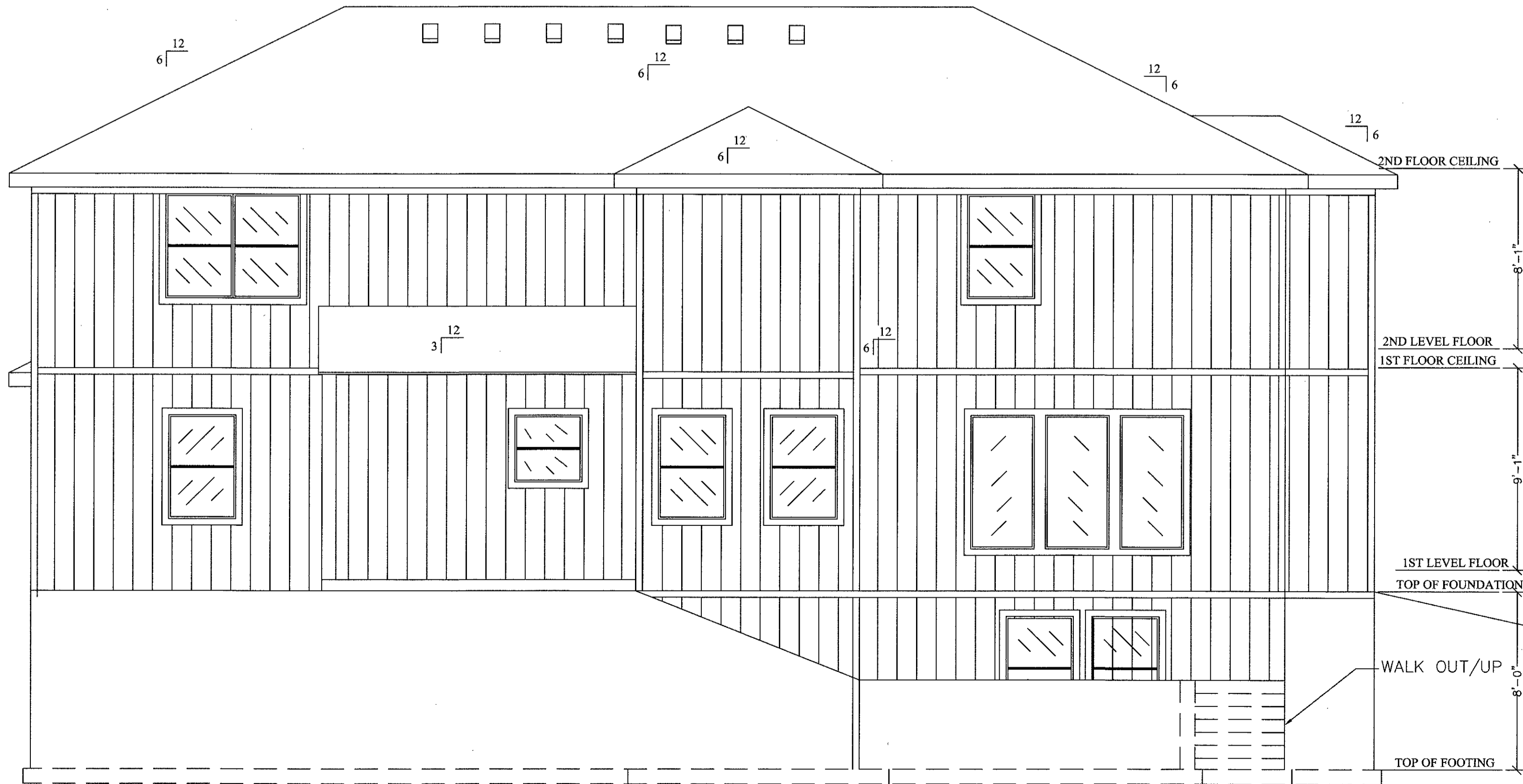


RESIDENTIAL AREA:			
RESIDENTIAL, LIVING AREA	1239		
RESIDENTIAL, UN-FINISHED BASEMENTS	1239		
RESIDENTIAL, GARAGE	680		
RESIDENTIAL, LIVING AREA 2	1558		
ROOFING MATERIAL	COMP	NUMBER OF BATHROOMS	3.5
NUMBER OF BEDROOMS	4	NUMBER OF STORIES	2
NUMBER OF LIVING UNITS	1	TOTAL LIVING AREA	2797
SEWER CONNECTION FEE	21		



FRONT ELEVATION

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



BACK ELEVATION

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

DESCRIPTION:  
FRONT/REAR ELEVATIONS

MODEL:

DAVIS

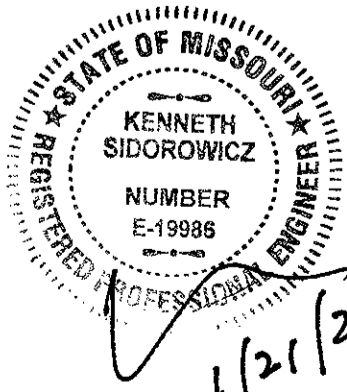
DATE:

11/5/20

4524 SW Nautilus Pl  
Lee's Summit MO  
64082

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.

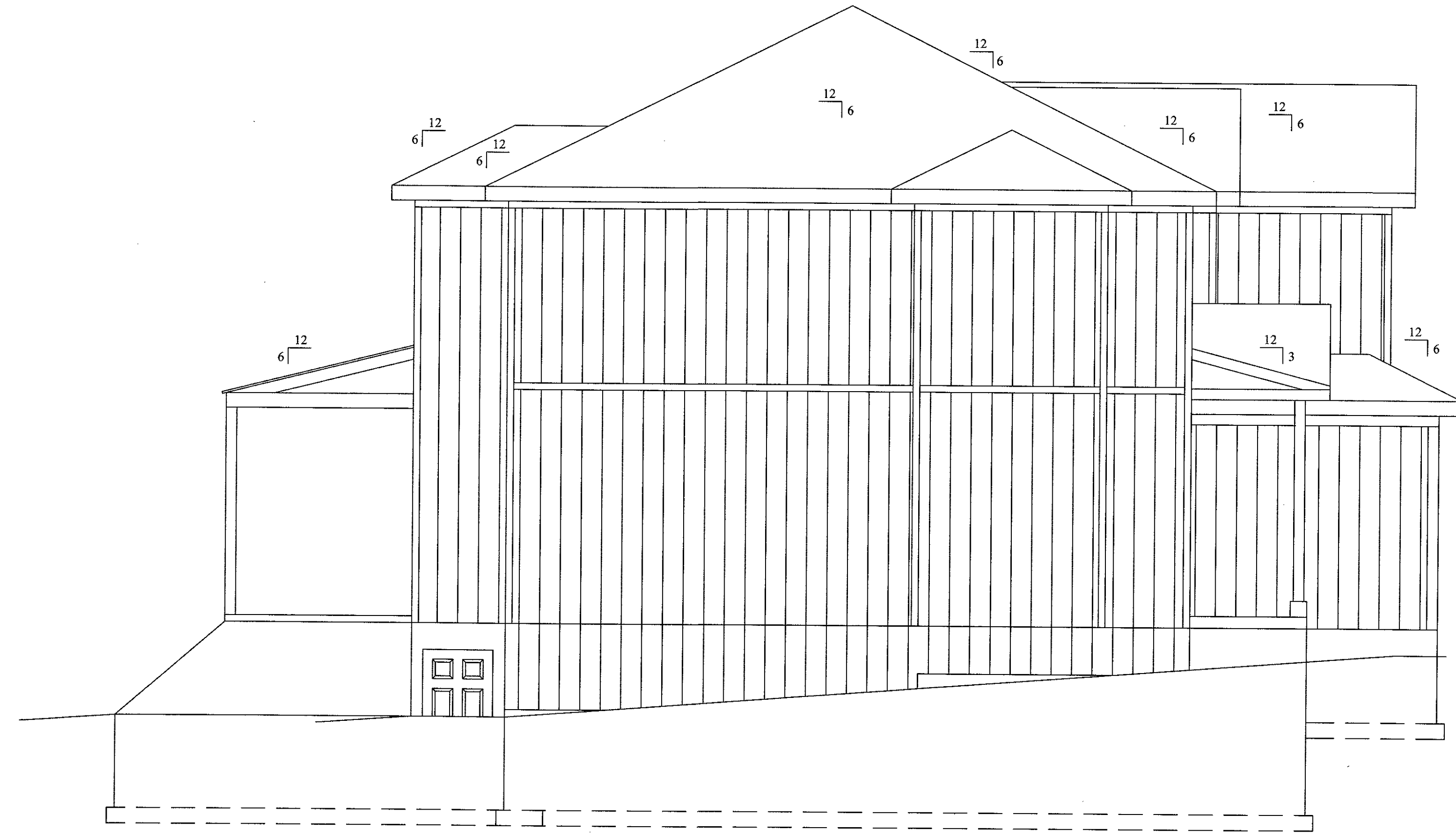
BUILD  
SET



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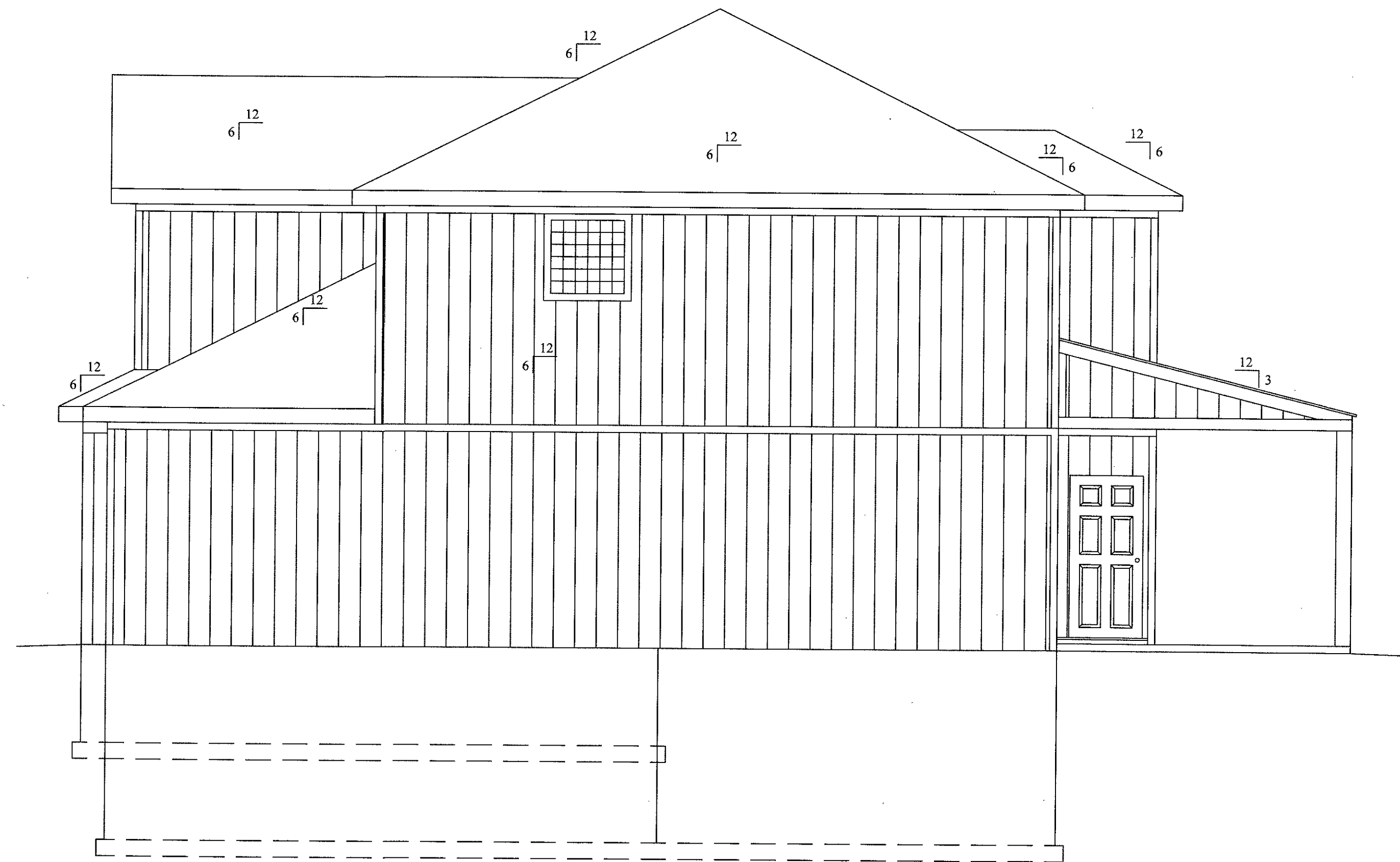
1 of 6

SHEET NO:



RIGHT ELEVATION

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



LEFT ELEVATION

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

CRB

DESCRIPTION:

LEFT / RIGHT ELEVATIONS

MODEL:

DAVIS

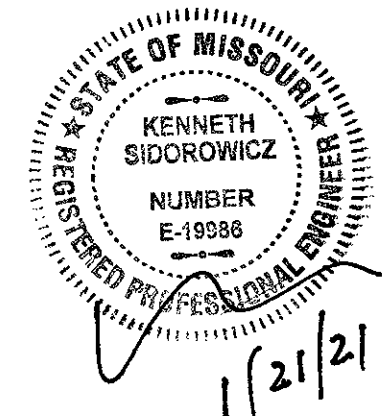
DATE:

11/5/20

4524 SW Nautilus Pl  
Lee's Summit MO  
64082

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

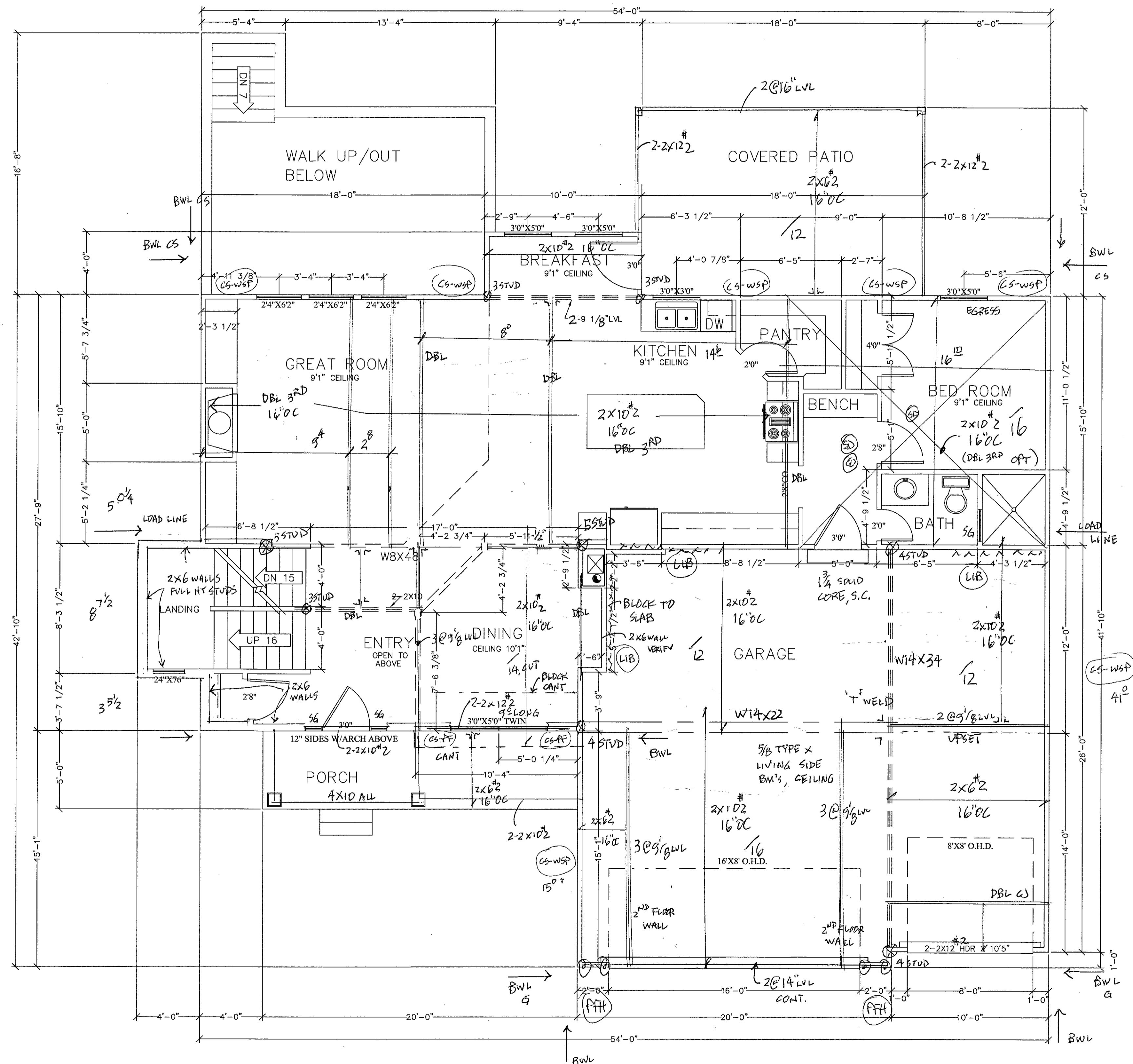


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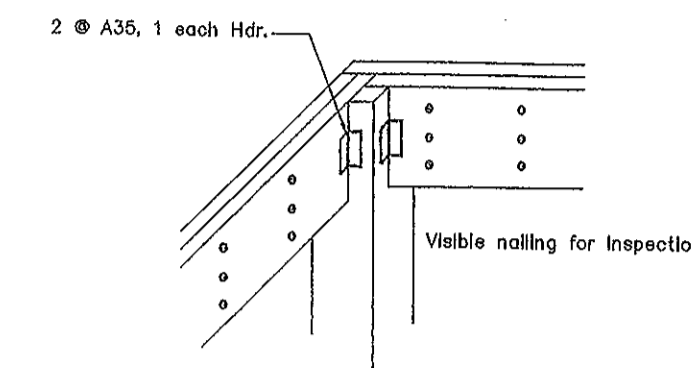
2 of 6

SHEET NO:





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



- OF/L MIN
- (CS-WSP) HOUSE IS SHEATHED W/ 1/2" OSB APA PANELS, SMART PANEL OR EQUAL, INSTALLED PER MANU. SPECS. SHIP LAPPED PANELS REQUIRE NAILING 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, 9' PLATE, FULL HT. STUDS  
S.C. = SELF CLOSING  
D2 GN #25 FOR WINDOWS  
CS = CONTINUOUSLY SHEATHED  
EO = END CONDITION  
SEE D2 FOR INSULATION VALUES  
EO#5, 18" LONG CS16 STRAP, CENTERED ON SUBFLOOR, FILL ALL NAIL HOLES.

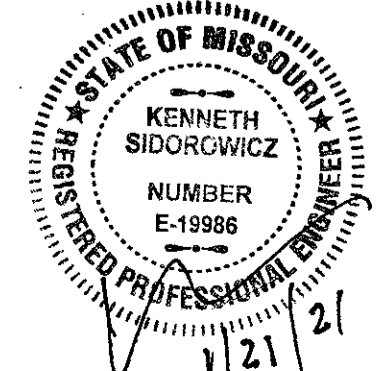
CRB

DESCRIPTION:  
FIRST FLOOR FRAMING

MODEL:  
DAVIS  
DATE:  
11/5/20  
4524 SW Nautilus Pl  
Lee's Summit MO  
64082

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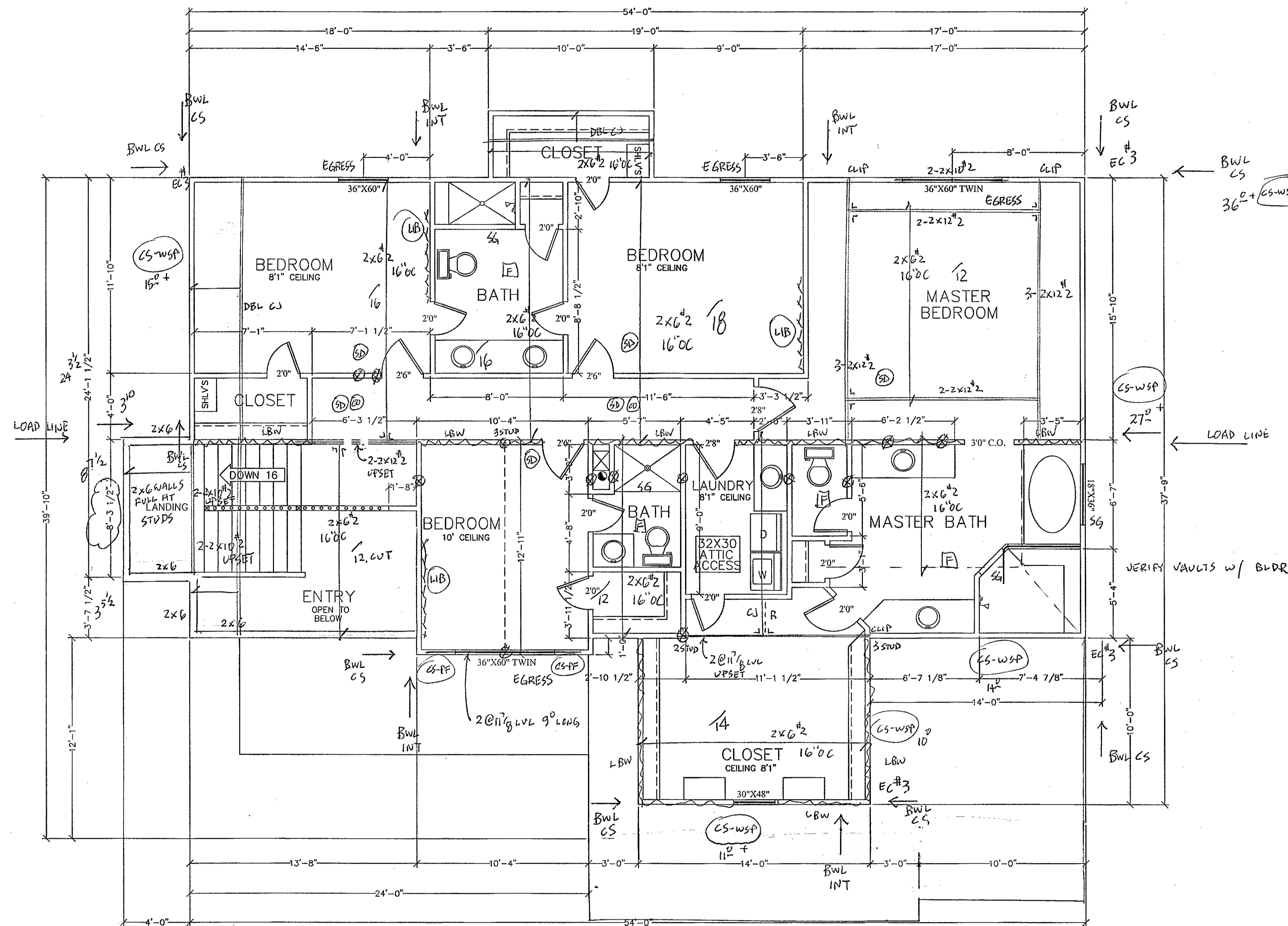
BUILD SET



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SHEET NO:



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



DESCRIPTION:  
SECOND FLOOR FRAMING  
ROOF FRAMING PLAN

MODEL:

DAVIS

DATE:

11/5/20

4524 SW Nautilus Pl  
Lee's Summit MO  
64082

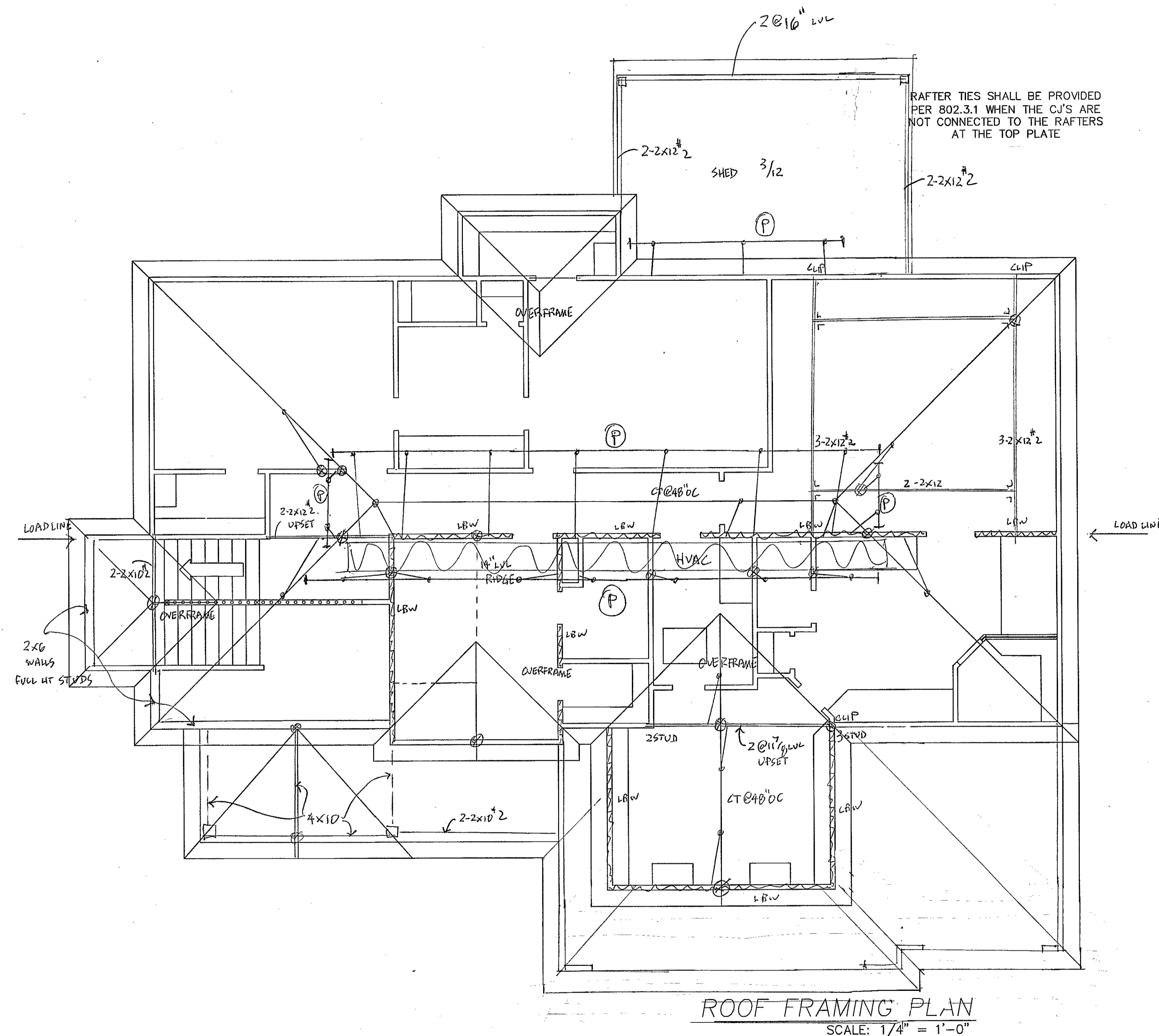
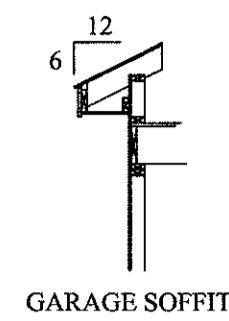
ARCHITECT IS NOT  
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AND CODE COMPLIANCE

BUILD  
SET

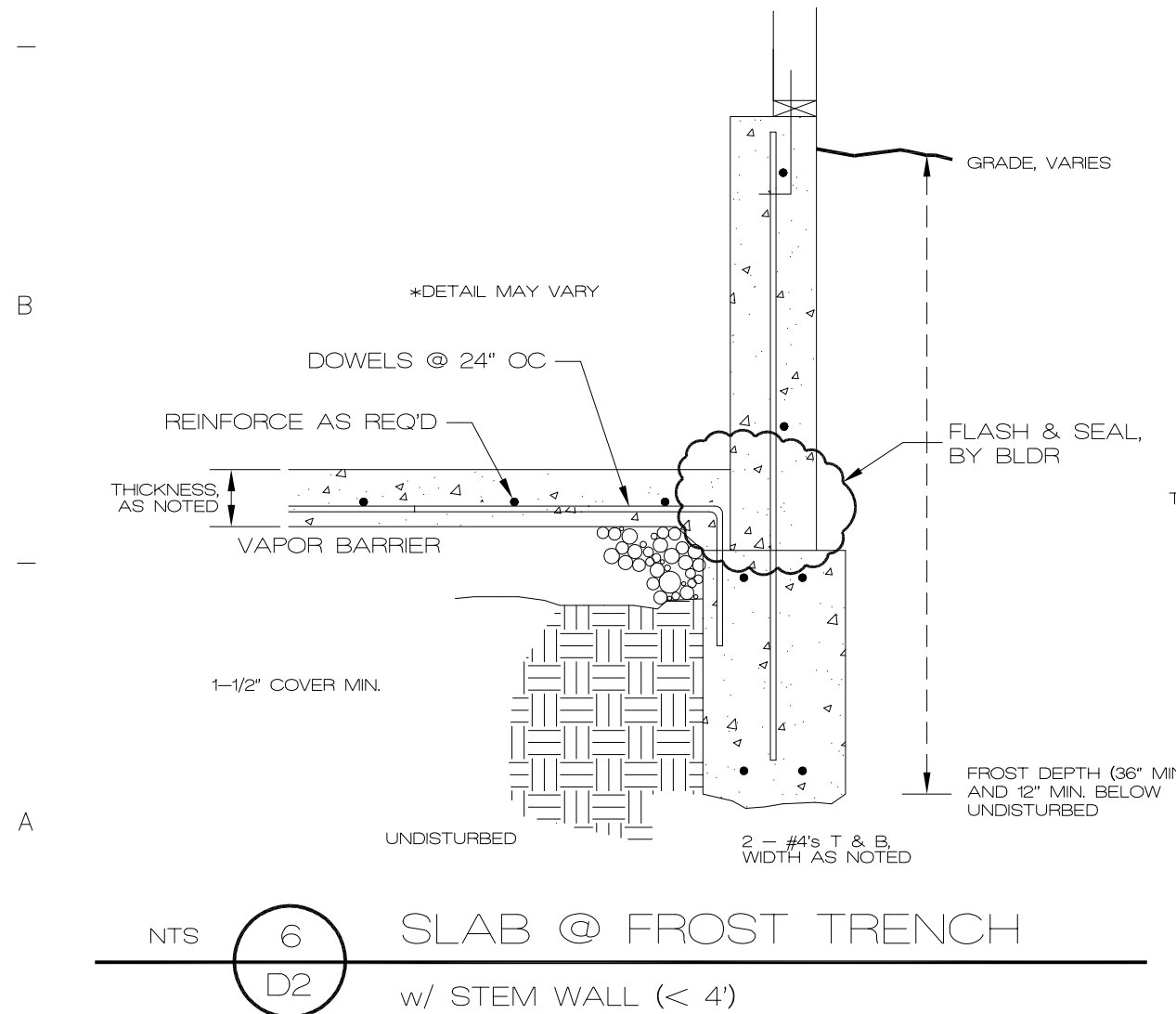
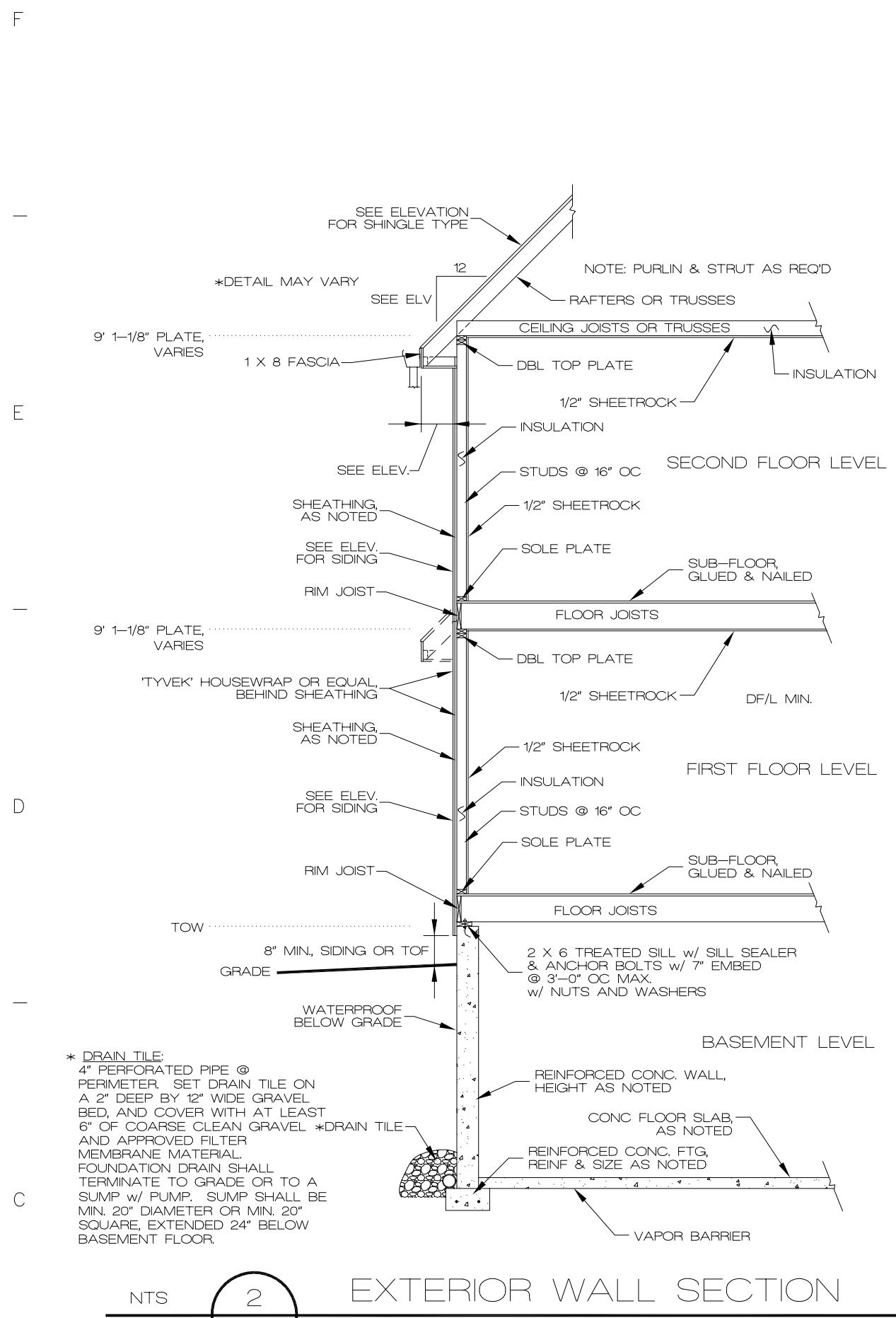
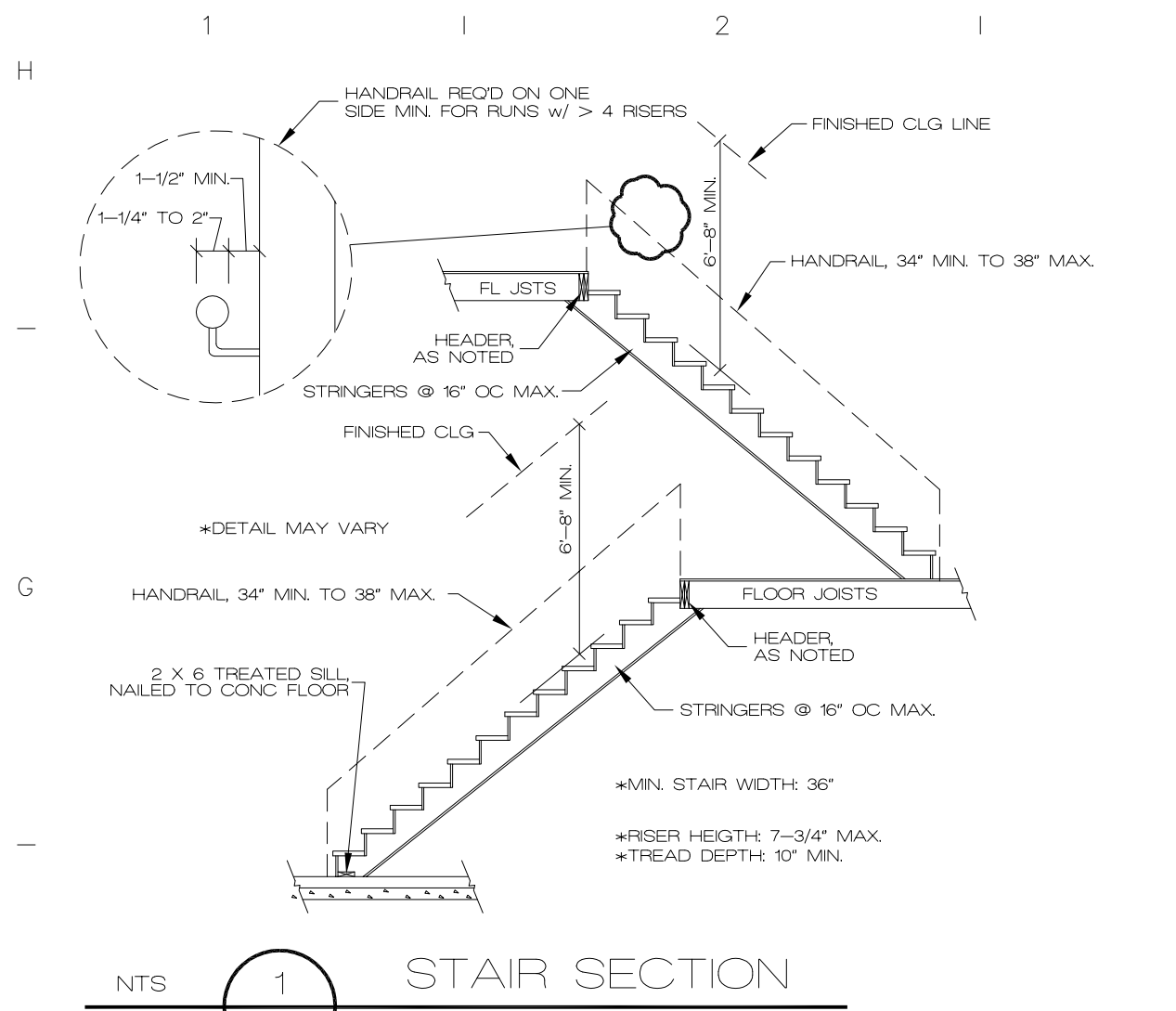
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5 of 6

SHEET NO:



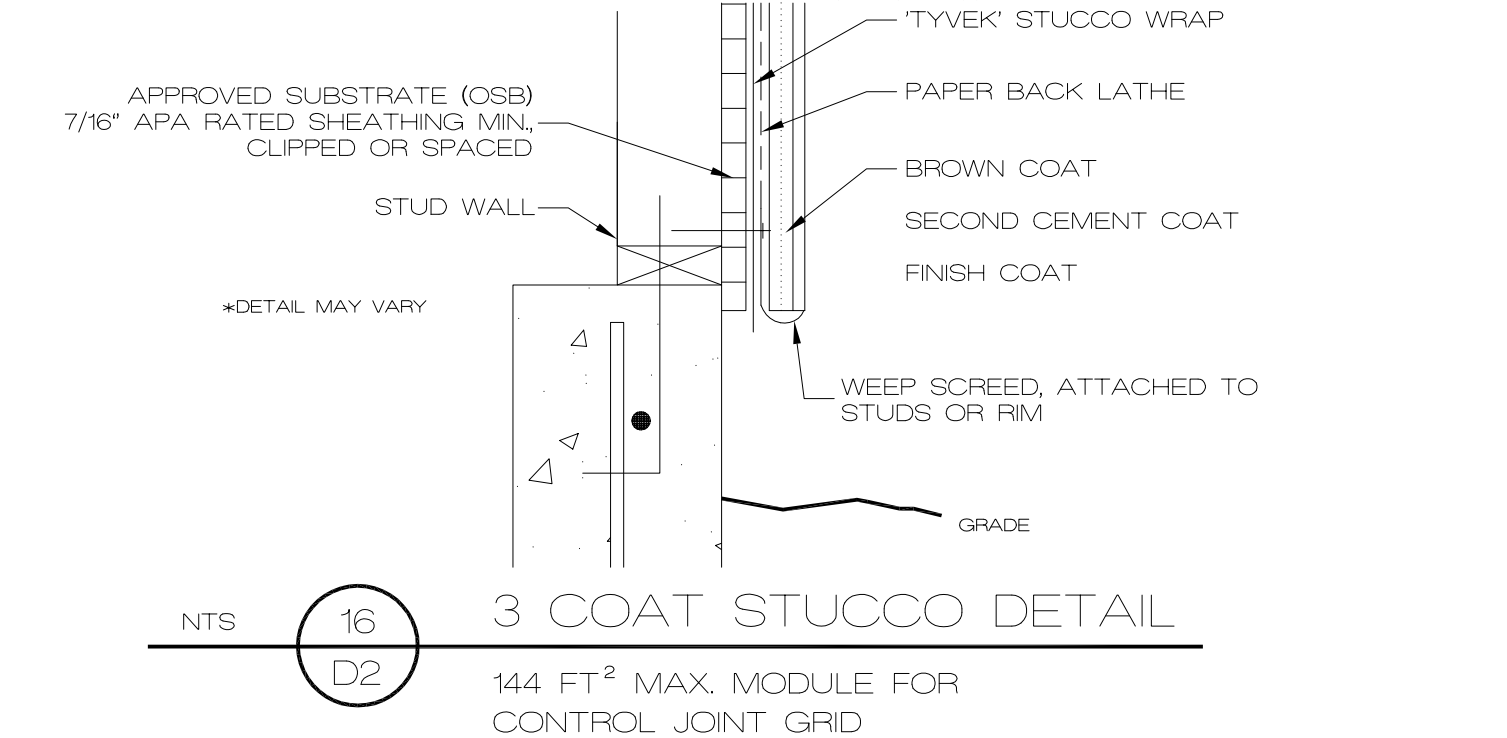




## GENERAL NOTES

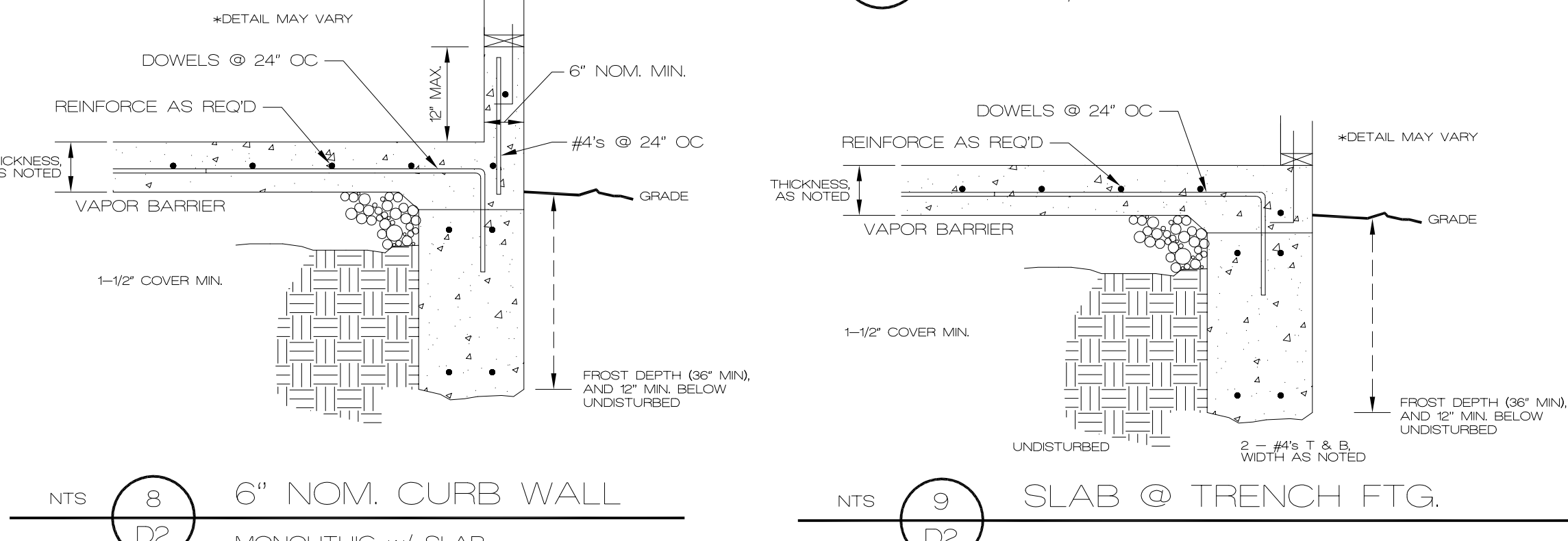
- GLASS - GLAZING IN THE FOLLOWING LOCATIONS SHALL BE OF APPROVED SAFETY GLAZING MATERIALS: STORM DOORS, PANELS ADJACENT TO A DOOR WITHIN THE NEAREST VERTICAL EDGE IS WITHIN A 24" ARC OF THE DOOR IN A CLOSED POSITION AND THE BOTTOM EDGE IS WITHIN 60" OF THE FLOOR WALLS ENCLOSING STAIRWAYS AND LANDINGS WHERE THE GLASS IS WITHIN 60" OF THE TOP OR BOTTOM OF THE STAIR ENCLOSURES FOR STAIRS, TUBS, SHOWERS AND GLASS EXCEEDING 9 SF; AND WHOSE BOTTOM EDGE IS LESS THAN 18" AFF. OR WALKING SURFACE WITHIN 36". A MINIMUM OF ONE EGRESS WINDOW SHALL BE PROVIDED IN EACH BEDROOM AND ONE FROM THE BASEMENT WITH A MINIMUM OPERABLE AREA OF 5.7 SF. MINIMUM HEIGHT OF 24 INCHES AND MINIMUM WIDTH OF 20 INCHES. THE OPERABLE PORTION SHALL NOT EXCEED 44 INCHES AFF. WATER RESISTANT WINDOWS SHALL BE REQ'D.
- SMOKE DETECTORS - PROVIDE SMOKE ALARMS IN EACH SLEEPING ROOM OUTSIDE OF EACH SLEEPING AREA AND ON EACH FLOOR AT THE STAIRS INCLUDING BASEMENTS. ALARMS SHALL BE INTERCONNECTED SO THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL THE SMOKE DETECTORS IN THE DWELLING.
- CARBON MONOXIDE DETECTORS REQ'D OUTSIDE EACH SLEEPING AREA IN DWELLING UNITS WITH FUEL-FIRED APPLIANCES AND/OR ATTACHED GARAGES, AND IN APURANCE AREAS.
- INSULATION REQUIREMENTS - HERE'S COMPLIANCE REPORT OR COMPLY WITH 2018 IRC PREScriptive REQUIREMENTS.
- ATTIC VENTILATION - THE NET FREE VENTILATION AREA SHALL BE NOT LESS THAN 1/50 OF THE AREA OF THE SPACE BEING VENTILATED. THE NET VENTILATION AREA MAY BE REDUCED TO 1/300 IF 50% TO 80% OF THE REQUIRED VENTILATION AREA IS PROVIDED BY VENTILATION LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED. AT LEAST 3 FT. ABOVE EAVES. RAFTERS SPACES ENCLOSED BY CEILING DIRECTLY APPLIED TO UNDERSIDE OF RAFTERS SHALL BE SIZED TO ALLOW A MINIMUM OF 1 INCH CLEAR VENTED AIR SPACE ABOVE THE INSULATION. ATTICS WITH A MINIMUM VERTICAL CLEAR HEIGHT OF LESS THAN 30 INCHES ARE NOT REQ'D TO HAVE ACCESS OPENING.

- THIS REQUIREMENT IS WAIVED FOR A COCON SYSTEM MAKE-UP AIR REQ'D
- MAKE-UP/AIR/COMBUSTION AIR - MAKE-UP OR COMBUSTION AIR SHALL BE PROVIDED FROM OUTSIDE AS REQ'D FOR EXHAUST OVER 400 cfm FURNACE OR WH THRU ROOF OR OUTSIDE WALL.
  - HVAC IGNITION SOURCE - EQUIPMENT AND APPLIANCES WITH AN IGNITION SOURCE THAT ARE LOCATED IN THE GARAGE OR GARAGE CLOSET SHALL BE ELEVATED SUCH THAT THE SOURCE OF IGNITION IS NOT LESS THAN 18" ABOVE THE FLOOR OR ARE LISTED AS FLAMMABLE VAPOR RESISTANT AND FOR INSTALLATION WITHOUT ELEVATION.
  - EXHAUST AIR - ALL EXHAUST FANS SHALL EXHAUST DIRECTLY TO THE BUILDING EXTERIOR.
  - GARAGE FLOOR SLOPE - GARAGE FLOORS SHALL SLOPE 2% MIN. TO THE GARAGE DOORS, AN OPEN TRENCH OR AN UNTRAPPED DRAIN THAT DISCHARGES DIRECTLY TO THE TO THE EXTERIOR GRADE.
  - FINISHED GRADE - THE FINISHED GRADE OF THE YARD SHALL SLOPE 6" MIN. WITHIN THE FIRST 10 FEET, THEN 2% MIN. IN ALL OTHER AREAS.
  - WINDOWS - WINDOW FLASHING AND INSTALLATION MANUAL FROM MANUFACTURER SHALL BE ON SITE.
  - WATER HEATER - PROVIDE MEANS OF CONTROLLING PRESSURE CAUSED BY THERMAL EXPANSION IF THE WATER SERVICE IS PROTECTED BY A PRESSURE REGULATOR.
  - A WATER TEMPERATURE LIMITING DEVICE IS REQUIRED ON BATHTUBS AND JACUZZIS LIMITING THE TEMPERATURE TO 120°F.
  - SUMP - THE SUMP PIT SHALL BE EQUIPPED WITH A PUMP AND DEDICATED RECEPTACLE. IN UNFINISHED PORTIONS OF THE BASEMENT, RECEPTACLES SHALL HAVE GFI PROTECTION.



LOAD TABLE		
LOCATION	MIN. DL (PSF)	MIN. LL (PSF)
DECKS & BALCONIES	10	40
CEILING w/o STORAGE	10	10
CEILING w/ LIMITED ACCESS STORAGE	10	20
NON-SLEEPING ROOMS	10	40
SLEEPING ROOMS	10	30
ATTICS SERVED BY MAN DOOR	10	40
ROOF-LIGHT COVERING	10	20
ROOF-HEAVY COVERING	20	20

COMP RE-ROOFS OF SHAKE SHALL REMOVE SKIP SHEATHING

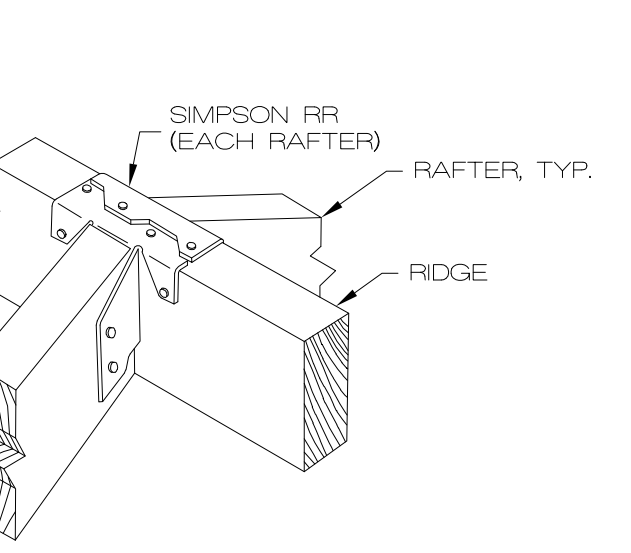
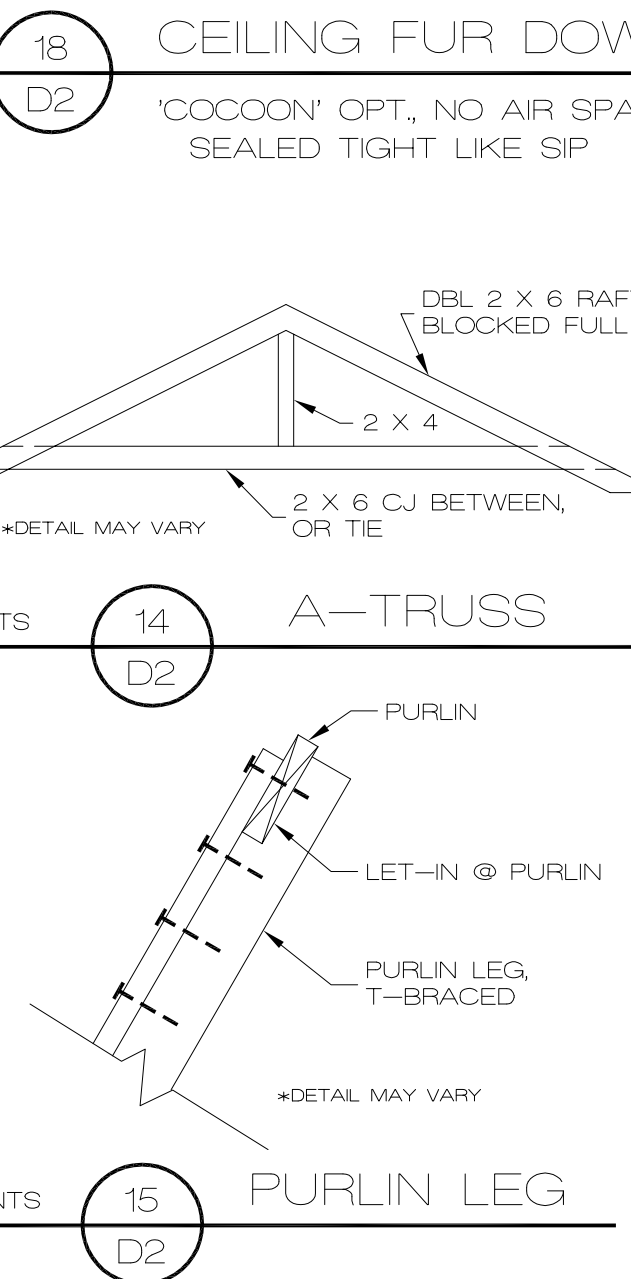
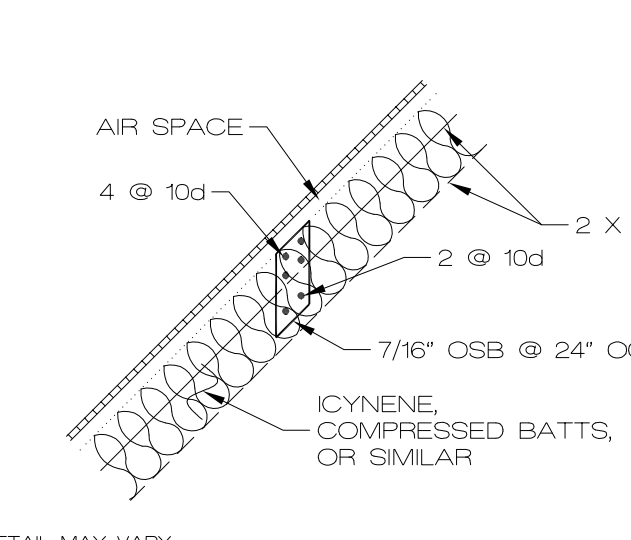


## ENERGY EFFICIENCY NOTES

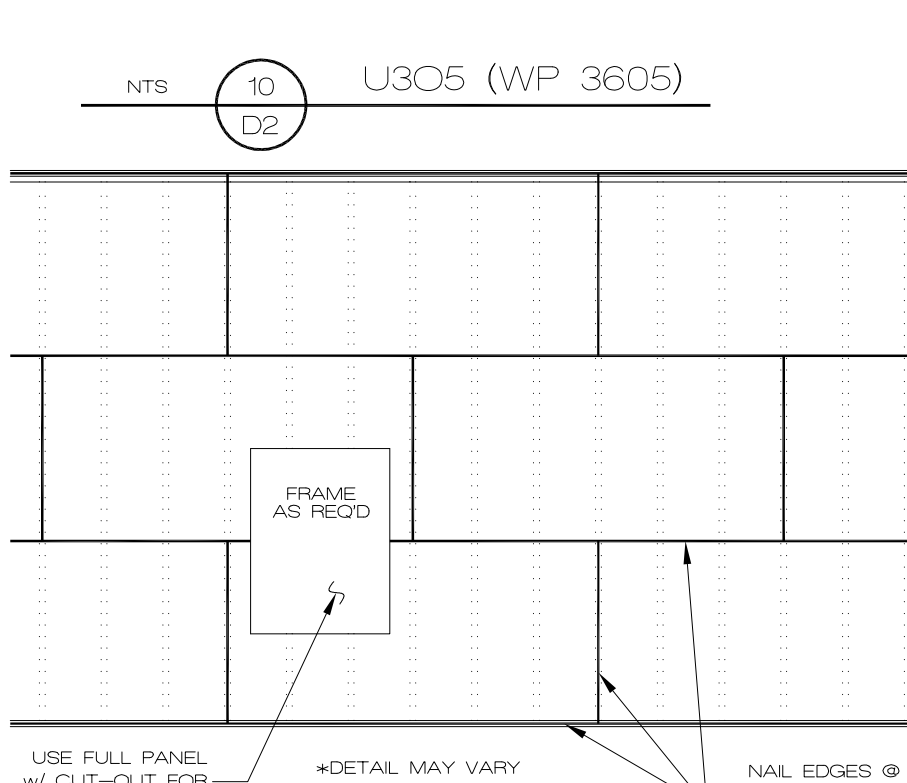
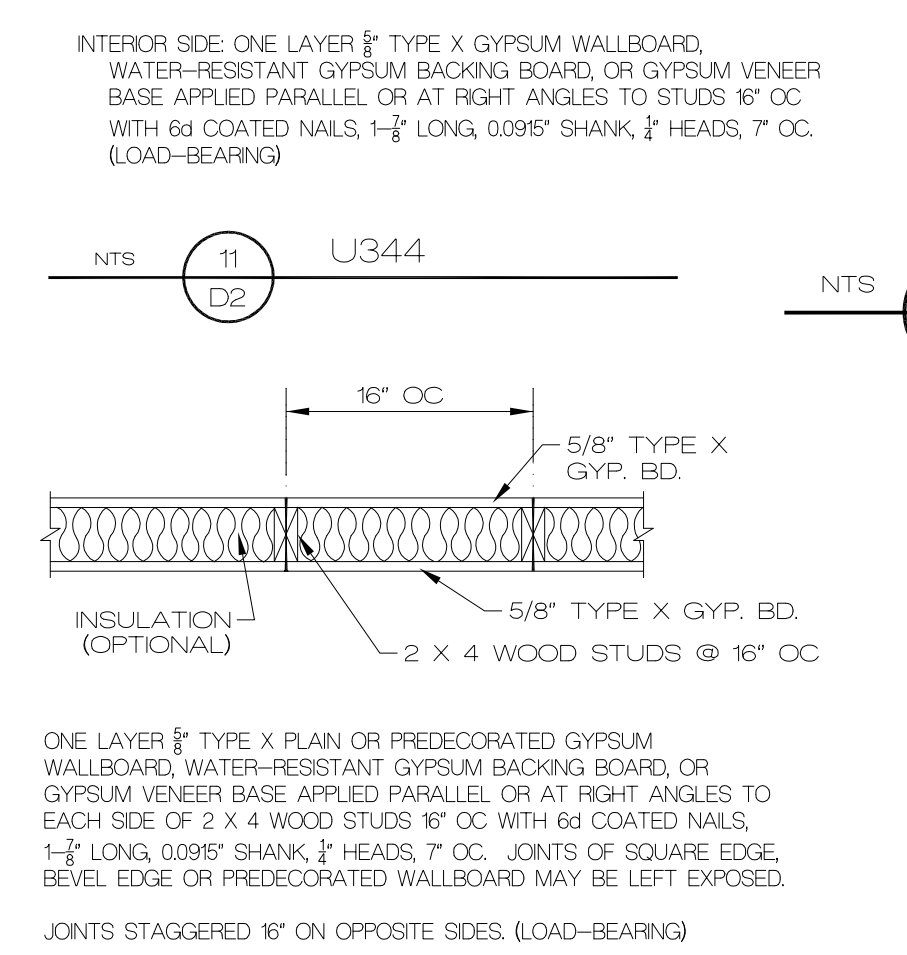
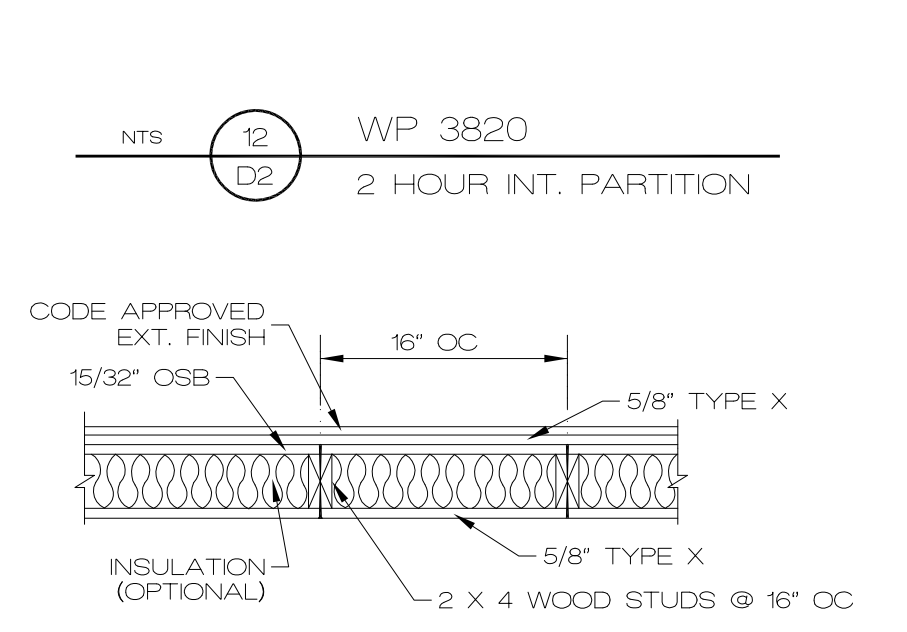
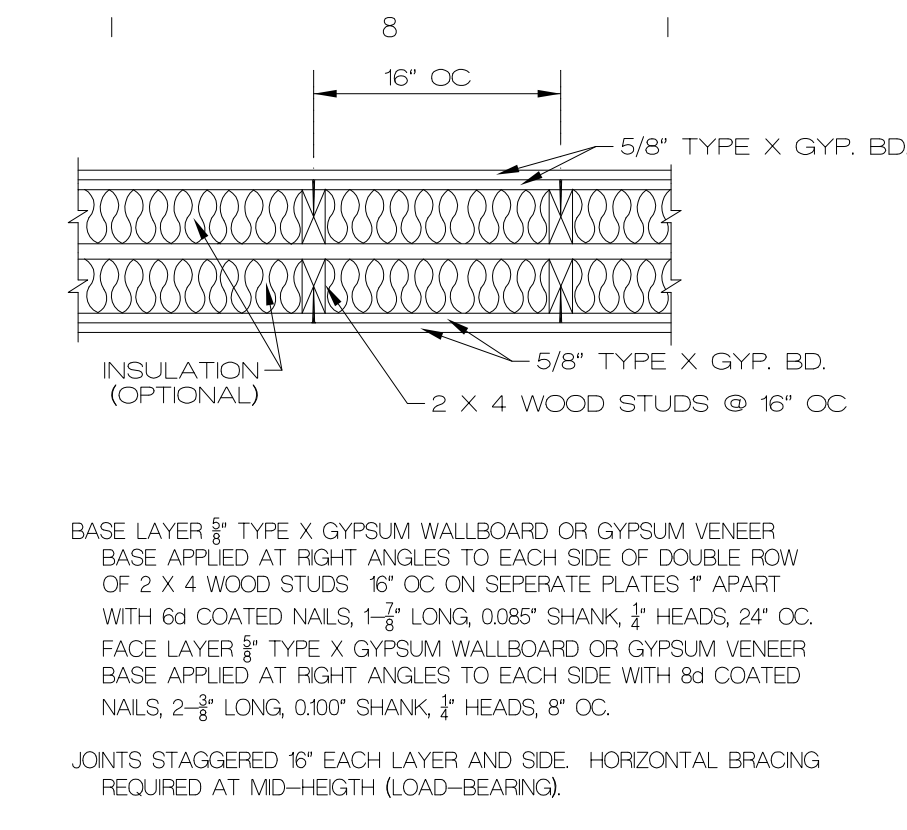
- HERS COMPLIANCE PATH
- THE BUILDING THERMAL ENVELOPE SHALL BE SEALED PER 2018 IRC SECTION N102.41 AND TABLE N102.4.1
- DUCTS, AIR HANDLERS, FILTER BOXES AND BUILDING CAVITIES USED AS DUCTS SHALL BE SEALED PER 2018 IRC SECTION N103.2

## INSULATION VALUES

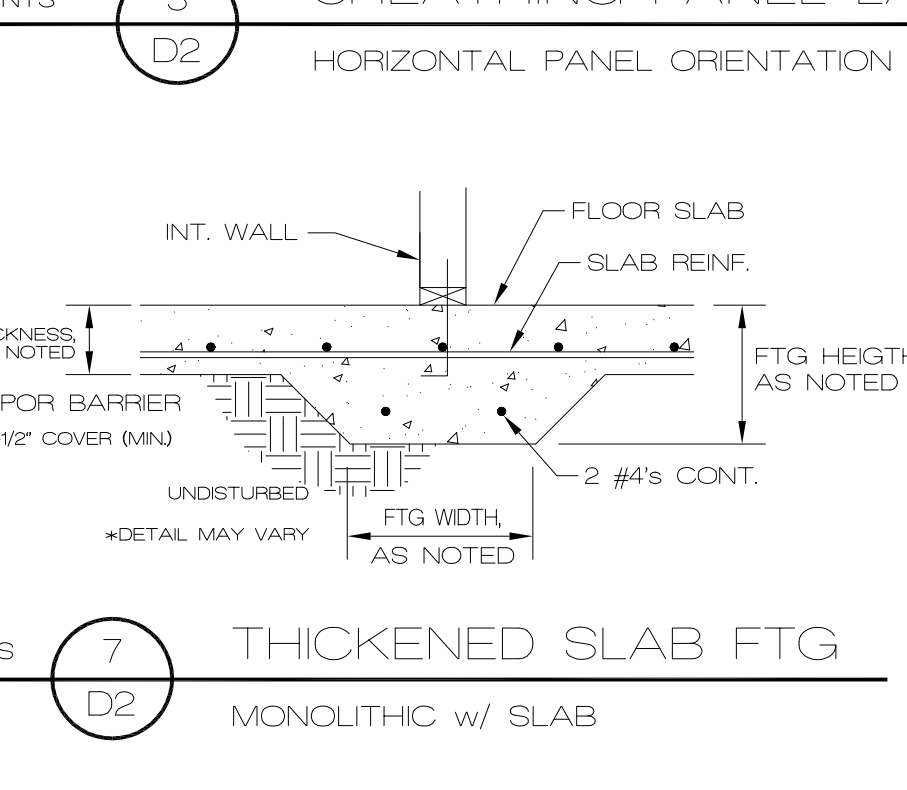
- CEILING: R49  
CATHEDRAL VAULT: R30  
EXTERIOR WALLS: R15  
UNVALUES: 35 OR LOWER: SHGC VALUES 35 OR LOWER  
FACE LAYER: 5" TYPE X GYPSUM WALLBOARD OR GYPSUM VENEER  
BASE APPLIED AT RIGHT ANGLES TO EACH SIDE WITH 8d COATED NAILS, 2-3/8" LONG, 0.007" SHANK, 1/2" HEADS, 8" OC.



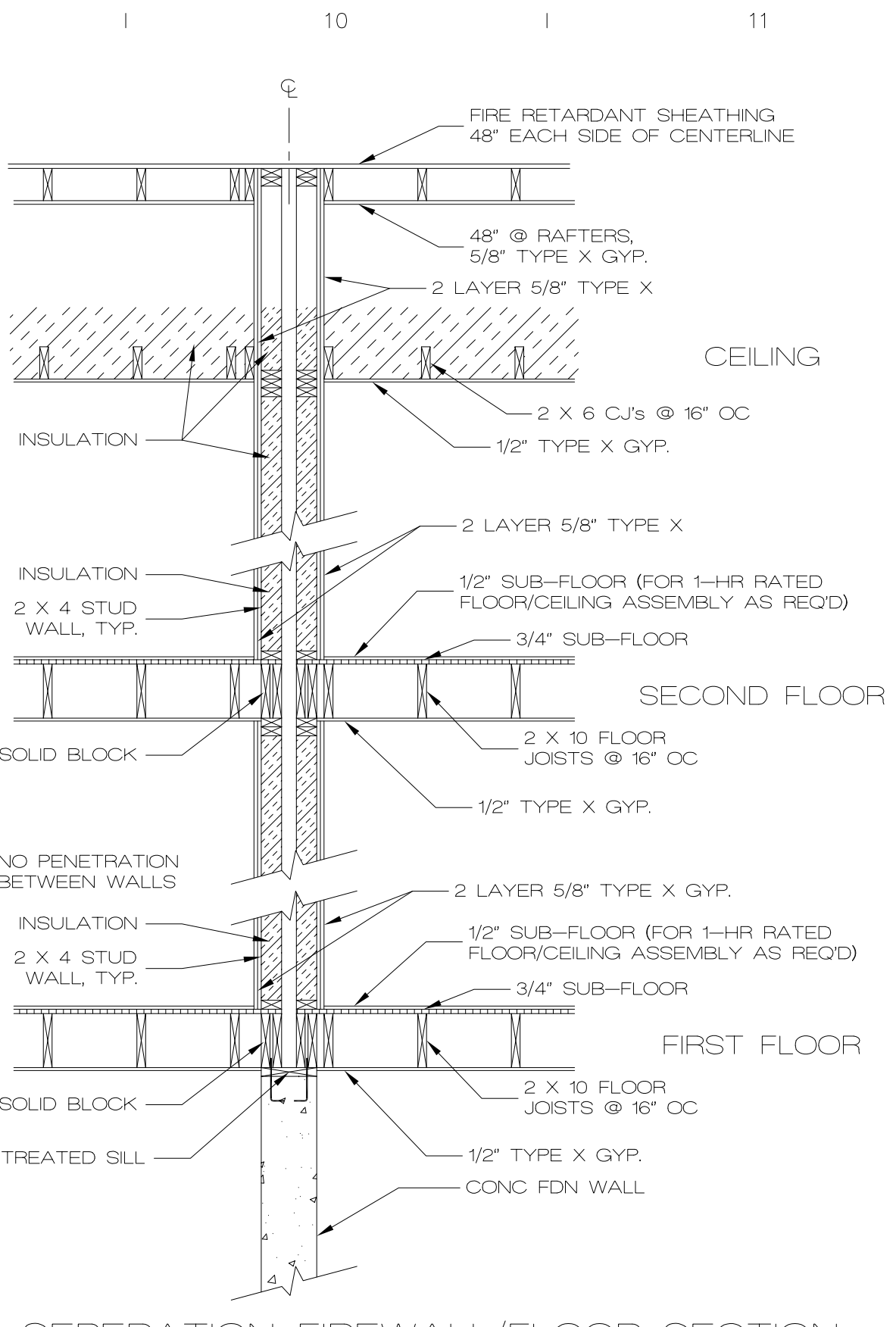
VAULT w/ PITCH



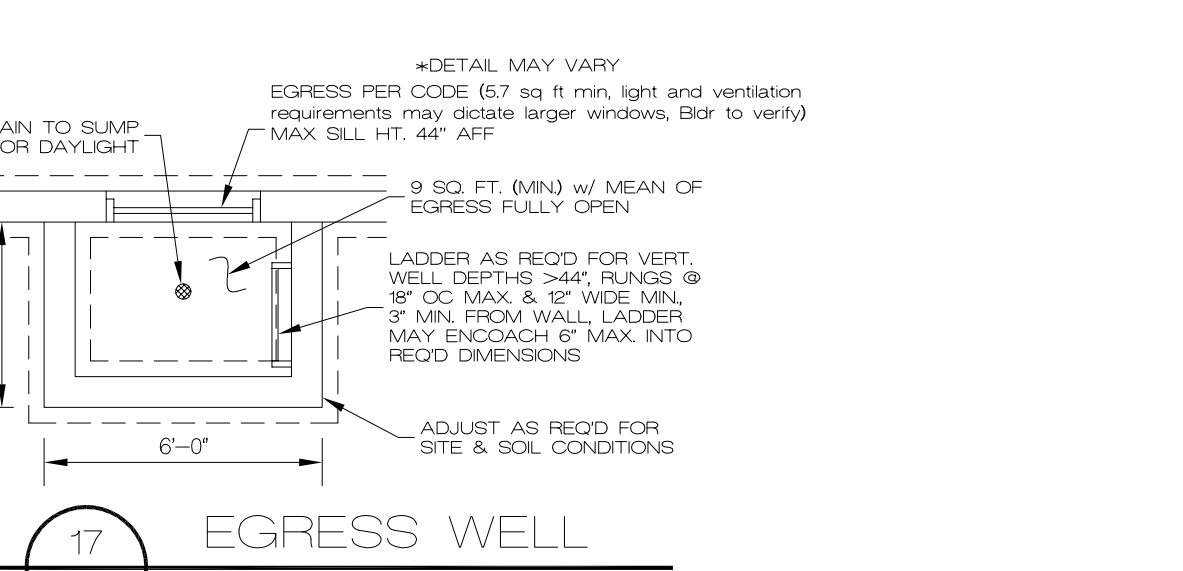
HORIZONTAL PANEL ORIENTATION



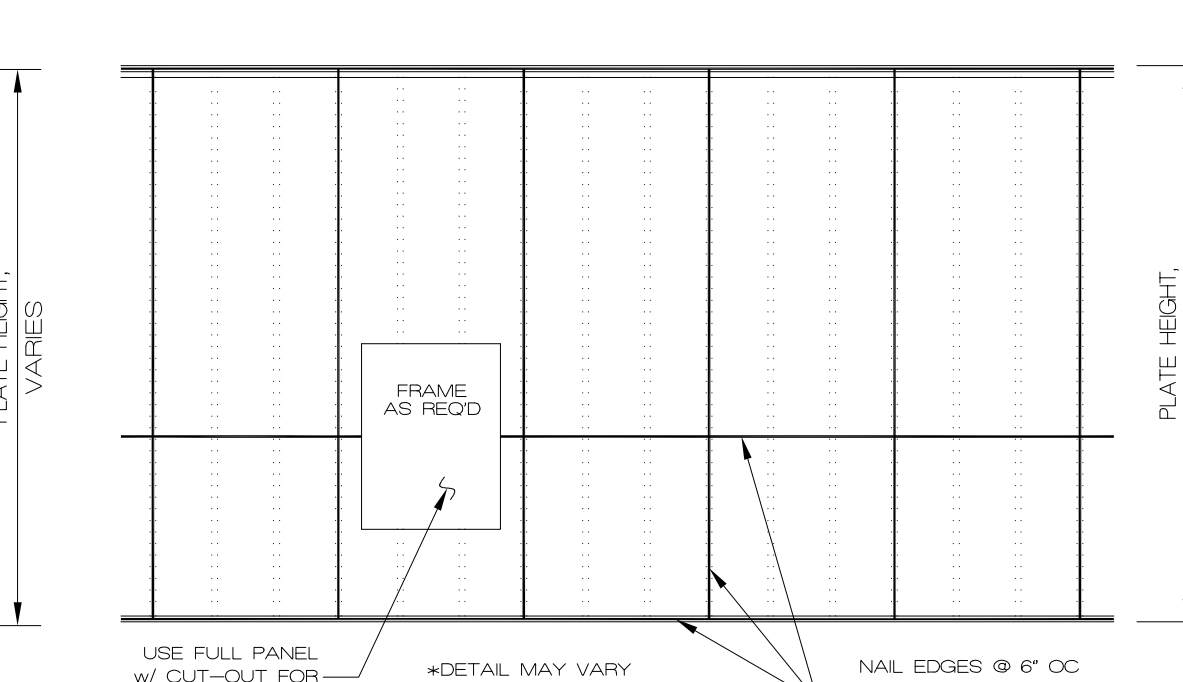
MONOLITHIC w/ SLAB



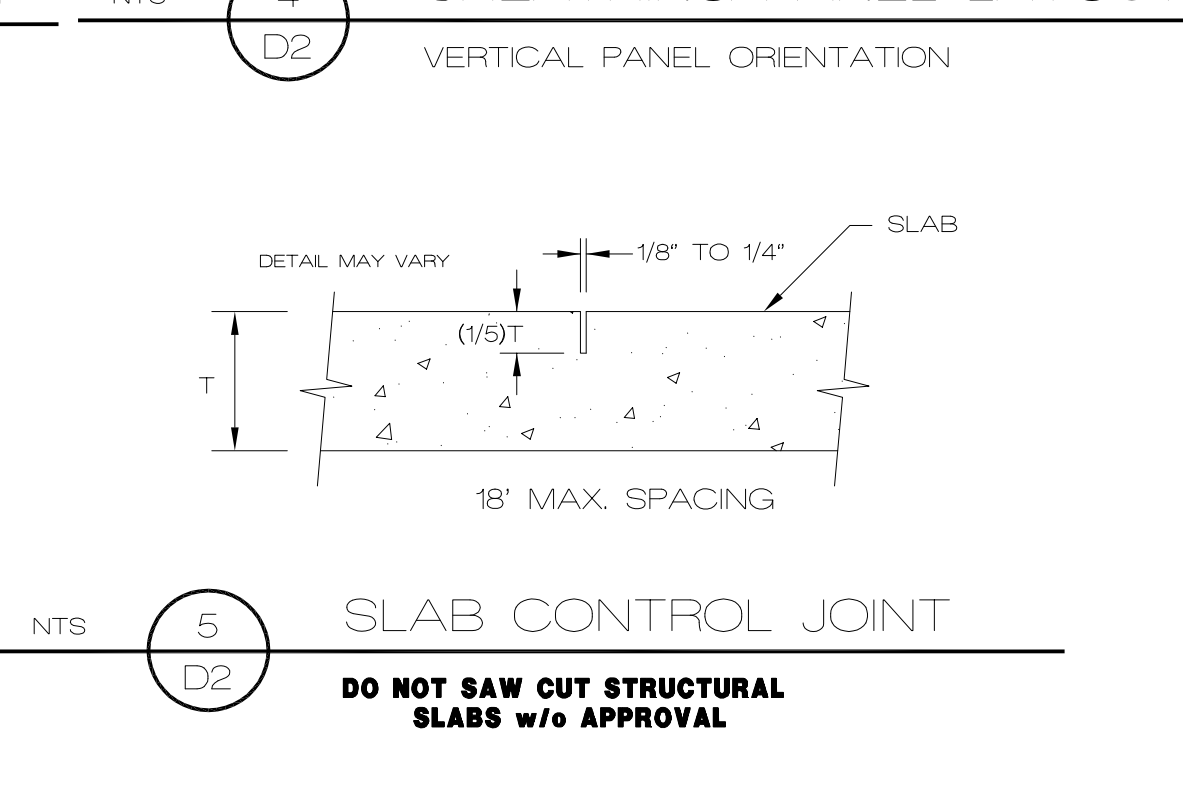
WP 3820 (Wall), FC 5517 or Equal (Floor/Ceiling)



WATERTIGHT WELL, 36" MIN. VERTICAL CLEARANCE (PRE-FAB WELL OPT. AS APPROVED BY CITY)



VERTICAL PANEL ORIENTATION



DO NOT SAW CUT STRUCTURAL SLABS w/o APPROVAL

**Ken Sidorowicz, PC**

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

ISSUE DATE  
REVISIONS

2018 DETAIL SHEET



1/21/21

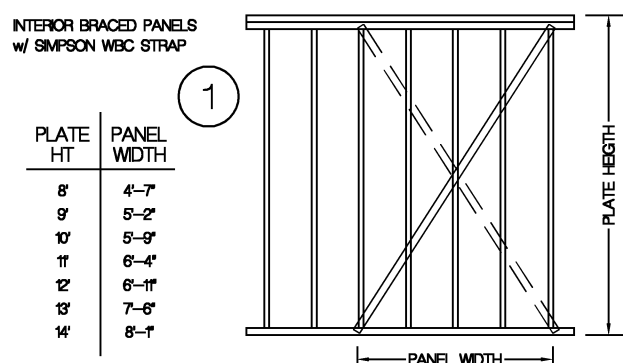
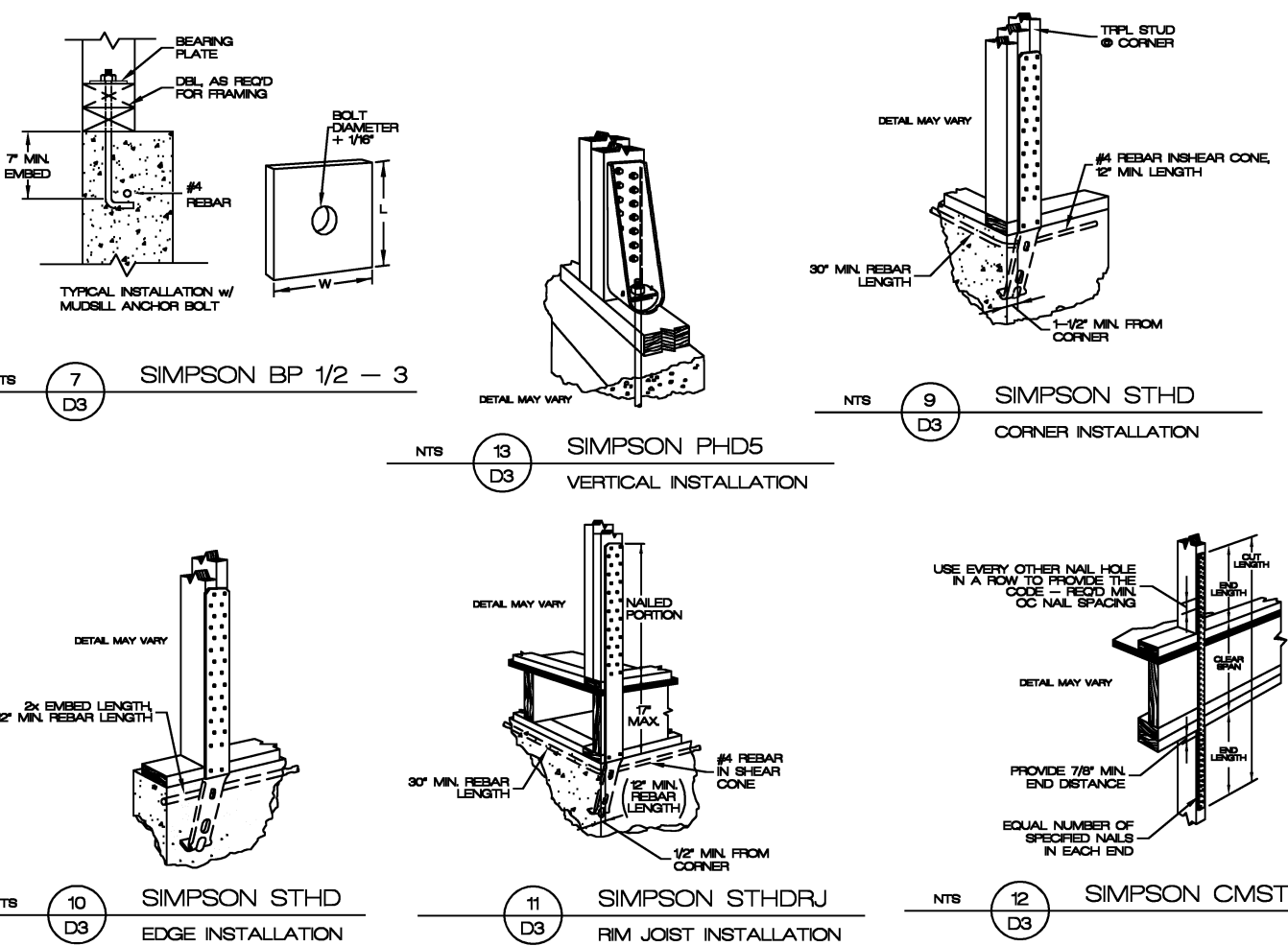
**D2**

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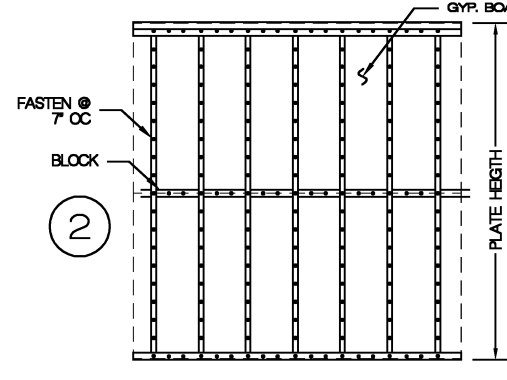
STAPLES NOT PERMITTED IN KCMO

FASTENER SCHEDULE FOR STRUCTURAL MEMBERS			
Item	Description of building elements	Number & type of fastener (notes to, a, d)	Spacing of fasteners
<b>Roof</b>			
1	Blocking between joists or rafters to top plate, toe nail	3-8d (2-1/2" x 0.131)	
2	Ceiling joists to plate, toe nail	3-8d (2-1/2" x 0.131)	
3	Ceiling joists not attached to parallel rafter, lap over partition, face nail	3-7d	
4	Collar tie rafter, face nail or 1-1/4" x 20 gal. ridge strap	3-10d (3" x 0.148)	
5	Rafter to plate, toe nail, note: trusses use BTG clips at N.E. walls and specify holdowns	3-8d or 3-10d (3-1/2" x 0.135, 0.148)	2' toe nail side, 1' toe nail side 2' note 3
6	Roof rafters to ridge, valley or hip rafters	4-10d (3-1/2" x 0.150)	
	Toe nail	3-8d (2-1/2" x 0.131)	
	Face nail		
<b>Wall</b>			
7	Build-up studs-face nail	10d (3" x 0.139)	24" o.c.
8	Building studs at intersecting wall corners, face nail	10d (3-1/2" x 0.139)	24" o.c.
9	Build-up header, two pieces w/ 1/2" spacer	10d (3-1/2" x 0.139)	16" o.c. along each edge
10	Continuous header, two pieces	10d (3-1/2" x 0.139)	16" o.c. along each edge
11	Continuous header to stud, toe nail	4-8d (2-1/2" x 0.131)	
12	Double studs, face nail	10d (3" x 0.139)	24" o.c.
13	Double top plates, face nail	10d (3" x 0.139)	24" o.c.
14	Double top plates, min. 16" offset of end joints, face nail in lap area	10d (3-1/2" x 0.139)	
15	Double studs, face nail	10d (3-1/2" x 0.139)	24" o.c.
16	Side plate to joist or blocking, face nail	10d (3-1/2" x 0.139)	16" o.c.
17	Side plate to joist or blocking at braced wall panels	3-8d (2-1/2" x 0.131)	16" o.c.
18	Stud to side plate, toe nail	3-8d (2-1/2" x 0.131) or 2-10d (3-1/2" x 0.139)	
19	Top or side plate to stud and nail	2-10d (3-1/2" x 0.139)	
20	Top plates, lap at corners and intersections, face nail	2-10d (3-1/2" x 0.139)	
21	2" brace to each stud and plate, face nail	2-8d (2-1/2" x 0.131)	
22	2" x 6" sheathing to each bearing, face nail	2-8d (2-1/2" x 0.131)	
23	2" x 6" sheathing to each bearing, face nail	2-8d (2-1/2" x 0.131)	
24	Wider than 2" x 6" sheathing to each bearing, face nail	3-8d (2-1/2" x 0.131)	
<b>Floor</b>			
25	Joist to sill or girder, toe nail	3-8d (2-1/2" x 0.131)	
26	Joist to top plate, toe nail (roof applications also)	8d (2-1/2" x 0.131)	
27	Joist to blocking to all plates, toe nail	8d (2-1/2" x 0.131)	
28	2" x 6" subfloor or joist to each joist, face nail	2-8d (2-1/2" x 0.131)	
29	2" subfloor to joist or girder, blind and face nail	2-8d (2-1/2" x 0.131)	
30	2" planks (sawn & beam - floor and roof)	2-8d (2-1/2" x 0.131)	
31	Build-up girders and beams, 2" lumber joists	10d (3" x 0.139)	
32	Ledger strip supporting joists or rafters	3-8d (2-1/2" x 0.131)	
<b>Spacing of Fasteners</b>			
Description of building materials		Description of fastener (notes to, a, d)	Edges (inches) (notes a, e)
Wood structural panels, subfloor, roof and interior wall sheathing to framing		8d common (2" x 0.119) nail (note 3)	12 (note a)
33 3/8" to 1/2"		8d common (2-1/2" x 0.131) nail (roof)	12 (note a)
34 1/2" to 1"		10d common (3" x 0.148) nail or 8d deformed (2-1/2" x 0.131) nail	12
<b>Other wall sheathing (note 3)</b>			
35 1/2" structural cellular fiberboard sheathing	1-1/2" galv. roofing nail, 7/16" crown or 7" crown staples 18 ga., 1-1/4" long	3	6
36 3/8" structural cellular fiberboard sheathing	1-3/4" galv. roofing nail, 7/16" crown or 7" crown staples 18 ga., 1-1/2" long	3	6
37 1/2" gypsum sheathing (note d)	1-1/2" galvanized roofing nail, staples galv. 1-1/2" long 1-1/4" screws, Type W or S 1-3/4" galvanized roofing nail, staples galv. 1-5/8" long 1-5/8" screws, Type W or S	7	7
<b>Wood structural panels, combination subfloor underlayment to framing</b>			
38 3/4" and less	8d deformed (2" x 0.119) nail or 8d common (2-1/2" x 0.131) nail	6	12
40 7/8" to 1"	8d common (2-1/2" x 0.131) nail or 10d common (3" x 0.148) nail or 8d deformed (2-1/2" x 0.131) nail	6	12
41 1-1/8" to 1-1/4"	10d common (3" x 0.148) nail or 8d deformed (2-1/2" x 0.131) nail	6	12

- For 8-1 inch = 254 mm, 1 foot = 3048 mm, 1 mile per hour = 0.447 m/s, 1 psi = 6896 kPa
- 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 0.082 inch (2.08 mm), 80 ksi (551 MPa) for shank diameter larger than 0.082 inch but not larger than 0.177 inch, and 100 ksi (689 MPa) for shank diameter of 0.177 inch or less.
  - Staples are 9 gauge wire and have a minimum 700-psi on diameter crown width.
  - 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-8-foot panels shall be spaced vertically.
  - Spacing of fasteners not treated in the table shall be verified w/ D3.
  - 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 within minimum 48-inch distance from gable end walls. If mean roof height is more than 25 feet, up to 36 feet maximum.
  - For regions having basic wind speed of 100 mph or less, nails for attaching wood structural panel sheathing to gable end wall framing shall be spaced 6 inches on center. When basic wind speed is greater than 100 mph, nails for attaching panel not 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.
  - Quarry sheathing shall conform to ASTM D58 and shall be installed in accordance with CSA S10. Reinforced sheathing shall conform to ASTM C 209.
  - Spacing of fasteners on floor sheathing panel edges applies to panel edges supported by framing members and at all floor perimeter walls. Spacing of fasteners on roof sheathing panel edges applies to panel edges supported by framing members and at all roof perimeter walls. 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.
  - Where a nail is fastened to an adjacent parallel 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.



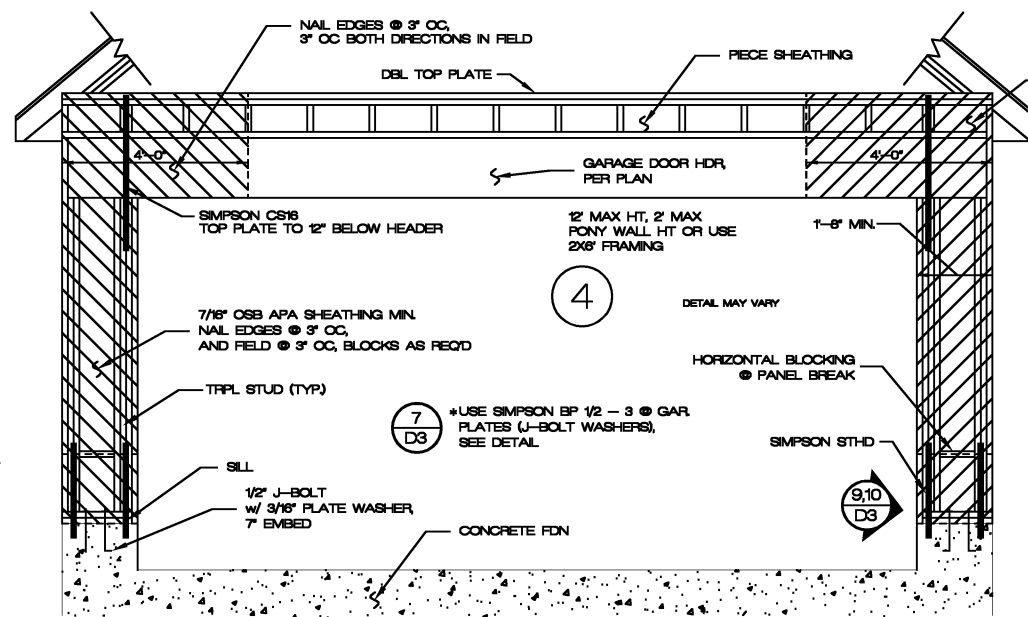
1 INT. BRACED WALL PANEL  
LIB, METAL STRAP ALT. TO  
LET IN 1 X 4



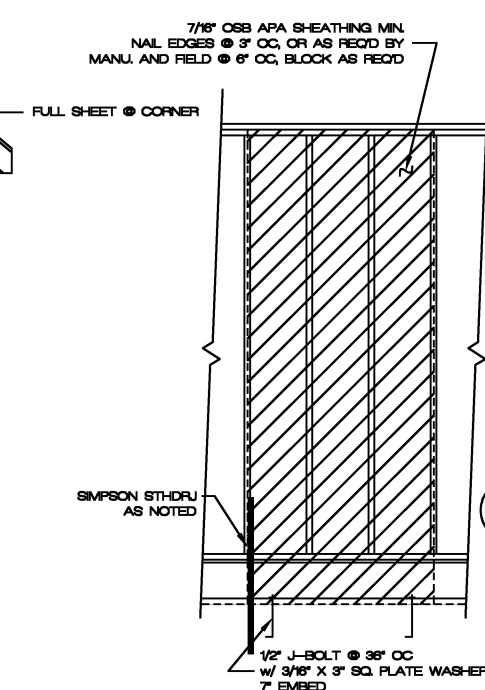
2 INT. BRACED WALL PANEL  
DRYWALL METHOD, GB

ALL METHODS		
NAIL TOP AND BOTTOM PLATES OF BP'S TO JOISTS ABOVE AND BELOW w/ 3 @ 16d @ 16" OC		
SHEAR WALL	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 GB	DRYWALL METHOD	1/2" MIN. GYPSUM BOARD OVER STUDS SPACED 24" OC MAXIMUM AND FASTENED AT 7" OC WITH 5d COOLER OR #6 BUGLE HEAD. HORIZONTAL JOINTS SHALL BE BLOCKED FOR ANCHORAGE.
3 WSP/CS-WSP	SHEATHING METHOD	7/16" STRUCTURAL SHEATHING OVER STUDS SPACED 16" OC w/ 8d COMMON NAILS AT 4" OC EDGE AND 12" FIELD. HORIZONTAL JOINTS SHALL BE BLOCKED FOR ANCHORAGE.
4 PFH	GARAGE DOOR PORTAL	6 TO 1 ASPECT RATIO, HEADER LENGTH AS SPECIFIED WITH FULL PANEL SHEATHING AT UPPER CORNERS CUTOFF FOR THE OPENING. BLOCKING AT HORIZONTAL JOINTS. NOTE FULL 4" WIDTH CUTOFF PANELS REQ'D AT CORNERS. STD100 & LSTA STRAPS
5	SINGLE STORY PORTAL	HEADER LENGTH AS SPECIFIED EXTENDED TO NEXT LAYOUT STUD, 18" MINIMUM WIDTH, 9" FULL PANEL SHEATHING REQ'D WITH CUTOFFS FOR OPENINGS. HORIZONTAL BLOCKING AT EDGES.
1/2" BOLT SPACING FOR SHEAR WALLS IS 3' OC WITH STRAPS AS NOTED.		

8 SHEAR WALL SCHEDULE

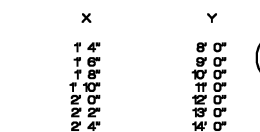


4 GARAGE DOOR  
PORTAL FRAME GARAGE

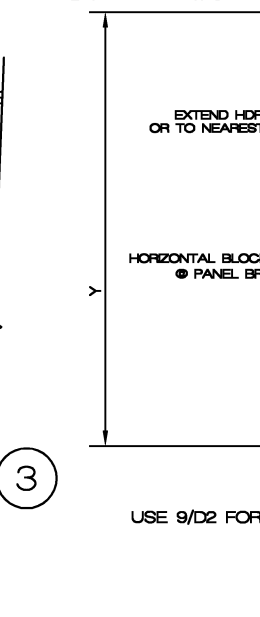


3 EXTERIOR BRACED WALL PANEL  
ABW

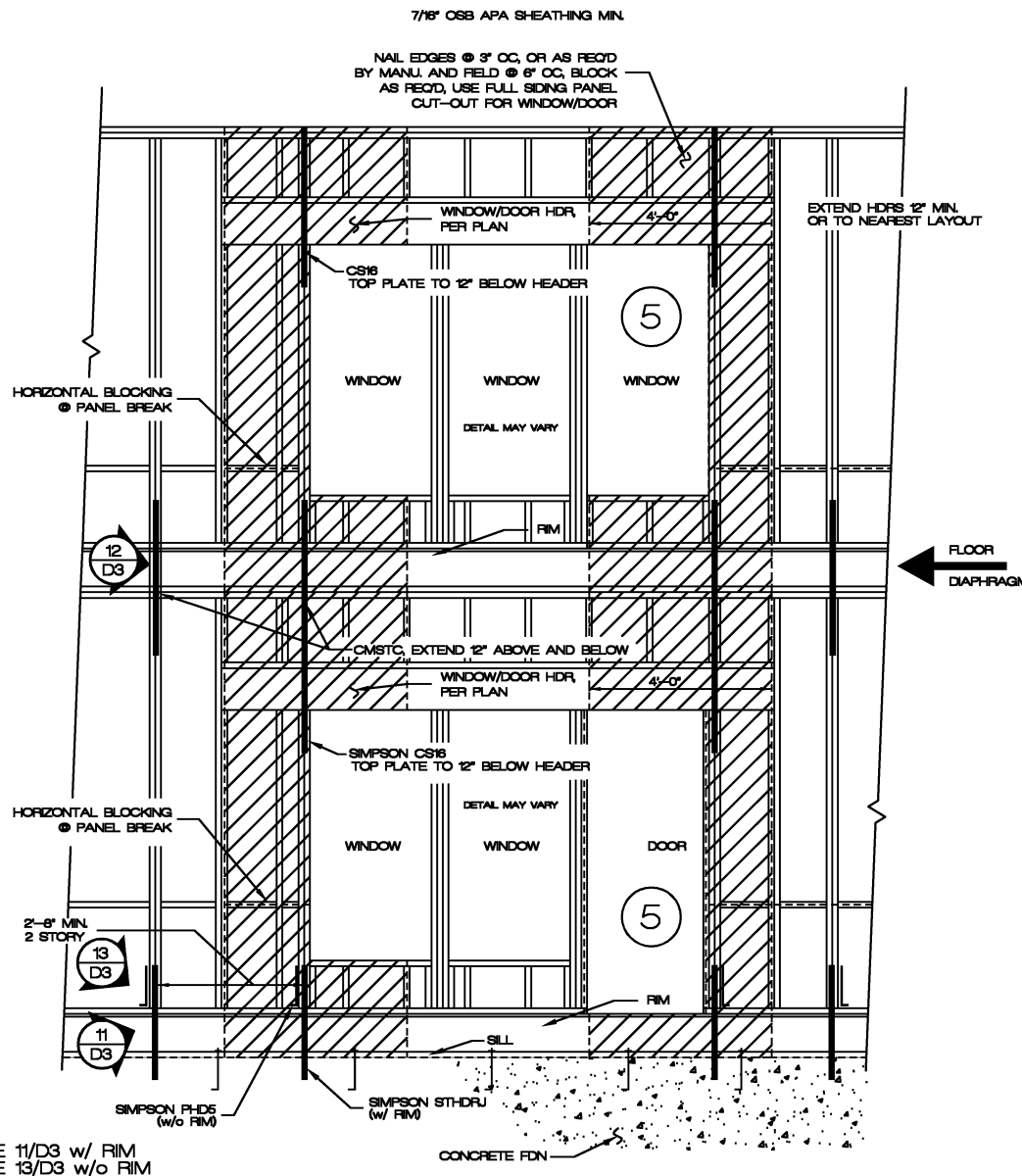
SINGLE STORY PORTAL



5



5 SINGLE STORY PORTAL  
CS- PF SINGLE STORY PORTAL



6 EXTERIOR BRACED WALL PANEL  
CS- PF MULTI STORY PORTAL

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

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ISSUE DATE  
REVISIONS

2018 DETAIL SHEET



1/21/21

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