

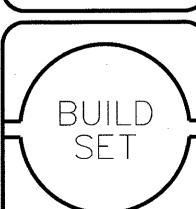


ATIONSEVELDESCRIPTION: 'RIGHT $LEFT_{/}$ MODEL:

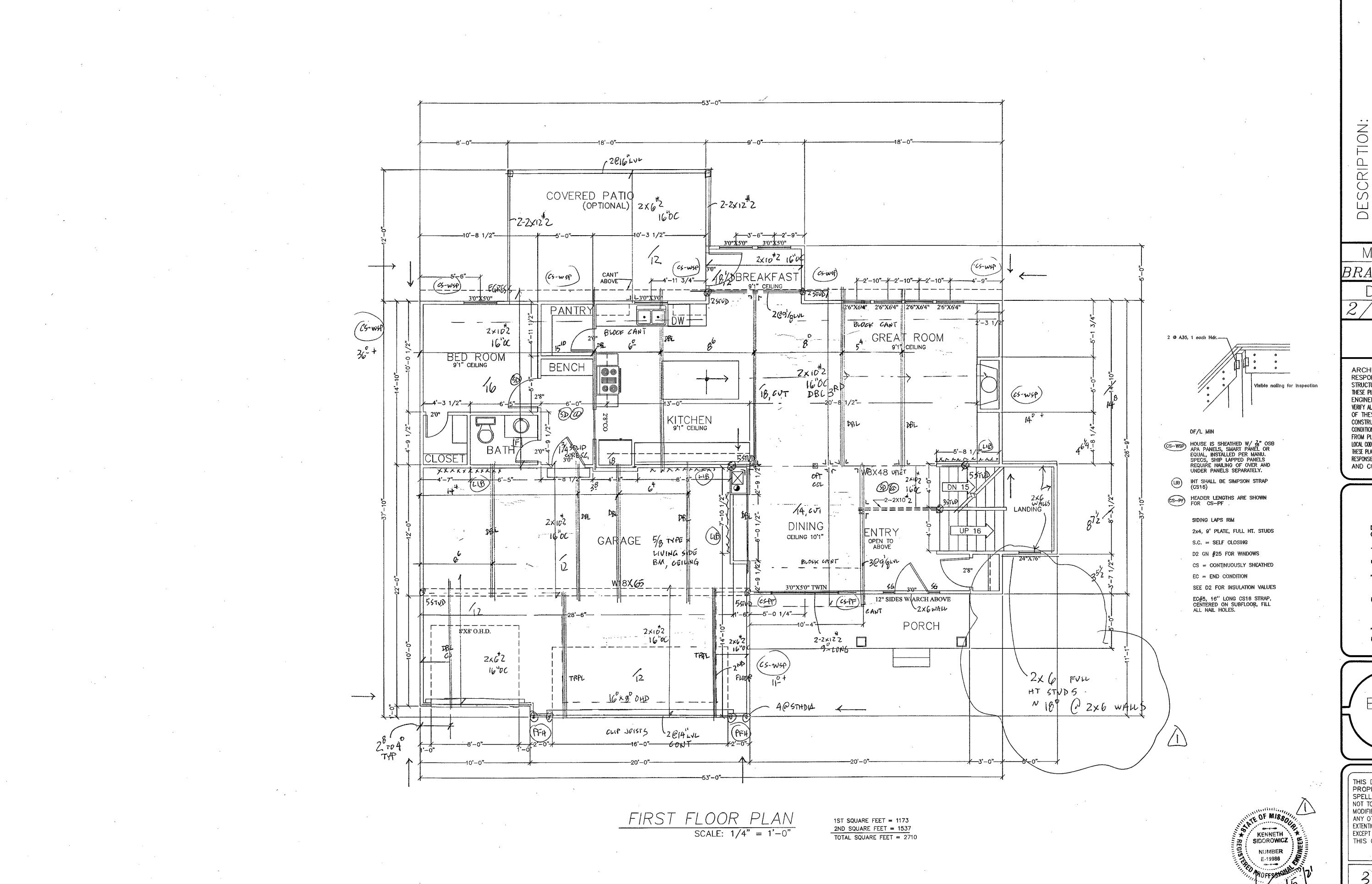
BRANTLYDATE:

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

Cobey Creek 528 SE Carte Lee's Summit



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FRAMING FLOORFIRST

MODEL: BRANTLYDATE:

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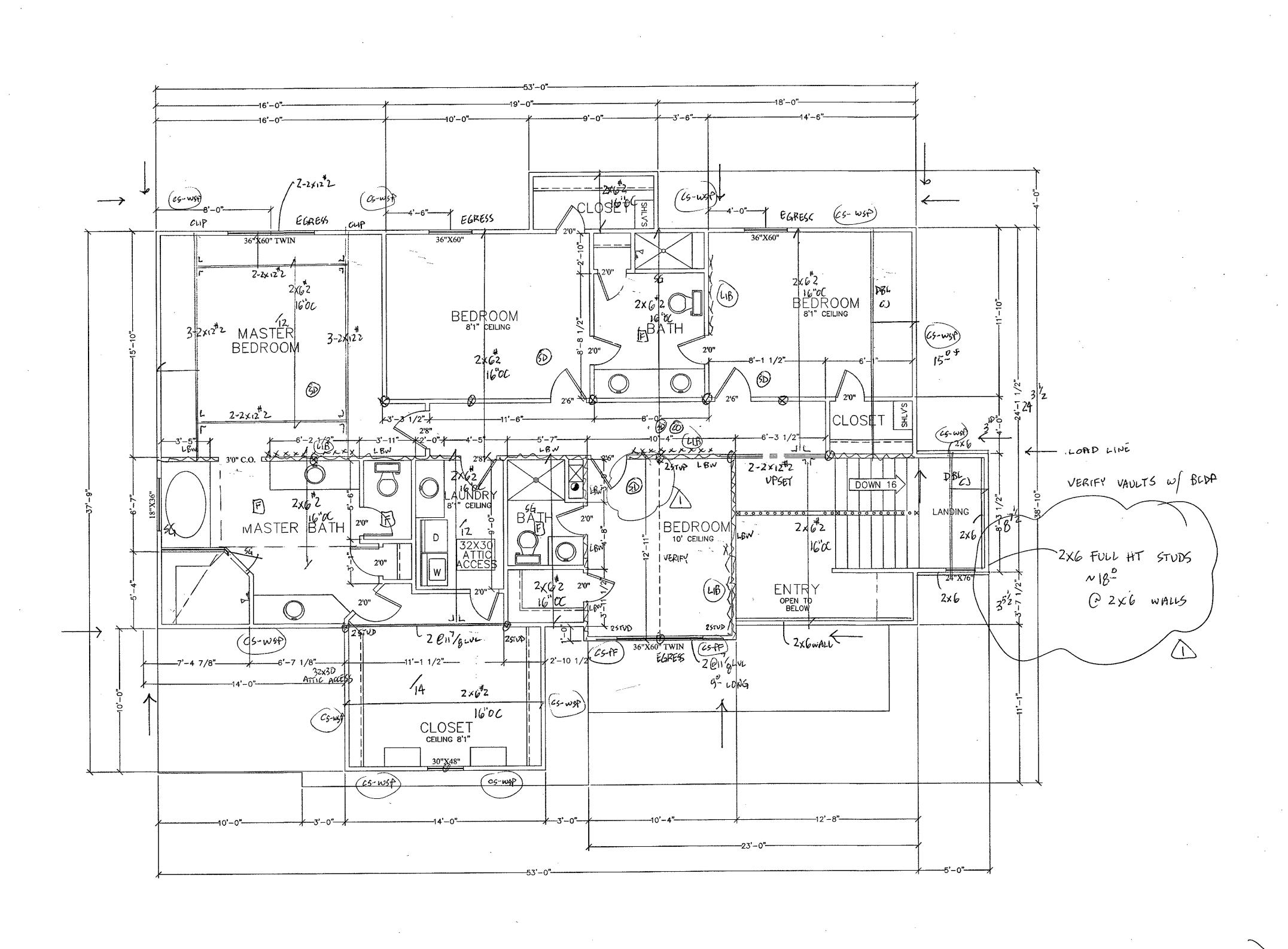
> Rd. Cobey Creek 528 SE Carte Lee's Summit

SET

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LEE'S SUMMIT, MISSOURI

05/06/2021



DESCRIPTION:

SECOND FLOOR FRAMING

ROOF FRAMING PLAN

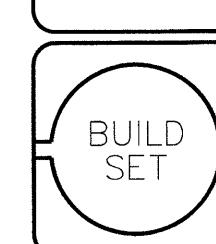
MODEL:

BRANTLY I

DATE: 2/20/21

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

Cobey Creek Lot 27 528 SE Carter Rd. Lee's Summit, MO



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KENNETH SIDOROWICZ

4 of 6

SHEET REKEASE FOR CONSTRUCTIO

CONSTRUCTION
AS NOTED ON LANS REVIEW
DEVELOPMENT SERVICES

SUMMIT; MISSOU

2ND SQUARE FEET = 1537

SECOND FLOOR PLAN

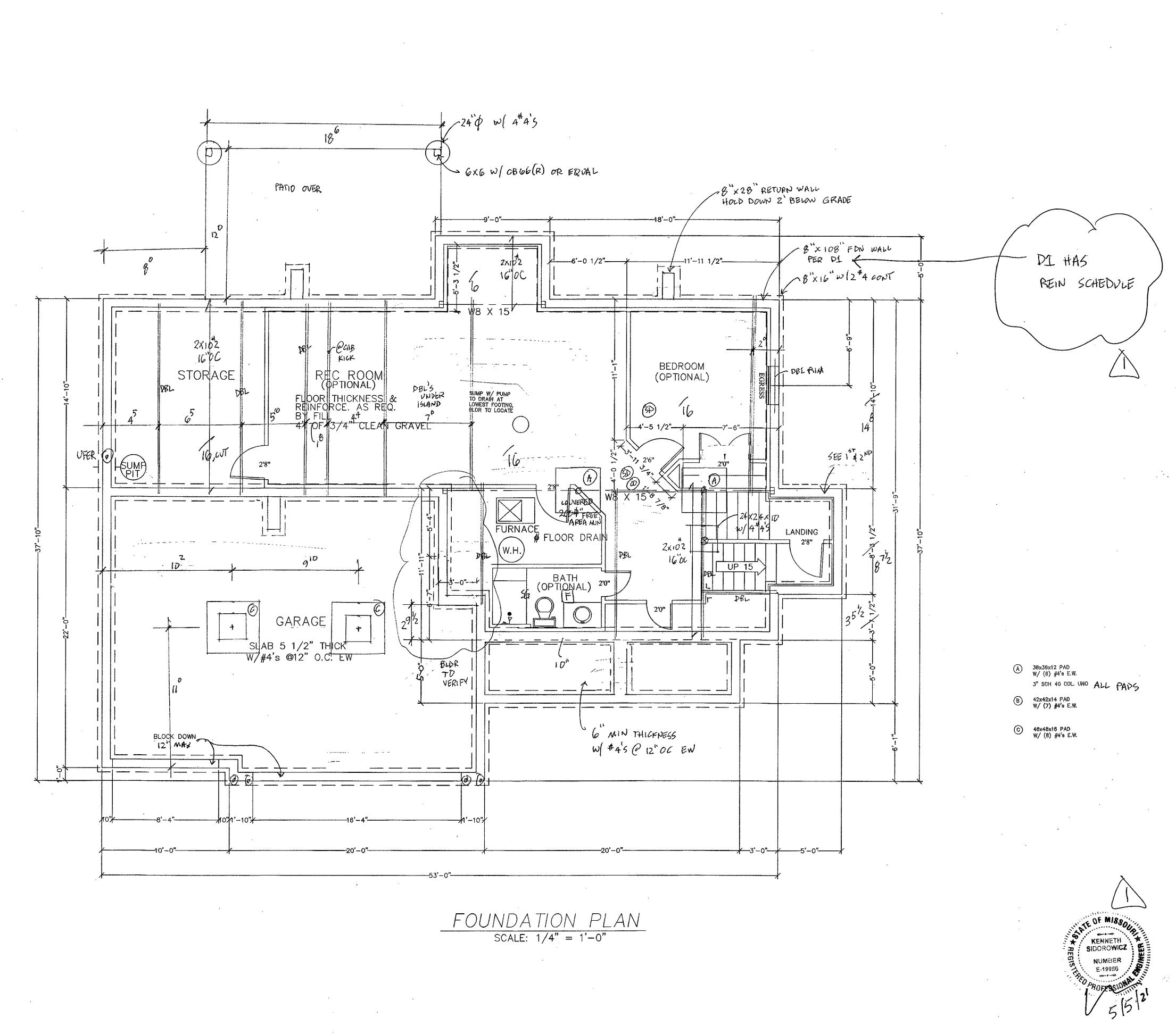
SCALE: 1/4" = 1'-0"

FIELD VERIFY LENGTH

LENGTH SIZE

24'11" W8 X 15
30'0" W18X45

2 POSTS ADJUSTIBLE



DESCRIPTION: FOUNDATION

MODEL: BRANTLY

DATE: 2/20/21

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

Cobey Creek Lot 27 528 SE Carter Rd. Lee's Summit, MO

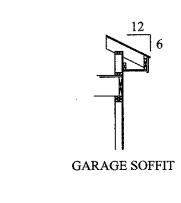
BUILD

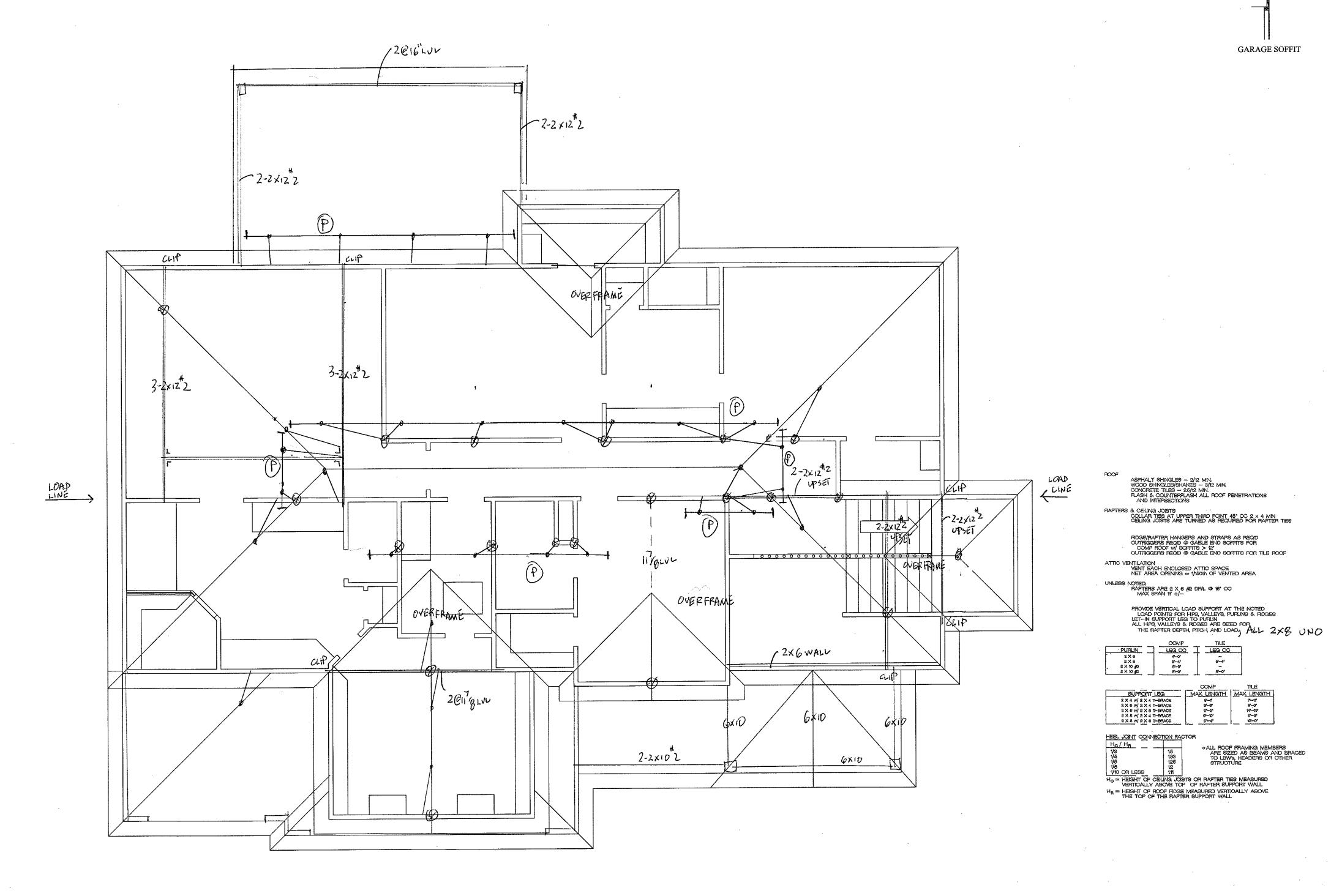
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5_of_6

RELEASE FOR
CONSTRUCTION
AS NOTED ON LANS REVIEW
DEVELOPMENT SERVICES

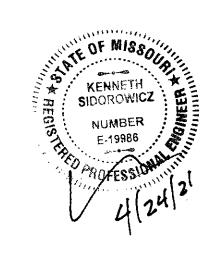
SUMMIT, MISS





ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

RAFTER TIES SHALL BE PROVIDED PER 802.3.1 WHEN THE CJ'S ARE NOT CONNECTED TO THE RAFTERS AT THE TOP PLATE



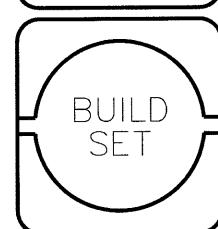
FRAMINGFLOORDESCRIPTION: FIRST

MODEL: BRANTLY

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

> St 27 Rd. MO Cobey Creek Lot 528 SE Carter R Lee's Summit, M



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DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

A 3" MIN. COVER

PEDESTAL

SLAB @ PEI

SLAB ON FILL

<u>DIVISION 3</u> — CONCRETE 1. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND ACI 332 "REQUIREMENTS FOR RESIDENTIAL CONCRETE CONSTRUCTION." CONCRETE MATERIALS SHALL COMPLY WITH: A) CEMENT - ASTM C 150 TYPE

B) AGGREGATE — ASTM C 33, MAXIMUM AGGREGATE SIZE 3/4" C) WATER - POTABLE, WATER/CEMENT RATIO .5 (MAX.)

D) AIR-ENTRAINING ADMIXTURE - ASTM C 260 E) WATER-REDUCING ADMIXTURE - ASTM C 494, INCLUDING SUPERPLASTICIZERS. F) FLY ASH — ASTM C 618, CLASS C

3. CONCRETE SHALL DEVELOP THE FOLLOWING MINIMUM 28 DAY DESIGN COMPRESSIVE STRENGTH (f'c): TYPE OF CONSTRUCTION COMP. STRENGTH (f'c) A) FOOTINGS, WALLS, AND SLABS SEE TABLE B) EXTERIOR SLABS AND CURBS SEE TABLE

(AIR-ENTRAINED CONCRETE) CONCRETE PROPORTIONS SHALL BE ESTABLISHED ON THE BASIS OF FIELD EXPERIENCE AND/OR TRIAL MIXTURES IN ACCORDANCE WITH ACI 318-89 SECTIONS 5.2 AND 5.3. WHEN FLY ASH IS UTILIZED IN THE MIX, MIX SHALL CONTAIN A WATER-REDUCER. FLY ASH SHALL BE ADDED AT THE RATE OF NOT MORE THAN 100 POUNDS PER CUBIC YARD AND CEMENT SHALL BE REDUCED BY NOT MORE THAN 15 PERCENT BY WEIGHT.

4. PROPORTION AND DESIGN MIXES TO RESULT IN CONCRETE SLUMP AT A POINT OF PLACEMENT OF NOT MORE THAN 4" TO 5".

5. USE AIR-ENTRAINING ADMIXTURES IN EXTERIOR EXPOSED CONCRETE TO RESULT IN CONCRETE AT POINT OF PLACEMENT HAVING AIR CONTENT OF 5 TO 7 PERCENT ENTRAINED AIR.

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

7. CONCRETE WORK EXECUTION: A) MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE, UNLESS NOTED OTHERWISE ON DRAWINGS: CAST AGAINST AND EXPOSED TO EARTH_

EXPOSED TO EARTH OR WEATHER_ NOT EXPOSED TO EARTH OR WEATHER B) IN CORNERS OF GRADE BEAMS PROVIDE CORNER REINFORCEMENT LAP TWO FEET EACH DIRECTION IN OUTSIDE FACE, MATCHING SIZE

AND SPACING OF HORIZONTAL REINFORCEMENT. C) PROVIDE CONTROL JOINTS IN SLABS-ON-GRADE AT NOT GREATER THAN 20 FEET ON CENTER IN EACH DIRECTION. SAW CUT CONTROL JOINTS MINIMUM 1/4 OF THE SLAB DEPTH, AS SOON AFTER SLAB FINISHING AS POSSIBLE WITHOUT DISLODGING AGGREGATE. (DO NOT SAW CUT STRUCTURAL SLABS w/o APPROVAL).

8. BATCH TICKETS SHALL BE SUBMITTED TO A CONTRACTORS REPRESENTATIVE PRIOR TO OFF LOADING. ANY CONCRETE MORE THAN 45 MINUTES OUT PRIOR TO STARTING PLACEMENT SHALL BE

9. THE MAXIMUM ADDITION OF WATER SHALL BE LIMITED TO 1 GALLON PER YARD; NOTE THAT THIS ADDITION SHALL BE USED TO CONTROL HEAT ONLY (NOT SLUMP).

10. PUMPS SHALL NOT BE PRIMED IN FORMS.

TURN DOWN SLAB @ |

HVAC BLOCK DOWN

DETAIL MAY VARY

_ _ _ _ _ _

× > 0.58

PEDESTAL

4 4

DETAIL MAY VARY

3" MIN COVER

PED @ FTG

- UNDISTURBED

w/ 8 #4's EW

11. REINFORCEMENT A) ALL REINFORCING BARS SHALL BE A615, GR40 MIN. LAP SPLICES 18" MIN FOR #4 BAR. SEE TABLE

B) WELDED WIRE FABRIC SHALL BE ASTM A185, LAP AT LEAST ONE FULL MESH AND LACE SPLICES WITH WIRE. C) REBAR SHALL BE CLEAN, AND FREE FROM RUST AND OIL PRIOR TO THE PLACEMENT OF CONCRETE. REBAR SHALL BE TIED AND SECURED AS REQUIRED TO PREVENT DISPLACEMENT IN THE FORMS.

D) TIE STEEL TO PREVENT DISPLACEMENT. HOOK AND TIE STEEL AS POSSIBLE. TIES, CHAIRS, OR OTHER PRODUCTS SHALL BE PROTECTED WHEN LOCATED NEAR EXPOSED SURFACES E) STEEL SHALL BE STORED ON SITE ABOVE GRADE, AND COVERED

12. ADJUST FOUNDATION FOR SITE AND SOIL CONDITIONS AND VERIFY WITH EOF

DETAIL MAY VARY

JOIST HNGR -

FLOOR

JOIST

6" MIN. STEM WALL—

1-1/2" LEDGE

HVAC TRUNK

12" ADDITIONAL

LAB @ HVAC

BLOCK DOWN @ HVAC

DBL PLATE FOR GYP CRETE

CONCRETE SLAB

2.5" INSULATION,

– 1—1/2" LEDGE MIN.

ICF WALL

FLUSH FRAMING @ FDN

AS REQUIRED FOR PROTECTION FROM RAIN AND OTHER POSSIBLE

DIVISION 4 - MASONRY

1. COMPRESSIVE STRENGTH OF CONCRETE MASONRY CONSTRUCTION (CMU) SHALL BE AS FOLLOWS (PSI). MASONRY STRENGTH NOT SPECIFICALLY NOTED ON PLAN SHALL BE (f'm) 1500 PSI.

MASONRY STRENGTH (F'M DESIGN)_ BLOCK STRENGTH 1900 MORTAR STRENGTH 1800 GROUT STRENGTH__

2. CONCRETE BLOCK SHALL BE HOLLOW LOAD-BEARING CONCRETE MASONRY UNITS CONFORMING TO ASTM C 90, TYPE N-II. ALL BLOCKS SHALL BE PLACED IN RUNNING BOND CONSTRUCTION (UNLESS OTHERWISE NOTED) WITH ALL VERTICAL CELLS IN ALIGNMENT.

3. MORTAR MIX SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 270, TYPE M OR S. TYPE M MORTAR SHALL BE USED WHERE MASONRY IS IN CONTACT WITH SOIL.

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 GROUT. ALL MASONRY BELOW FINISHED FLOOR OR GRADE SHALL BE GROUTED SOLID. HOLD GROUT DOWN 1—3" BELOW TOP OF BLOCK AT GROUT LIFT JOINTS AND AT CONCRETE PLACED OVER

5. MINIMUM LINTEL, WHERE NOT ON PLANS, SHALL HAVE A MINIMUM OF 2 — #5's CONTINOUS HORIZONTAL BARS IN BOTTOM OF BOND BEAM OR LINTEL BLOCK AND SHALL BE GROUTED SOLID TO A MIN. DEPTH OF 24." ALL LINTEL REINFORCING AND GROUT SHALL EXTEND 2' MINIMUM PAST JAMBS UNLESS NOTED OTHERWISE ON PLANS OR DETAILS.

6. LAP REINFORCING 48 BAR DIAMETERS. STAGGER LAP SPLICES A MINIMUM OF ONE LAP LENGTH.

7. MASONRY VENEER SHALL BE ATTACHED TO SUPPORT WALL FRAMING WITH 36" DIAMETER WALL TIES OR DOVETAIL-TYPE METAL TIES OF EQUIVALENT STIFFNESS EMBEDDED INTO HORIZONTAL MORTAR JOINTS. MAXIMUM VERTICAL SPACING OF TIES SHALL BE 16," MAXIMUM HORIZONTAL SPACING SHALL BE 24." TIES IN ALTERNATE COURSES SHALL BE STAGGERED. PROVIDE #9 WIRE REINFORCING IN HORIZONTAL MORTAR JOINTS AT 16" OC. ENGAGE #9 WIRE WITH WALL ANCHOR TIES. CONSTRUCTION JOINTS IN MASONRY VENEER WALLS SHALL BE LOCATED PER THE DRAWINGS.

8. WATERPROOFING, DRAINAGE PLANE, AND INSTALLATION PER ADOPTED BUILDING CODE.

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

1. ALL MISCELLANEOUS STRUCTURAL STEEL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC "SPECIFICATIONS FOR DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR

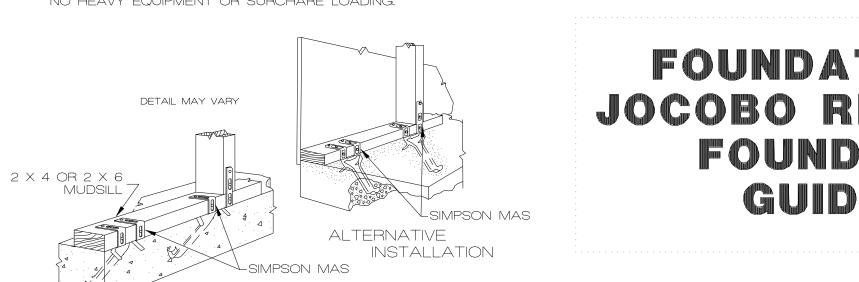
MISCELLANEOUS STRUCTURAL STEEL MATERIAL SHALL COMPLY A) STRUCTURAL STEEL — ASTM A992

B) STEEL PIPE COLUMNS - ASTM A53 GRADE B(Sch 40 TYP) C) ANCHOR BOLTS - ASTM A307 GRADE A, NON-HEADED TYPE UNLESS OTHERWISE NOTED.

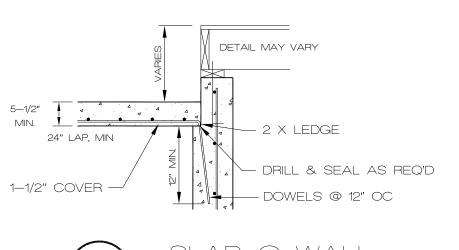
3. FLITCH PLATES SHALL HAVE 1º DIA. BOLTS @ 16" OC, STAGGERED TOP AND BOTTOM BETWEEN JOIST LAYOUT.

RET	TURN WALLS
WALL HT. ABOVE FLOOR	RETURN SPACING (hold down 24" below grade)
LESS THAN 4'	RETURN WALLS NOT REQ'D
>4' TO 9'	16'-4" ON CENTER (MAX.), AND WITHIN 8' OF STEP DOWN OR AS SHOWN

* RETURN WALLS ALLOW FOR BACKFILL W/O FLOOR DECK IN PLACE FOR 60 PCF EQUIVALENT FLUID WEIGHT SOIL. NO HEAVY EQUIPMENT OR SURCHARE LOADING.



. MUDSILL ANCHORAGE ALTERNATIVE TO J-BOLTS



SLAB @ WALL NTS SLAB ON FILL CONCRETE OR CMU

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

______ × L² ___ 27,206 #_in 40,000 * 0.2 $\frac{0.85 * 3,500 * 12}{0.85 * 3,500 * 12} = 0.22$ $0.85 * f_c * b$ $*\phi A * f(d - a/2)$

GARAGE SLAB:

= 0.9(0.2)(40000)(4-0.22/2)= 28,008 #-in > 27,206 (OKAY).. Use #4 @ 12" OC EW 12'-6" (+/-) MODULE

= 28,008 #-in > 25,951 (OKAY)

∴ Use #4 @ 12" OC EW 15'-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 #2 DOUGLAS FIR MIN TYPICAL HEADER: 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 景" 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 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 PLACEMENT DRAWING.

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

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

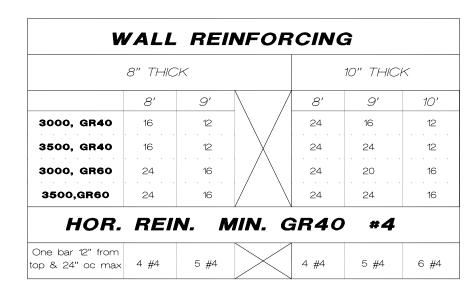
9. SOLID BLOCKING BETWEEN JOISTS @ 36" OC FOR JOISTS PARALLEL TO THE EXTERIOR FOUNDATION WALL, MIN. 48" OR 3 JOIST SPACES.

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

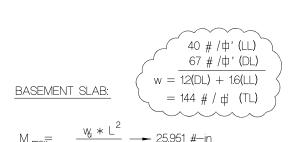


100 # /中' (LL)

67 # /中' (DL)

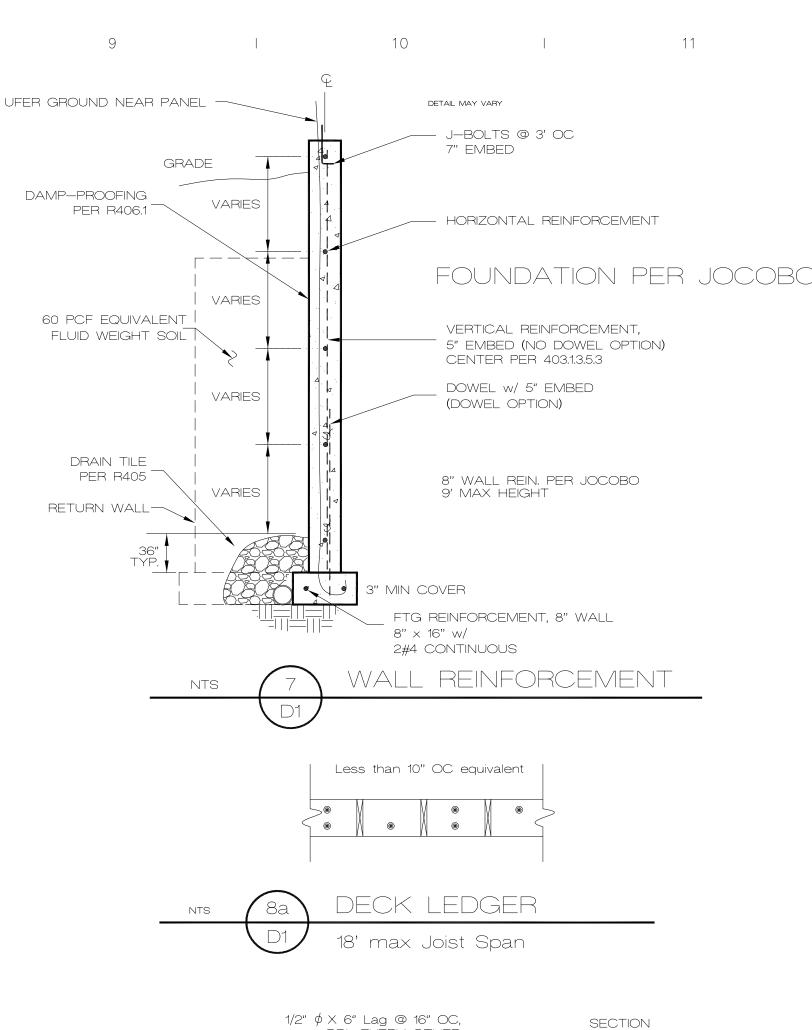
 $w_u = 1.2(DL) + 1.6(LL)$

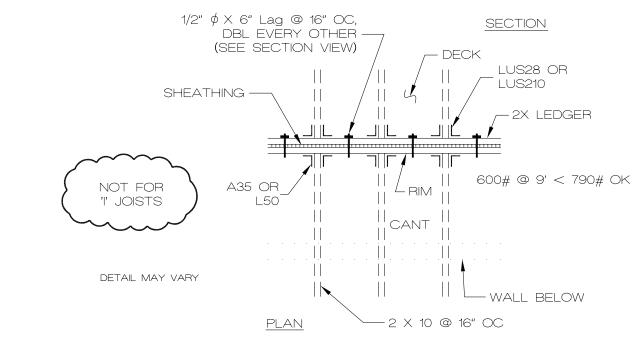
 $= 240 \# / \oplus' (TL)$

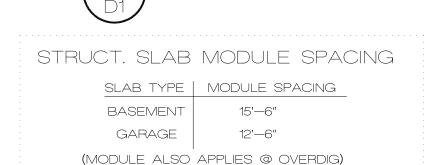


<u>W_i * L⁺</u> → 25,951 #—in

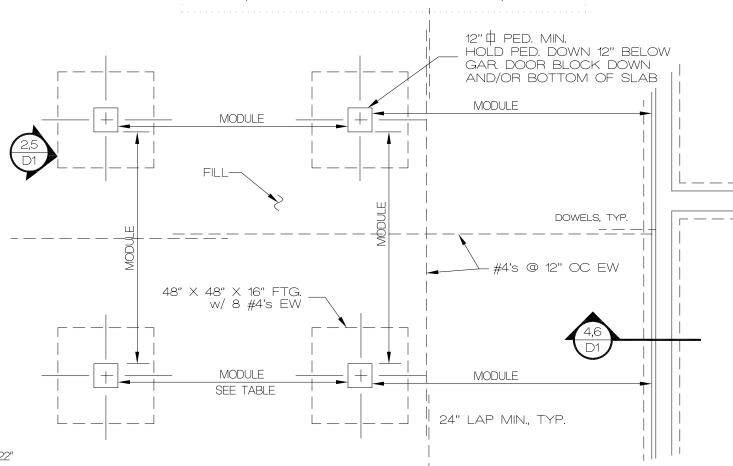
0.85 * 3,500 * 12 = 0.22" $\phi M = *\phi A * f (d - a/2)$ = 0.9(0.2)(40000)(4-0.22/2)







DECK @ CANTILEVER



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

NUMBER E-19986 **RELEASE FOR**

KENNETH 2

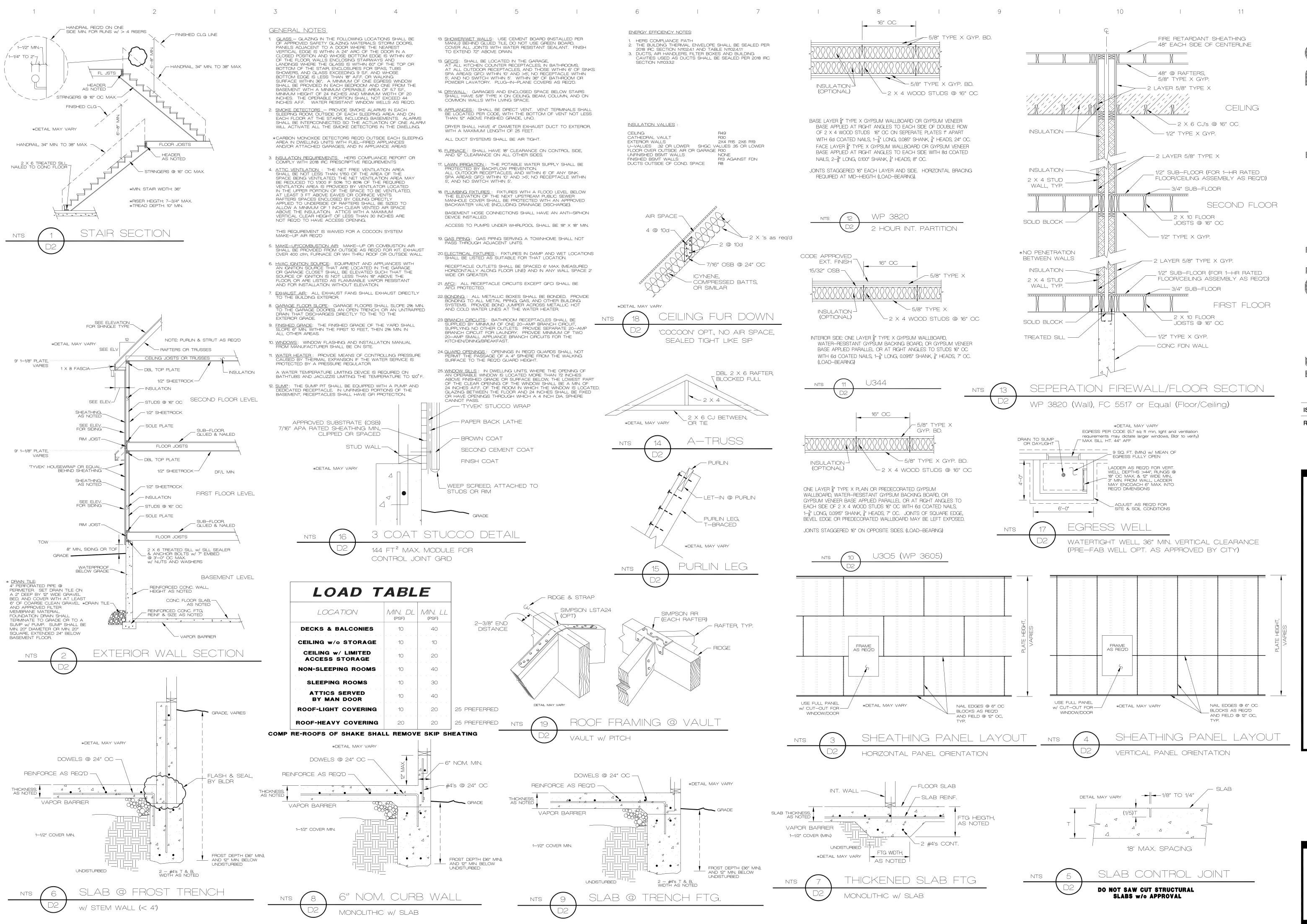
SIDOROWICZ

ISSUE DATE

REVISIONS

11/2/15

CONSTRUCTION 05/06/2021



Box 12089, Parkville, Missouri 64152 (816) 741-0858

ISSUE DATE
REVISIONS

<u>е</u> :О

DETAIL SHEET

KENNETH SIDOROWICZ

NUMBER
E-19986

E-19986

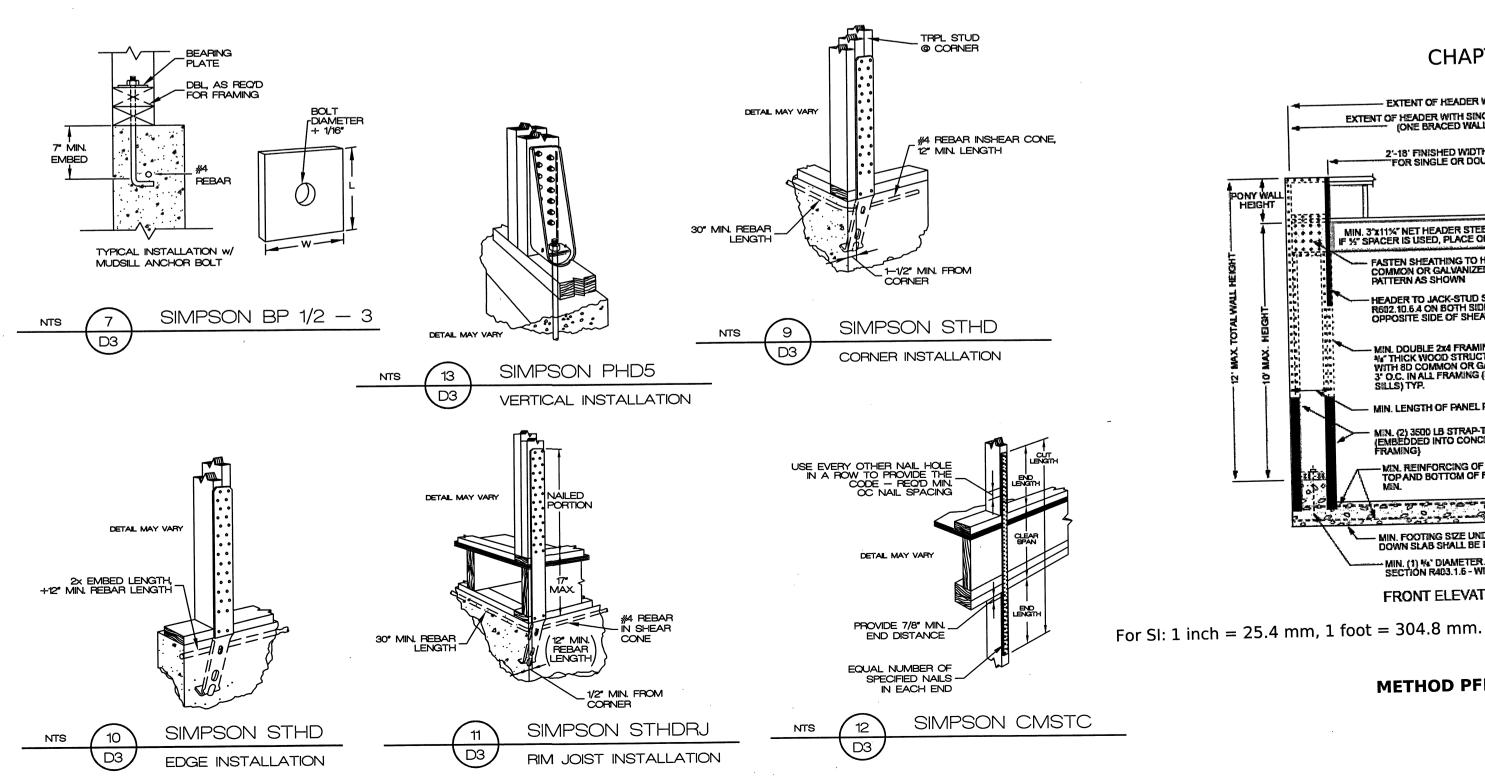


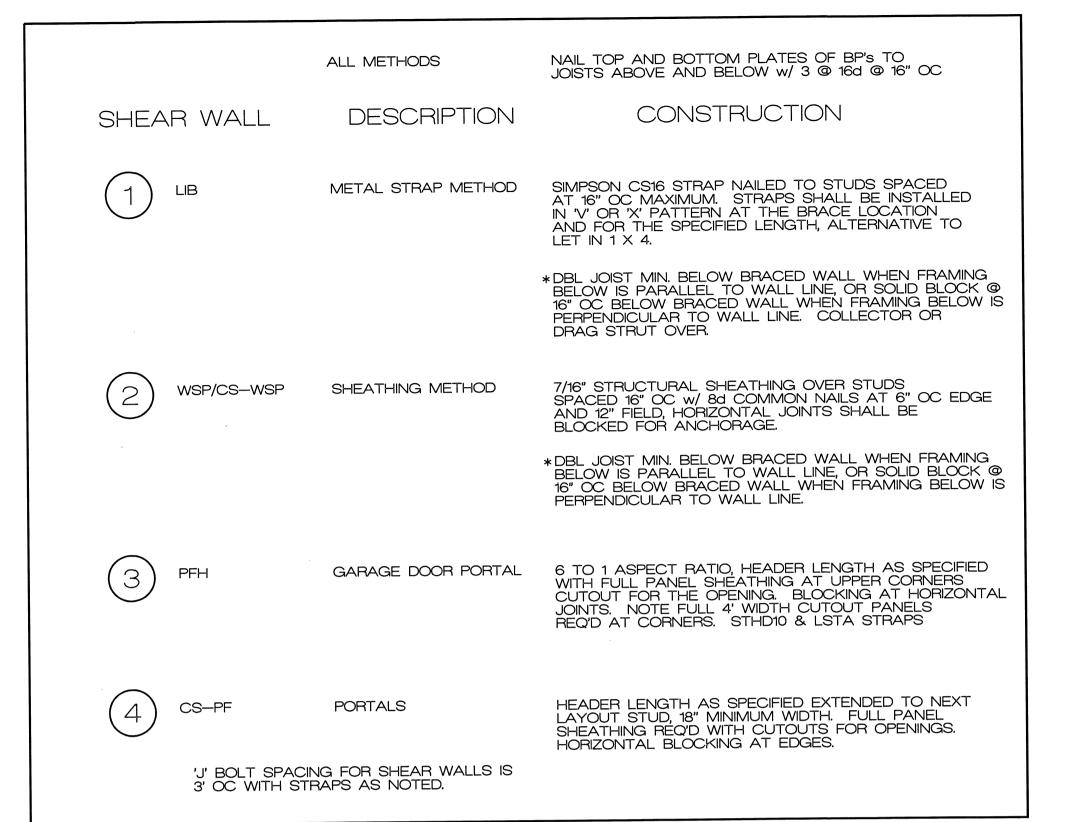
STAPLES NOT PERMITTED IN KCMO

Scoreing Devision place for referen to long pasts, lose real				STENER SCHEDULE FC	IASI	
1 Society Devices pass or nature to top paths, see real 3-40 (3-47 × 0.057) 3-40 (3-47 × 0.057) 3-40 (3-47 × 0.057) 3 3 3 3 3 3 3 3 3	Spacing of fasteners			elements	Description of building eler	Item
2. Carlog potate to place to previous finition, since over persistore, face real 3. Carlog potate not attached to previous finition, since over persistore, face real 4. Codar to estate, does not not 1-14" x 20 particips estate 5. Previous to capta not at 1-14" x 20 particips estate 7. Previous to capta not at 1-14" x 20 particips estate 7. Previous to capta not at 1-14" x 20 particips estate 7. Previous to capta not at 1-14" x 20 particips estate 7. Previous to capta not at 1-14" x 20 particips estate 8. Previous to capta not at 1-14" x 20 particips estate 8. Previous to capta not at 1-14" x 20 particips estate 9. But 1-12" treated; two pieces will visit space 9. But 1-12" treated; two pieces will visit space 10. Cardinate heads to be pieces 11. Corridance heads to shall be real 12. Cardinate heads to be pieces 13. Corridance heads to be pieces 14. Daubits to place the real 15. Socie place to place to corridance from pieces 16. Socie place to place to place of previous place not in historia of an object persister, face not in historia of an object persister persister persister persister persister persister pers						of
Service pattern and standard for parallel mints, lapse over participation, factor male 3100 (or x 0.025) and control parallel mints are used to pattern by pattern		.		to top plate, toe nail	Blocking between joists or rafters to to	1
Color fac raths, fine near or +14" x 20 gar, ridge etrain 3-loc (2 x x x x x x x x x x x x x x x x x x		.				2
Factor to plant, for any mode involves use PTC close at NLB weeks and epocial holdowine 9tiple of 3tiple (3tiple of 1tiple of		<u>.</u>				3
Confidence Con	e 2 (note i)	2 toe neils side 1 1 toe neil side 2 (no		x 20 ga. ridge strap	Collar tie rafter, face nail or 1-1/4" x 20	. 4
Toe nat	J. – . W. J		3-16d of 3-10d (3-1/2 x 0.155, 0.146)			
Face mat		_	4_16d (3_1/2" × 0.135")	rafters:		6
No. No.		_				
20	,				race hall:	
Section Description Process Section		24" o.c.	10d (3° × 0128°)			
Seath-up header, two pecses w/ 1/2 space* 196 (3-1/2 x 0.059) 197 ca. arrog each edge 100 Continuous header to stud, too nall 100 Continuous header to peta to stud, too nall 100 Continuous header to peta to stud, too nall 100 Continuous header to peta to stud, too nall 100 Continuous header to peta to stud,		12° o.c.		cornere face neil		.7
Continuous header to stack to neal	ge	16" o.c. along each edge				. 8
T. Continuous header to stud, toe nat	ge	16" o.c. along each edge			Continued header two pieces	
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Top or sole pitter to stud, find neal 22-did (3-1/2 × 0.185)		_	· · · · · · · · · · · · · · · · · · ·			17
Top paties, spar at corners and intersections, face neal 2-3d (2-1/2 × 0.187) 7 7 7 7 7 7 7 7 7		<u>.</u>				
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21		······		ace nail	T brace to each stud and plate, tace	.20
2 staples 1-3/4* — 2-ed (2-1/2* x 0139) — 7 2 wider than 1* x 8* sheathing to each bearing, face nail 2-ed (2-1/2* x 0139) — 7 24 Uset to all or girder, toe nail 3-ed-signeds***-X-XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		_		face nail	# v. C# charthing to each begring face	~
22				lace hall	T x 6 sneathing to each bearing, lace	.21
Wider than T x 8" sheathing to each bearing, face nail 3-stalepates 1-9/4" 7 7 7 7 7 7 7 7 7		.	· · · · · · · · · · · · · · · · · · ·	face nail	1" x 8" sheathing to each hearing face	22
Victor V		<u>-</u>	3 staples 1-3/4*		1 X O Sheating to each bearing, idea	
24 Joist to sill or girder, toe nail 3-bd (2-1/2' × 0.197) 7-0.25		_	3—865(20)642"1-x3/04"13")	ach bearing, face nail	Wider than 1" x 8" sheathing to each I	23
Emploist to top plate, toe nail (cord applications also) 8d (2-1/2' x 0.173') 6 - 0.0. Emploist or blocking to sall plates to enail 2 - 8d (2-1/2' x 0.173') 6 - 0.0. A control of the plate is to enail 2 - 8d (2-1/2' x 0.173') 7 - 0.0. A control of the plate is plate is plate in the plate in the plate is plate in the plate is plate in the plate in the plate in the plate is plate in the plate is plate in the plat			3-8d (2-1/2" x 0.113")		loist to sill or girder toe nail	
26 Firm joist or blocking to sall piate, toe hall 27 T × 6' subfloor to least to each joist, face nail 28 Z' subfloor to joist of girder, blind and face nail 29 Z' planks (plank & beam — floor and root) 29 Z' planks (plank & beam — floor and root) 30 Bull—up girders and beams, Z' lumber layers 31 Ledger strip supporting joists or rafters Description of building Tories: b, c, e) Description of fastener Description of fastener Description of additional interior wall sheathing to framing and particleboard wall sheathing to framing 31 Sylve to 1/2' and interior wall sheathing to framing and particleboard wall sheathing to framing 32 Sylve to 1/2' and interior wall sheathing to framing and particleboard wall sheathing to framing 33 Sylve to 1/2' and interior wall sheathing to framing and particleboard wall sheathing to framing 34 Sylve to 1/2' and interior wall sheathing to framing and particleboard wall sheathing to framing 35 Sylve to 1/4' and common (2' x 0.137) nail (subfloor, wall) (note; i) 36 Common (2' x 0.137) nail (subfloor, wall) (note; i) 37 Sylve structural cellulosic fiberboard elections and elections of the prown staple is 6 ps. 1-1/2' common of the prown of the			8d (2-1/2" × 0.113")	of applications also)		25
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33			_		3/0 10 1/2	32
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8d deformed (2—1/2* x 0.131*) nail ner wall sheathing (note h) 35		· 12	6			34
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nod structural panels, combination subfloor underlayment to framing 39 3/4" and less 6d deformed (2" x 0.120") nail or 6 12		i '	/		5/8" gypsum sheathing (note d)	38
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39 3/4" and less 6d deformed (2" x 0.120") hall or		19				od struct
Del company (D. 610) : O 6000 coll		12	6		3/4" and less	39
\cdot				8d common (2-1/2" x 0.131") nail	<u> </u>	
40 7/8" to 1" 8d common (2—1/2" x 0.131") nail or		_	8	1	7/8" to 1"	
8d deformed (2-1/2" x 0.120") nail		,	6		4 4/98 40 4 4/48	
41 1-1/8" to 1-1/4" 10d common (3" x 0.148") nail or 8d deformed (2-1/2" x 0.120") nail					1—1/8" to 1—1/4"	41

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. 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.





SHEAR WALL SCHEDULE

CHAPTER 6 WALL CONSTRUCTION

FIGURE R602.10.6.2

METHOD PFH—PORTAL FRAME WITH HOLD-DOWNS

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 8D 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

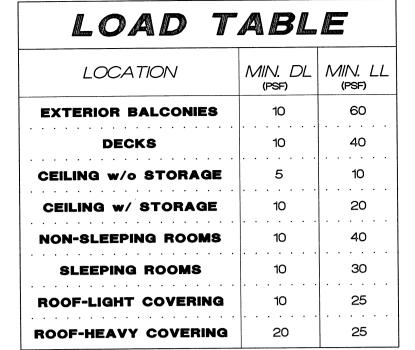
IIN. LENGTH OF PANEL PER TABLE RE02.10.5

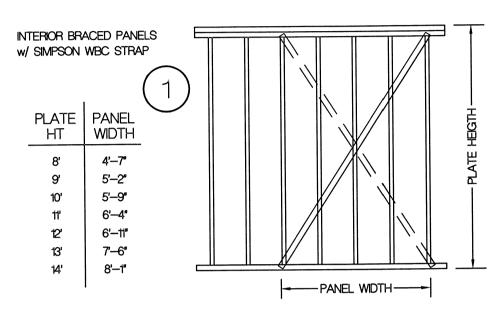
TOP AND BOTTOM OF FOOTING, LAP BARS 15"

Alcon has hopen has has has has has A service of the serv — 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 R403.1.5 - WITH 2"X 2" X*16" PLATE WASHER



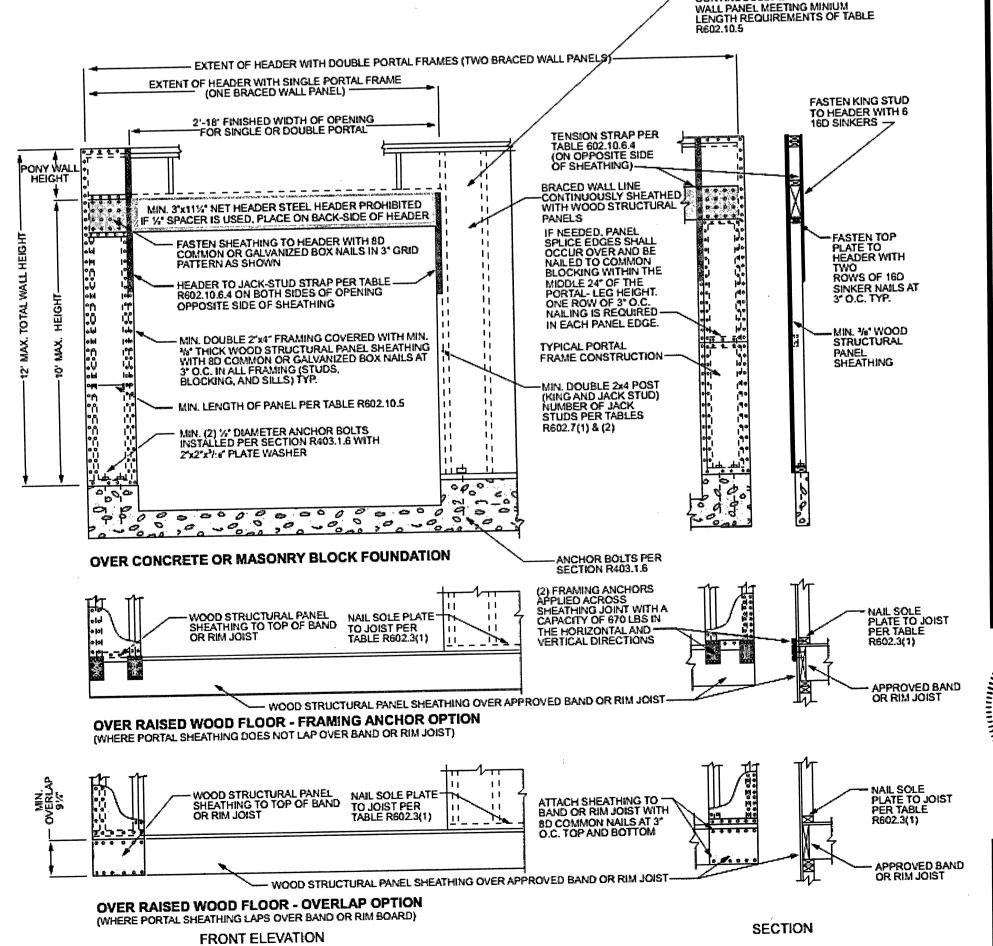


INT. BRACED WALL PANEL LIB, METAL STRAP ALT. TO LET IN 1 X 4

> 2018 International Residential Code Third Printing: Sep 2019

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CHAPTER 6 WALL CONSTRUCTION



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

ISSUE DATE **REVISIONS** CONTINUOUSLY SHEATHED BRACED TE OF MISS ---KENNETH SIDOROWICZ NUMBER

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DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

RELEASE