD TRUSS SYSTEM; TRUSS JOIST SYSTEM AND GLULAM SYSTEM FOR ROOFS: A) DESIGN, FABRICATE, AND ERECT IN ACCORDANCE WITH BCSI

PLACEMENT DRAWING.

STANDARDS AND NDS SPECIFICATIONS. B) DESIGN LOADS 25 PSF SNOW LIVE LOAD 10 PSF DEAD LOAD TOP CHORD (20 TILE)

10 PSF DEAD LOAD BOTTOM CHORD C) SUBMIT SHOP DRAWINGS, INCLUDING DESIGN CALCULATIONS, MATERIAL STRESSES, GRADE AND SPECIES OF WOOD, AND

7. DEFAULT HEADER SIZE NOT SPECIFIED SPANNING 8'-0" MAX SHALL BE $2-2 \times 10$ #2, WITH 2 STUD SUPPORT.

8. ALL HEADERS OVER 4'-0" SHALL HAVE DOUBLE TRIMMER @ EACH SUPPORT, OR AS SPECIFIED, UNO.

9. SOLID BLOCKING BETWEEN JOISTS @ 36" OC FOR JOISTS PARALLEL TO THE EXTERIOR FOUNDATION WALL, MIN. 48" OR 3 JOIST SPACES.

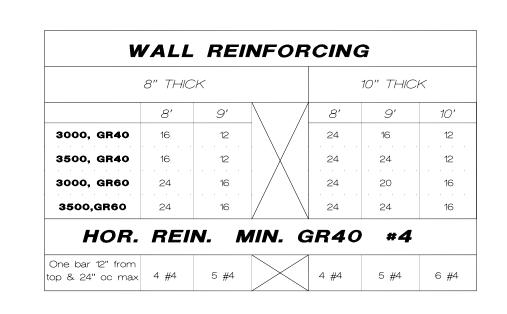
10. ALL FLUSH FRAMING @ HEADERS OR GIRDERS SHALL BE HANGERED.

11. BLOCK BETWEEN JOISTS @ SUPPORTS OR OVER BEAMS.

12. RATED CONSTRUCTION FOR PROJECTIONS INTO SETBACKS AS REQ'D.

13. DOUBLE JOIST BELOW PARALLEL NONBEARING WALLS ON LAYOUT, SINGLE JOIST OFF LAYOUT. STRUCTURE BELOW LOAD-BEARING WALLS AS NOTED ON PLANS.

FOUNDATION PER JOCOBO RESIDENTIAL FOUNDATION GUIDELINE



100 # /中' (LL)

67 # /中' (DL)

 $w_u = 1.2(DL) + 1.6(LL)$

 $= 240 \# / \oplus' (TL)$

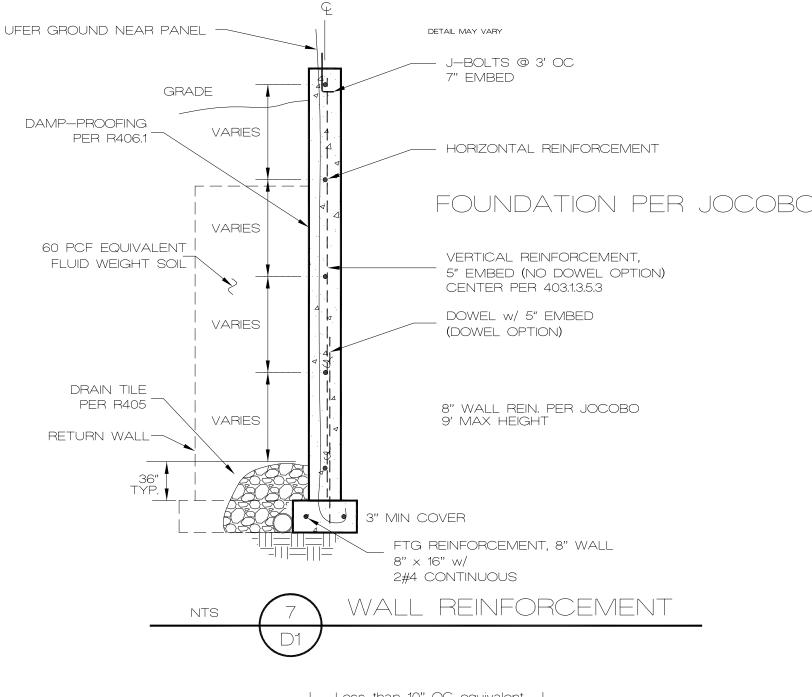
40 #/中'(LL) 67 # /中'(DL) W = 1.2(DL) + 1.6(LL)BASEMENT SLAB: = 144 # / 🛱 (TL)

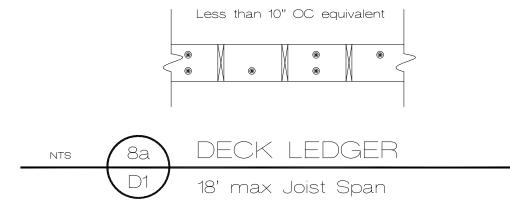
<u>W_i * L⁻</u> → 25,951 #—in

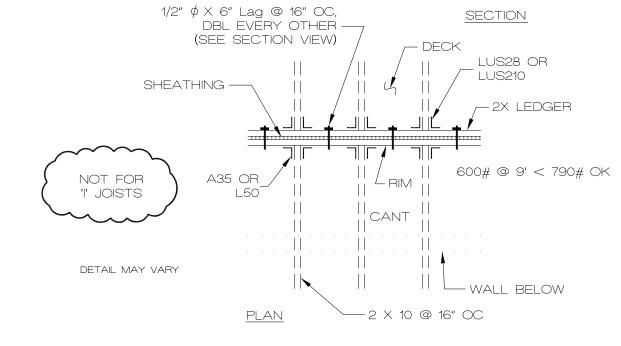
40,000 * 0.2 $\frac{0.85 * 3,500 * 12}{0.85 * 3,500 * 12} = 0.22"$

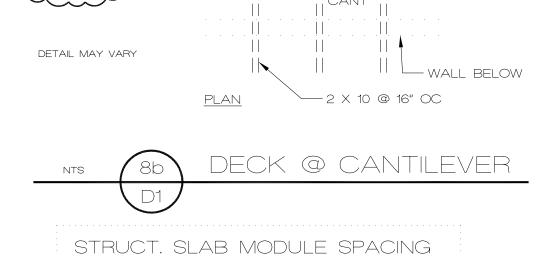
 $\phi M_N = *\phi A * f(d - a/2)$ = 0.9(0.2)(40000)(4-0.22/2)= 28,008 #-in > 25,951 (OKAY)

> ∴ Use #4 @ 12" OC EW 15'-6" (+/-) MODULE





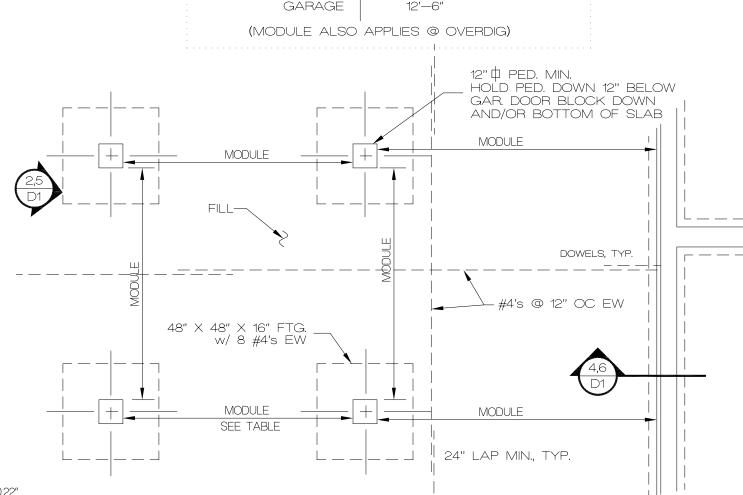




SLAB TYPE | MODULE SPACING

15'—6"

BASEMENT



STRUCTURAL SLAB ON FILL DO NOT SAW CUT STRUCTURAL SLABS w/o APPROVAL

VERIFY ALL STRUCTURAL SLAB DETAILS W/ ENGINEER

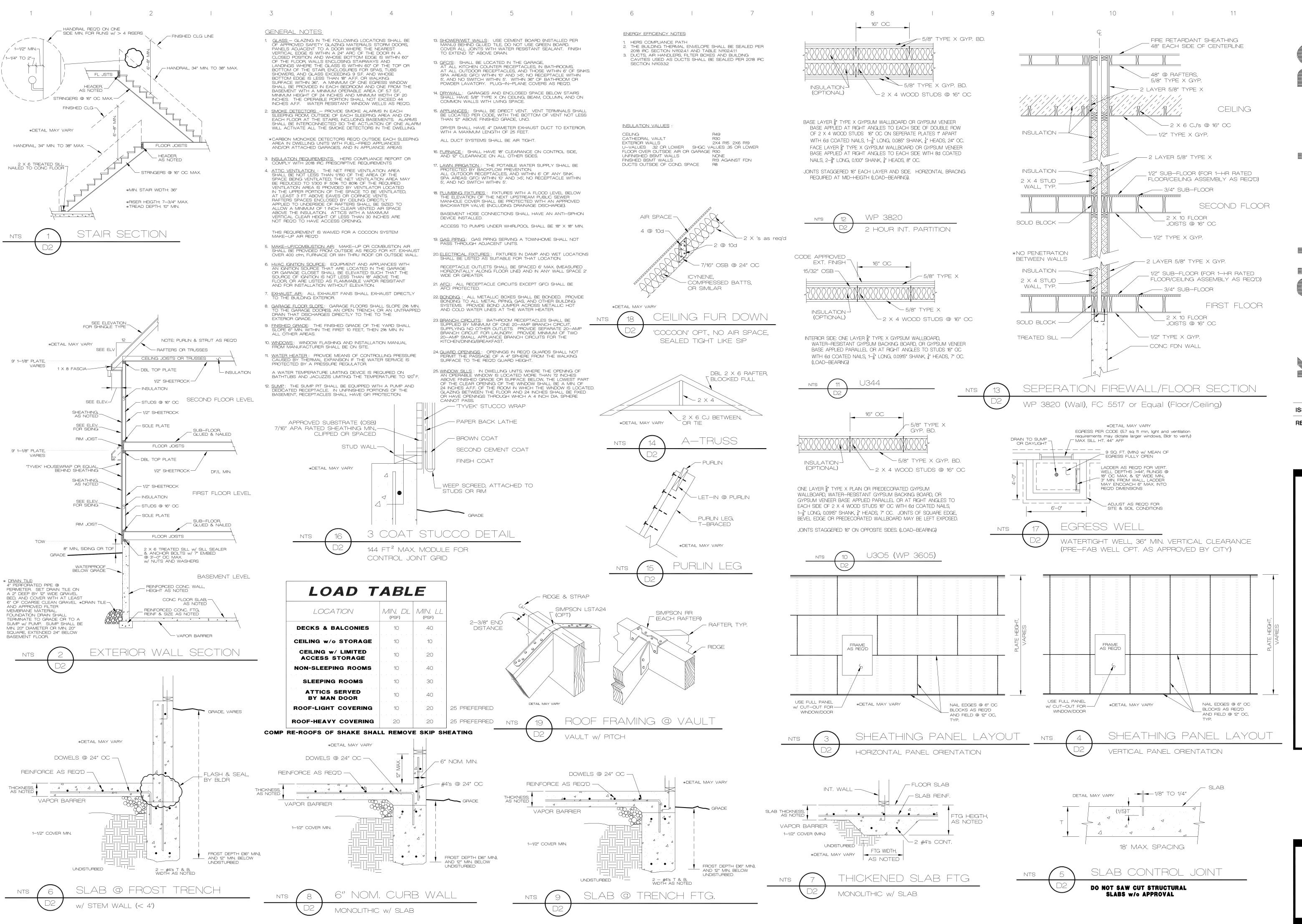
DO NOT ISOLATE COLUMNS FROM STRUCTURAL SLABS

---KENNETH 2 SIDOROWICZ **NUMBER** E-19986



RELEASE FOR CO LEE'S SUMMIT, MISSOUR 08/25/2021

ISSUE DATE **REVISIONS** 11/2/15



P.O. Box 12089, Parkville, Missouri 64152

Tel. (816) 741-0852 Fax (816) 741-0858

ISSUE DATE
REVISIONS

18 DETAIL SHEET

KENNETH SIDOROWICZ

NUMBER
E-19986

8/18/21

RELEASE FOR CONSTR

AS NOTED FOR PLAN REVIEW DEVELOPMENT-SERWICES

LEE'S SUMMIT, MISSOURI

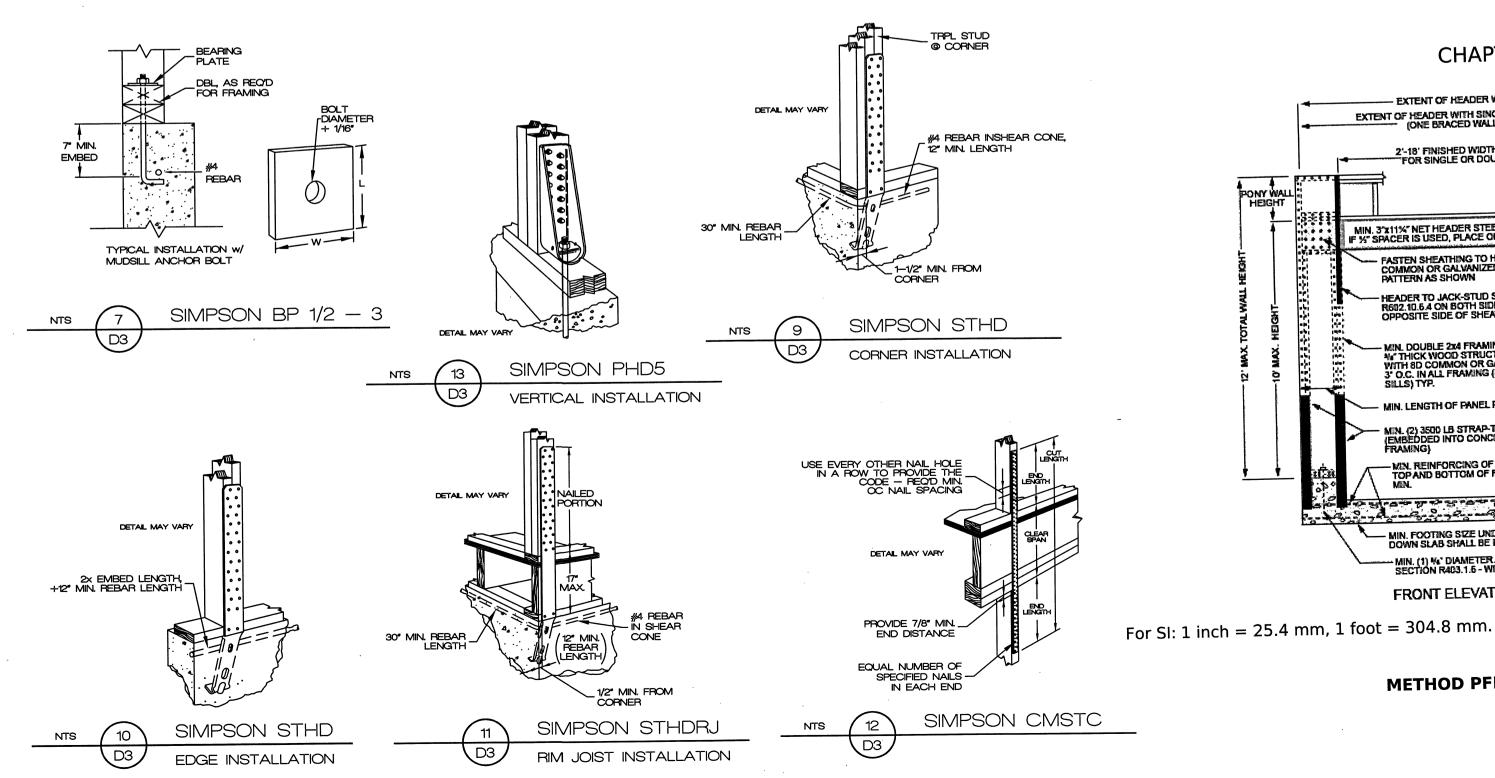
08/25/2021

STAPLES NOT PERMITTED IN KCMO

	FAST	TENER SCHEDULE FO	DR STRUCTURAL	
Item	Description of building ele	ements	Number & type of fastener (notes: a, b, o)	Spacing of fasteners
of				
1	Blocking between joists or rafters to to Ceiling joists to plate, toe nail Ceiling joists not attached to parallel r Collar tie rafter, face nail or 1-1/4" x 2	after, laps over partitions, face nail	3-8d (2-1/2" x 0.113") 3-8d (2-1/2" x 0.113") 3-10d 3-10d (3" x 0.128")	
	Rafter to plate, toe nail, note trusses to Roof rafters to ridge, valley or hip raft	use STC clips at NLB walls and spec'd holdowns	3-16d or 3-10d (3-1/2" x 0.135", 0.148")	2 toe nails side 1, 1 toe nail side 2 (note i)
	Toe nail:		4—16d (3—1/2" × 0.135") 3—16d (3—1/2" × 0.135")	_ _
	Face nail:			
7	Built-up studs-face nail		10d (3" × 0.128")	24° o.c.
<u>′</u>	Abutting studs at intersecting wall cor	ners, face nail	16d (3-1/2" × 0.135")	12" 0.0.
9	Built-up header, two pieces w/ 1/2" s	pacer	16d (3-1/2" × 0.135")	16" o.c. along each edge
10	Continued header, two pieces		16d (3–1/2" × 0.135")	16° o.c. along each edge
.11	Continuous header to stud, toe nail		4-8d (2-1/2" x 0.113")	24° o.c.
.12	Double studs, face nail		10d (3" × 0.128") 10d (3" × 0.128")	24° o.c.
.13	Double top plates, face nail	and joints, fang neil in langed area	8-16d (3-1/2" × 0.135")	7 <u>-</u> 7 -
.14	Double top plates, min. 48" offset of e Sole plate to joist or blocking, face na		16d (3-1/2" × 0.135")	16° o.c.
.15 16	Sole plate to joist or blocking, face no Sole plate to joist or blocking at brace		3-16d (3-1/2" × 0.135")	16° o.c.
.10 17	Stud to sole plate, toe nail	ed wan parioto	3-8d (2-1/2" x 0.113") or	· · · · · · · · · · · · · · · · · · ·
"	State to Gold plate, too I half		2-16d (3-1/2" × 0.135")	
 18	Top or sole plate to stud, end nail		2-16d (3-1/2" × 0.135")	.
19	Top plates, laps at corners and inters	sections, face nail	2-10d (3" × 0.128")	
20	1" brace to each stud and plate, face		2-8d (2-1/2" × 0.113")	
	1" \times 6" sheathing to each bearing, fac	ce nail	2 staples 1-3/4" 2-8d (2-1/2" x 0.113")	_ .
22			2 staples 1-3/4" 2-8d (2-1/2" x 0.113")	_
			3 staples 1-3/4" 3-8cs(20)6/2"1-x3/2#13")	_ _
23	Wider than 1" x 8" sheathing to each	bearing, face nail	3-808(apies2 (70 3)////(0)	
or			0.04 (0.4/0# > 0.440#)	_
24 25 26 27	Joist to sill or girder, toe nail Rim joist to top plate, toe nail (roof applications also) Rim joist or blocking to sill plate, toe nail 1" x 6" subfloor or less to each joist, face nail		3-8d (2-1/2" × 0.113") 8d (2-1/2" × 0.113") 8d (2-1/2" × 0.113") 2-8d (2-1/2" × 0.113")	6° oc
28 29 30	2" subfloor to joist of girder, blind and face nail 2" planks (plank & beam — floor and roof) Built-up girders and beams, 2" lumber layers		2 staples 1-3/4" 2-16d (3-1/2" x 0.135") 2-16d (3-1/2" x 0.135") 10d (3" x 0.128")	© each bearing Nail each layer as follows: 32" o.c. at top and bottom and staggered. Two nails at ends and at each splice
	Ledger strip supporting joists or rafte		3-16d (3-1/2" × 0.135")	@ each joist or rafter
31	Leager strip supporting josts or rand			Fasteners
				l
	Description of building materials	Description of fastener (notes: b, c, e)	Edges (inches) (note: i)	Intermediate supports (inches) (notes: c, e)
od struct	ural panels, subfloor, roof and interior w	vall sheathing to framing and particleboard wall sheath	ing to framing	
32	3/8" to 1/2"	6d common (2" x 0.113") nail (subfloor, wall) (note j)	6	12 (note: g)
33	19/32* to 1*	8d common (2-1/2" x 0.131") nail (roof) 8d common nail (2-1/2" x 0.131") 10d common (3" x 0.148") nail or	6	12 (note: g) 12
		8d deformed (2-1/2" x 0.131") nail		
ner wall s	sheathing (note h)			6
35	1/2" structural cellulosic fiberboard	1-1/2" galv. roofing nail, 7/16" crown or	3	
 36	sheathing	1° crown staple 16 ga., 1-1/4° long 1-3/4° galv. roofing nail, 7/16° crown or	з	6
·~-·	fiberboard sheathing	1" crown staple 16 ga., 1-1/2" long 1-1/2" galvanized roofing nail, staple galv.	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
37	1/2" gypsum sheathing (note d)	1-1/2" galvanized rooting half, staple galv, 1-1/2" long; 1-1/4" screws, Type W or S 1-3/4" galvanized rooting half, staple galv,	·	
38	5/8" gypsum sheathing (note d)	1-5/8" long; 1-5/8" screws, Type W or S	·	
od struct	tural panels, combination subfloor under			
39	3/4" and less	6d deformed (2" x 0.120") nail or	6	12
	0,7 and 1665	8d common (2-1/2" x 0.131") naii	1	
	7/8" to 1"	8d common (2-1/2" x 0.131") nail or	6	12
40	7,5 15 1	8d deformed (2-1/2" x 0.120") nail	1	

For St 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s; 1 ksi = 6.895 MPa

- a. All nails are smooth-common, box or deformed shanks except where otherwise stated. Nails used for framing and sheathing connections shall have minimum average bending yield strengths as shown: 80 ksi (551 MPa) for shank diameter of 0.192 inch (20d common nail), 90 ksi (620 MPa) for shank diameters larger than 0.142 inch but not larger than 0.177 inch, and 100 ksi (689 MPa) for shank diameters of 0.142 inch or less.
- Staples are 16 gage wire and have a minimum 7/16-inch on diameter crown width. c. Nails shall be spaced at not more than 6 inches on center at all supports where spans are 48 inches or greater.
- Four-foot-by-8-foot or 4-foot-by-9-foot panels shall be applied vertically. e. Spacing of fasteners not included in this table shall be verified w/ EOR.
- f. For regions having basic wind speed of 110 mph or greater, 8d deformed nails shall be used for attaching plywood and wood structural panel roof sheathing to framing within minimum 48-inch distance from gable end walls, if mean roof height is more than 25 feet, up to 35 feet maximum.
- g. For regions having basic wind speed of 100 mph or less, nails for attaching wood structural panel roof sheathing to gable endwall framing shall be spaced 6 inches on center. When basic wind speed is greater than 100 mph, nails for attaching panel roof sheathing to intermediate supports shall be spaced 6 inches on center for minimum 48-inch distance from ridges, eaves and gable end walls; and 4 inches on center to gable end wall framing.
- h. Gypsum sheathing shall conform to ASTMC 1396 and shall be installed in accordance with GA 253. Fiberboard sheathing shall conform to ASTM C 208. Spacing of fasteners on floor sheathing panel edges applies to panel edges supported by framing members and at all floor perimeters only. Spacing of fasteners on roof sheathing panel edges applies to panel edges supported by framing
- members and at all roof plane perimeters. Blocking of roof or floor sheathing panel edges perpendicular to the framing members shall not be required except at intersection of adjacent roof planes. Floor and roof perimeter shall be supported by
- Where a rafter is fastened to an adjacent parallel ceiling joist in accordance with this schedule, provide two toe nails on one side of the rafter and toe nails from the ceiling joist to top plate in accordance with this schedule. The toe nail on the opposite side of the rafter shall not be required.



NAIL TOP AND BOTTOM PLATES OF BP's TO JOISTS ABOVE AND BELOW W/ 3 @ 16d @ 16" OC ALL METHODS CONSTRUCTION DESCRIPTION SHEAR WALL SIMPSON CS16 STRAP NAILED TO STUDS SPACED METAL STRAP METHOD AT 16" OC MAXIMUM. STRAPS SHALL BE INSTALLED IN 'V' OR 'X' PATTERN AT THE BRACE LOCATION AND FOR THE SPECIFIED LENGTH, ALTERNATIVE TO *DBL JOIST MIN. BELOW BRACED WALL WHEN FRAMING BELOW IS PARALLEL TO WALL LINE, OR SOLID BLOCK @ 16" OC BELOW BRACED WALL WHEN FRAMING BELOW IS PERPENDICULAR TO WALL LINE. COLLECTOR OR DRAG STRUT OVER. 7/16" STRUCTURAL SHEATHING OVER STUDS SPACED 16" OC W/ 8d COMMON NAILS AT 6" OC EDGE AND 12" FIELD, HORIZONTAL JOINTS SHALL BE SHEATHING METHOD BLOCKED FOR ANCHORAGE. *DBL JOIST MIN, BELOW BRACED WALL WHEN FRAMING BELOW IS PARALLEL TO WALL LINE, OR SOLID BLOCK @ 16" OC BELOW BRACED WALL WHEN FRAMING BELOW IS PERPENDICULAR TO WALL LINE. 6 TO 1 ASPECT RATIO, HEADER LENGTH AS SPECIFIED WITH FULL PANEL SHEATHING AT UPPER CORNERS CUTOUT FOR THE OPENING. BLOCKING AT HORIZONTAL JOINTS. NOTE FULL 4' WIDTH CUTOUT PANELS REQ'D AT CORNERS. STHD10 & LSTA STRAPS GARAGE DOOR PORTAL PFH HEADER LENGTH AS SPECIFIED EXTENDED TO NEXT LAYOUT STUD, 18" MINIMUM WIDTH. FULL PANEL SHEATHING REQ'D WITH CUTOUTS FOR OPENINGS. PORTALS CS-PF HORIZONTAL BLOCKING AT EDGES. 'J' BOLT SPACING FOR SHEAR WALLS IS 3' OC WITH STRAPS AS NOTED.

SHEAR WALL SCHEDULE

CHAPTER 6 WALL CONSTRUCTION

TYPICAL PORTAL FRAME CONSTRUCTION -

SECTION

EXTENT OF HEADER WITH SINGLE PORTAL FRAME
(ONE BRACED WALL PANEL)

MIN. 3"x11%" NET HEADER STEEL HEADER PROHIBITED IF %" SPACER IS USED, PLACE ON BACK-SIDE OF HEADEL

- FASTEN SHEATHING TO HEADER WITH BD COMMON OR GALVANIZED BOX NAILS IN 3" GRED PATTERN AS SHOWN

HEADER TO JACK-STUD STRAP PER TABLE —— R602, 10,64 ON BOTH SIDES OF OPENING OPPOSITE SIDE OF SHEATHING

MIN. DOUBLE 2X4 FRAMING COVERED WITH MIN.
NOT THICK WOOD STRUCTURAL PANEL SHEATHING
WITH 8D COMMON OR GALVANIZED BOX NAILS AT
3" O.C. IN ALL FRAMING (STUDS, BLOCKING, AND

IIN. LENGTH OF PANEL PER TABLE RE02.10.5

TOP AND BOTTOM OF FOOTING, LAP BARS 15"

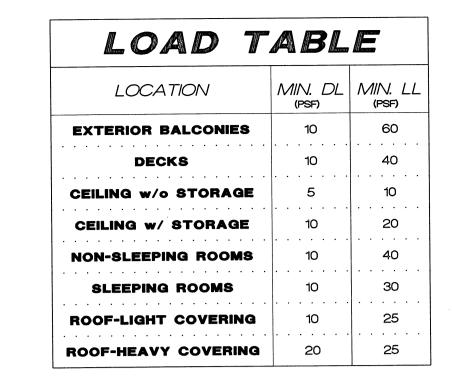
A second of the — MIN. FOOTING SIZE UNDER OPENING IS 12"x12". A TURNED DOWN SLAB SHALL BE PERMITTED AT DOOR OPENINGS.

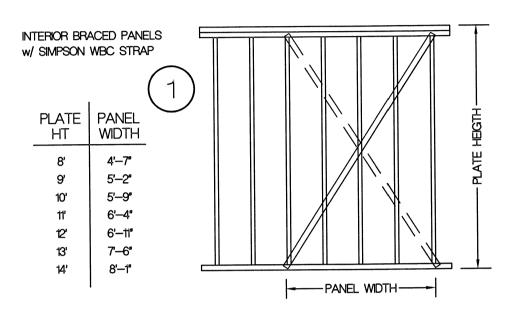
FRONT ELEVATION

--- MIN. (1) % DIAMETER ANCHOR BOLT INSTALLED PER SECTION R403.1.6 - WITH 2"X 2" X% PLATE WASHER

FIGURE R602.10.6.2

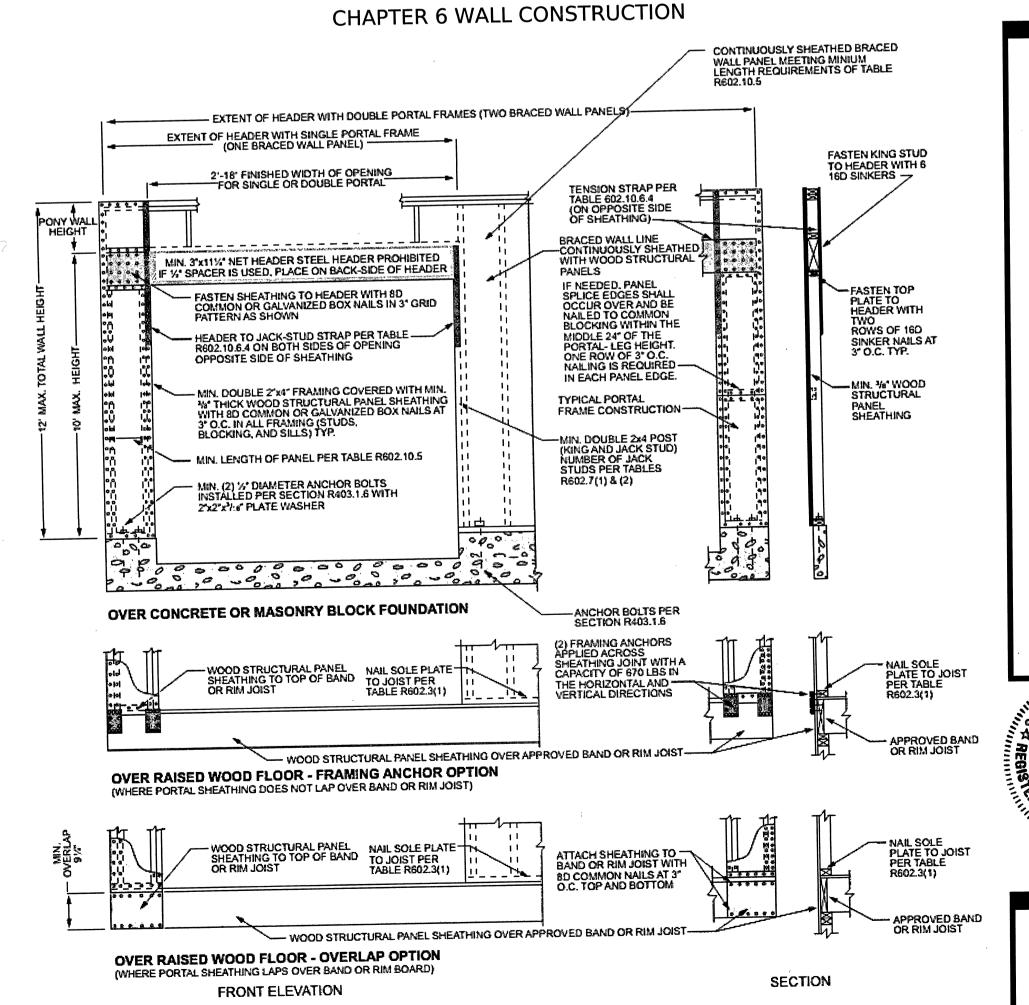
METHOD PFH—PORTAL FRAME WITH HOLD-DOWNS





INT. BRACED WALL PANEL LIB, METAL STRAP ALT. TO LET IN 1 X 4

> 2018 International Residential Code Third Printing: Sep 2019



For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

DIGITAL CODES

FIGURE R602.10.6.4 METHOD CS-PF—CONTINUOUSLY SHEATHED PORTAL FRAME PANEL CONSTRUCTION

0 0 ISSUE DATE **REVISIONS**

11

TE OF MISS ---KENNETH SIDOROWICZ NUMBER

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/25/2021