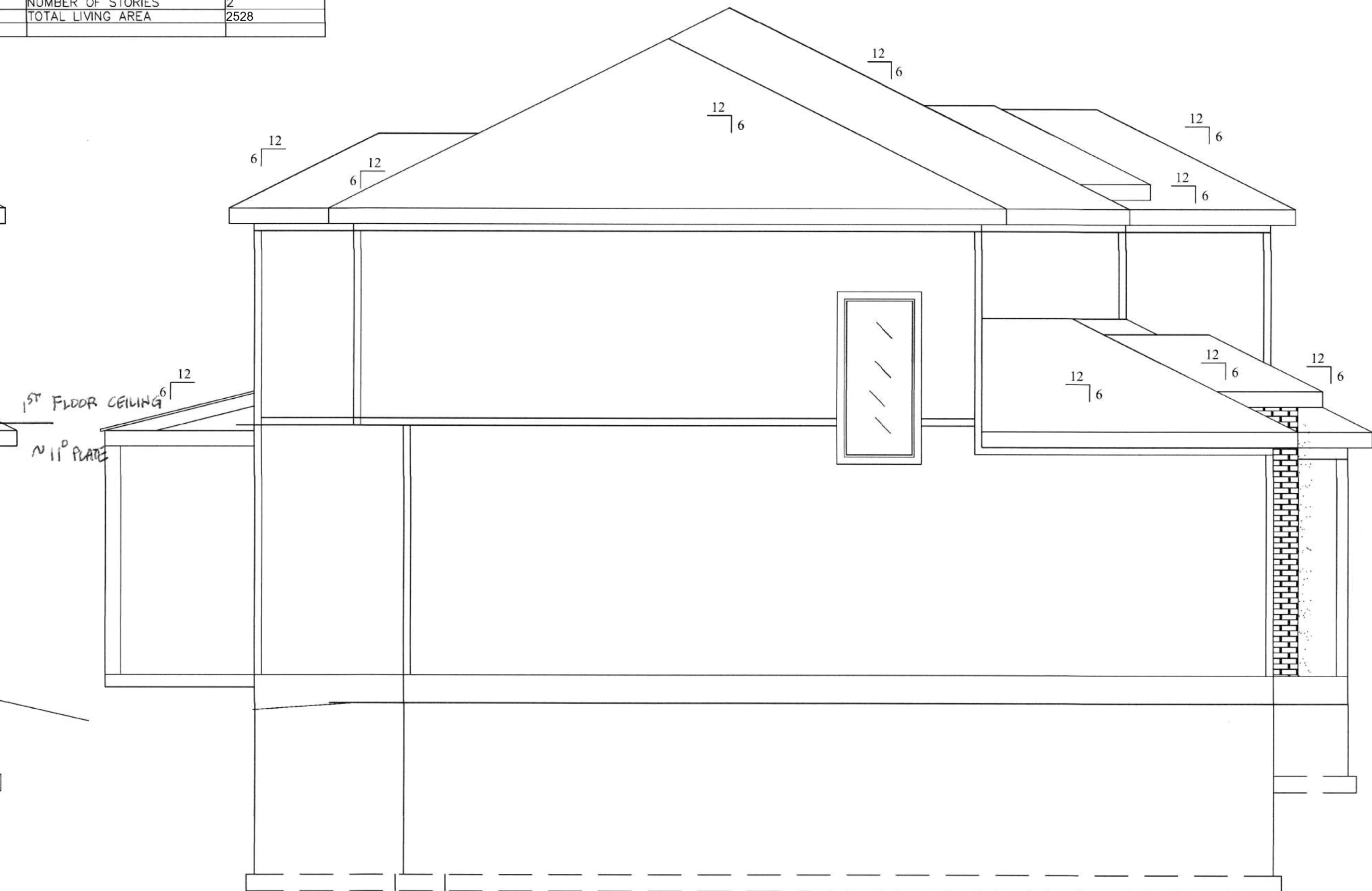


RESIDENTIAL AREA:			
RESIDENTIAL LIVING AREA		1202	
RESIDENTIAL FINISH BASEMENTS		0	
RESIDENTIAL UN-FINISHED BASEMENTS		1202	
RESIDENTIAL GARAGE		860	
RESIDENTIAL LIVING AREA 2		1326	
ROOFING MATERIAL	COMP	NUMBER OF BATHROOMS	4.5
NUMBER OF BEDROOMS	5	NUMBER OF STORIES	2
NUMBER OF LIVING UNITS	1	TOTAL LIVING AREA	2528
SEWER CONNECTION FEE			



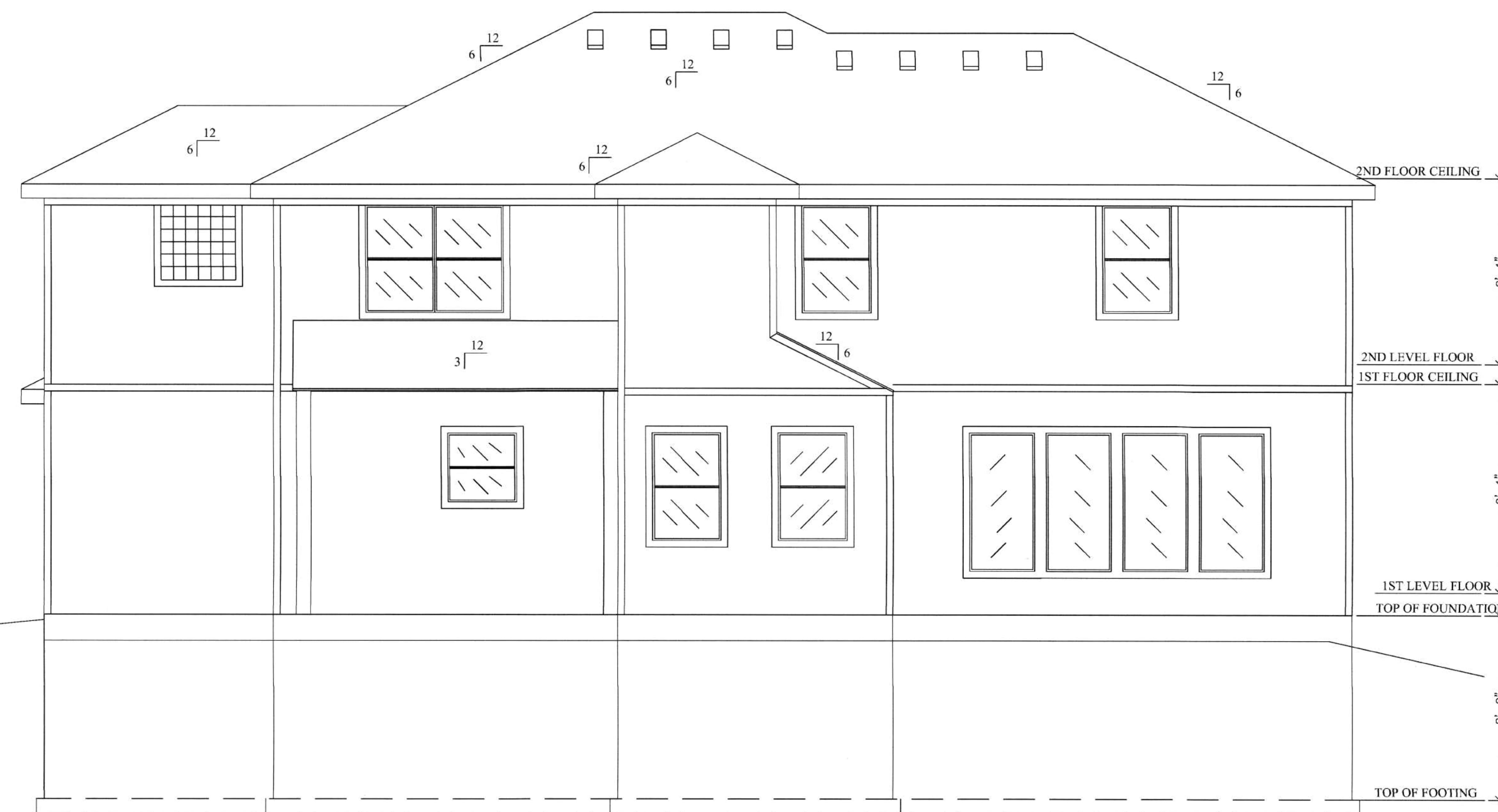
FRONT ELEVATION

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



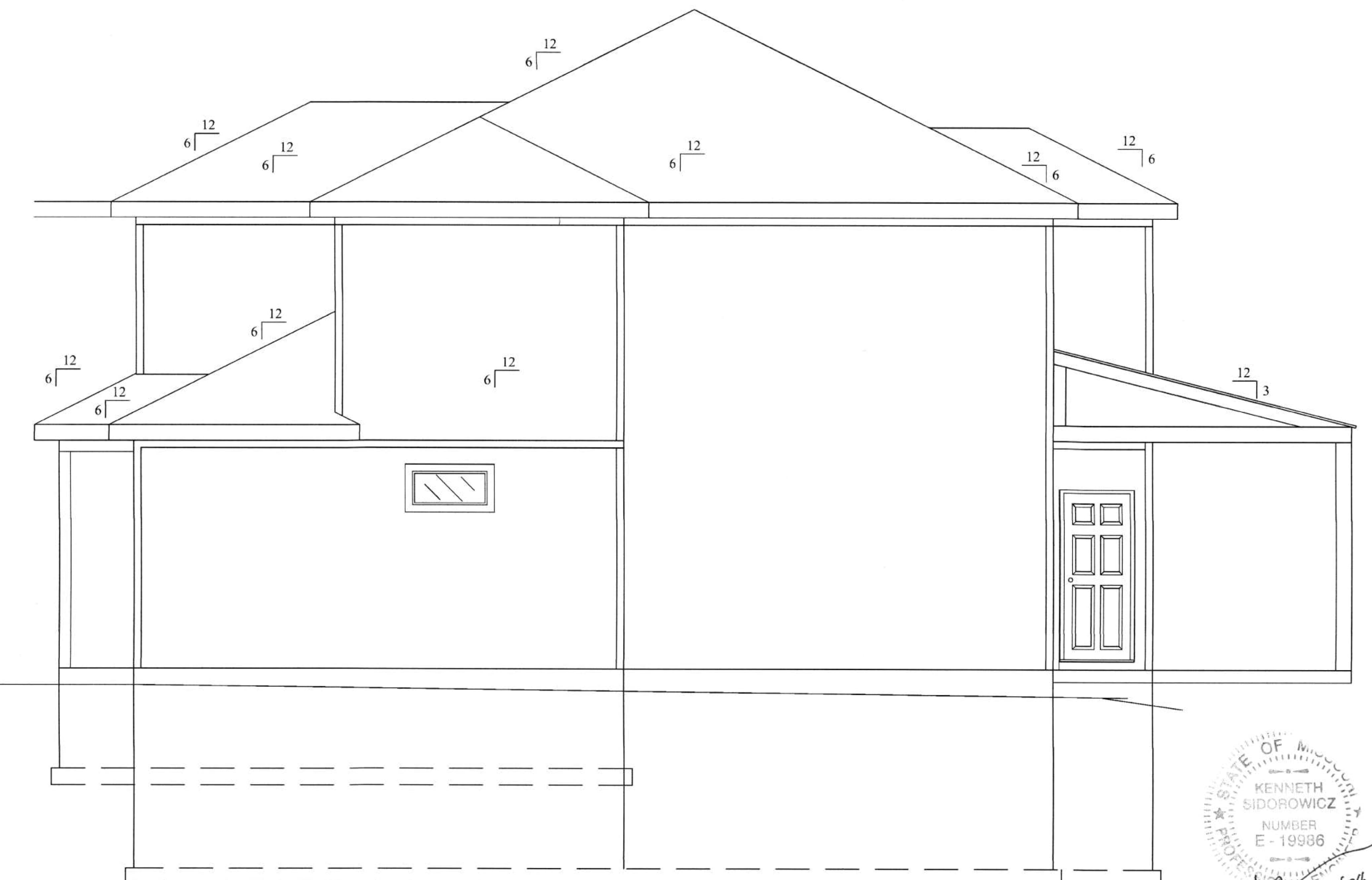
RIGHT ELEVATION

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



BACK ELEVATION

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



LEFT ELEVATION

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

RELEASE FOR CONSTRUCTION
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DESCRIPTION:

FRONT/REAR ELEVATIONS

MODEL:

WOODCREST B

DATE:

2/20/21

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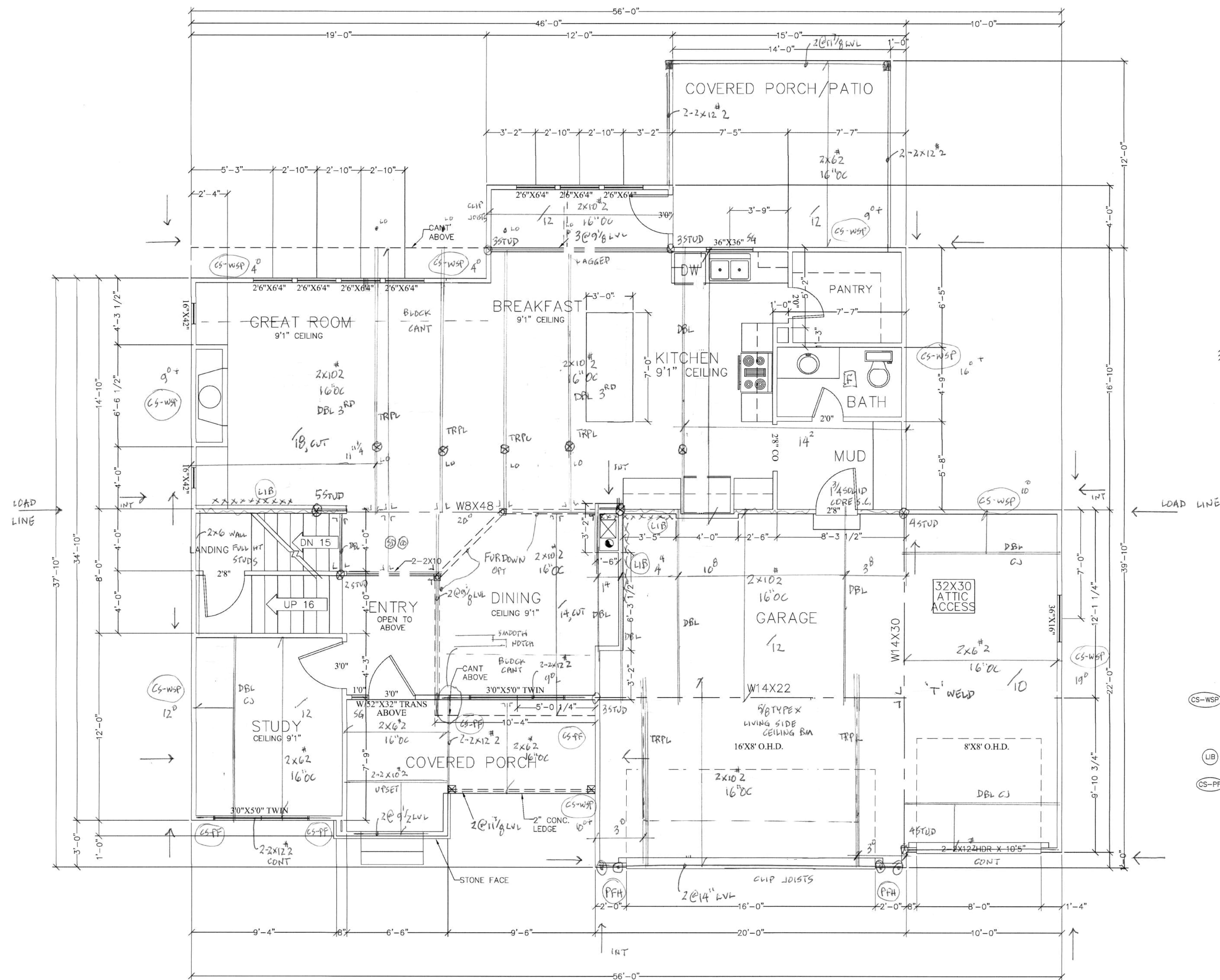
3203 SW Enoch,
Lee's Summit,
MO

BUILD
SET

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1 of 5

SHEET NO:



FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

1ST SQUARE FEET = 1202
2ND SQUARE FEET = 1328
TOTAL SQUARE FEET = 2528

Let-in Headers @ Covered Deck
2 @ A35, 1 each Hdr.
Visible nailing for inspection

- DF/L MIN
- CS-WSP HOUSE IS SHEATHED W/ 5/8" OSB APA PANELS, SMART PANEL OR EQUAL PER MANU. SPECS SHIP LAPPED PANELS. REQUIRE NAIL OF OVER AND UNDER PANELS SEPARATELY.
- LIB INT SHALL BE SIMPSON STRAP (CS16)
- CS-PF HEADER LENGTHS ARE SHOWN FOR CS-PF
- SIDING LAPS RIM
- 2x4 FULL HT STUDS, 9' PLATE, UNO 16" DC
- S.C. = SELF CLOSING
- D2 GN #25 FOR WINDOWS
- CS = CONTINUOUSLY SHEATHED
- EC = END CONDITION
- SEE D2 FOR INSULATION VALUES
- EC#5, 16" LONG CS16 STRAP, CENTERED ON SUBFLOOR, FILL ALL NAIL HOLES

DESCRIPTION:

FIRST FLOOR FRAMING

MODEL:
WOODCREST B

DATE:
2/20/21

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SHEET NO:



SECOND FLOOR FRAMING

WOODCREST B

2 / 20 / 21

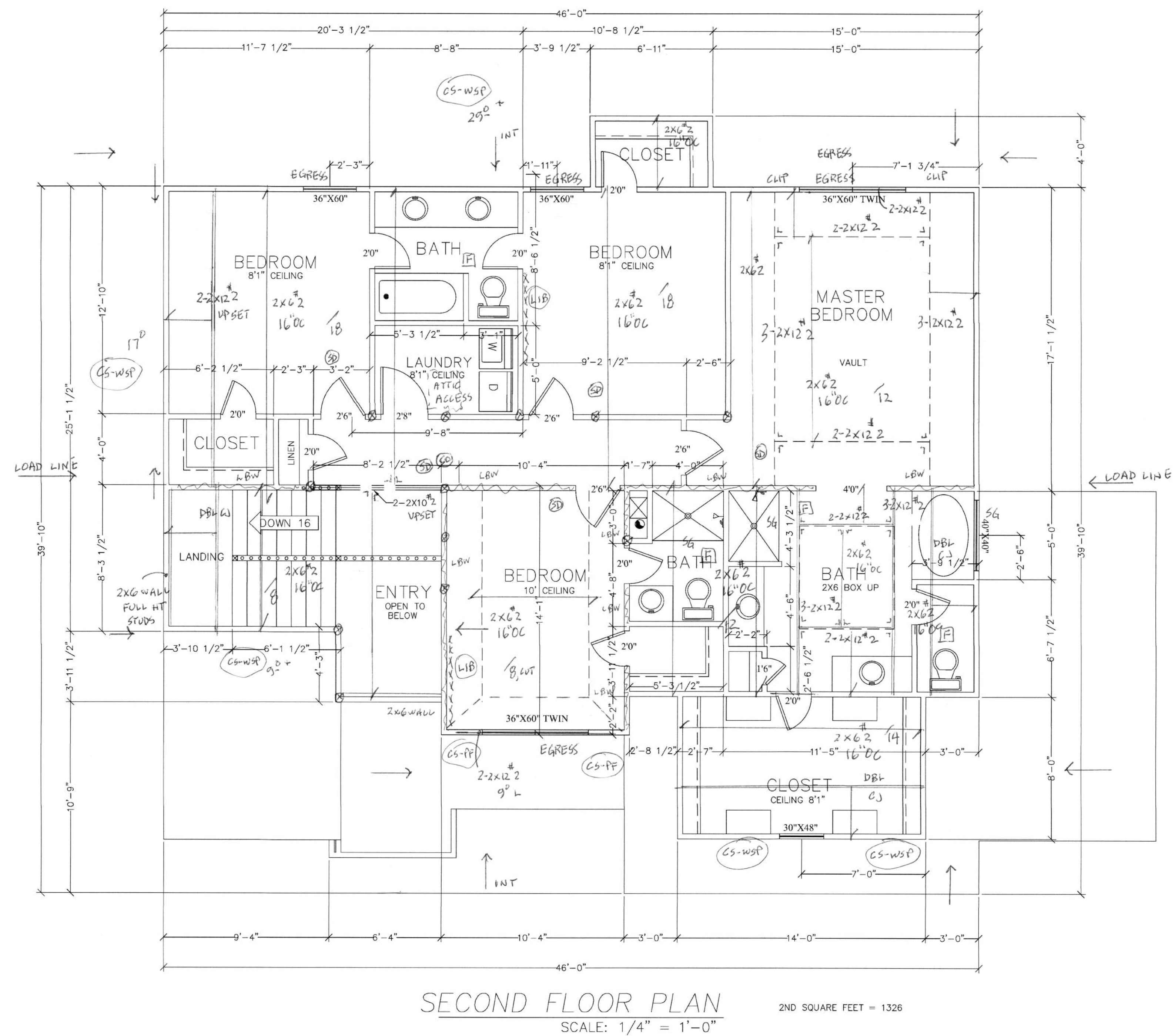
ARCHITECT IS NOT RESPONSIBLE FOR THE STRUCTURAL ELEMENTS OF THESE PLANS. A STRUCTURAL ENGINEER MAY NEED TO VERIFY ALL STRUCTURAL ASPECTS OF THESE PRINTS BEFORE CONSTRUCTION BEGINS. FIELD CONDITIONS MAY BE DIFFERENT FROM PLAN. ALL STATE AND LOCAL CODES TAKE PRECEDENCE OVER THESE PLANS. CONTRACTOR WILL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

BUILD
SET

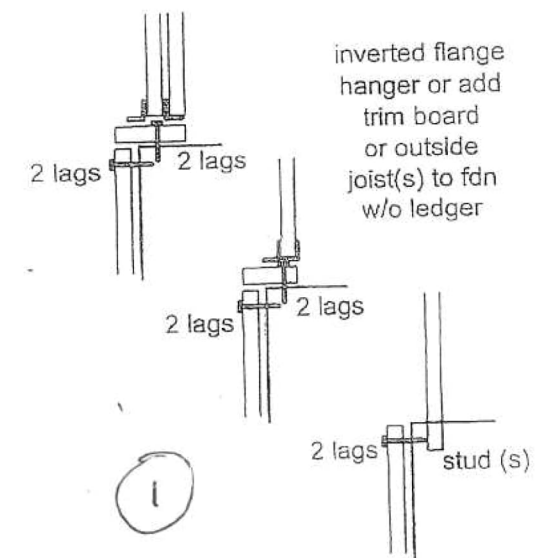
3 of 5

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BEAMS	
FIELD	VERIFY LENGTH
LENGTH	SIZE
27'2"	W8 X 15
26'6"	W8 X 15
27'2"	W8 X 48
20'2"	W14 X 30
30'2"	W14 X 22



- (A) 36 x 48 x 12 PAD
 W/ 6 #4'S EW
 (B) 42 x 42 x 14 PAD
 W/ 7 #4'S EW
 (C) 48 x 48 x 16 PAD
 W/ 8 #4'S EW
- 3" SCH 40 COL ALL PADS UNO
- ISOLATE COL'S AND STUD
 PACKS AT ALL COL PADS
- DO NOT ISOLATE FOR PIER
 JOBS

FOUNDATION

MODEL:
OODCREST B

DATE: 2/20/21

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203 SW Enoch
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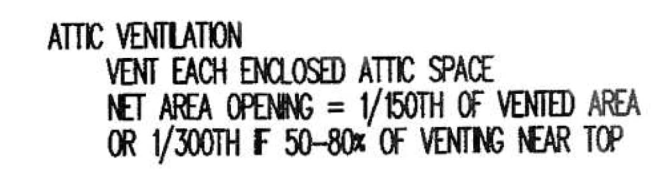
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HEET NO: J

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ALL 6/12 UNO

ROOF

ASPHALT SHINGLES - 3/2 MIN.
w/ INTERLAYMENT

FLASH & COUNTERFLASH ALL ROOF PENETRATIONS
AND INTERSECTIONS

ICE DAM AT SOFFITS AND VALLEYS

RAFTERS & CEILING JOISTS

COLLAR TIES AT UPPER THIRD POINT 48" OC 2 x 4 MIN.
CEILING JOISTS ARE TURNED AS REQUIRED FOR RAFTER TIES

RIDGE/RAFTER HANGERS AND STRAPS AS REQ'D

OUTRIGGERS REQ'D @ GABLE END SOFFITS FOR
SLOPE ROOF w/ SOFFITS

OUTRIGGERS REQ'D @ GABLE END SOFFITS FOR THE ROOF

UNLESS NOTED:
RAFTERS ARE 2 X 6 #2 DF/L @ 16" OC
25/10 25/15 w/ SOLAR

PROVIDE VERTICAL LOAD SUPPORT AT THE NOTED
LOAD POINTS FOR HIPs, VALLEYS, PURLINS & RIDGES
LET-IN SUPPORT LEG TO PURLIN
ALL HIPs, VALLEYS & RIDGES ARE SIZED FOR
THE RAFTER DEPTH, PITCH, AND LOAD, ALL 2X8 UNO

COMP	
PURUN	LEG OC
2 X 6	4'-0"
2 X 8	5'-4"
2 X 10 @5	6'-6"
2 X 10 @2	8'-0"

SUPPORT LEG	COMP MAX LENGTH
2 X 4 w/ 2 X 4 T-BRACE	8'-7"
2 X 6 w/ 2 X 4 T-BRACE	9'-6"
2 X 6 w/ 2 X 6 T-BRACE	17'-2"
2 X 8 w/ 2 X 4 T-BRACE	9'-10"
2 X 6 w/ 2 X 6 T-BRACE	17'-4"

H_C / H_R	
1/3	1.5
1/4	1.33
1/5	1.25
1/6	1.2
1/8 OR LESS	1.11

*ALL ROOF FRAMING MEMBERS ARE SIZED AS BEAMS AND BRACED TO LBRW, HEADERS OR OTHER STRUCTURE

H_C = HEIGHT OF CEILING JOISTS OR RAFTER TIES MEASURED VERTICALLY ABOVE TOP OF RAFTER SUPPORT WALL.

H_R = HEIGHT OF ROOF RIDGE MEASURED VERTICALLY ABOVE THE TOP OF THE RAFTER SUPPORT WALL.

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

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

DESCRIPTION:

ROOF PLAN

MODEL:
WOODCREST B

DATE:
2/20/21

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DIVISION 6 — ROUGH CARPENTRY

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



- DIVISION 5.5 — 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 BUILDINGS".
2. MISCELLANEOUS STRUCTURAL STEEL MATERIAL SHALL COMPLY WITH:
 - 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 3" DIA. BOLTS @ 16" OC, STAGGERED TOP AND BOTTOM BETWEEN JOIST LAYOUT.

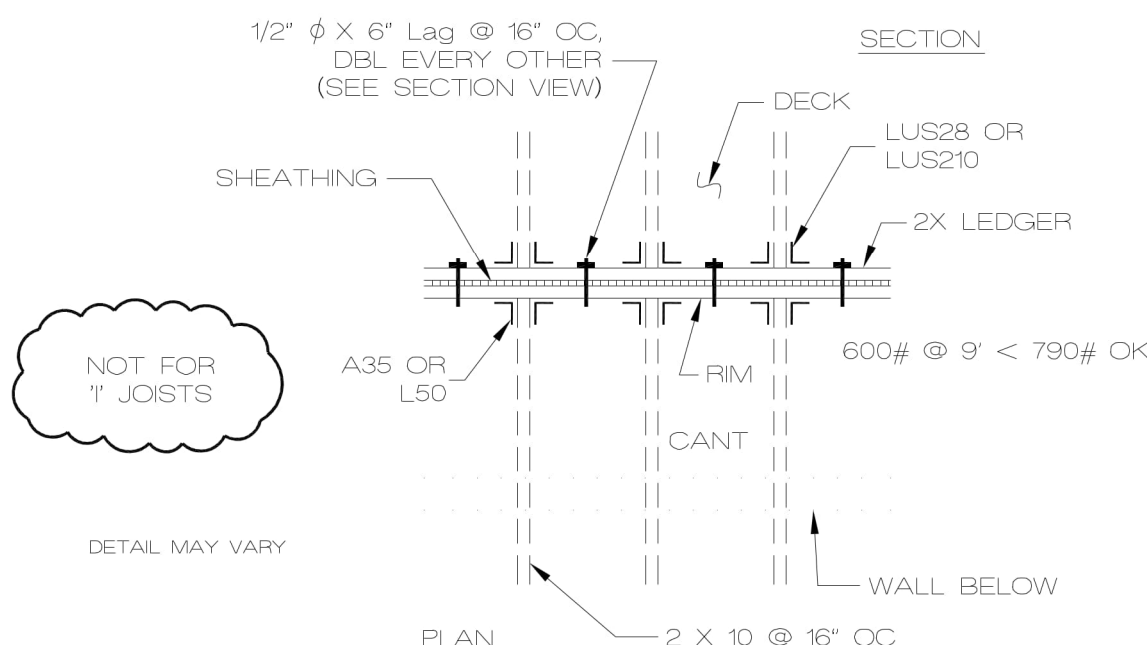
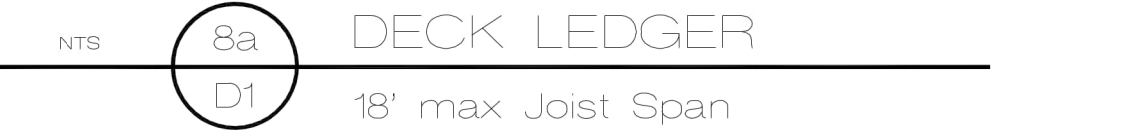
* RETURN WALLS ALLOW FOR BACKFILL w/o FLOOR DEC
IN PLACE FOR 60 PCF EQUIVALENT FLUID WEIGHT SOIL
NO HEAVY EQUIPMENT OR SURCHARGE LOADING.



CONC STRENGTH	
	<i>REQ'D STRENGTH</i>
FTG	3,000 psi
WALL	3,500 psi
SLAB	3,500 psi
SUS-SLAB	7 SACK MX

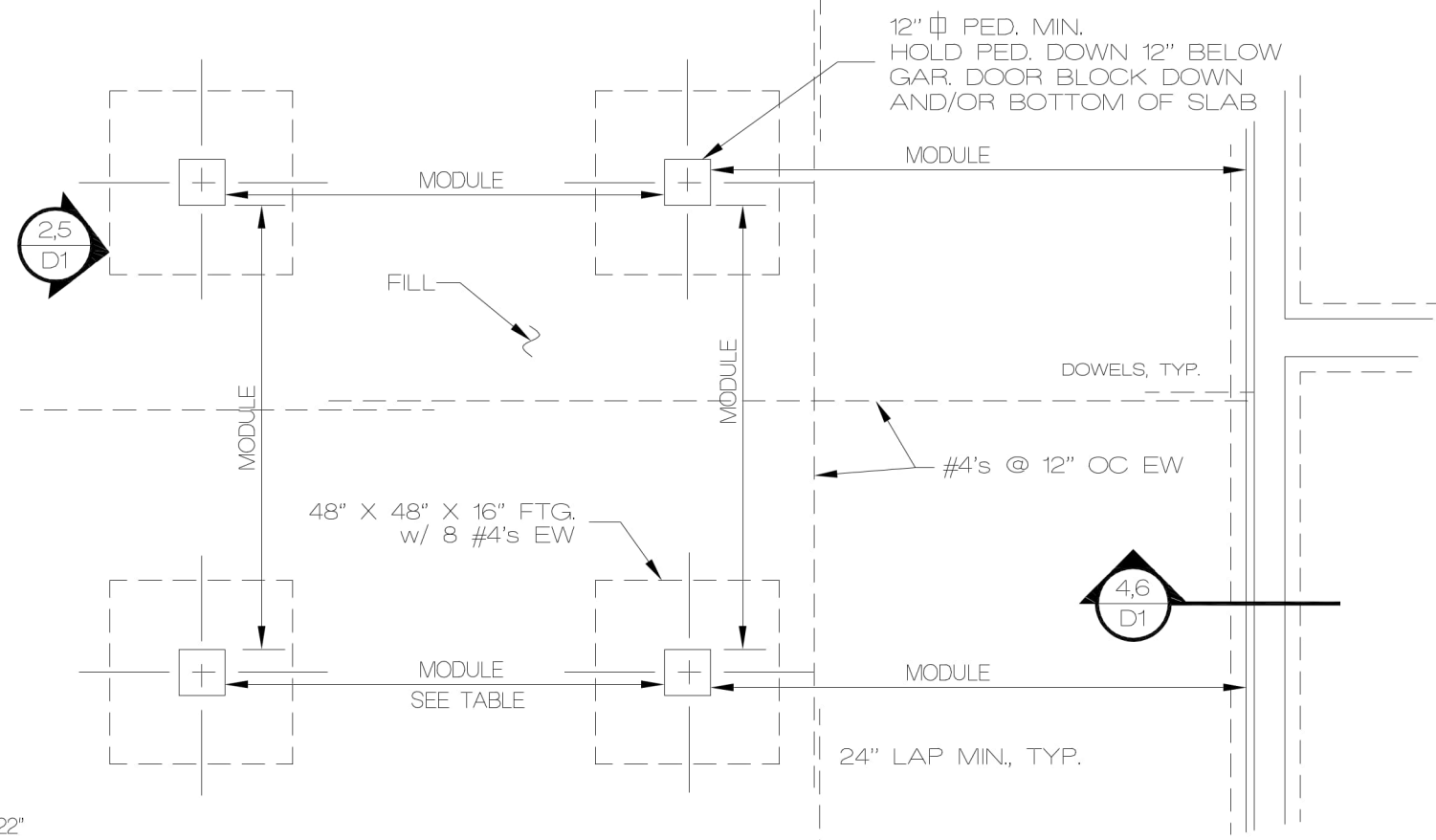
5. ATTACH METAL FRAMING FASTENERS TO FRAMING MEMBERS WITH MINIMUM NUMBER AND SIZE OF NAILS LISTED IN THE APPLICABLE ICC-ES REPORTS.
6. WOOD TRUSS SYSTEM; TRUSS JOIST SYSTEM AND GLULAM SYSTEM FOR ROOFS:
 - A) DESIGN, FABRICATE, AND ERECT IN ACCORDANCE WITH BCSI STANDARDS AND NDS SPECIFICATIONS.
 - B) DESIGN LOADS:
 - 25 PSF SNOW LIVE LOAD
 - 10 PSF DEAD LOAD TOP CHORD (20 TLE)
 - 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.

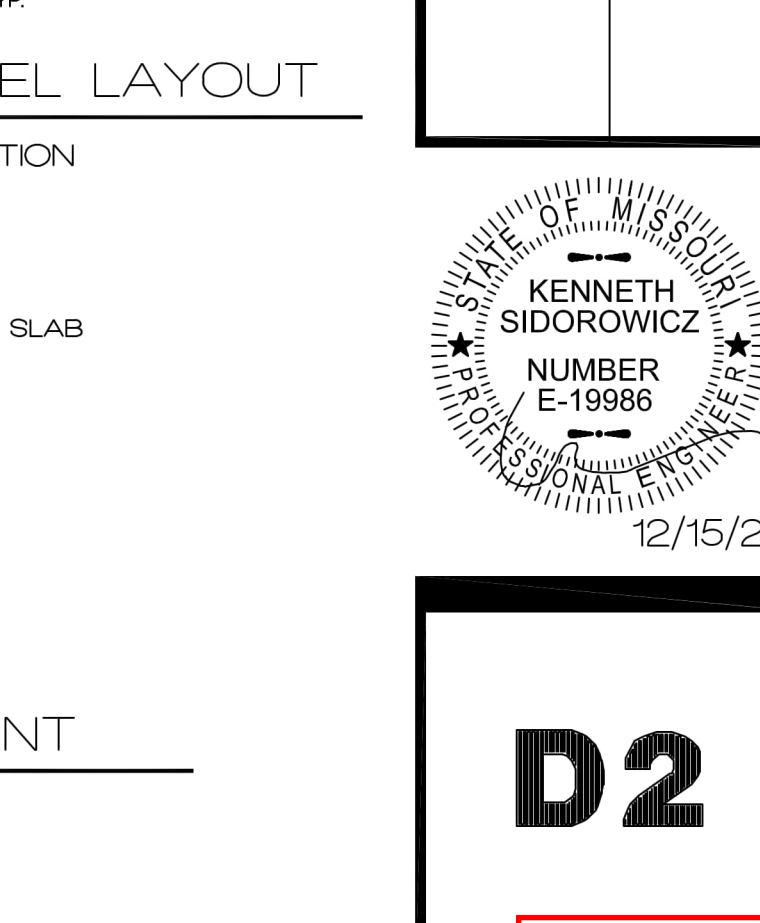
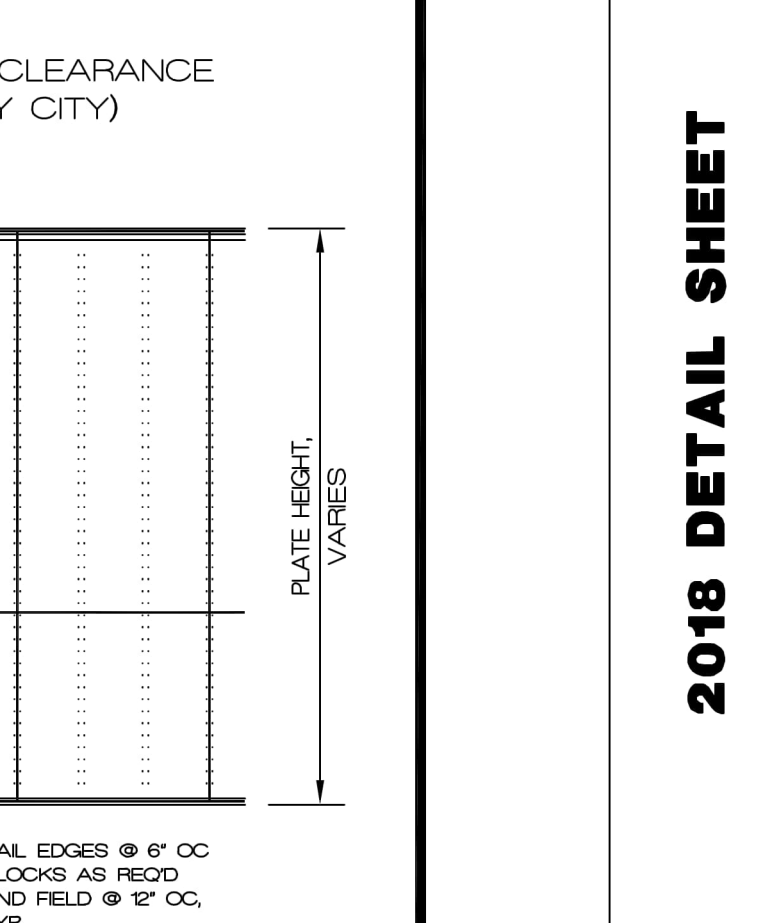
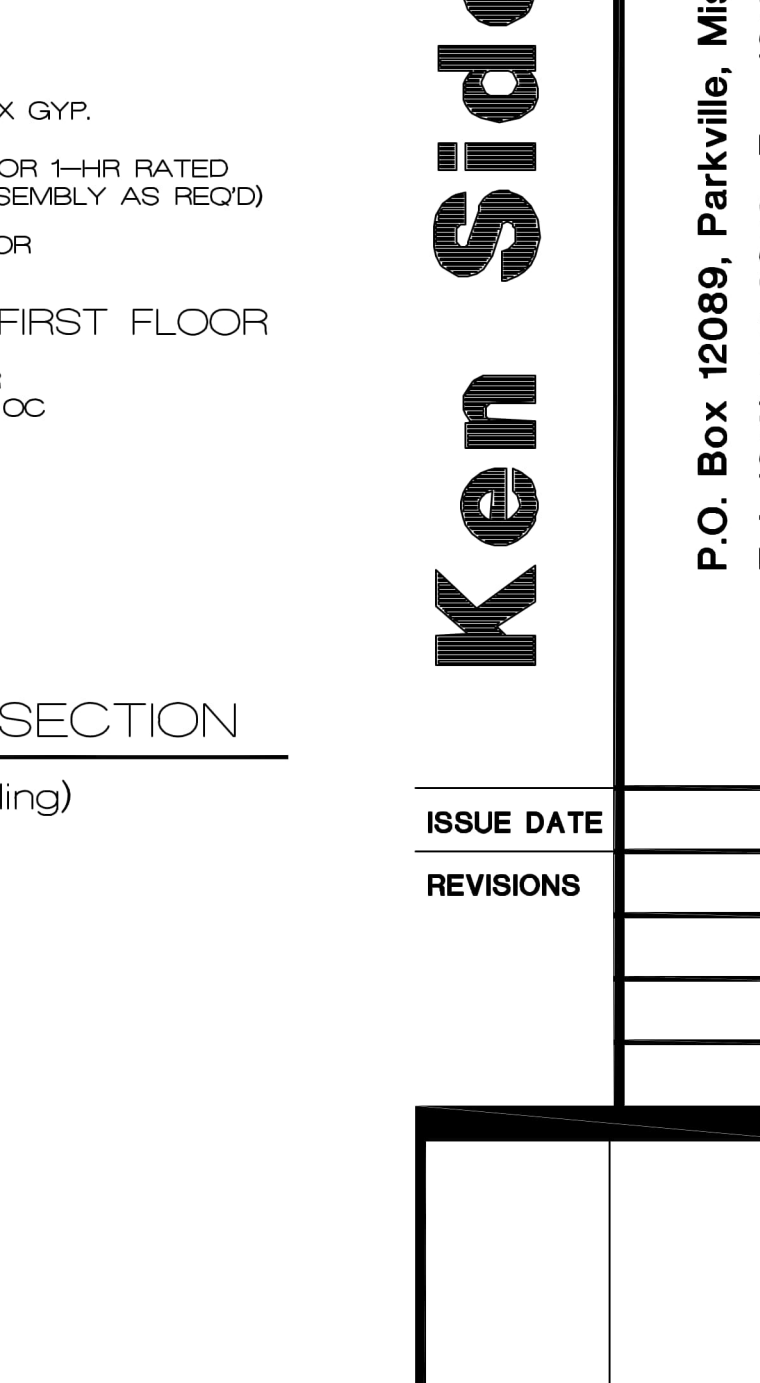
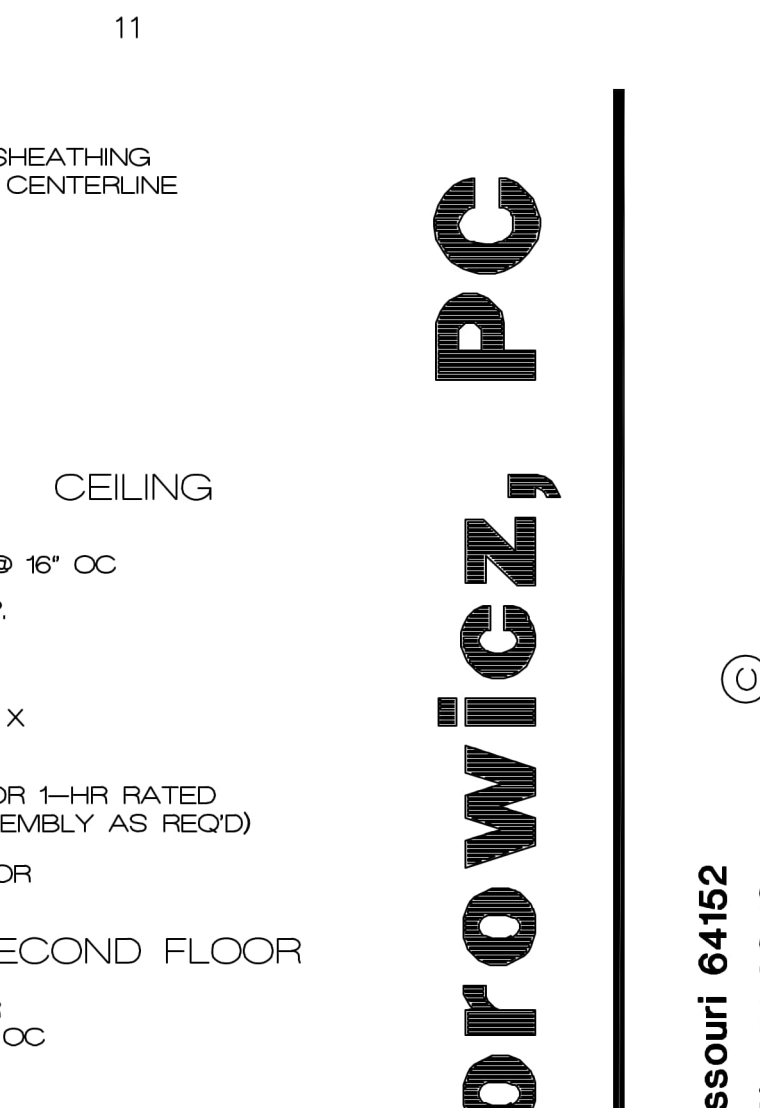
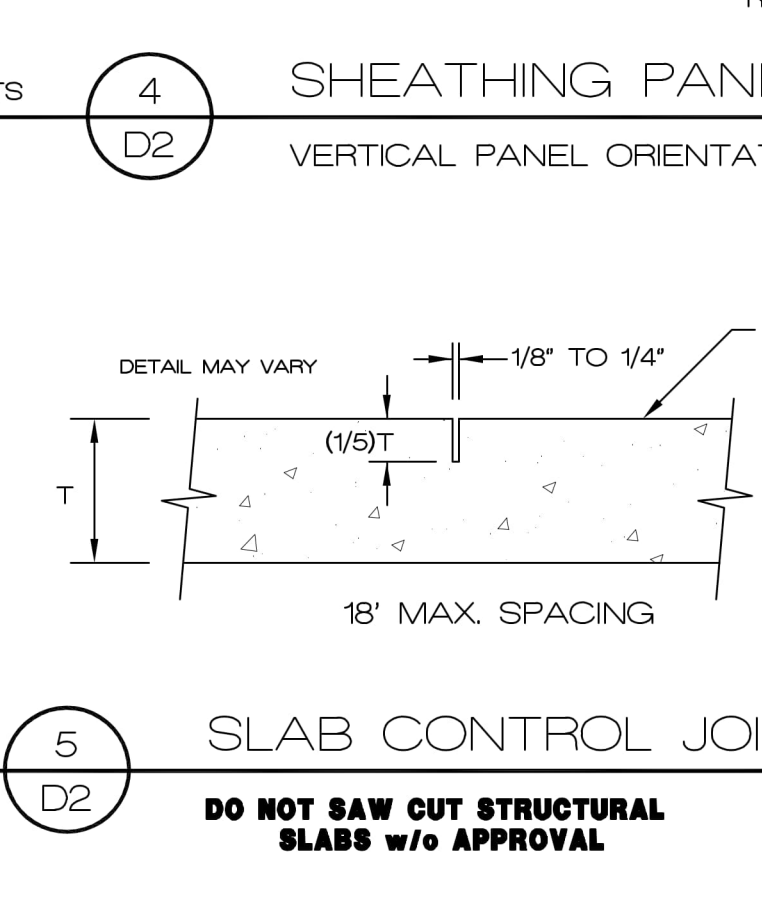
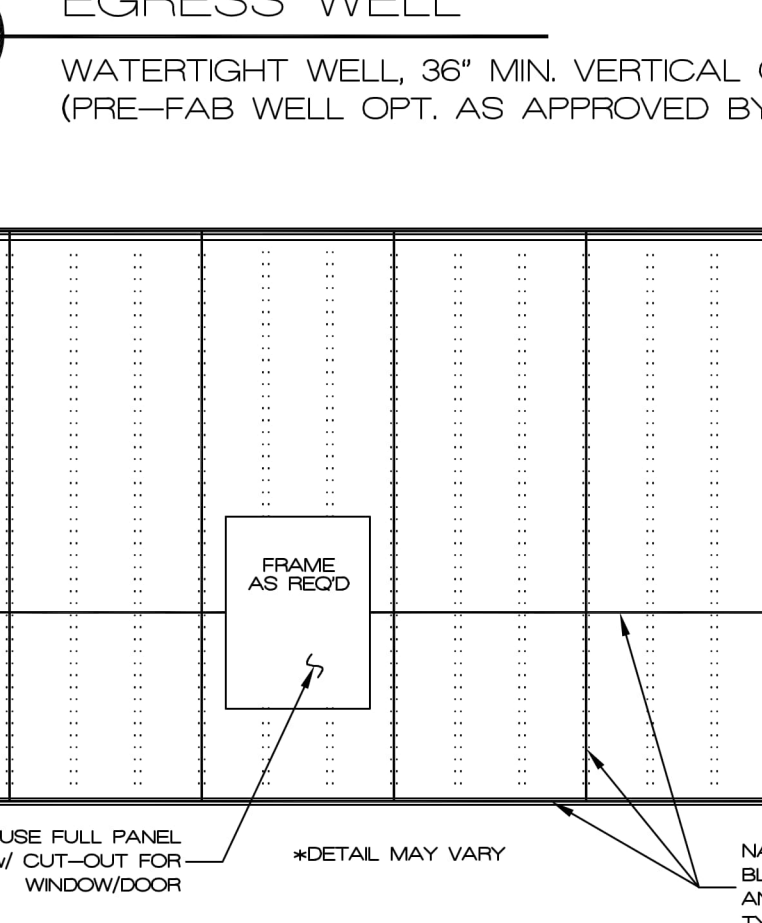
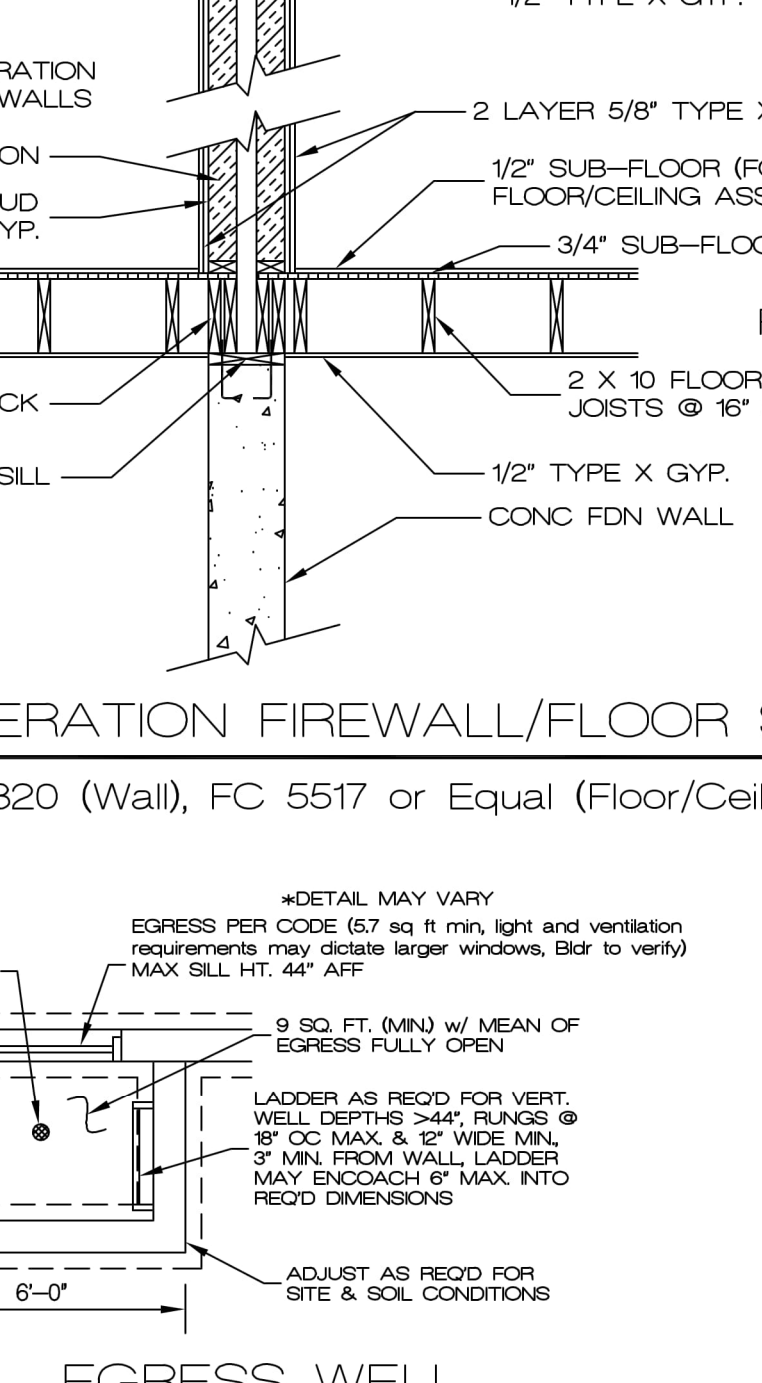
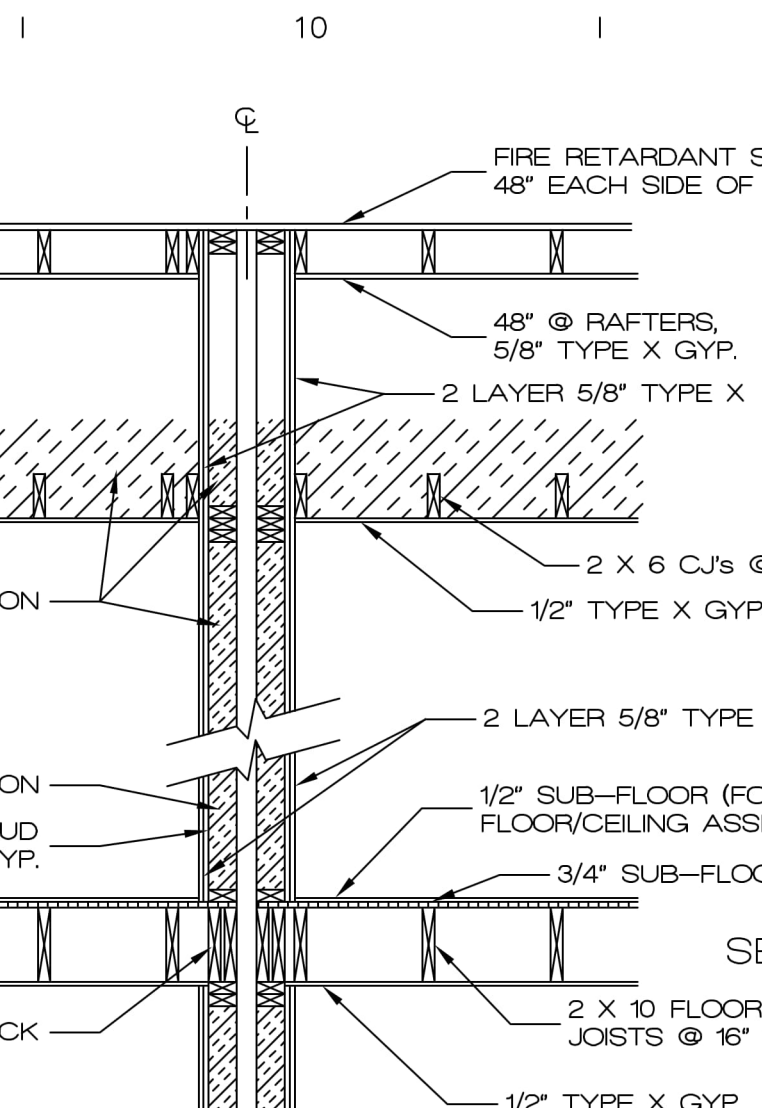
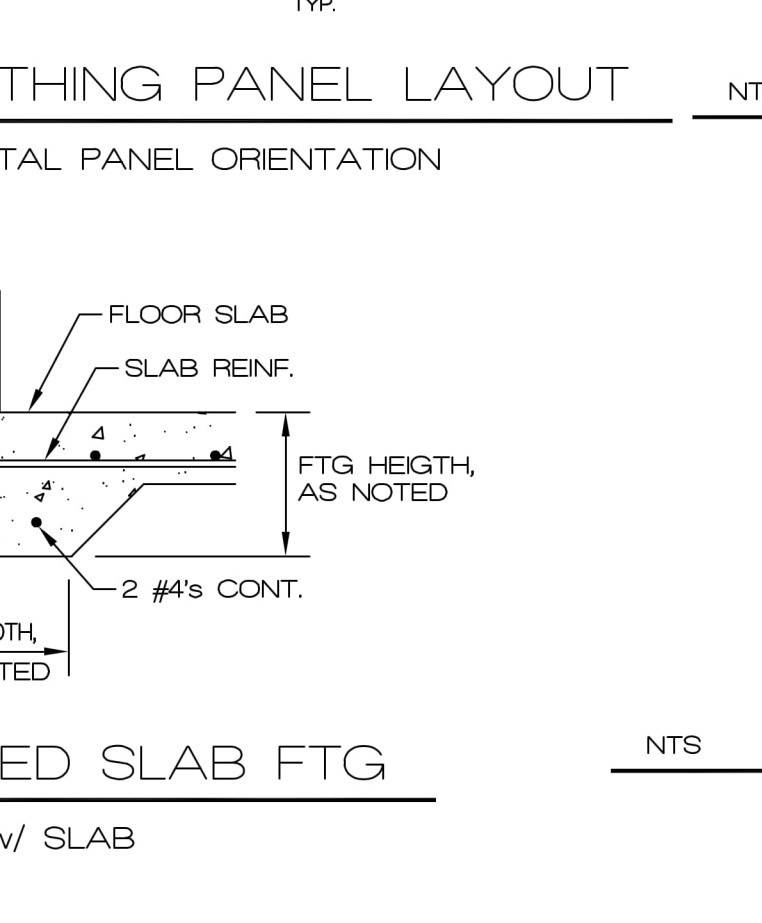
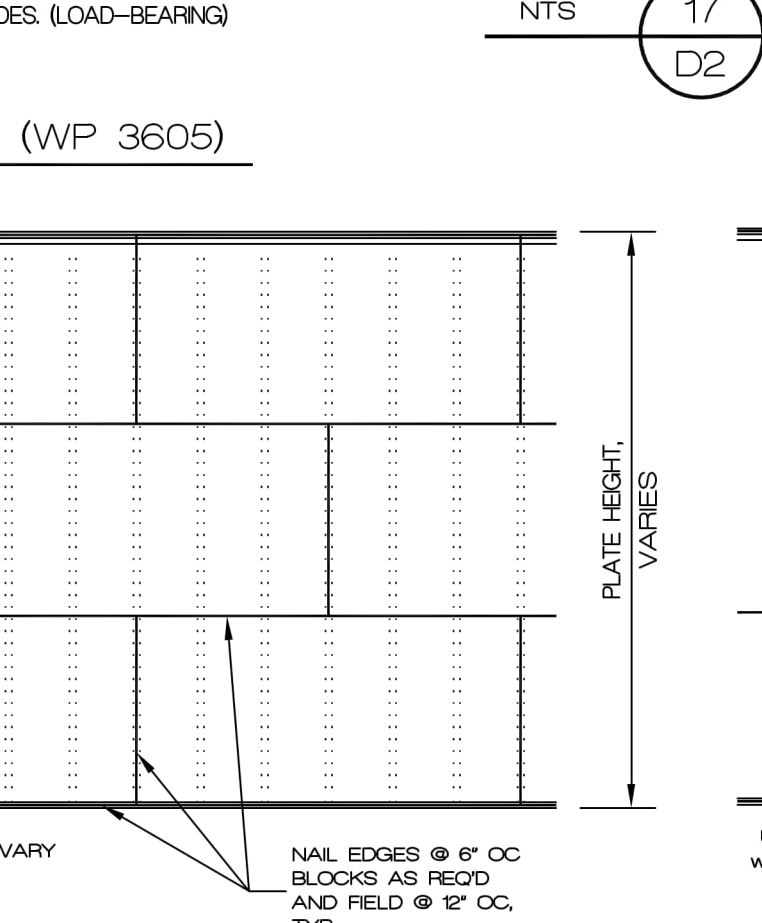
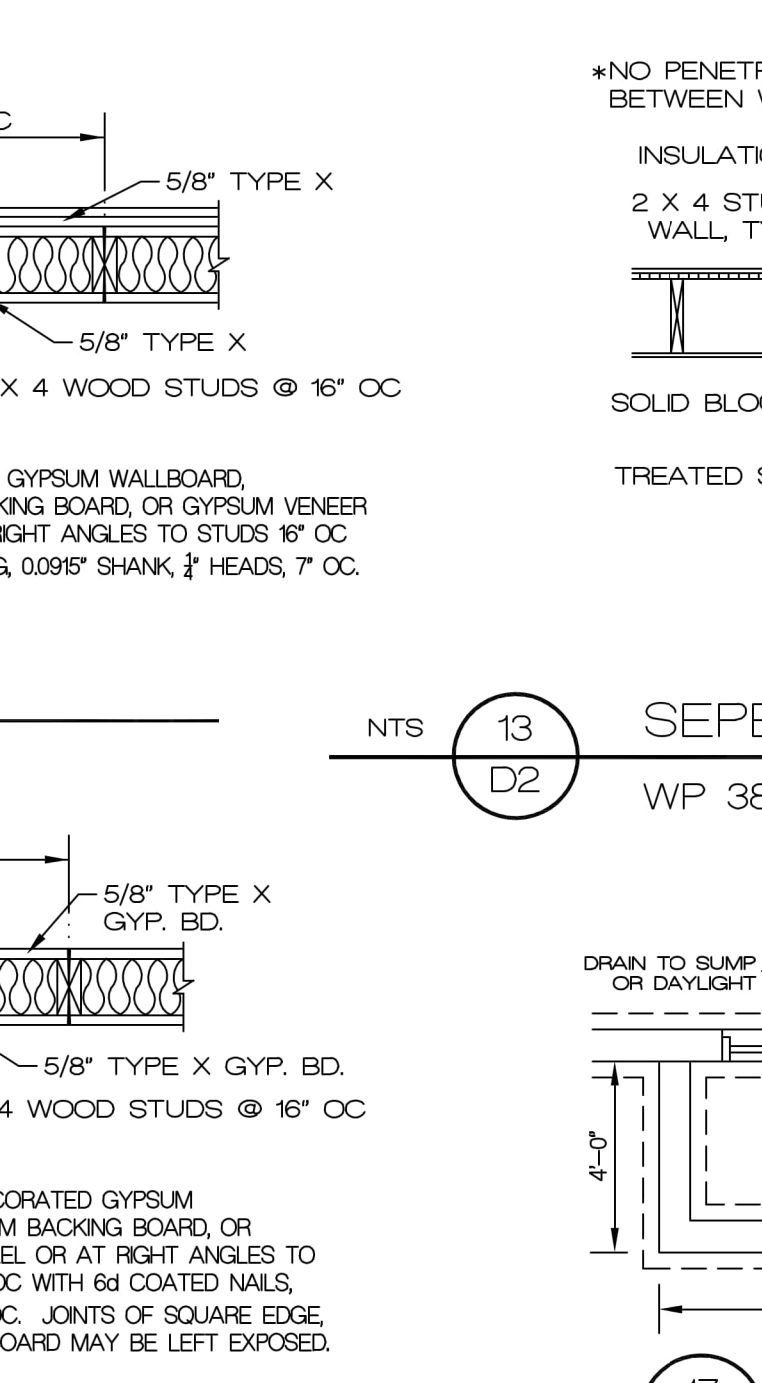
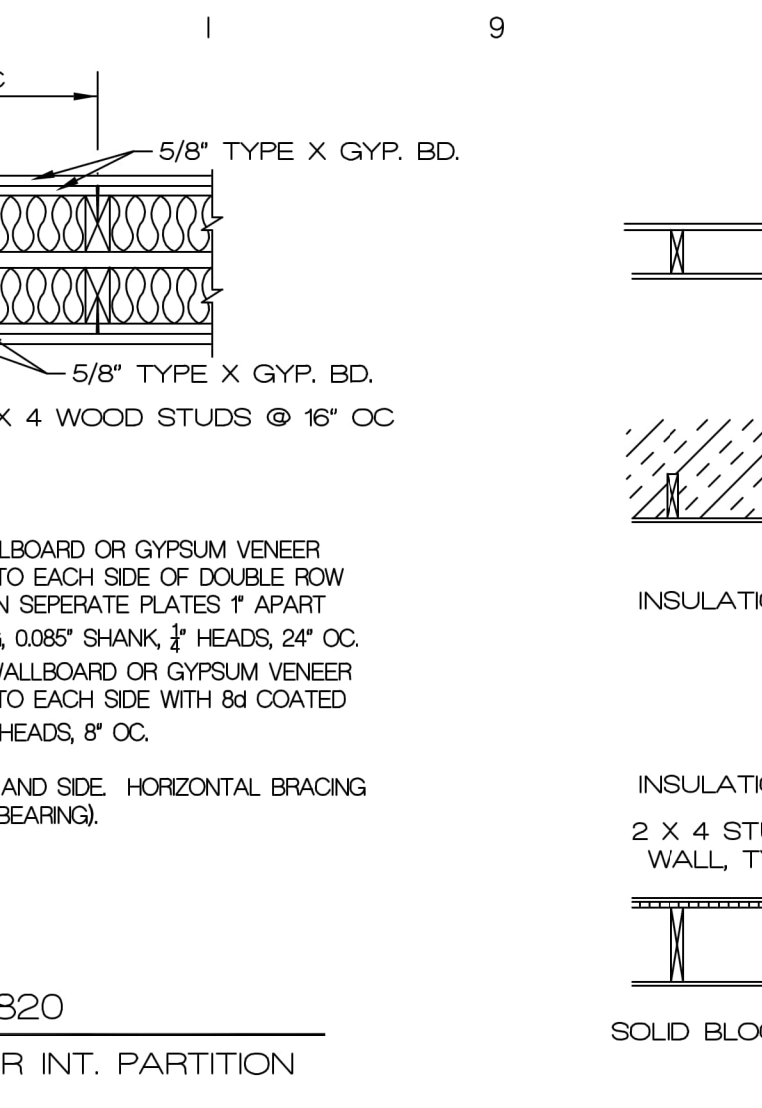
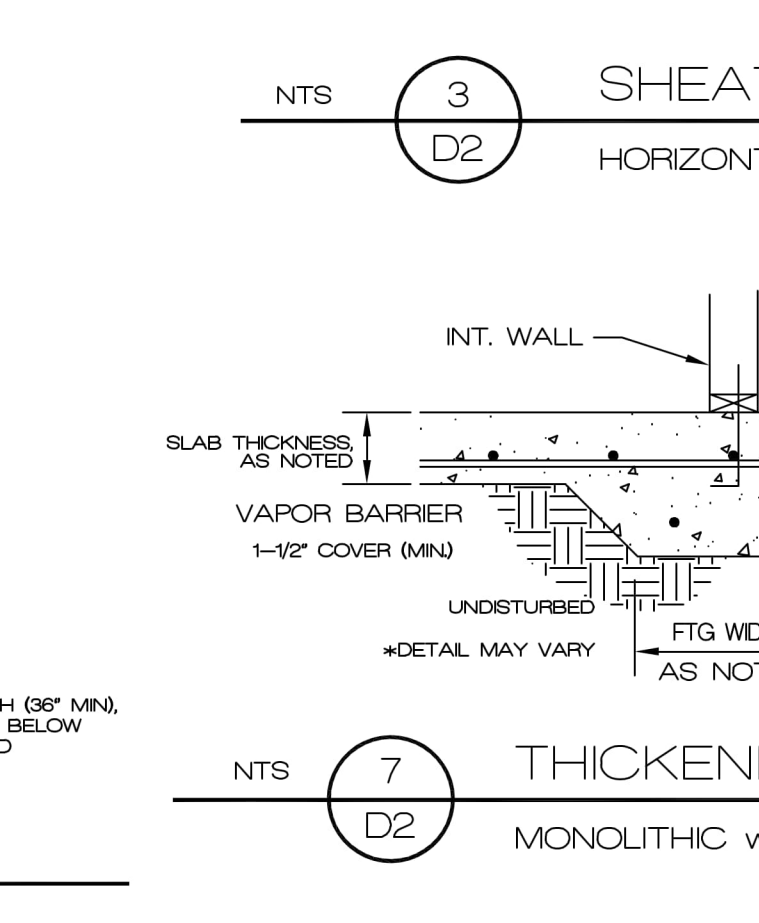
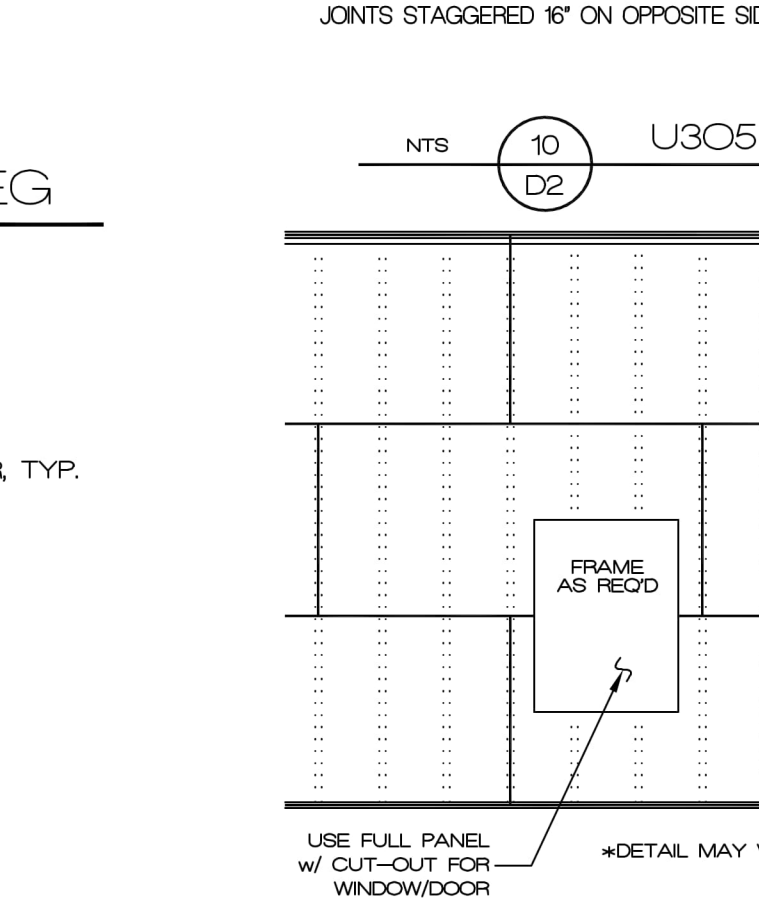
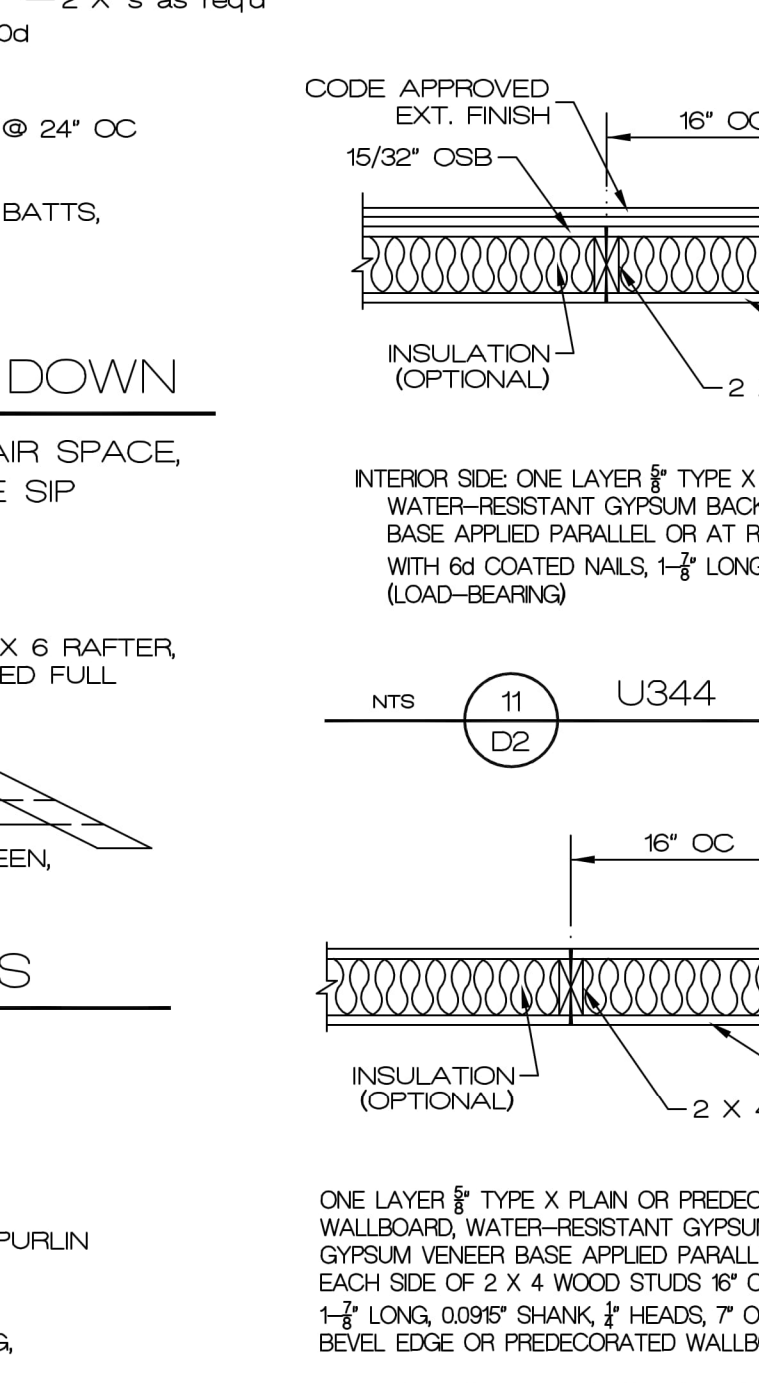
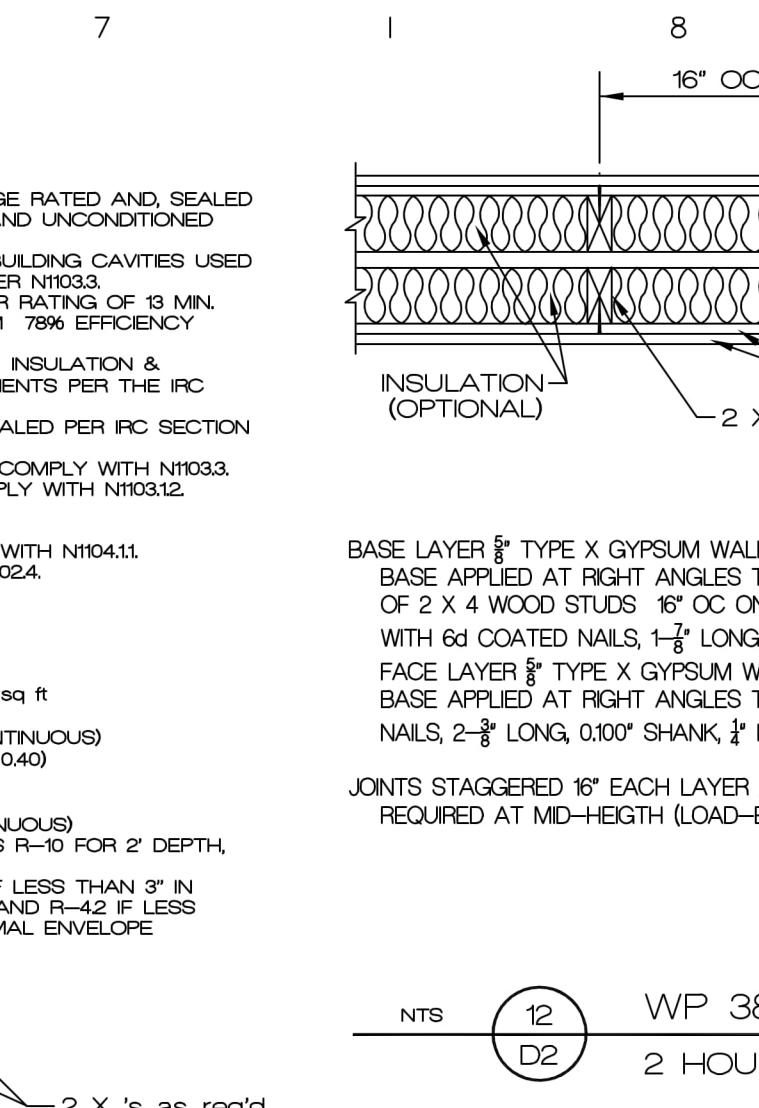
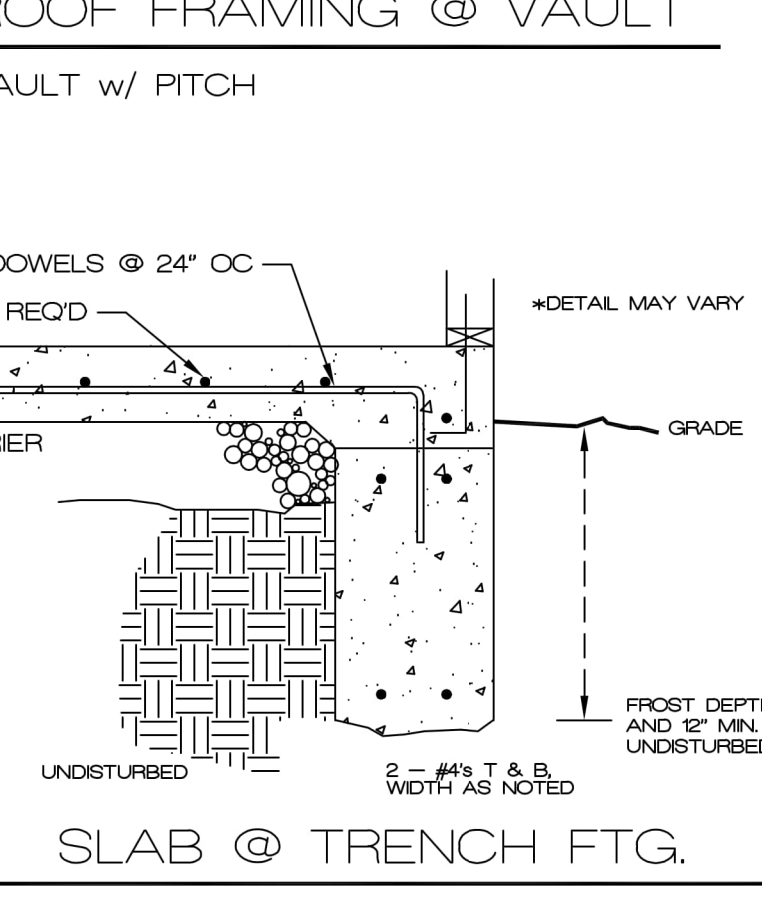
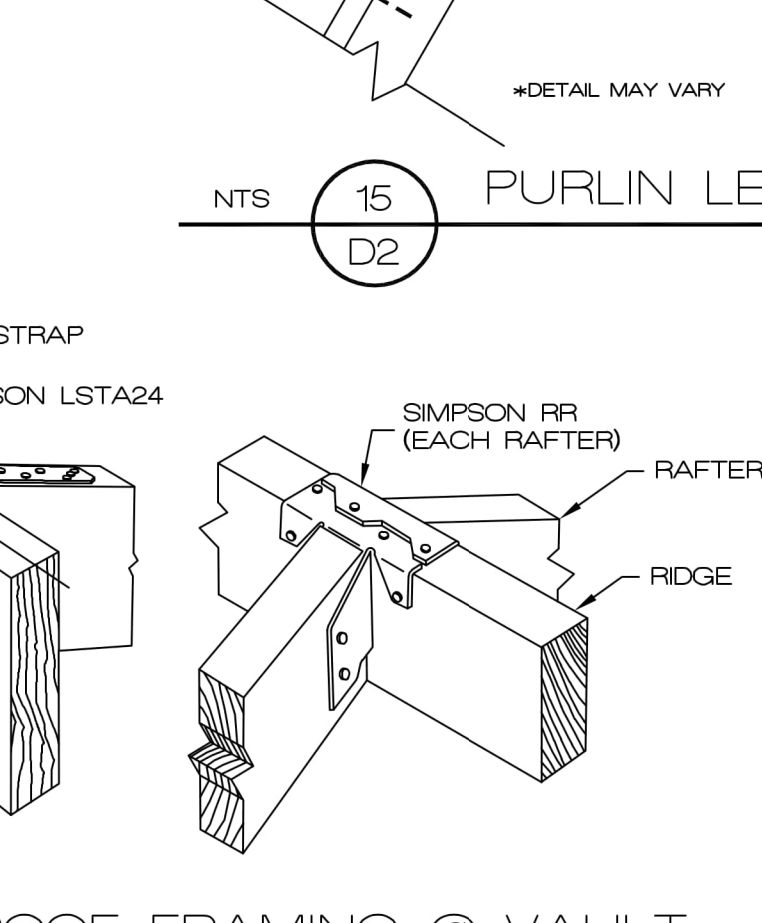
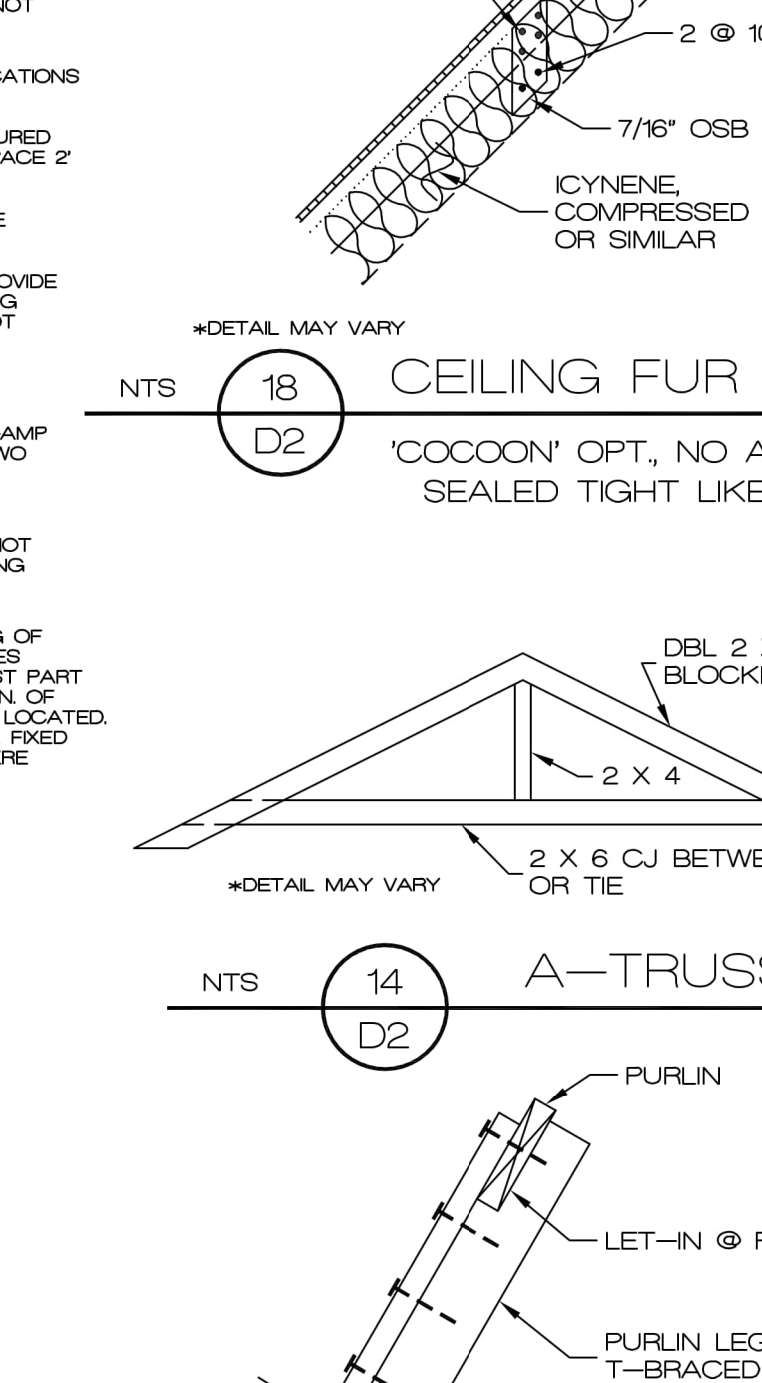
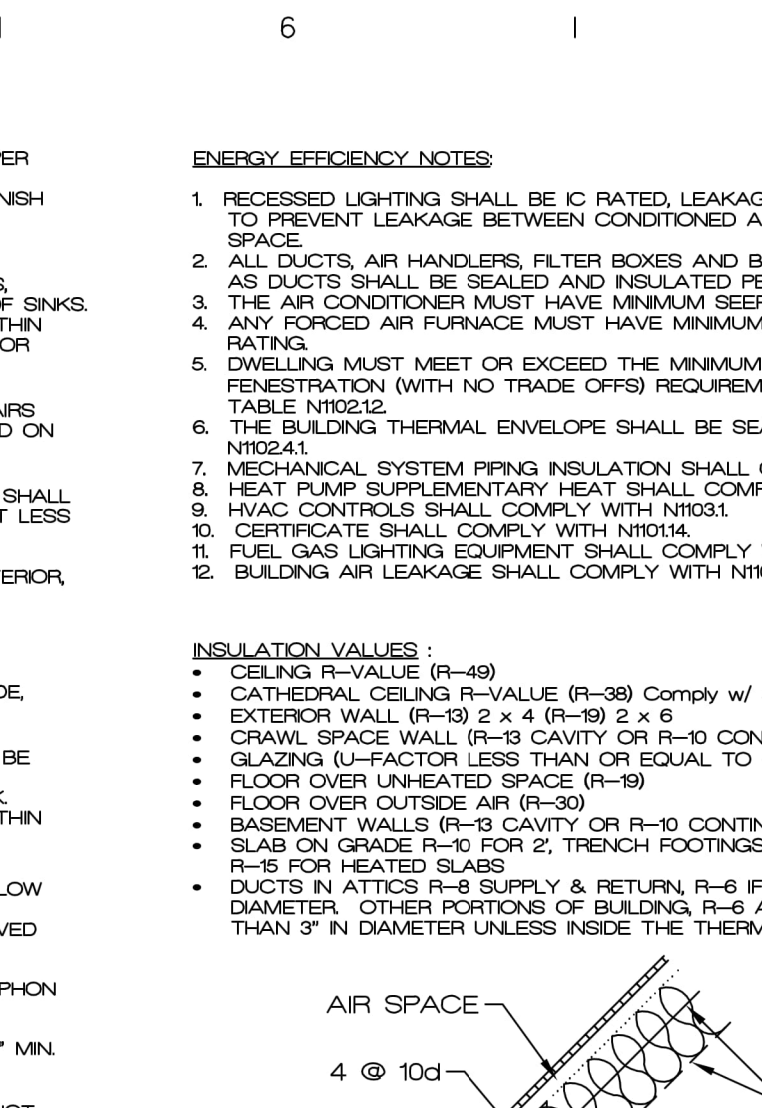
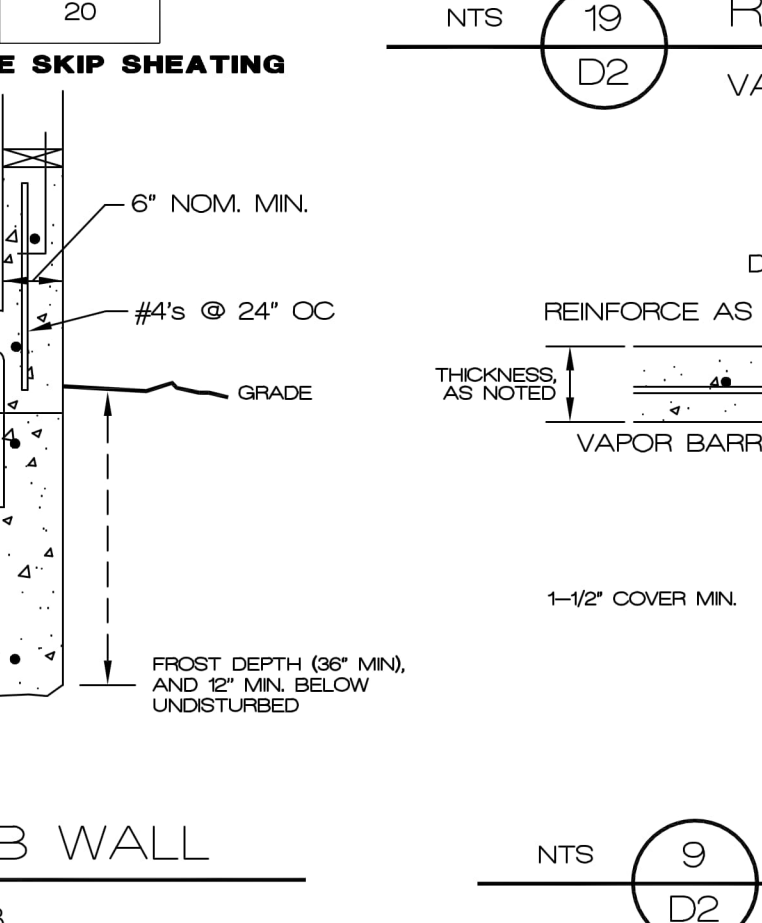
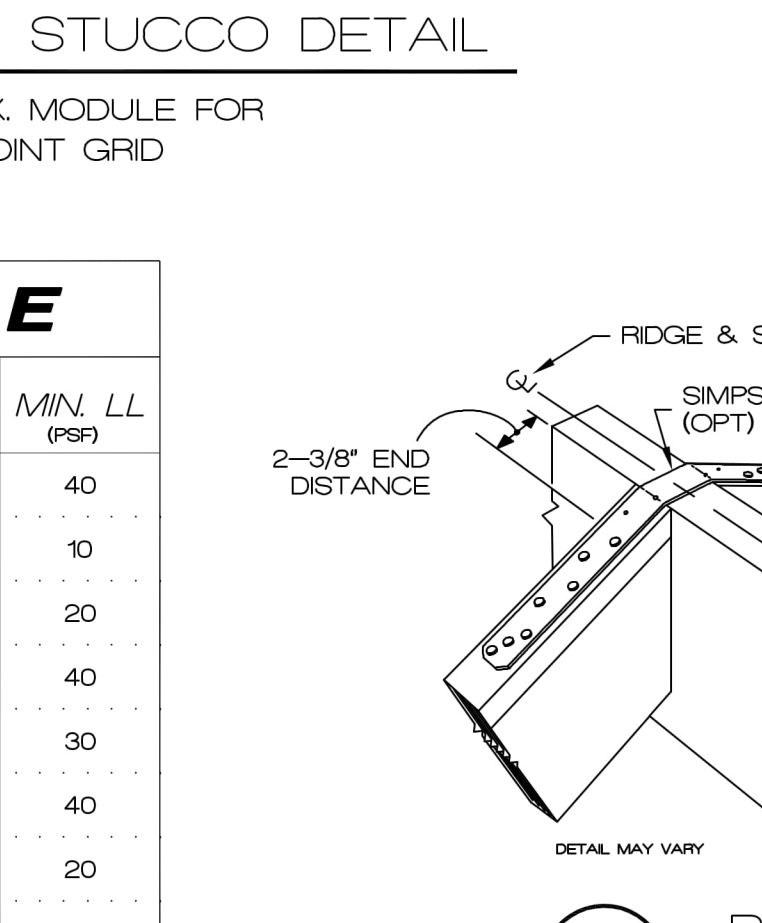
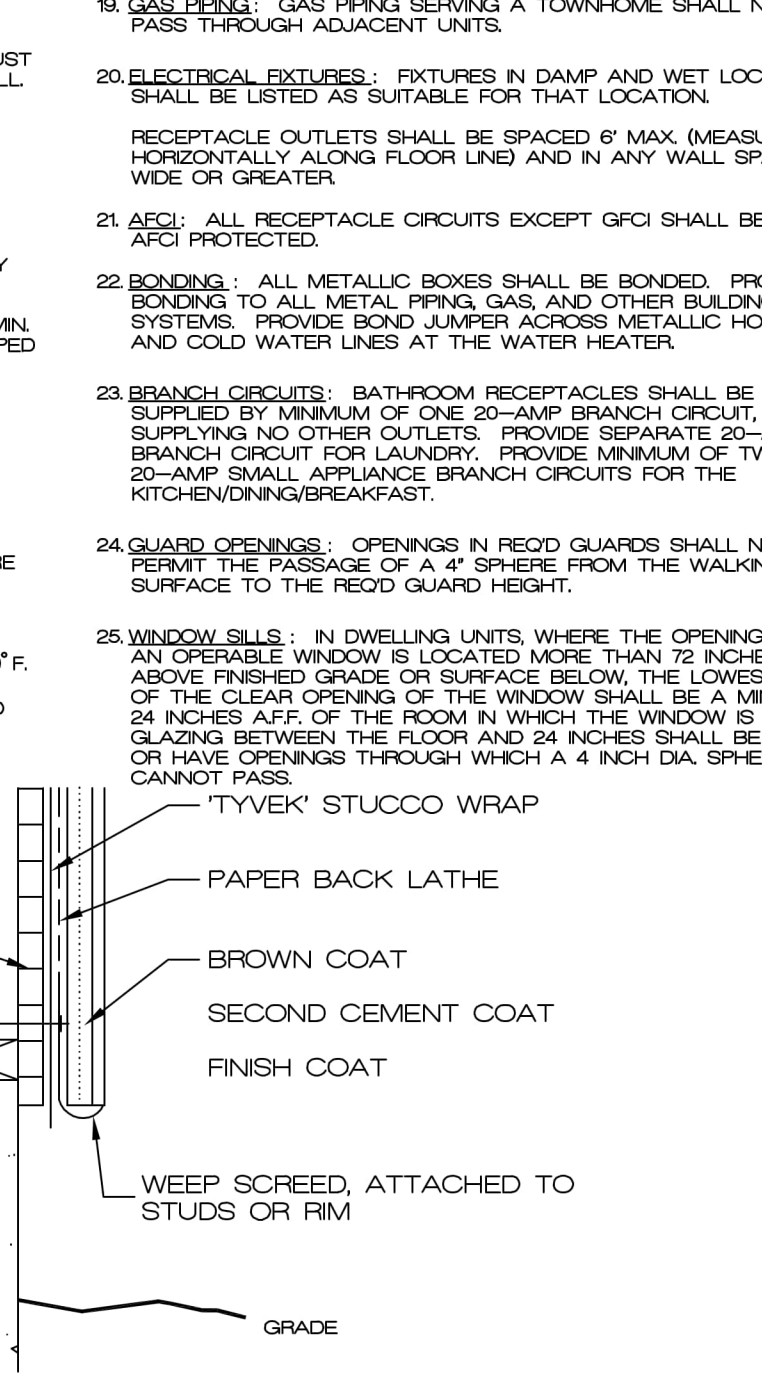
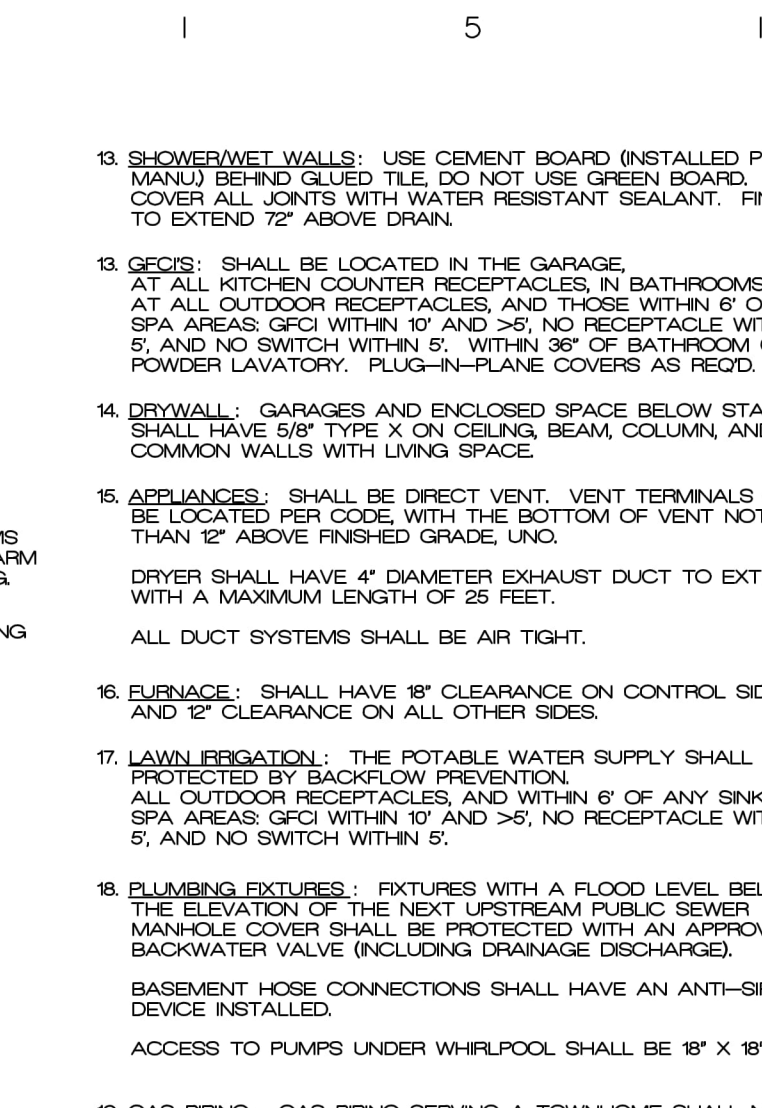
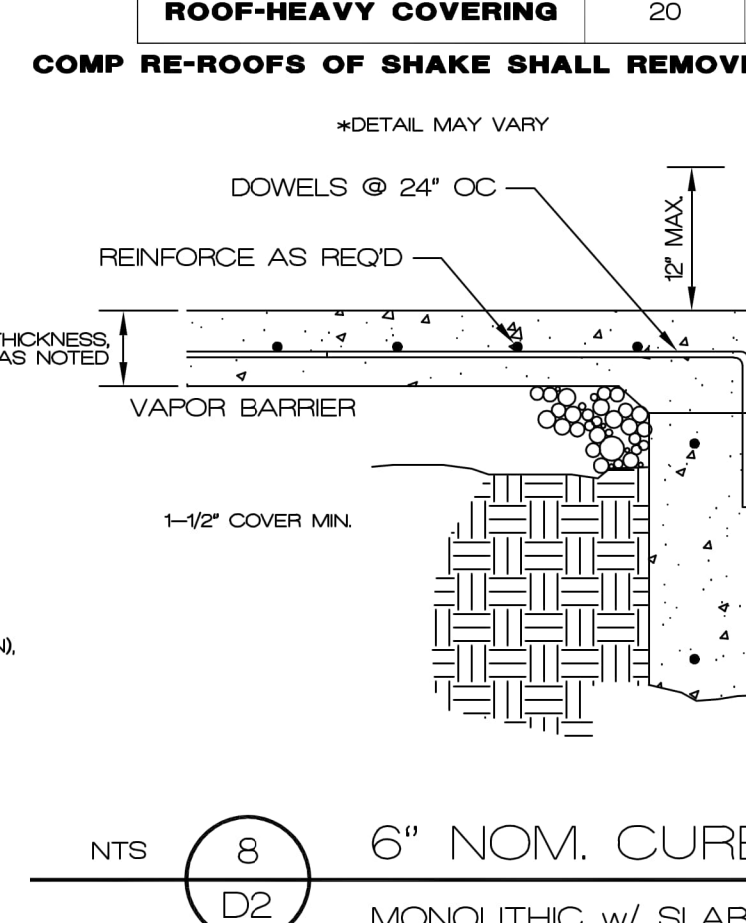
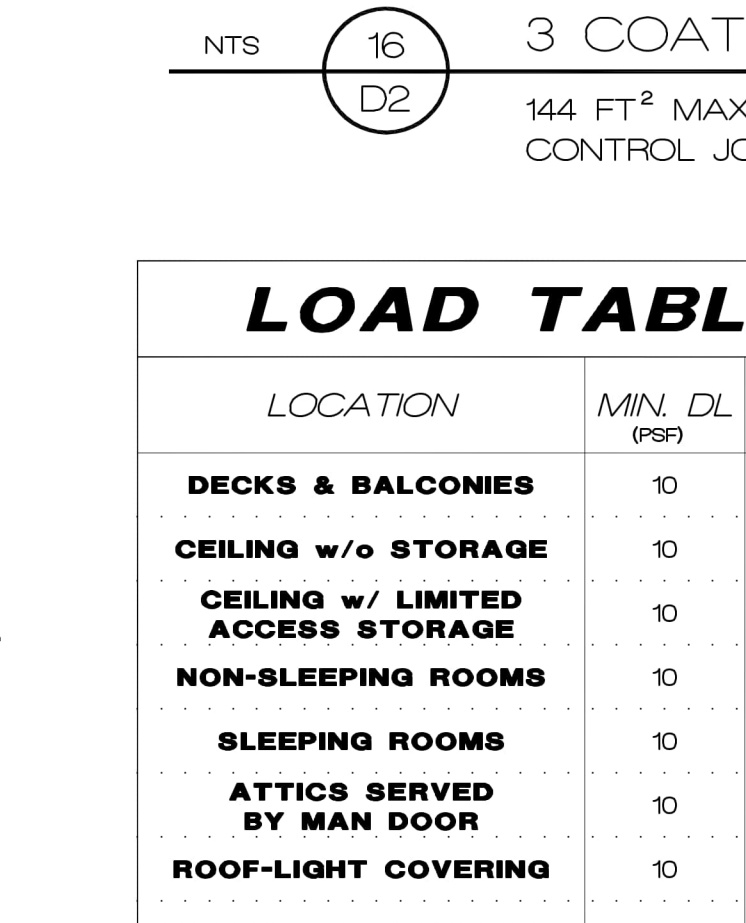
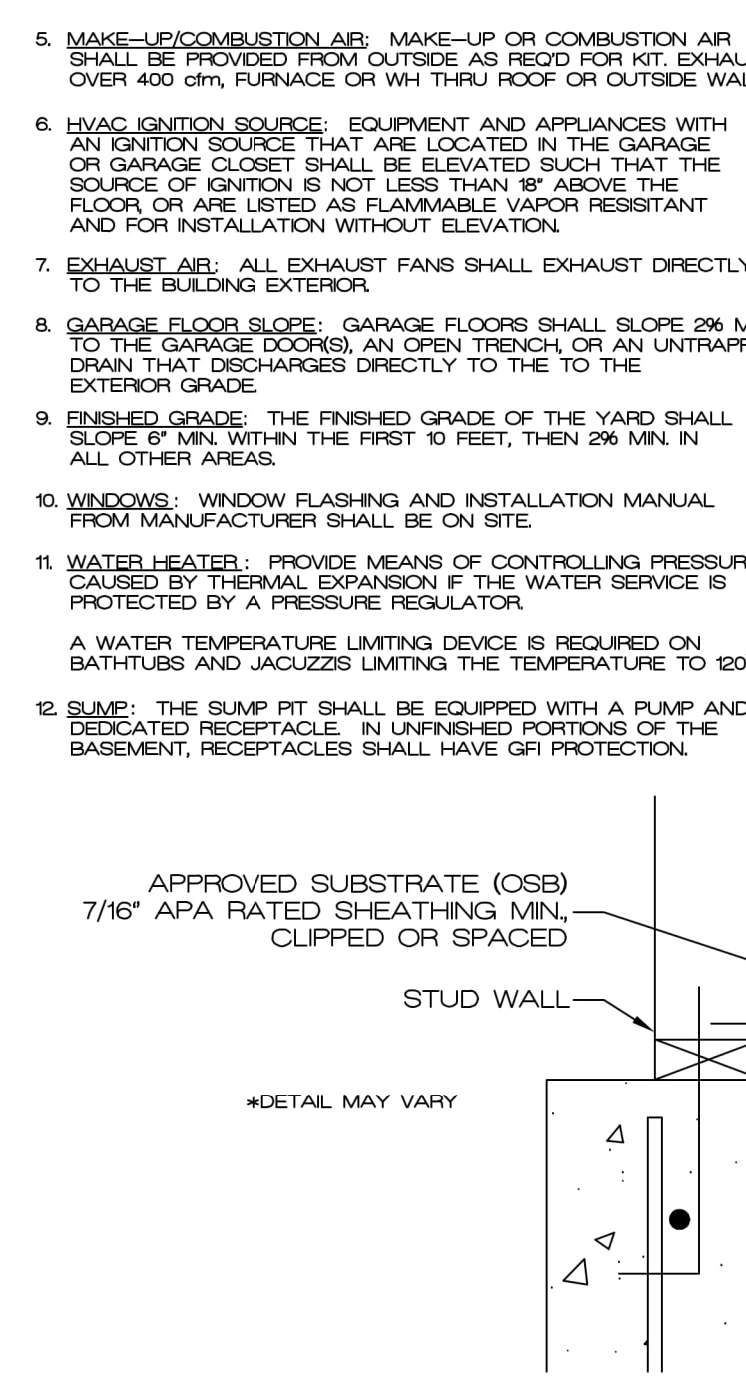
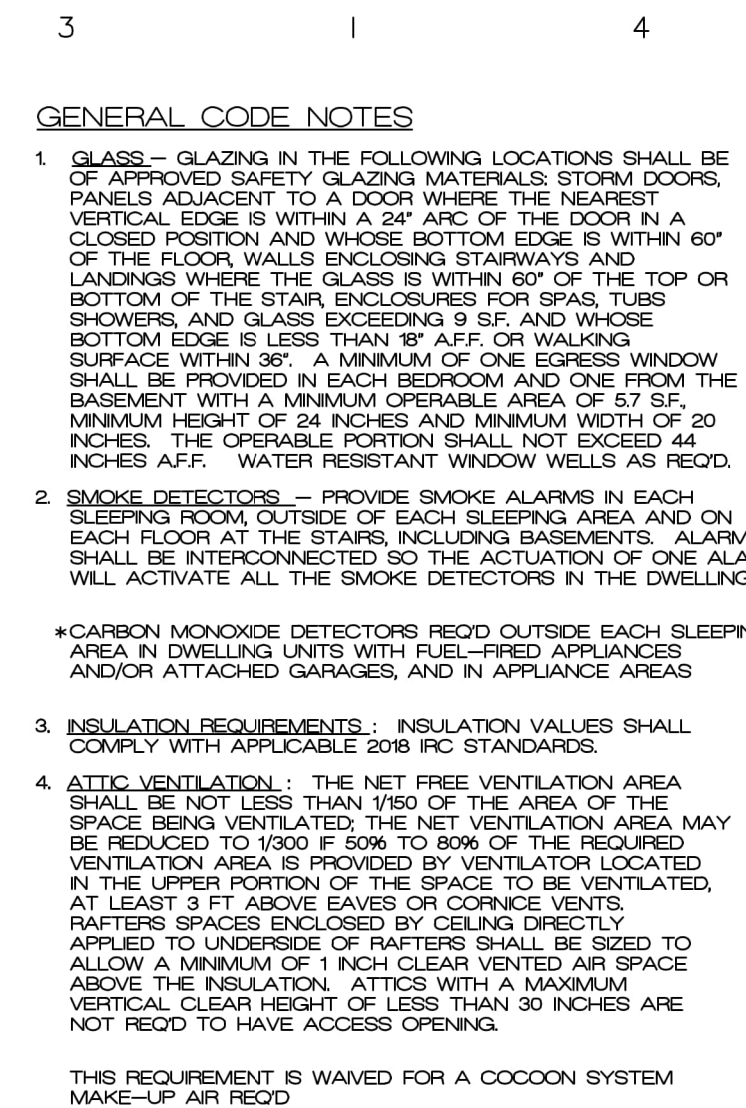
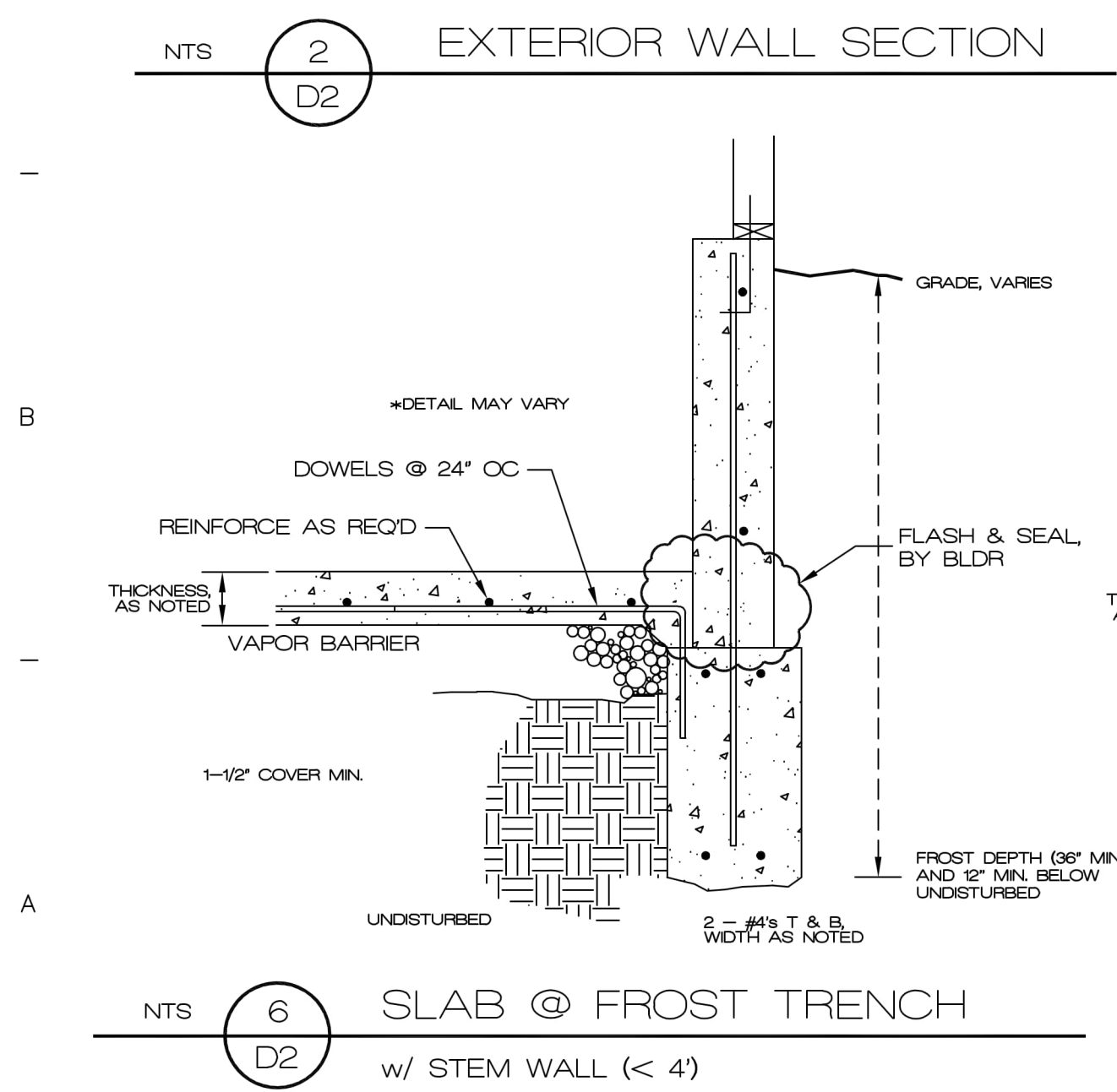
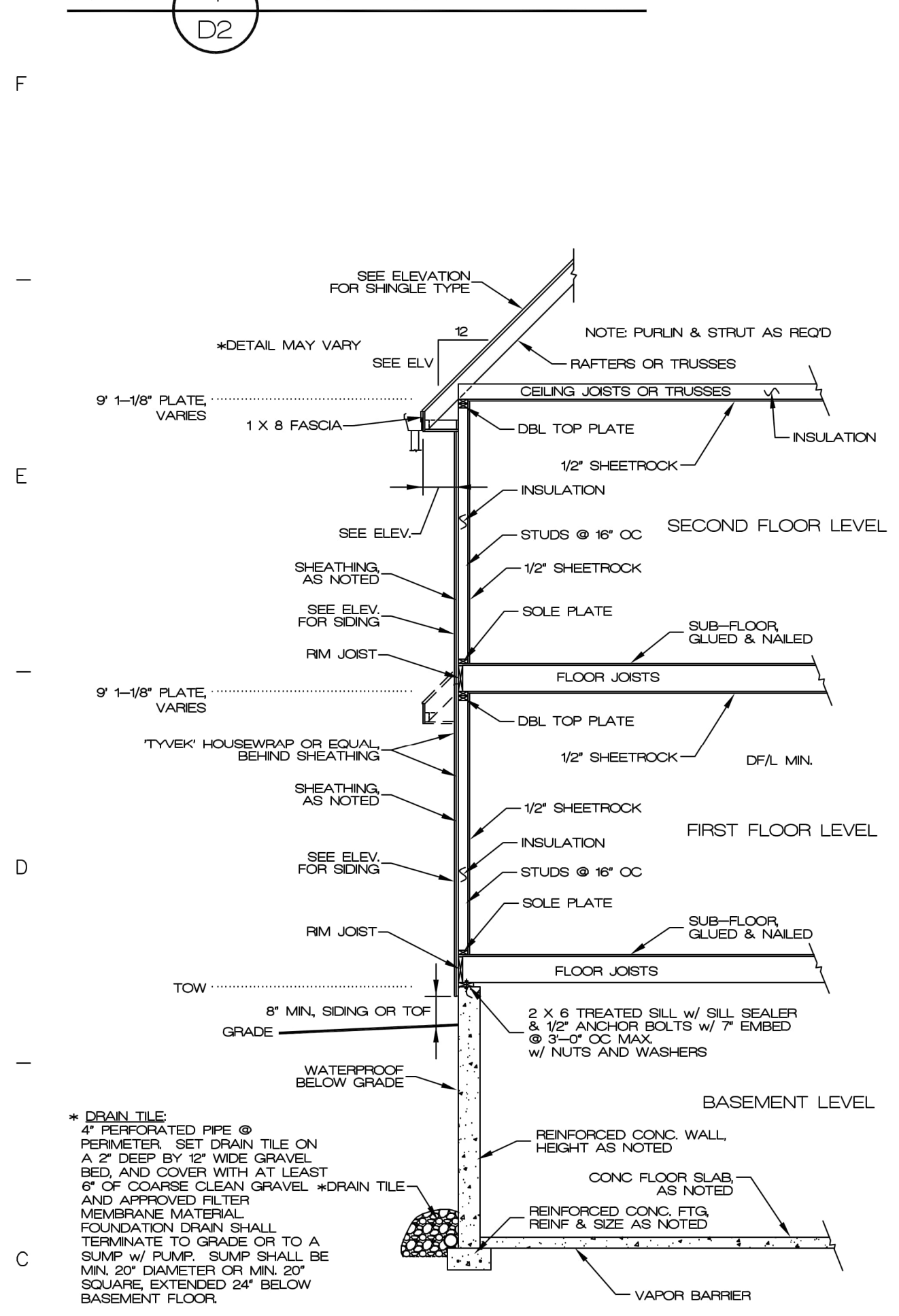
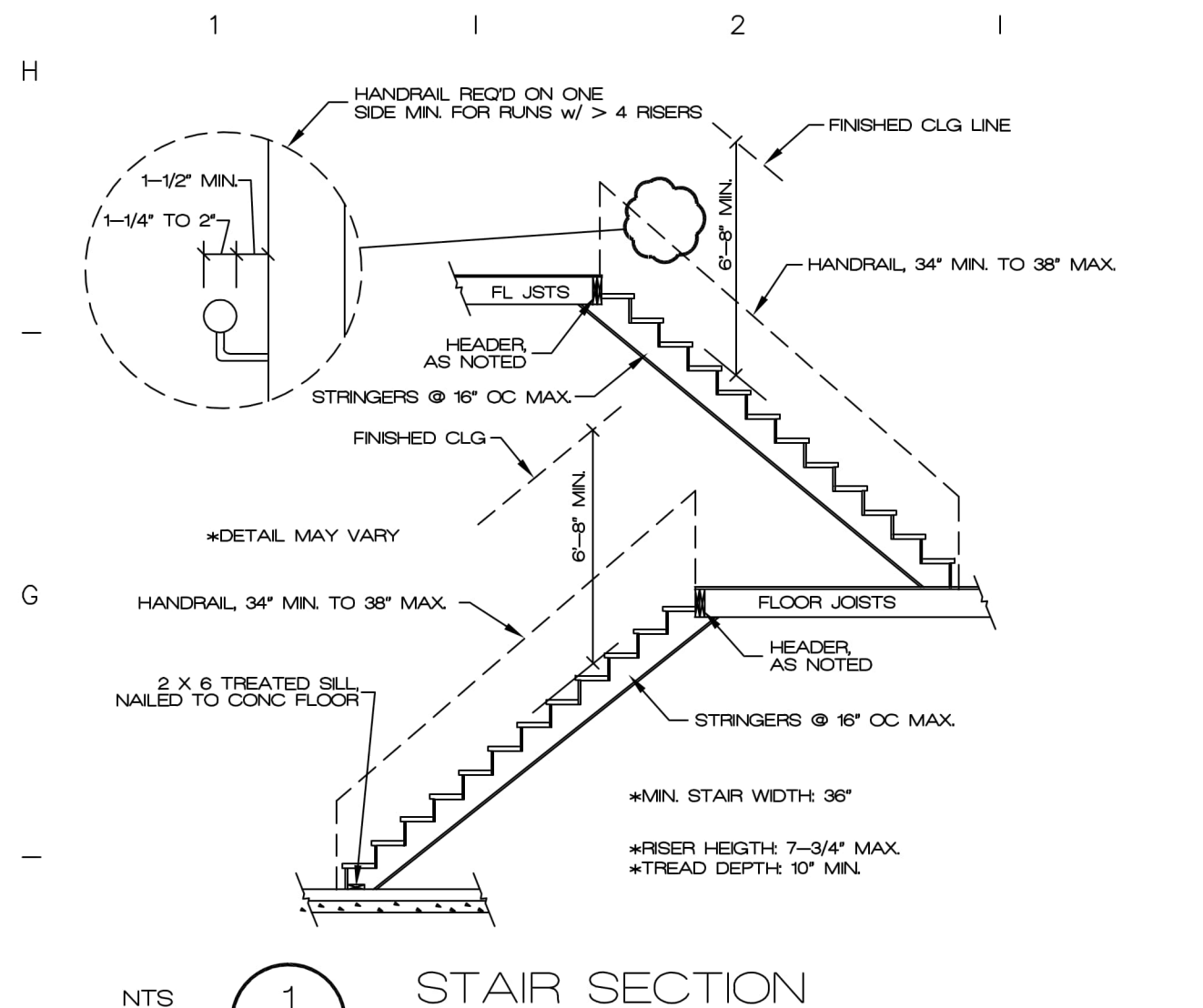


SLAB TYPE	MODULE SPACING
BASEMENT	15"–6"
GARAGE	12"–6"

(MODULE ALSO APPLIES @ OVERDIG)
↓



DO NOT SAW CUT STRUCTURAL SLABS w/o APPROVAL
VERIFY ALL STRUCTURAL SLAB DETAILS w/ ENGINEER
DO NOT ISOLATE COLUMNS FROM STRUCTURAL SLABS



Ken Sidorowicz, PC

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

ISSUE DATE
REVISIONS

2018 DETAIL SHEET

STATE OF MISSOURI
KENNETH SIDOROWICZ
NUMBER E-19986
12/15/24

D2

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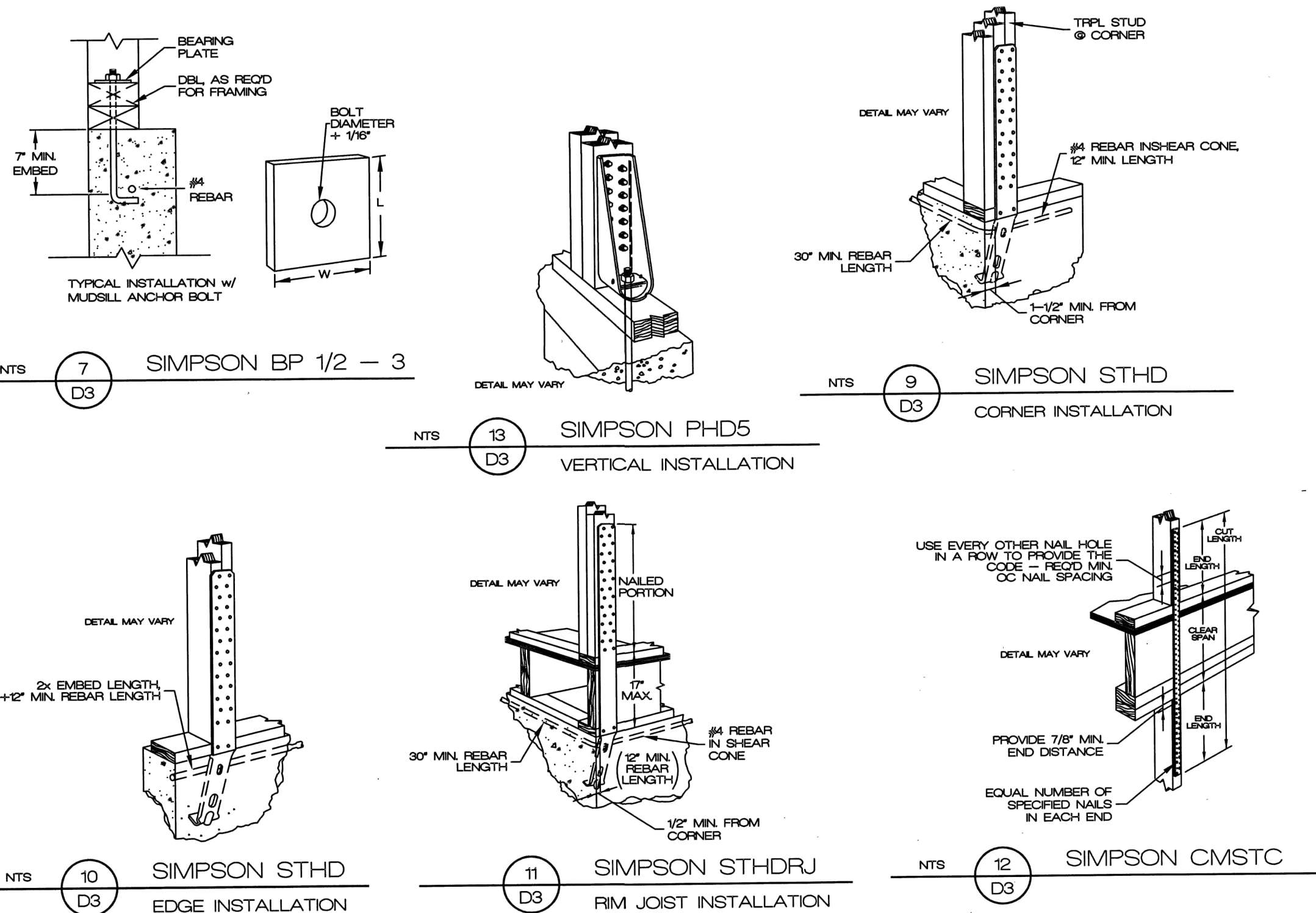
STAPLES NOT PERMITTED IN KCMO

FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

Item	Description of building elements	Number & type of fastener (notes: a, b, c)	Spacing of fasteners
Roof			
1	Blocking between joists or rafters to top plate, toe nail	3-8d (2-1/2" x 0.137)	24" o.c.
2	Ceiling joists to plate, toe nail	3-8d (2-1/2" x 0.137)	24" o.c.
3	Ceiling joists not attached to parallel rafter, laps over partitions, face nail	3-10d	16" o.c. along each edge
4	Collar tie rafter, face nail or 1-1/4" x 20 ga. ridge strap	3-10d (3" x 0.287)	16" o.c. along each edge
5	Rafter to plate, toe nail, note: trusses use STC clips at NLS walls and speed holdowns	3-10d or 3-10d (3-1/2" x 0.357, 0.148")	2 toe nail side 1, 1 toe nail side 2 (note j)
6	Roof rafters to ridge, valley or hip rafters:		
7	Toe nail	4-16d (3-1/2" x 0.357)	24" o.c.
8	Face nail	3-16d (3-1/2" x 0.357)	24" o.c.
Wall			
9	Built-up studs-face nail	10d (3" x 0.287)	24" o.c.
10	Assembling studs at intersecting wall corners, face nail	16d (3-1/2" x 0.137)	16" o.c. along each edge
11	Built-up header, two pieces w/ 1/2" spacer	16d (3-1/2" x 0.137)	16" o.c. along each edge
12	Continuous header, two pieces	16d (3-1/2" x 0.137)	16" o.c. along each edge
13	Continuous header to stud, toe nail	4-8d (2-1/2" x 0.137)	24" o.c.
14	Double studs, face nail	10d (3" x 0.287)	24" o.c.
15	Double top plates, face nail	10d (3" x 0.287)	24" o.c.
16	Double top plates, min. 48" offset of end joints, face nail in lapped area	8-16d (3-1/2" x 0.137)	16" o.c.
17	Sole plate to joist or blocking, face nail	3-16d (3-1/2" x 0.357)	16" o.c.
18	Sole plate to joist or blocking at braced wall panels	3-8d (2-1/2" x 0.137) or 2-16d (3-1/2" x 0.357)	16" o.c.
19	Stud to sole plate, toe nail	3-8d (2-1/2" x 0.137) or 2-16d (3-1/2" x 0.357)	16" o.c.
20	Top or sole plate to stud, end nail	2-10d (3" x 0.287)	24" o.c.
21	Top plates, face at corners and intersections, face nail	2-10d (3" x 0.287)	24" o.c.
22	1" brace to each stud and plate, face nail	2-8d (2-1/2" x 0.137)	24" o.c.
23	1" x 6" sheathing to each bearing, face nail	2 staples 1-3/4"	24" o.c.
24	1" x 6" sheathing to each bearing, face nail	2-8d (2-1/2" x 0.137)	24" o.c.
25	Wider than 1" x 6" sheathing to each bearing, face nail	3 staples 1-3/4"	24" o.c.
Floor			
26	Joist to sill or girder, toe nail	3-8d (2-1/2" x 0.137)	24" o.c.
27	2" firm joist to top plate, toe nail (roof applications also)	8d (2-1/2" x 0.137)	24" o.c.
28	2" firm joist or blocking to sill plate, toe nail	8d (2-1/2" x 0.137)	24" o.c.
29	1" x 6" subfloor or less to each joist, face nail	2-8d (2-1/2" x 0.137)	24" o.c.
30	2" subfloor to joist of girder, blind and face nail	2 staples 1-3/4"	24" o.c.
31	2" planks (plank & beam - floor and roof)	2-16d (3-1/2" x 0.357)	24" o.c.
32	Built-up girders and beams, 2" lumber layers	10d (3" x 0.287)	24" o.c.
33	Ledger strip supporting joists or rafters	3-16d (3-1/2" x 0.357)	24" o.c.
Spacing of Fasteners			
Description of building materials		Description of fastener (notes: b, c, e)	Edges (inches) (notes: i)
Wood structural panels, subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing		8d common (2" x 0.137) nail (subfloor, wall) (note j)	12 (note: g)
32		8d common (2-1/2" x 0.137) nail (roof)	12 (note: g)
33		8d common (2" x 0.137) nail (roof)	12 (note: g)
34		10d common (3" x 0.148) nail or 8d deformed (2-1/2" x 0.137) nail	12
Other wall sheathing (note i)			
35	1/2" structural cellulose fiberboard	1-1/2" galv. roofing nail, 7/16" crown or 1" crown staple 16 ga., 1-1/4" long	6
36	25/32" structural cellulose fiberboard	1-3/4" galv. roofing nail, 7/16" crown or 1" crown staple 16 ga., 1-1/2" long	6
37	1/2" gypsum sheathing (note d)	1-1/2" galvanized roofing nail, staple galv., 1-1/2" long, 1-1/4" screws, Type W or S	7
38	5/8" gypsum sheathing (note d)	1-3/8" long, 1-5/8" screws, Type W or S	7
Wood structural panels, combination subfloor underlayment to framing			
39	3/4" and less	8d deformed (2" x 0.207) nail or 8d common (2-1/2" x 0.137) nail	12
40	7/8" to 1"	8d common (2-1/2" x 0.137) nail or 8d deformed (2-1/2" x 0.137) nail	12
41	1-1/8" to 1-1/4"	10d common (3" x 0.148) nail or 8d deformed (2-1/2" x 0.137) nail	12

For S 1 inch = 254 mm, 1 foot = 3048 mm, 1 mile per hour = 0.447 m/s, 1 psi = 6.896 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 0.052 inch (20d common nail, 90 ksi (620 MPa) for shank diameters larger than 0.052 inch but not larger than 0.077 inch, and 100 ksi (689 MPa) for shank diameters of 0.077 inch or less.
- b. Staples are 16 gauge wire and have a minimum 7/16-inch 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.
- d. Four-tooth-by-8-foot or 4-tooth-by-9-foot panels shall be applied vertically.
- e. Spacing of fasteners not included in the table shall be verified w/ ECR.
- f. For regions having basic wind speed of 100 mph or greater, 8d deformed nails shall be used for attaching plywood and wood structural panel sheathing to framing when minimum 48-inch distance from gable end walls, if mean roof height is more than 25 feet, up to 35 feet minimum.
- g. For regions having basic wind speed of 100 mph or less, nails for attaching wood structural panel 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 ridge, eaves and gable ends and 4 inches on center to gable end wall framing.
- h. Gypsum sheathing shall conform to ASTM C 398 and shall be installed in accordance with GA 263. Fiberboard sheathing shall conform to ASTM C 208.
- i. 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 plate 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 framing members or solid blocking.
- j. 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.



ALL METHODS	DESCRIPTION	CONSTRUCTION
1 LIB	METAL STRAP METHOD	SIMPSON CS16 STRAP NAILED TO STUDS SPACED AT 16" OC MAXIMUM. STRAPS SHALL BE INSTALLED IN 'V' OR 'X' PATTERN AT THE BRACE LOCATION AND FOR THE SPECIFIED LENGTH, ALTERNATIVE TO LET IN 1 X 4.
2 WSP/CS-WSP	SHEATHING METHOD	7/16" STRUCTURAL SHEATHING OVER STUDS SPACED 16" OC w/ 8d COMMON NAILS AT 6" OC EDGE AND 12" FIELD. HORIZONTAL JOINTS SHALL BE BLOCKED FOR ANCHORAGE.
3 PFH	GARAGE DOOR PORTAL	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. STD10 & LSTA STRAPS
4 CS-PF	PORTALS	HEADER LENGTH AS SPECIFIED EXTENDED TO NEXT LAYOUT STUD, 18" MINIMUM WIDTH. FULL PANEL SHEATHING REQ'D WITH CUTOUTS FOR OPENINGS. HORIZONTAL BLOCKING AT EDGES.

J' BOLT SPACING FOR SHEAR WALLS IS 3' OC WITH STRAPS AS NOTED.

SHEAR WALL SCHEDULE

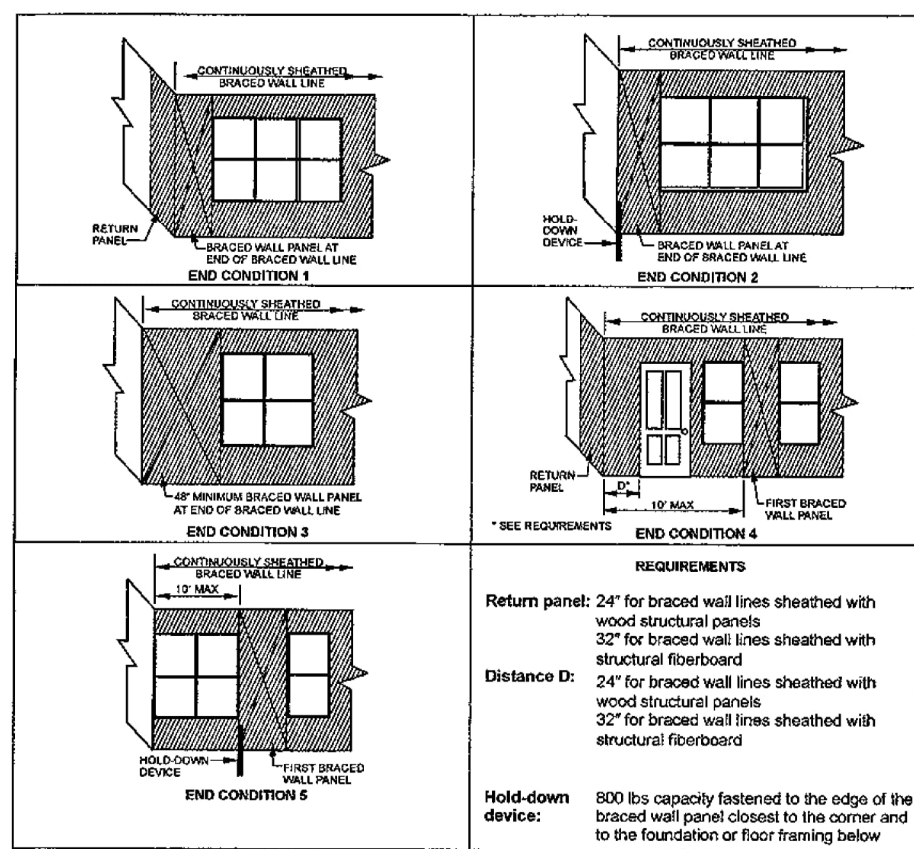
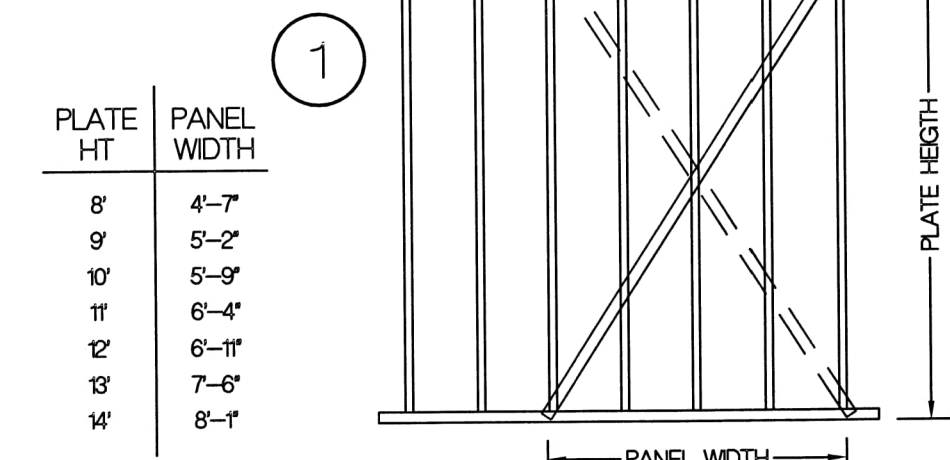


FIGURE R602.10.6.2

METHOD PFH-PORTAL FRAME WITH HOLD-DOWNS

LOAD TABLE		
LOCATION	MIN. DL (PSF)	MIN. LL (PSF)
EXTERIOR BALCONIES	10	60
DECKS	10	40
CEILING w/o STORAGE	5	10
CEILING w/ STORAGE	10	20
NON-SLEEPING ROOMS	10	40
SLEEPING ROOMS	10	30
ROOF-LIGHT COVERING	10	25
ROOF-HEAVY COVERING	20	25

INTERIOR BRACED PANELS w/ SIMPSON WBC STRAP



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

CHAPTER 6 WALL CONSTRUCTION

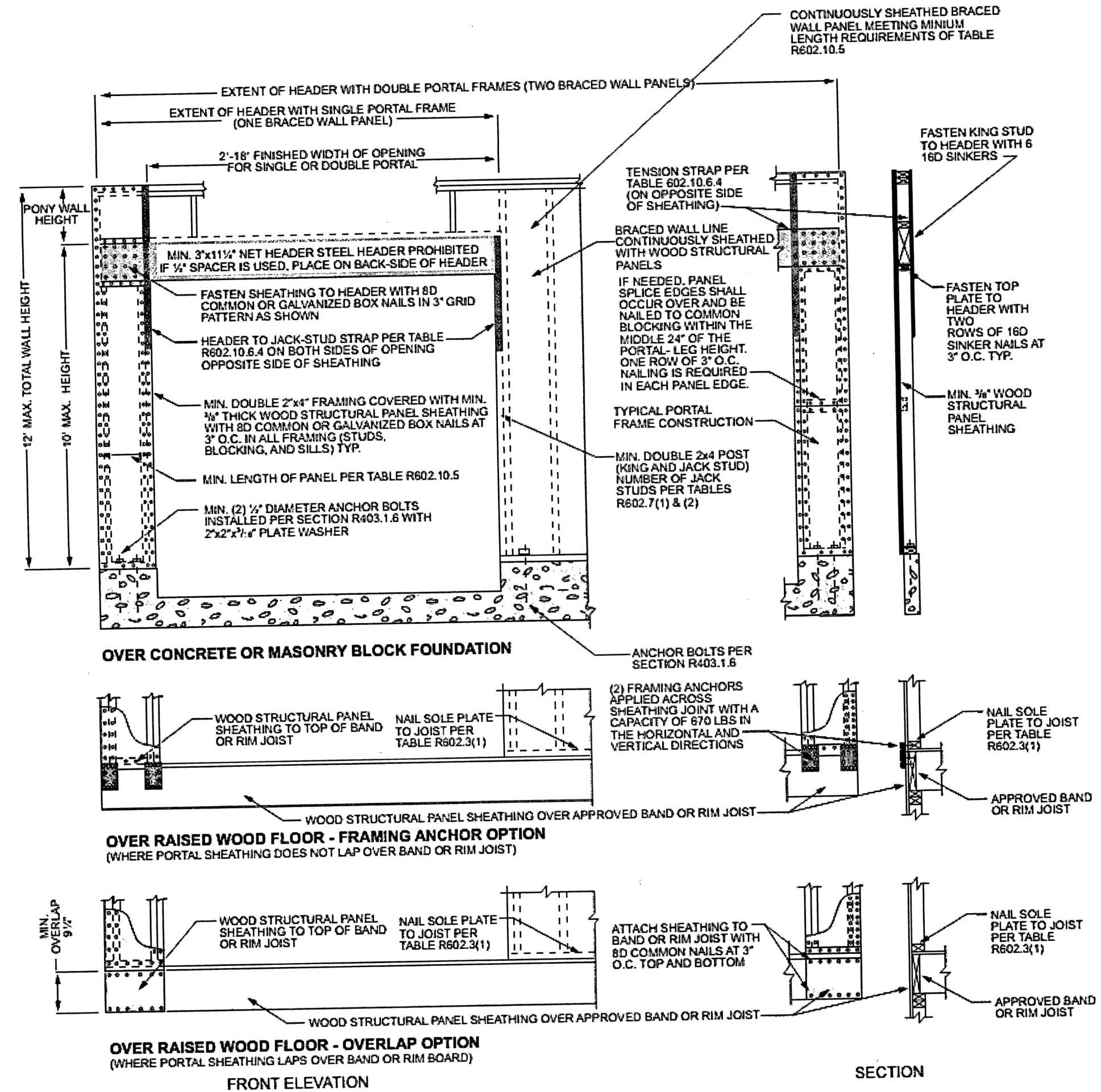


FIGURE R602.10.6.4

METHOD CS-PF-CONTINUOUSLY SHEATHED PORTAL FRAME PANEL CONSTRUCTION

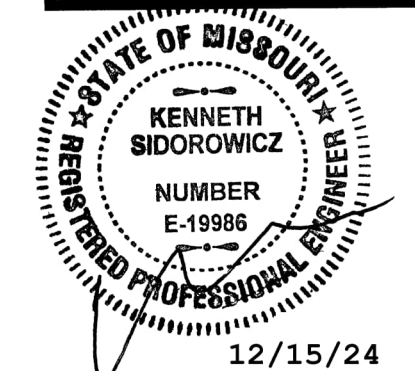
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