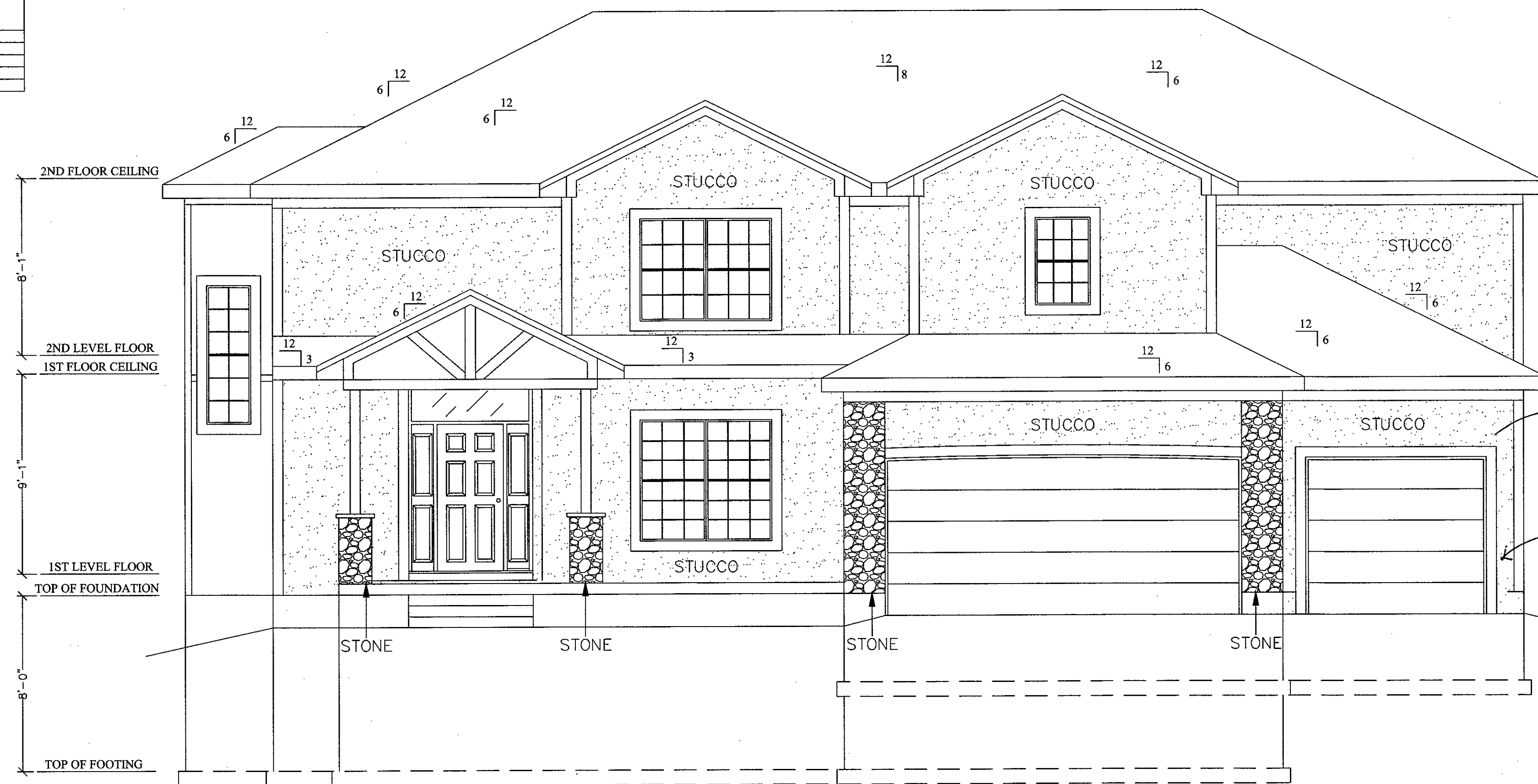


RESIDENTIAL AREA:		1173	
RESIDENTIAL, LIVING AREA		1173	
RESIDENTIAL, UN-FINISHED BASEMENTS		660	
RESIDENTIAL, GARAGE		1537	
RESIDENTIAL, LIVING AREA 2			
ROOFING MATERIAL	COMP	NUMBER OF BATHROOMS	3.5
NUMBER OF BEDROOMS	4	NUMBER OF STORIES	2
NUMBER OF LIVING UNITS	1	TOTAL LIVING AREA	2710
SEWER CONNECTION FEE			

COVERED PATIO 216^{sq}ft

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/18/2023 4:45:34



FRONT ELEVATION

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

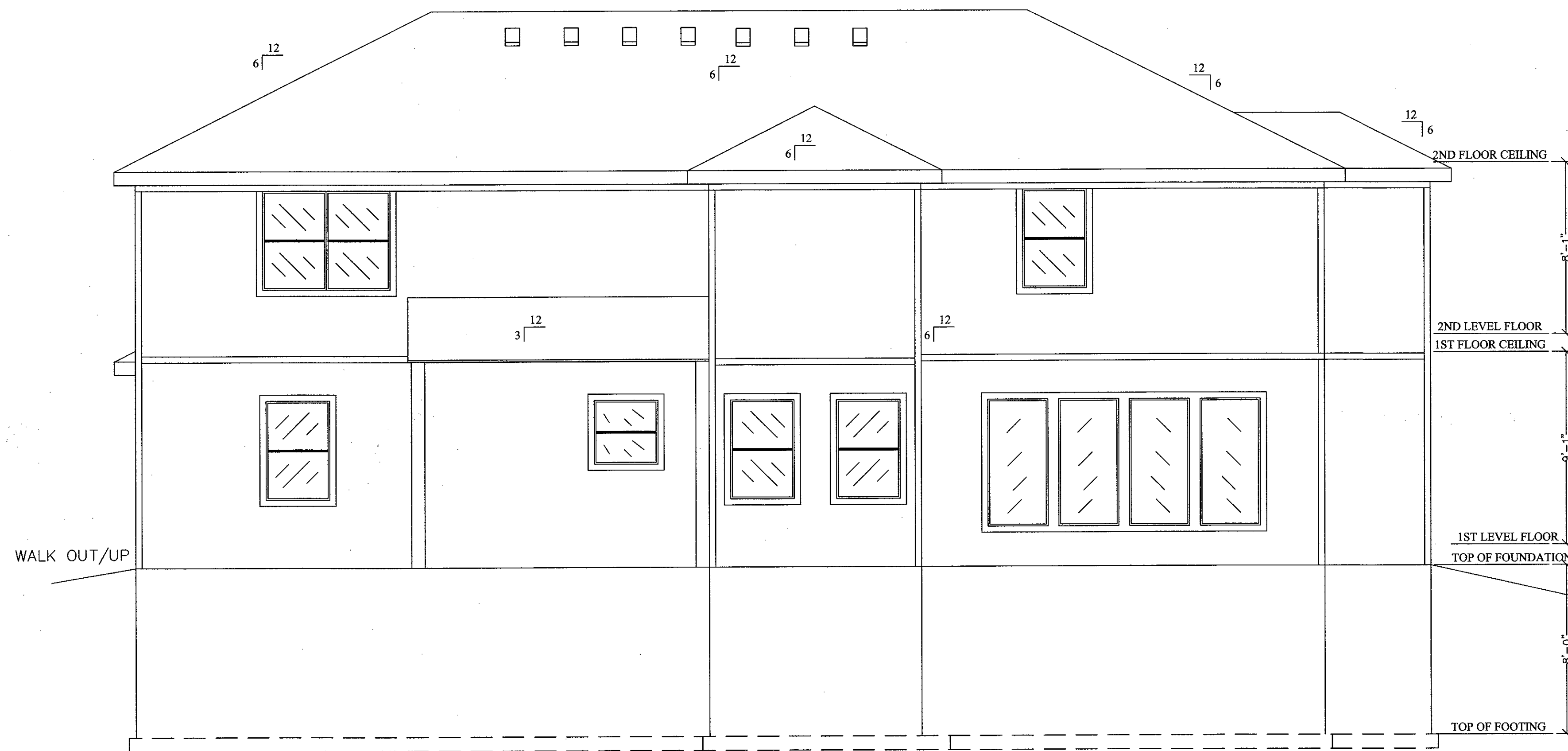
3 COAT STUCCO SYSTEM

VERIFY NAILING OF SHEATHING
BEFORE COVERING

SIDING NAILING
4/8 GUN NAILS
6/12 HAND DRIVES

COMP ROOF

ROOF & SOFFIT VENTS PER CODE



BACK ELEVATION

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

WALK OUT/UP

DESCRIPTION:

FRONT/REAR ELEVATIONS

MODEL:

BRANTLY B

DATE:

2/20/21

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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

3209 SW Saddlebred Ter.
Summit View Farms
Lot 113
Lee's Summit, MO

BUILD
SET

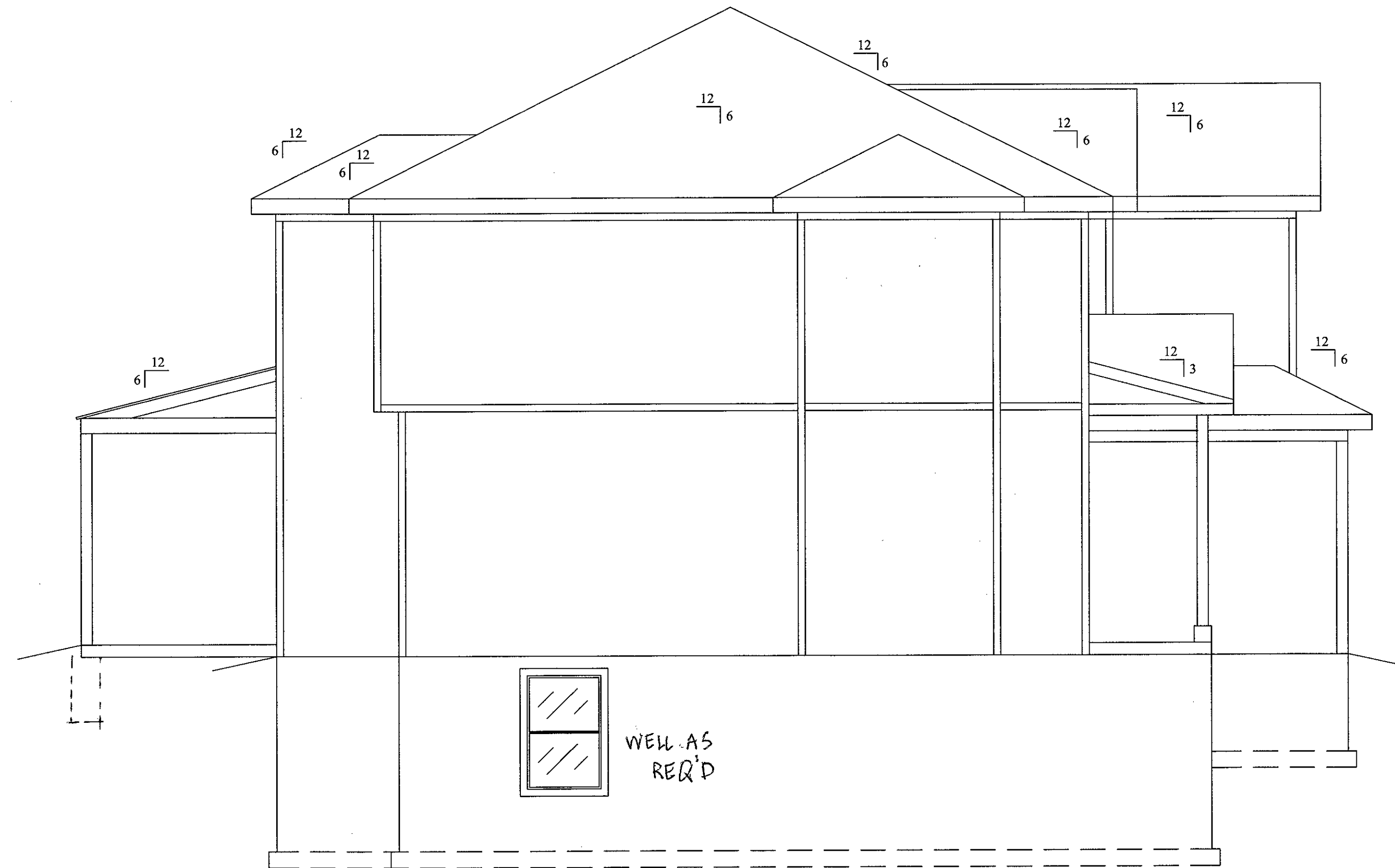
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3/12/22

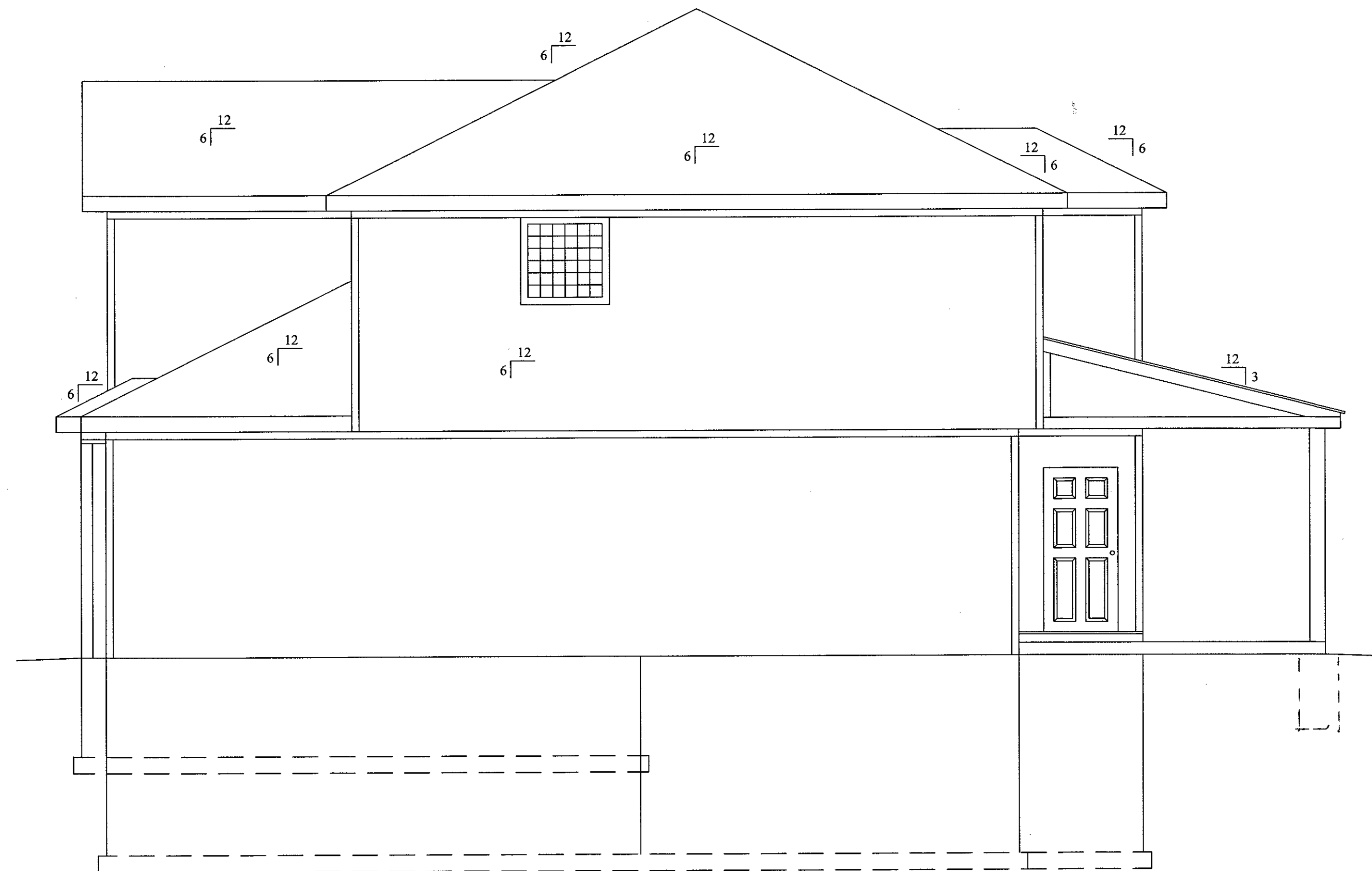
1 of 6

SHEET NO:



RIGHT ELEVATION

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



LEFT ELEVATION

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

DESCRIPTION:

LEFT / RIGHT ELEVATIONS

MODEL:

BRANTLY B

DATE:

2/20/21

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2 of 6

SHEET NO:

BRANTLY E

DATE:
2/20/21

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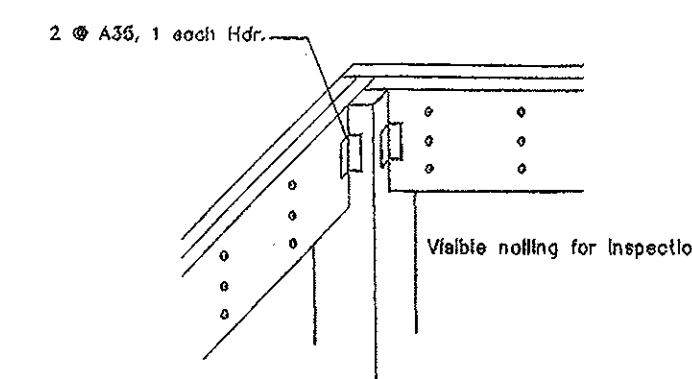
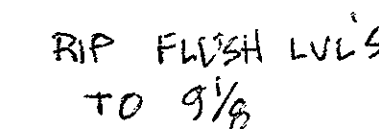
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3 of 6

SHEET NO:



OF/L MI

- (CS-WSP) HOUSE IS SHEATHED W/ 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 RII

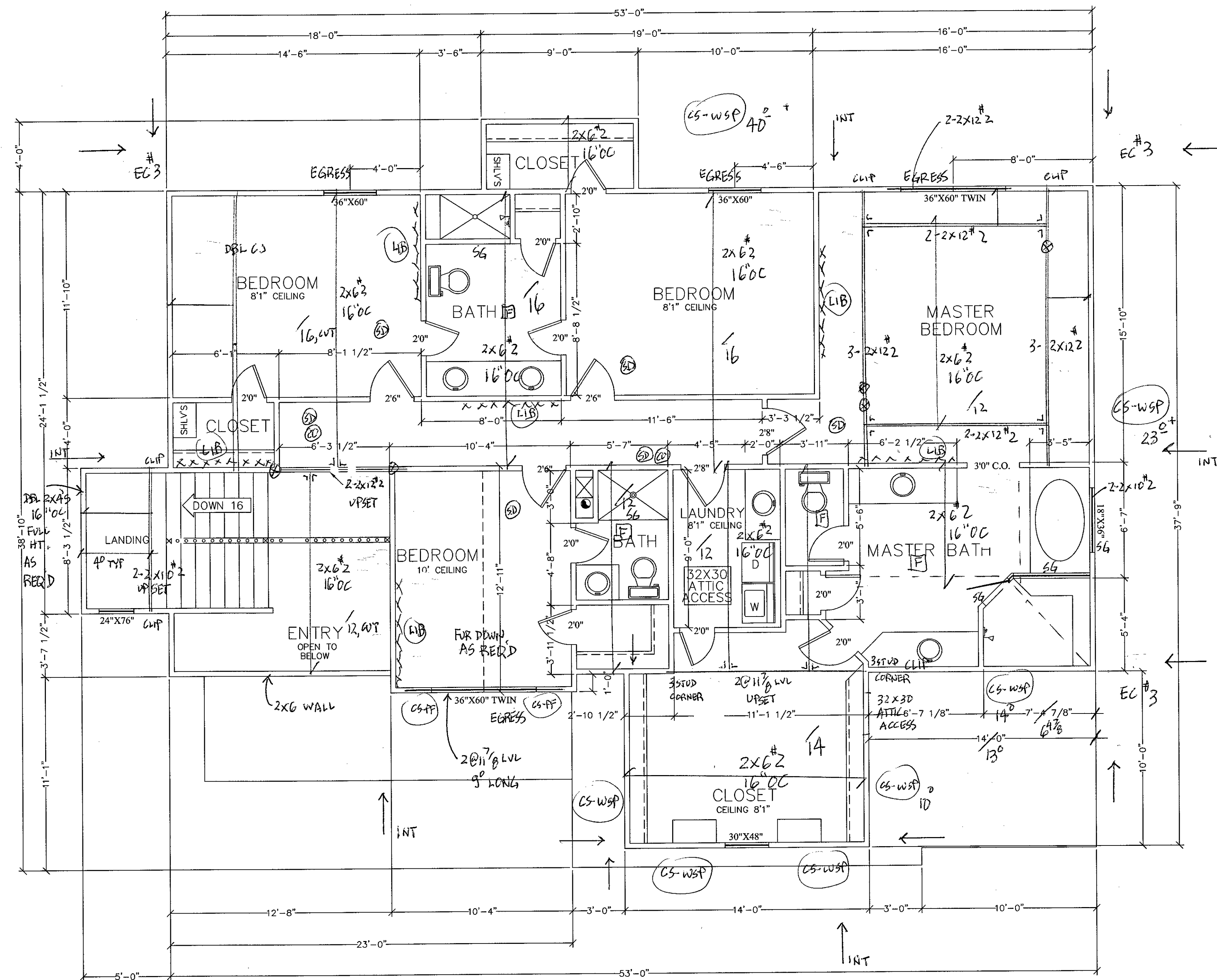
2x4, 9' PLATE, FULL HT. STUDS
S.C. = SELF CLOSING
D2 GN #25 FOR WINDOWS
CS = CONTINUOUSLY SHEATHED
EC = END CONDITION
SEE D2 FOR INSULATION VALUES
EC#5, 16" LONG CS16 STRAP,
CENTERED ON SUBFLOOR, FULL
4LI NAIL HOLES.

1ST SQUARE FEET = 1173
2ND SQUARE FEET = 1537

TOTAL SQUARE FEET = 2710

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





VERIFY VAULTS
W/ BLDR

2ND SQUARE FEET = 1537

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



DESCRIPTION:

SECOND FLOOR FRAMING
ROOF FRAMING PLAN

MODEL:

BRANTLY B

DATE:

2/20/21

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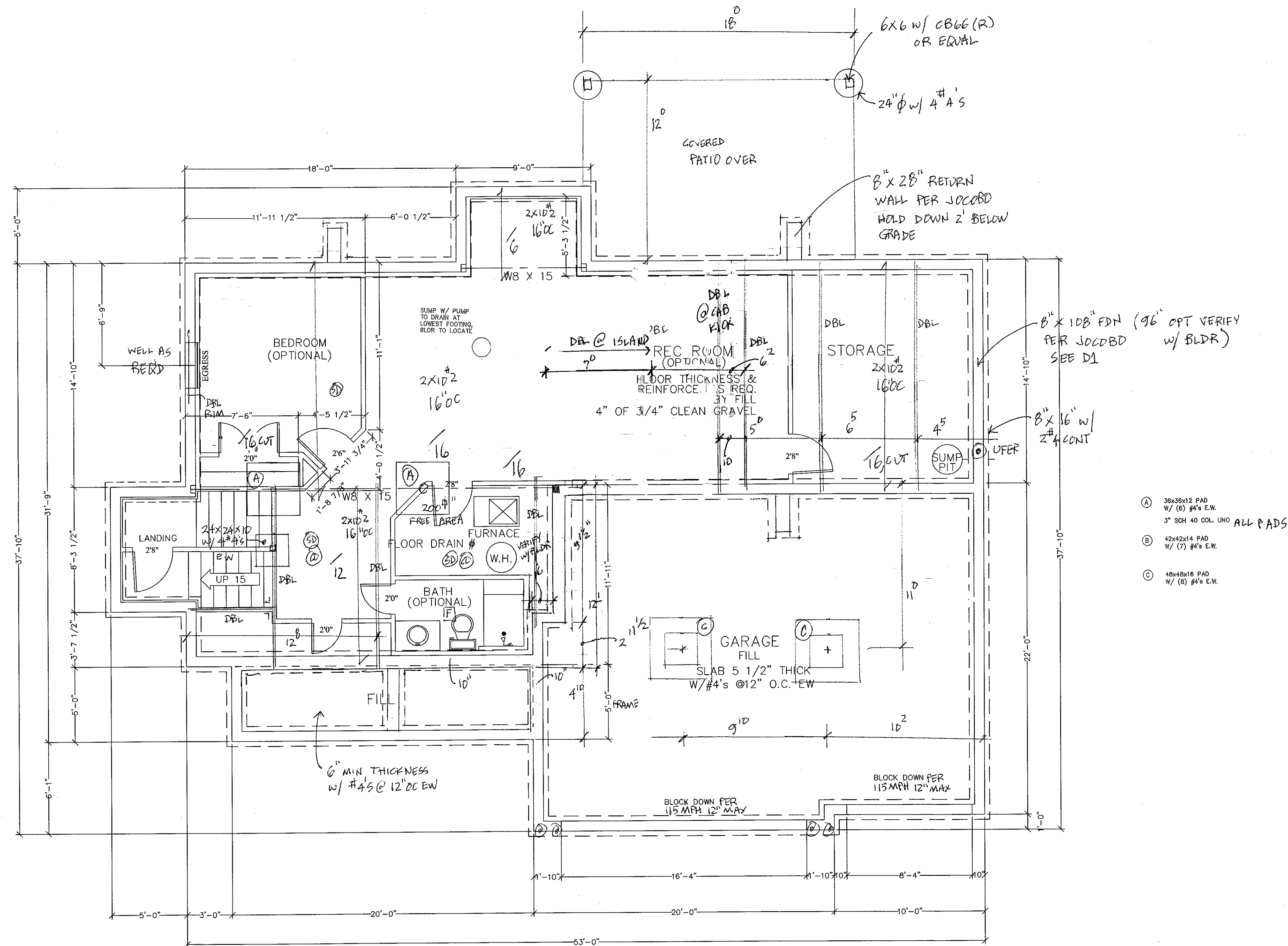
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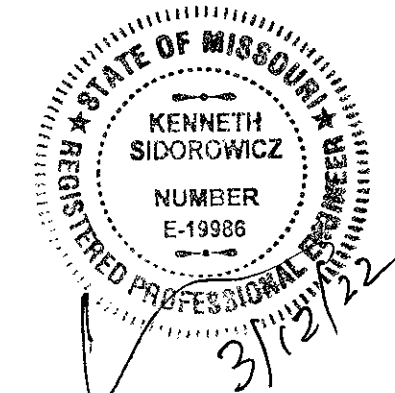
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4 of 6

SHEET NO:



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



DESCRIPTION:
FOUNDATION

MODEL:
BRANTLY B

DATE:
2/20/21

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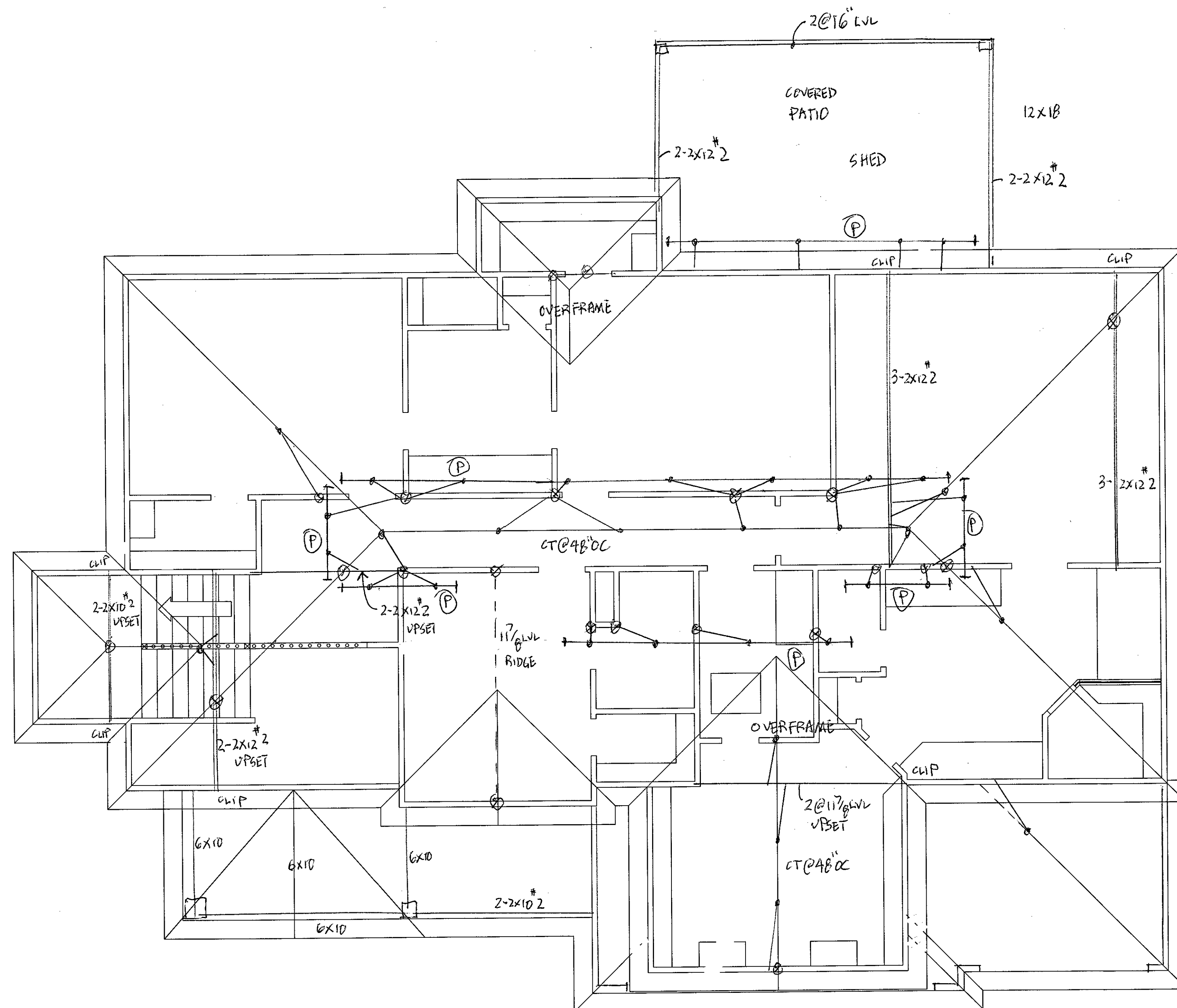
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5 of 6

SHEET NO:



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

ROOF
ASPHALT-BITUMENS - 2" MIN.
WOOD SHINGLE/RANGE - 1" MIN.
CONCRETE TILES - 3/8" MIN.
FLASH & COUNTER-ALL ROOF PENETRATIONS
AND INTERSECTIONS

RAPERS & CEILING JOINTS
CEILING JOINTS AT UPPER THIRD POINTS 48" OC & 2 x 4 MIN.
CEILING JOINTS ARE TURNED AS REQUIRED FOR MATERIAL

ROOF/HANGER HANDS AND STRAPS AS REQD
OUTGUTTER REQD @ GABLE END SOFFITS FOR
CAGE ROOF @ SOFFITS
OUTGUTTERS REQD @ GABLE END SOFFITS FOR TLE ROOF

ATTIC VENT
VENT EACH ENCLOSED ATTIC SPACE
ATTIC AREA CROWN - 1500" OF VENTED AREA

UNLESS NOTED
ROOF RAFTERS ARE 2 X 6 @ 16" OR 12" OC
MAX SPAN 12'-4"

PROVIDE VENTED LUM SUPPORT AT THE NOTED
LOFT POINTS FOR THE VALUERS, PURLINS & ROSES
LEFT-IN SUPPORT USED TO PURLINS
ALL THE VALUERS & ROSES BE USED FOR
THE RAFTER DEPTH, RICH AND DRAIN

ALL 2x6 UNL

PURCH	COMP	TITLE
	LEAD CO	LEAD CO
2 X 6	4-0	--
2 X 8	0-0	0-0
2 X 10	0-0	--
2 X 12	0-0	0-0

SUPPORT LEG		COMP	FILE
		MAX. LENGTH	MAX. LENGTH
2 X 4	2 X 4 T-BRACE	0'-0"	7'-0"
2 X 6	2 X 4 T-BRACE	0'-0"	8'-0"
2 X 6	2 X 6 T-BRACE	7'-0"	10'-0"
2 X 6	2 X 4 T-BRACE	0'-10"	8'-0"
2 X 6	2 X 0 T-BRACE	0'-0"	8'-0"

HEEL JOINT CONNECTION FACTOR

H_0/H_R	
1/3	15
1/2	183
1/5	125
1/6	12
1/10 OR LESS	11

H_0 = HEIGHT OF CEILING JOISTS OR RAFTER TEE MEASURED VERTICALLY ABOVE THE TOP OF RAFTER SUPPORT WA"
 H_R = HEIGHT OF ROOF RIDGE MEASURED VERTICALLY ABOVE THE TOP OF THE RAFTER SUPPORT WA"

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

STATE OF MISSOURI
KENNETH SIDOROWICZ
NUMBER
E-19988
REGISTERED PROFESSIONAL ENGINEER
3/12/22

DESCRIPTION:	FIRST FLOOR
1. 1st Floor	1. 1st Floor
2. 2nd Floor	2. 2nd Floor
3. 3rd Floor	3. 3rd Floor
4. 4th Floor	4. 4th Floor
5. 5th Floor	5. 5th Floor
6. 6th Floor	6. 6th Floor
7. 7th Floor	7. 7th Floor
8. 8th Floor	8. 8th Floor
9. 9th Floor	9. 9th Floor
10. 10th Floor	10. 10th Floor
11. 11th Floor	11. 11th Floor
12. 12th Floor	12. 12th Floor
13. 13th Floor	13. 13th Floor
14. 14th Floor	14. 14th Floor
15. 15th Floor	15. 15th Floor
16. 16th Floor	16. 16th Floor
17. 17th Floor	17. 17th Floor
18. 18th Floor	18. 18th Floor
19. 19th Floor	19. 19th Floor
20. 20th Floor	20. 20th Floor
21. 21st Floor	21. 21st Floor
22. 22nd Floor	22. 22nd Floor
23. 23rd Floor	23. 23rd Floor
24. 24th Floor	24. 24th Floor
25. 25th Floor	25. 25th Floor
26. 26th Floor	26. 26th Floor
27. 27th Floor	27. 27th Floor
28. 28th Floor	28. 28th Floor
29. 29th Floor	29. 29th Floor
30. 30th Floor	30. 30th Floor
31. 31st Floor	31. 31st Floor
32. 32nd Floor	32. 32nd Floor
33. 33rd Floor	33. 33rd Floor
34. 34th Floor	34. 34th Floor
35. 35th Floor	35. 35th Floor
36. 36th Floor	36. 36th Floor
37. 37th Floor	37. 37th Floor
38. 38th Floor	38. 38th Floor
39. 39th Floor	39. 39th Floor
40. 40th Floor	40. 40th Floor
41. 41st Floor	41. 41st Floor
42. 42nd Floor	42. 42nd Floor
43. 43rd Floor	43. 43rd Floor
44. 44th Floor	44. 44th Floor
45. 45th Floor	45. 45th Floor
46. 46th Floor	46. 46th Floor
47. 47th Floor	47. 47th Floor
48. 48th Floor	48. 48th Floor
49. 49th Floor	49. 49th Floor
50. 50th Floor	50. 50th Floor
51. 51st Floor	51. 51st Floor
52. 52nd Floor	52. 52nd Floor
53. 53rd Floor	53. 53rd Floor
54. 54th Floor	54. 54th Floor
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56. 56th Floor	56. 56th Floor
57. 57th Floor	57. 57th Floor
58. 58th Floor	58. 58th Floor
59. 59th Floor	59. 59th Floor
60. 60th Floor	60. 60th Floor
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71. 71st Floor	71. 71st Floor
72. 72nd Floor	72. 72nd Floor
73. 73rd Floor	73. 73rd Floor
74. 74th Floor	74. 74th Floor
75. 75th Floor	75. 75th Floor
76. 76th Floor	76. 76th Floor
77. 77th Floor	77. 77th Floor
78. 78th Floor	78. 78th Floor
79. 79th Floor	79. 79th Floor
80. 80th Floor	80. 80th Floor
81. 81st Floor	81. 81st Floor
82. 82nd Floor	82. 82nd Floor
83. 83rd Floor	83. 83rd Floor
84. 84th Floor	84. 84th Floor
85. 85th Floor	85. 85th Floor
86. 86th Floor	86. 86th Floor
87. 87th Floor	87. 87th Floor
88. 88th Floor	88. 88th Floor
89. 89th Floor	89. 89th Floor
90. 90th Floor	90. 90th Floor
91. 91st Floor	91. 91st Floor
92. 92nd Floor	92. 92nd Floor
93. 93rd Floor	93. 93rd Floor
94. 94th Floor	94. 94th Floor
95. 95th Floor	95. 95th Floor
96. 96th Floor	96. 96th Floor
97. 97th Floor	97. 97th Floor
98. 98th Floor	98. 98th Floor
99. 99th Floor	99. 99th Floor
100. 100th Floor	100. 100th Floor

MODEL:
BRANTLY B
DATE:
2/20/21

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Lot 113
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BUILD
SET

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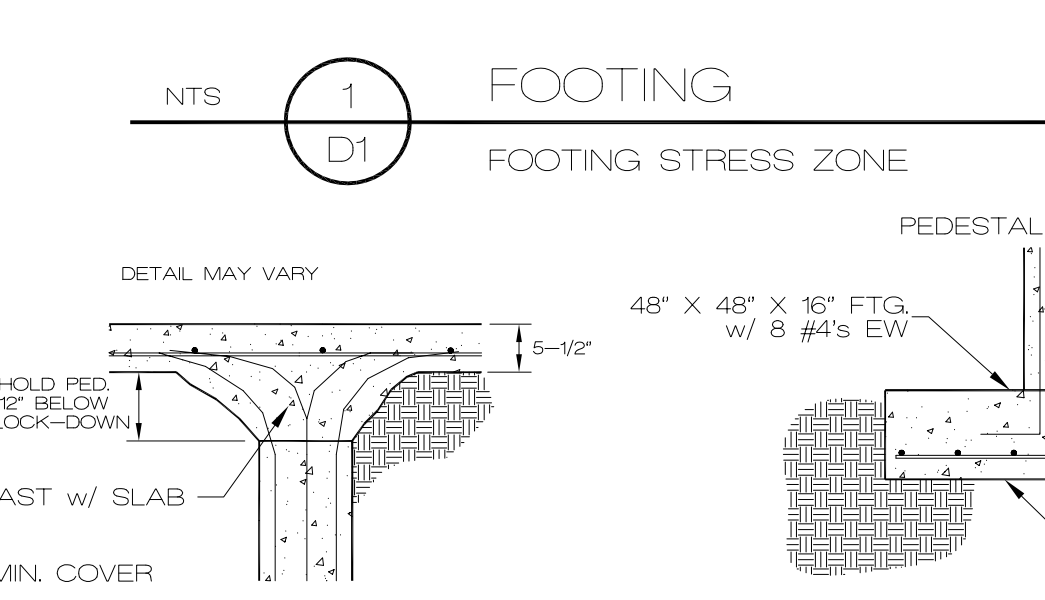
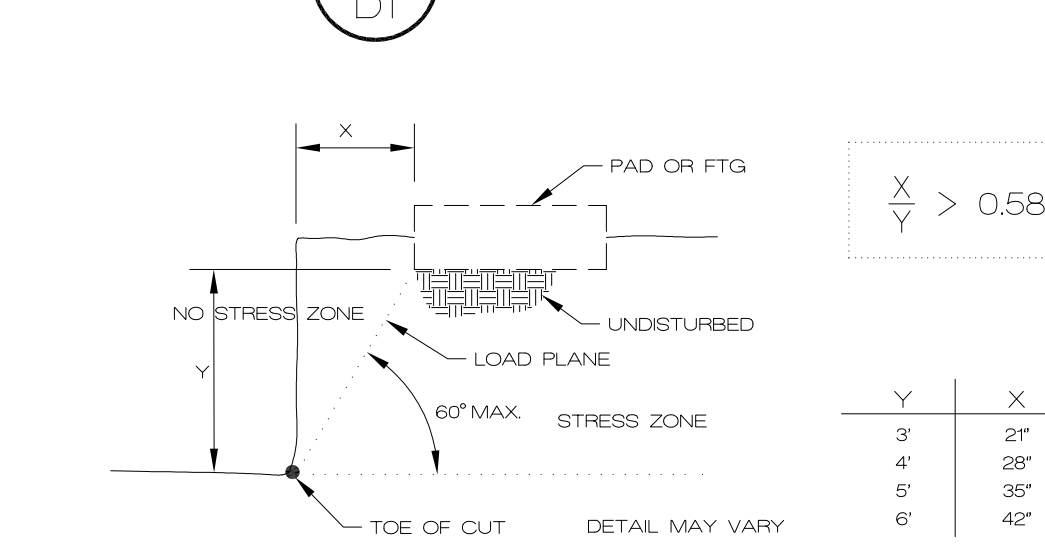
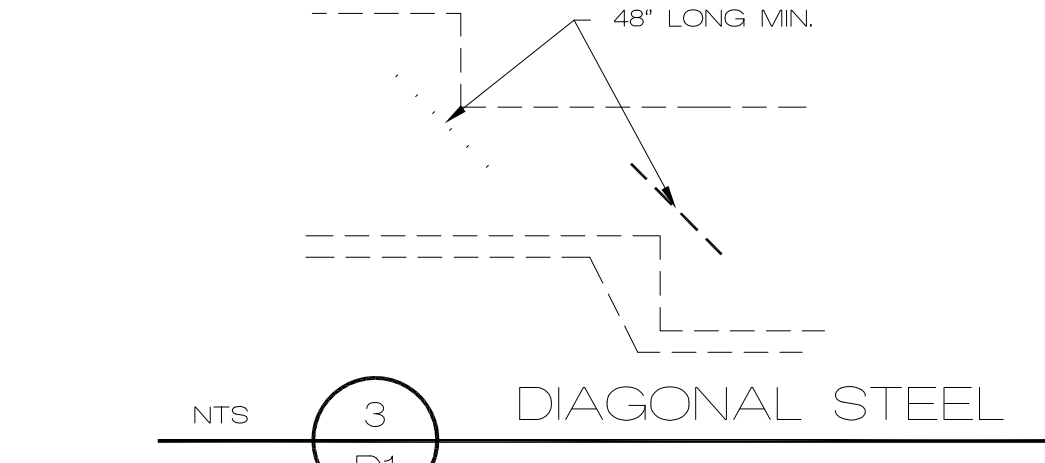
SHEET NO:

DIVISION 1 – GENERAL REQUIREMENTS

- DESIGN AND CONSTRUCTION WORK FOR THIS PROJECT SHALL CONFORM TO THE REQUIREMENTS OF THE 2018 IRC.
- FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE THE WORK AS SHOWN OR INFERRED BY THE DRAWINGS.
- DESIGN FACTORS:
 - GROUND SNOW LOAD (INCLUDING DRIFTING SNOW) 20 PSF
 - WIND SPEED (EXPOSURE B) 115 MPH
 - SEISMIC CATEGORY (A), GROUND ACCELERATION = NA
- DESIGN LOADS (PSF, UNLESS NOTED OTHERWISE):
 - ROOF (LL/DL) SEE TABLE
 - FLOOR (LL/DL) SEE TABLE
 - CEILING (LL/DL) SEE TABLE. (0/10 TRUSSES)
- DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, OBTAIN CLARIFICATION FROM A / E BEFORE CONTINUING CONSTRUCTION.
- 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 PROFESSIONAL BEFORE PROCEEDING WITH THE WORK.
- 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 DIMENSIONS RATHER THAN ACTUAL DIMENSIONS.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL TRADES EVEN IF THE TRADE IS UNDER A SEPARATE CONTRACT.
- PROVIDE SUFFICIENT STUDS AND BLOCKING WHERE REQUIRED TO SUPPORT EQUIPMENT AND/OR MISCELLANEOUS ITEMS, IE, LOAD POINTS, TYPICAL CASEWORK, CABINETS, GRAB BARS ETC.
- PRETREAT FOUNDATION FOR TERMITES AS REQUIRED.
- GARAGE DOORS AND FRAMES SHALL BE DESIGNED AND INSTALLED TO MEET THE 115 MPH WIND LOAD RESISTANCE REQUIREMENTS OF DASHMA 108 AND ASTM E 330.
- 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 THE CONSTRUCTION TAKES PLACE.

DIVISION 2 – EARTHWORK

- ALL PROPERTY MARKERS SHALL BE EXPOSED.
- ALL FOOTINGS ARE DESIGNED TO BEAR ON NATURAL UNDISTURBED SOIL CAPABLE OF ADEQUATELY SUSTAINING A MINIMUM BEARING PRESSURE OF 1500 PSF. IF SUITABLE UNDISTURBED BEARING CAPACITY IS NOT ENCOUNTERED AT THE ELEVATION INDICATED ON THE DRAWINGS, CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY.
- ALL TOPSOIL, ORGANIC MATERIAL, AND EXISTING STRUCTURES SHALL BE REMOVED FROM BUILDING AREA AND FROM AREAS TO BE PAVED. STOCKPILE ALL TOPSOIL FOR REUSE.
- REFERENCE THE SOILS REPORT FOR ALL FILL CONDITIONS.
- OVEREXCAVATE BUILDING AREA BELOW SLAB SUBGRADE ELEVATION AND REPLACE WITH MATERIAL PER SOILS REPORT, VERIFY.
- SITE EROSION CONTROL SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES.
- IN-SITU SOIL CONDITIONS, SEE SOILS REPORT OR 1500 PSF BEARING & 60 PCF EQUIVALENT FLUID WEIGHT.
- SOIL CONDITIONS AT THE DEPTH OF EXCAVATION FOR THE FOOTING SHALL BE UNIFORM AND CONSISTENT. NOTIFY THE ENGINEER OF RECORD OF ANY INCONSISTENCIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DISPOSING OF ANY EXCESS EXCAVATION MATERIALS AND FOR OBTAINING AND SUPPLYING ADDITIONAL FILL MATERIAL AS REQUIRED.



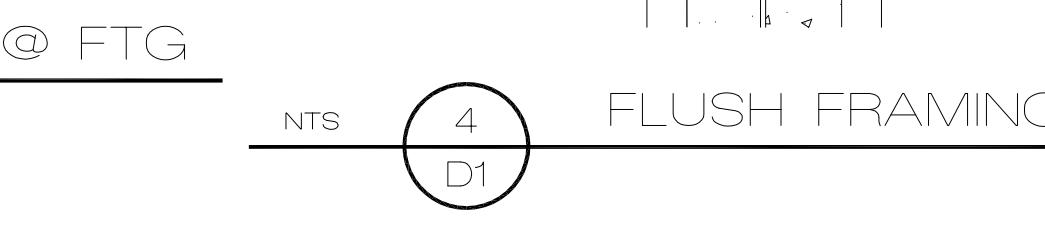
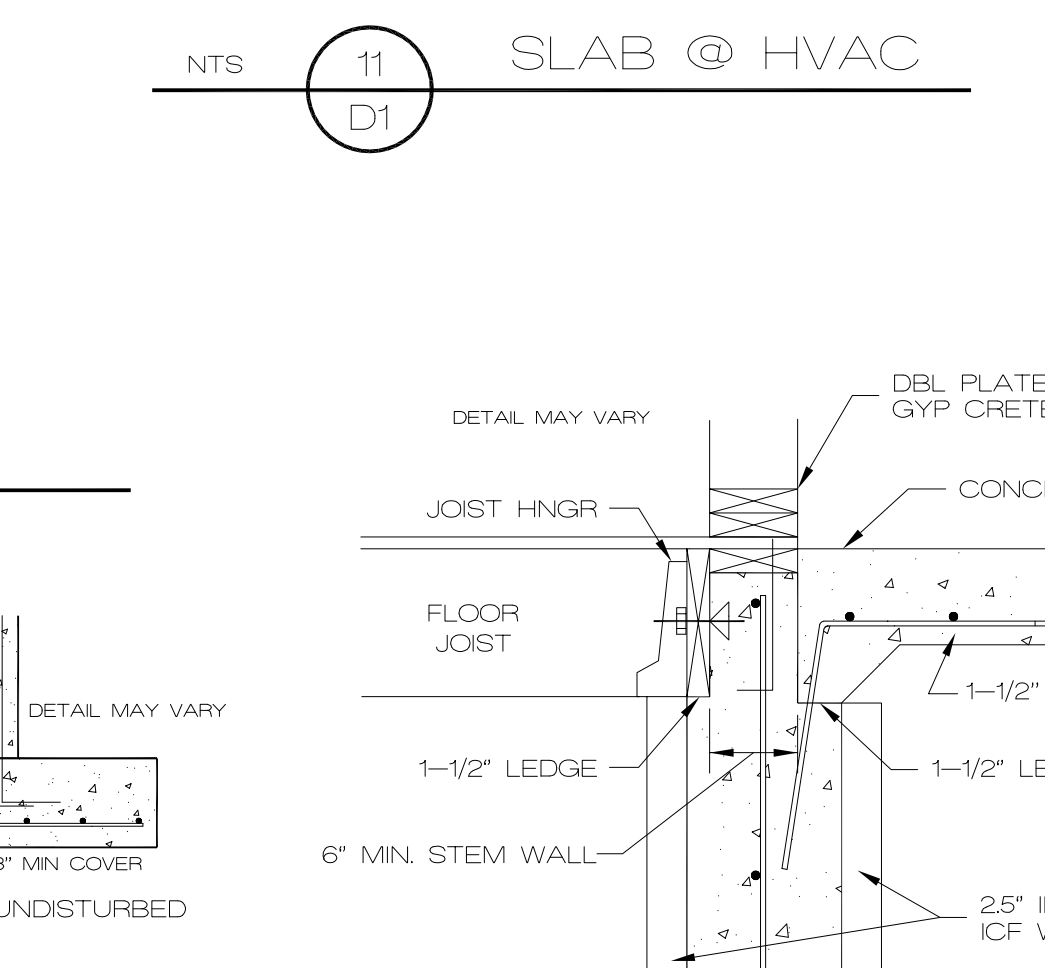
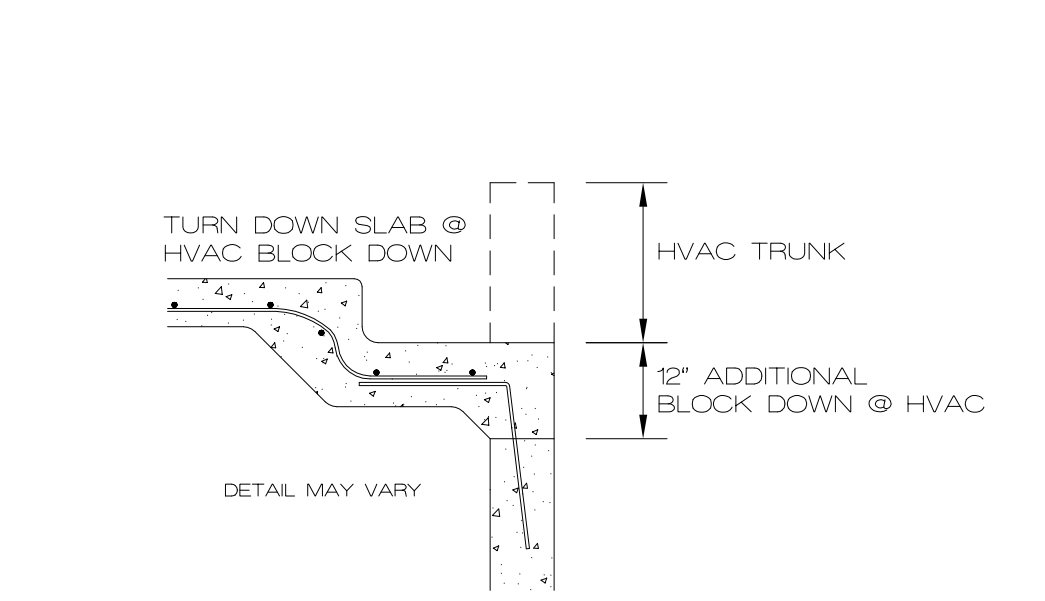
DIVISION 3 – CONCRETE

- ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 308 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND ACI 332 REQUIREMENTS FOR RESIDENTIAL CONCRETE CONSTRUCTION.
 - CEMENT = ASTM C 150 TYPE 1
 - AGGREGATE – ASTM C 33, MAXIMUM AGGREGATE SIZE ¾"
 - WATER – POTABLE, WATER/CEMENT RATIO 5 (MAX)
 - AIR-ENTRAINING ADMIXTURE – ASTM C 260
 - WATER-REDUCING ADMIXTURE – ASTM C 494, INCLUDING SUPERPLASTICIZERS
 - FLY ASH – ASTM C 618, CLASS C
- CONCRETE SHALL DEVELOP THE FOLLOWING MINIMUM 28 DAY DESIGN COMPRESSIVE STRENGTH (f'_c):
 - TYPE OF CONSTRUCTION
 - COMP. STRENGTH (f'_c)

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.

- PROPORTION AND DESIGN MIXES TO RESULT IN CONCRETE SLUMP AT A POINT OF PLACEMENT OF NOT MORE THAN 4" TO 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.
- ALL PLUMBING AND ELECTRICAL ROUGH-INS MUST BE COMPLETE, INSPECTED AND APPROVED BEFORE REQUESTING THE SLAB INSPECTION.
- CONCRETE WORK EXECUTION:
 - MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE, UNLESS NOTED OTHERWISE ON DRAWINGS:
 - CAST AGAINST AND EXPOSED TO EARTH 3"
 - EXPOSED TO EARTH OR WEATHER 2"
 - NOT EXPOSED TO EARTH OR WEATHER 1 ½"
 - IN CORNERS OF GRADE BEAMS PROVIDE CORNER REINFORCEMENT, LAP TWO FEET EACH DIRECTION IN OUTSIDE FACE, MATCHING SIZE AND SPACING OF HORIZONTAL REINFORCEMENT.
 - PROVIDE CONTROL JOINTS IN SLABS-ON-GRADE AT NOT GREATER THAN 20 FEET ON CENTER IN EACH DIRECTION. SAW CUT CONTROL JOINTS MINIMUM ¼ OF THE SLAB DEPTH, AS SOON AFTER SLAB FINISHING AS POSSIBLE WITHOUT DISLODGING AGGREGATE. (DO NOT SAW CUT STRUCTURAL SLABS w/o APPROVAL).
- 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 REJECTED.
- 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).
- PUMPS SHALL NOT BE PRIMED IN FORMS.

- REINFORCEMENT:
 - ALL REINFORCING BARS SHALL BE A615, GR40 MIN. LAP SPLICES 18" MIN FOR #4 BAR SEE TABLE
 - WELDED WIRE FABRIC SHALL BE ASTM A185, LAP AT LEAST ONE FULL MESH AND LACE SPLICES WITH WIRE
 - 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.
 - TIE STEEL TO PREVENT DISPLACEMENT. HOOK AND TIE STEEL AS POSSIBLE. TIES, CHAIRS, OR OTHER PRODUCTS SHALL BE PROTECTED WHEN LOCATED NEAR EXPOSED SURFACES.
 - STEEL SHALL BE STORED ON SITE ABOVE GRADE, AND COVERED AS REQUIRED FOR PROTECTION FROM RAIN AND OTHER POSSIBLE DAMAGE.
- ADJUST FOUNDATION FOR SITE AND SOIL CONDITIONS AND VERIFY WITH EOR.



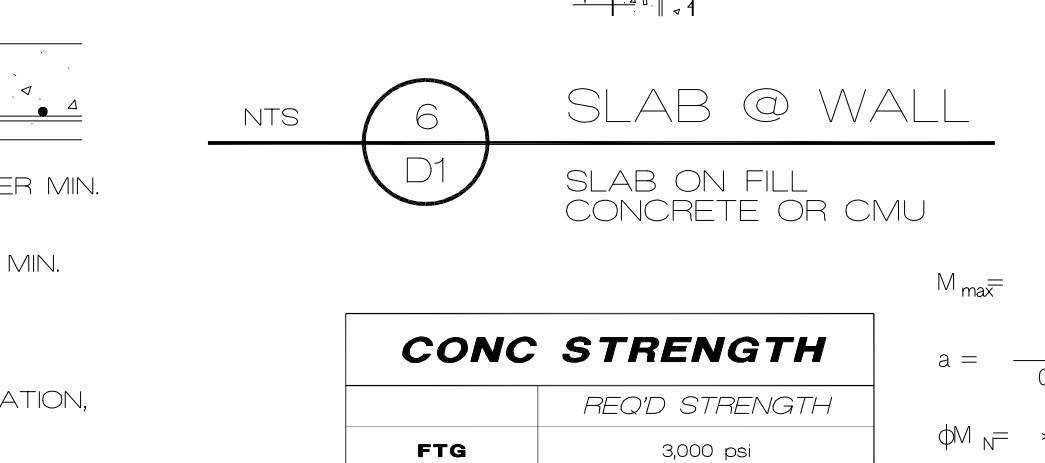
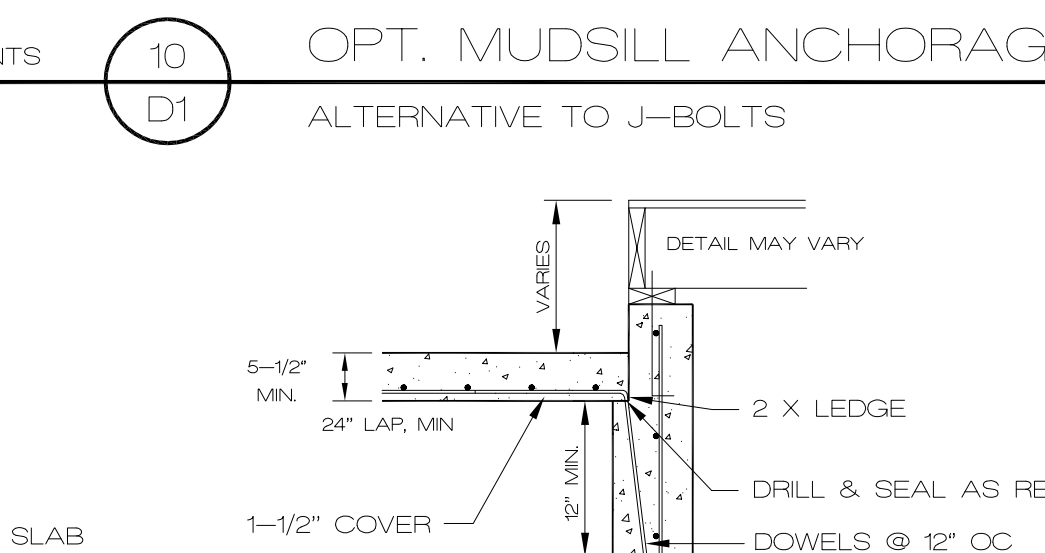
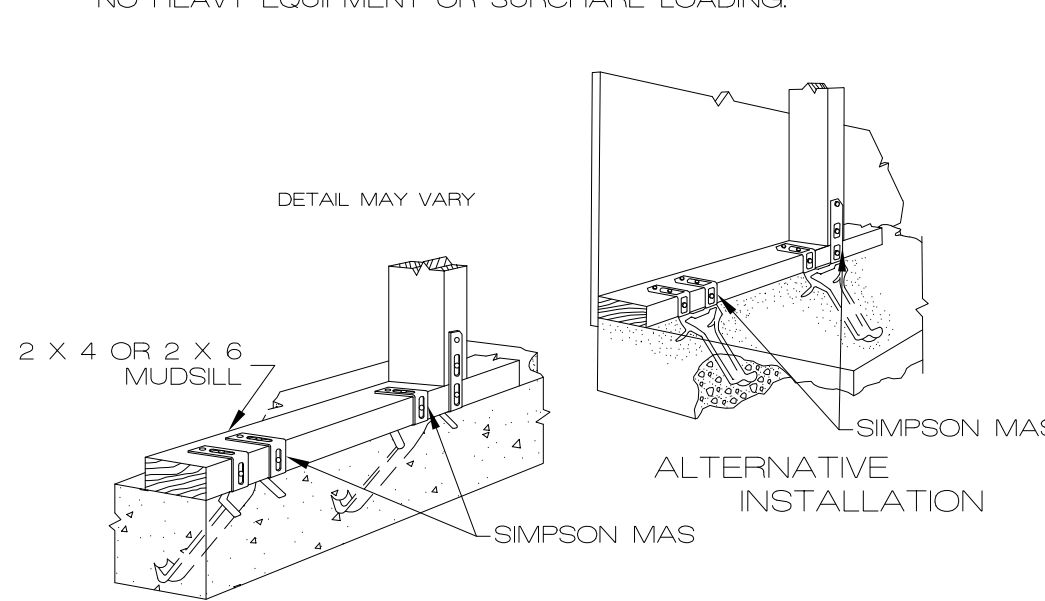
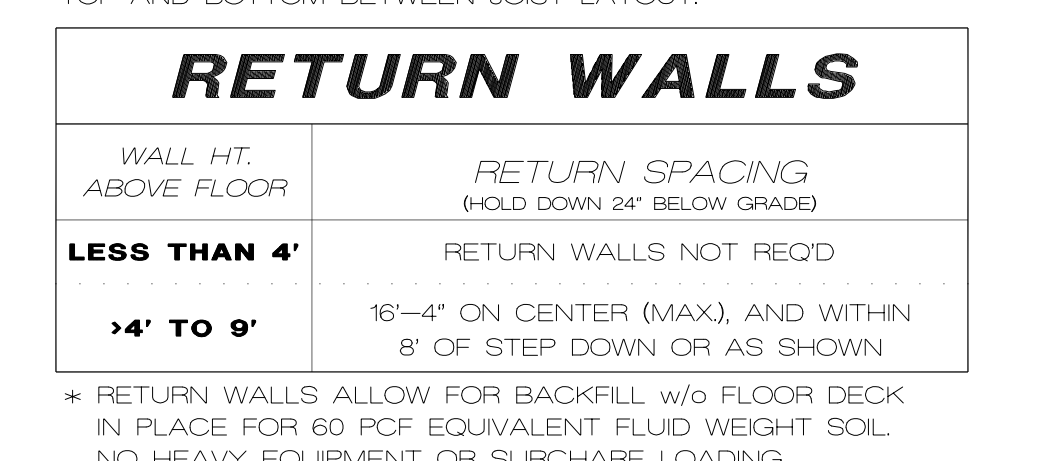
DIVISION 4 – MASONRY

- 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)	1500
BLOCK STRENGTH	1900
MORTAR STRENGTH	800
GROUT STRENGTH	2000
- CONCRETE BLOCK SHALL BE HOLLOW LOAD-BEARING CONCRETE CONFORMING TO ASTM C 90, TYPE N-III. ALL BLOCKS SHALL BE PLACED IN RUNNING BOND CONSTRUCTION (UNLESS OTHERWISE NOTED) WITH ALL VERTICAL CELLS IN ALIGNMENT.
- 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.
- 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 1-½" BELOW TOP OF BLOCK AT GROUT LIFT JOINTS AND AT CONCRETE PLACED OVER MASONRY.
- MINIMUM INTEL, WHERE NOT ON PLANS, SHALL HAVE A MINIMUM OF 2 – #5s CONTINUOUS HORIZONTAL BARS IN BOTTOM OF BOND BEAM OR INTEL BLOCK AND SHALL BE GROUTED SOLID TO A MIN. DEPTH OF 24". ALL INTEL REINFORCING AND GROUT SHALL EXTEND 2' MINIMUM PAST JAMBS UNLESS NOTED OTHERWISE ON PLANS OR DETAILS.
- LAP REINFORCING 48 BAR DIAMETERS. STAGGER LAP SPLICES A MINIMUM OF ONE LAP LENGTH.
- MASONRY VENEER SHALL BE ATTACHED TO SUPPORT WALL FRAMING WITH ¾" 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.
- WATERPROOFING, DRAINAGE PLANE, AND INSTALLATION PER ADOPTED BUILDING CODE.

DIVISION 5.5 – MISC. STRUCTURAL STEEL

- ALL MISCELLANEOUS STRUCTURAL STEEL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC SPECIFICATIONS FOR DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
 - DESIGN LOADS:
 - 25 PSF SNOW LIVE LOAD
 - 10 PSF DEAD LOAD TOP CHORD (20 TILE)
 - 10 PSF DEAD LOAD BOTTOM CHORD
 - SUBMIT SHOP DRAWINGS, INCLUDING DESIGN CALCULATIONS, MATERIAL STRESSES, GRADE AND SPECIES OF WOOD, AND PLACEMENT DRAWING.
- DEFAULT HEADER SIZE NOT SPECIFIED SPANNING 8'-0" MAX SHALL BE 2 – 2 X 10 #2, WITH 2 STUD SUPPORT.
- ALL HEADERS OVER 4'-0" SHALL HAVE DOUBLE TRIMMER @ EACH SUPPORT, OR AS SPECIFIED, UNO.
- SOLID BLOCKING BETWEEN JOISTS @ 36" OC FOR JOISTS PARALLEL TO THE EXTERIOR FOUNDATION WALL, MIN. 48" OR 3 JOIST SPACES.
- ALL FLUSH FRAMING @ HEADERS OR GIRDERS SHALL BE HANGERED.
- BLOCK BETWEEN JOISTS @ SUPPORTS OR OVER BEAMS.
- RATED CONSTRUCTION FOR PROJECTIONS INTO SETBACKS AS REQ'D.
- DOUBLE JOIST BELOW PARALLEL NONBEARING WALLS ON LAYOUT, SINGLE JOIST OR JOIST JOINT STRUCTURE BELOW LOAD-BEARING WALLS AS NOTED ON PLANS.



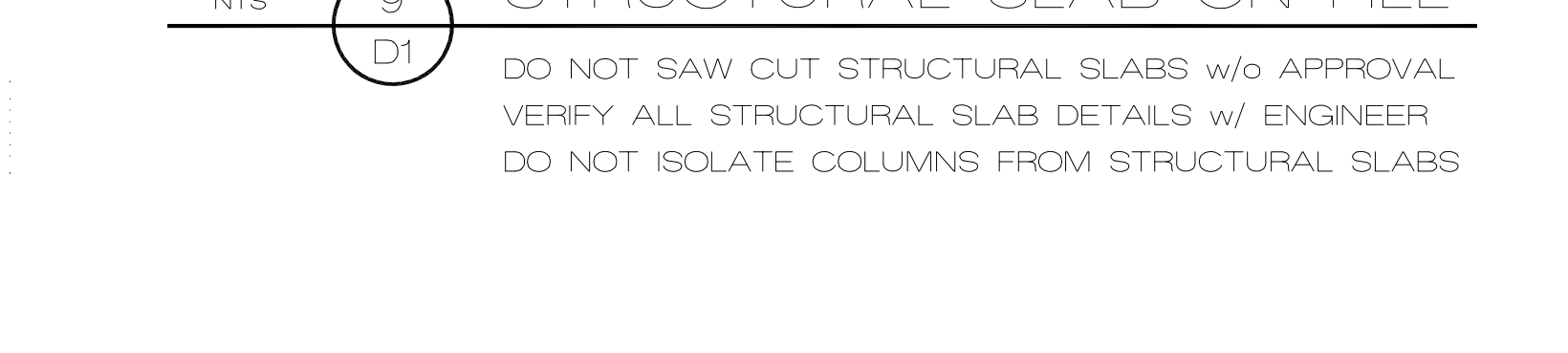
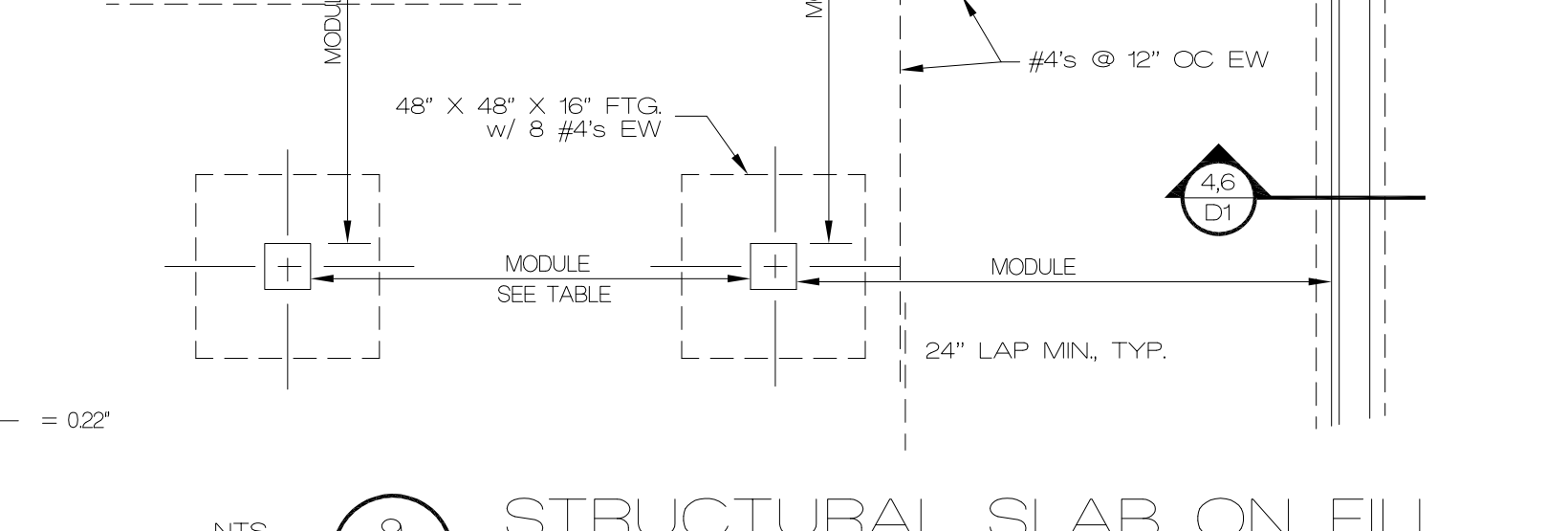
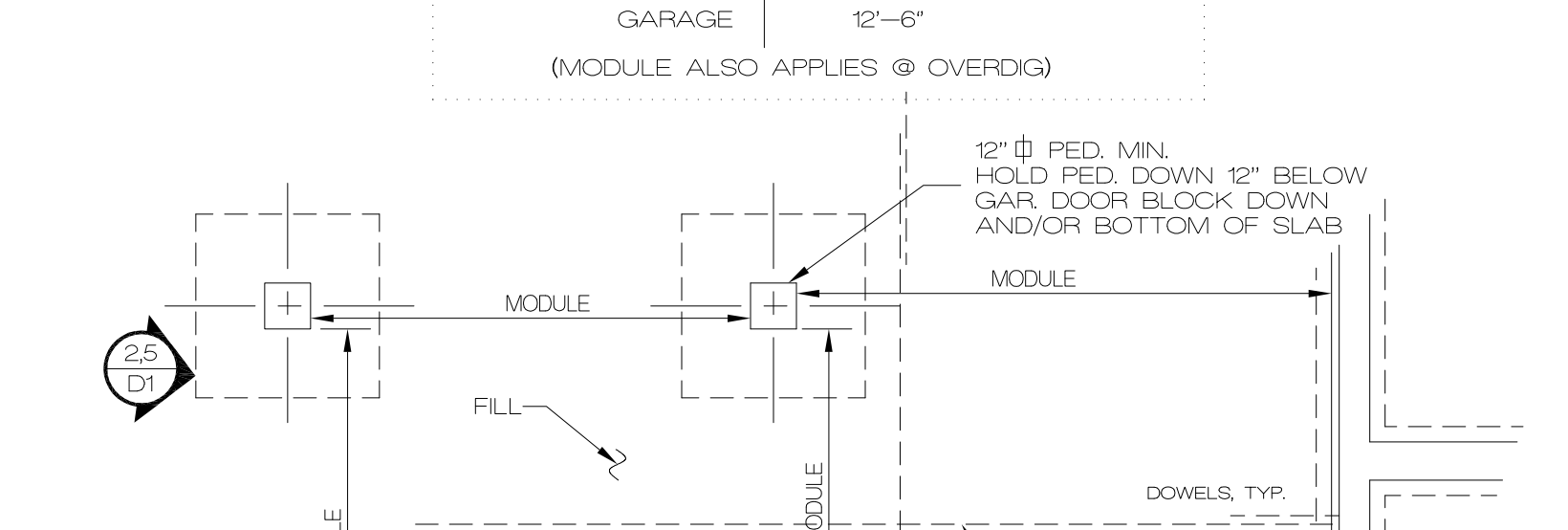
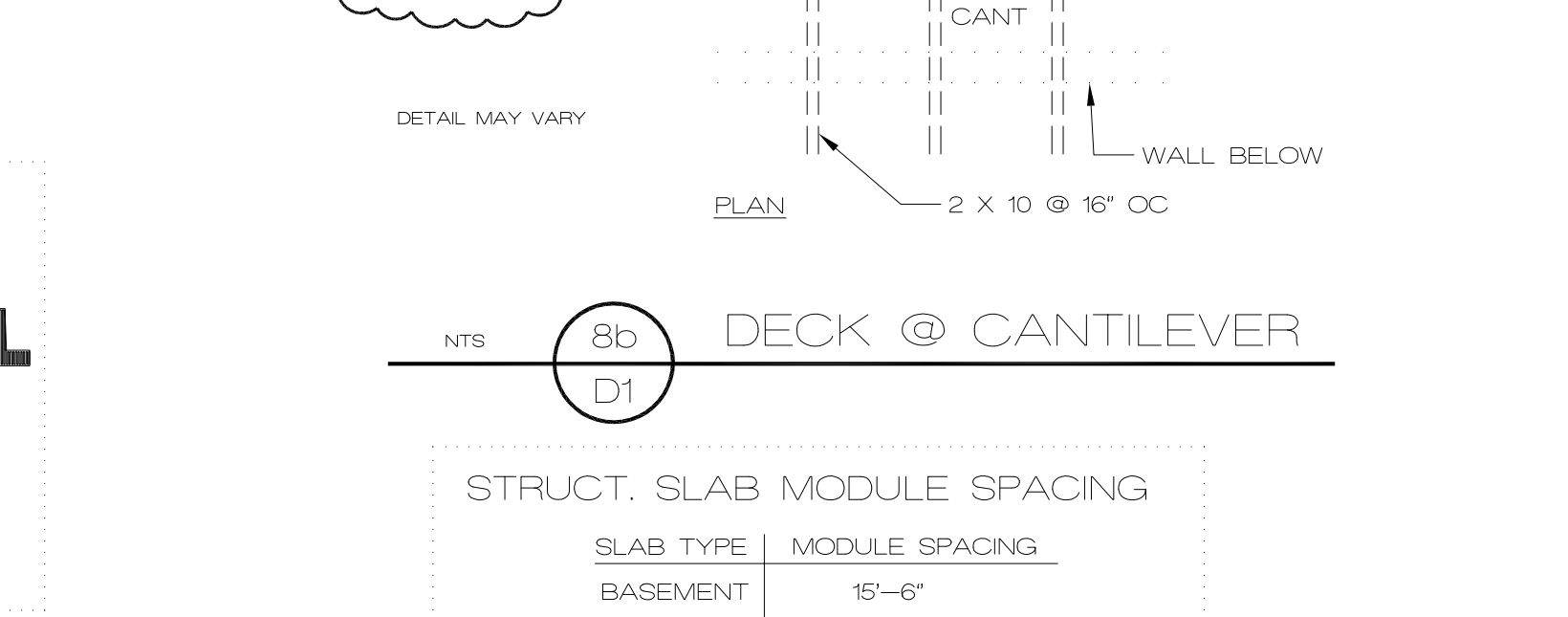
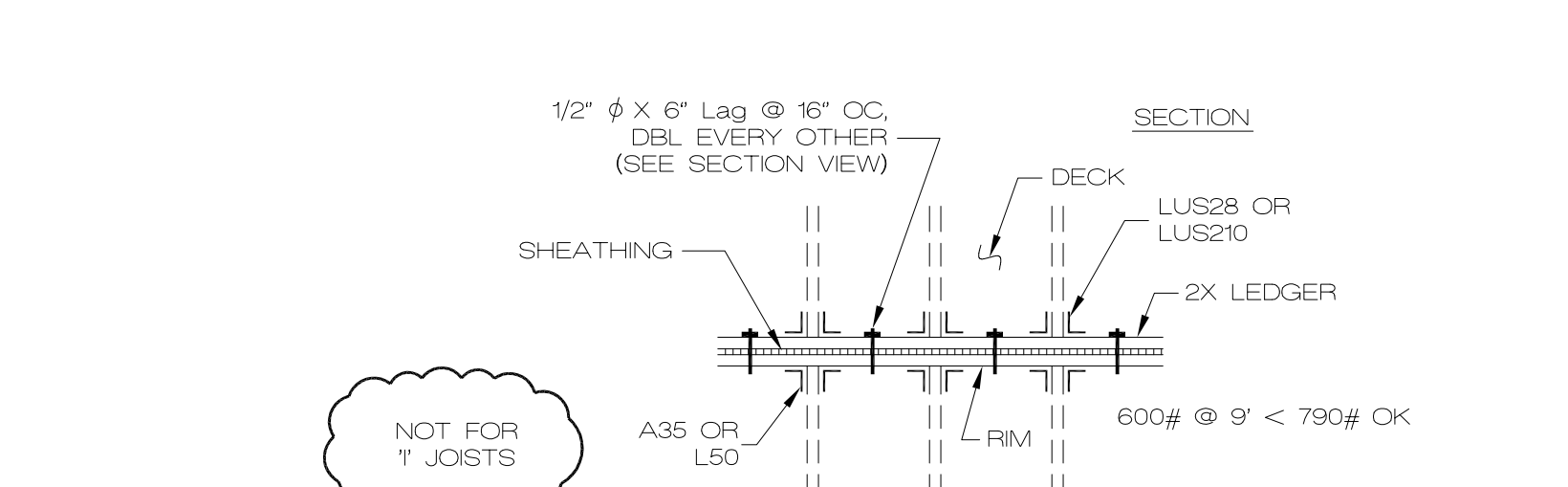
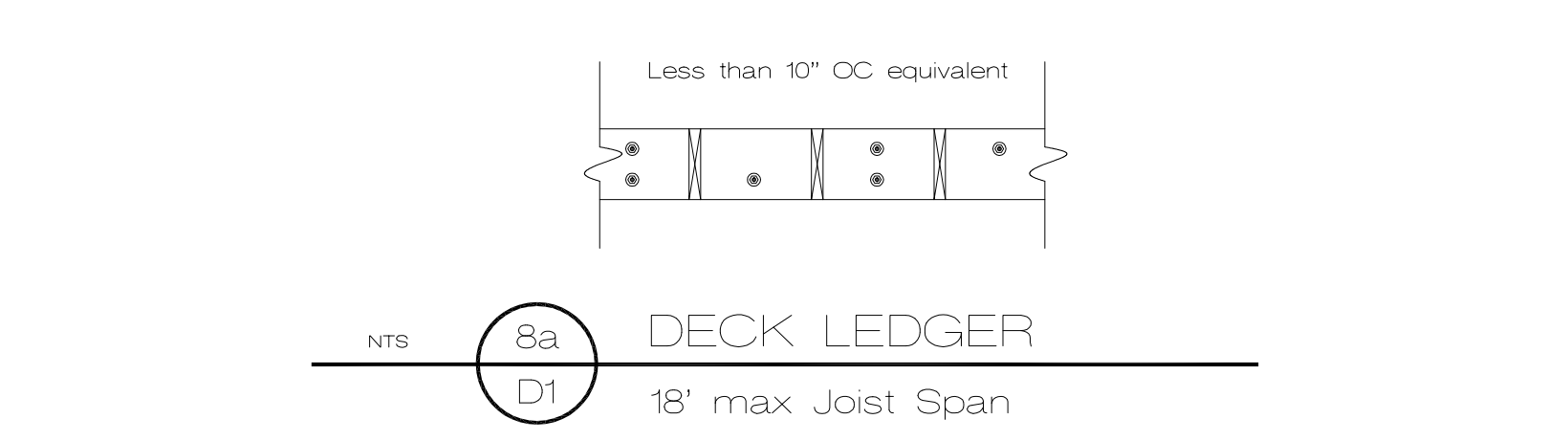
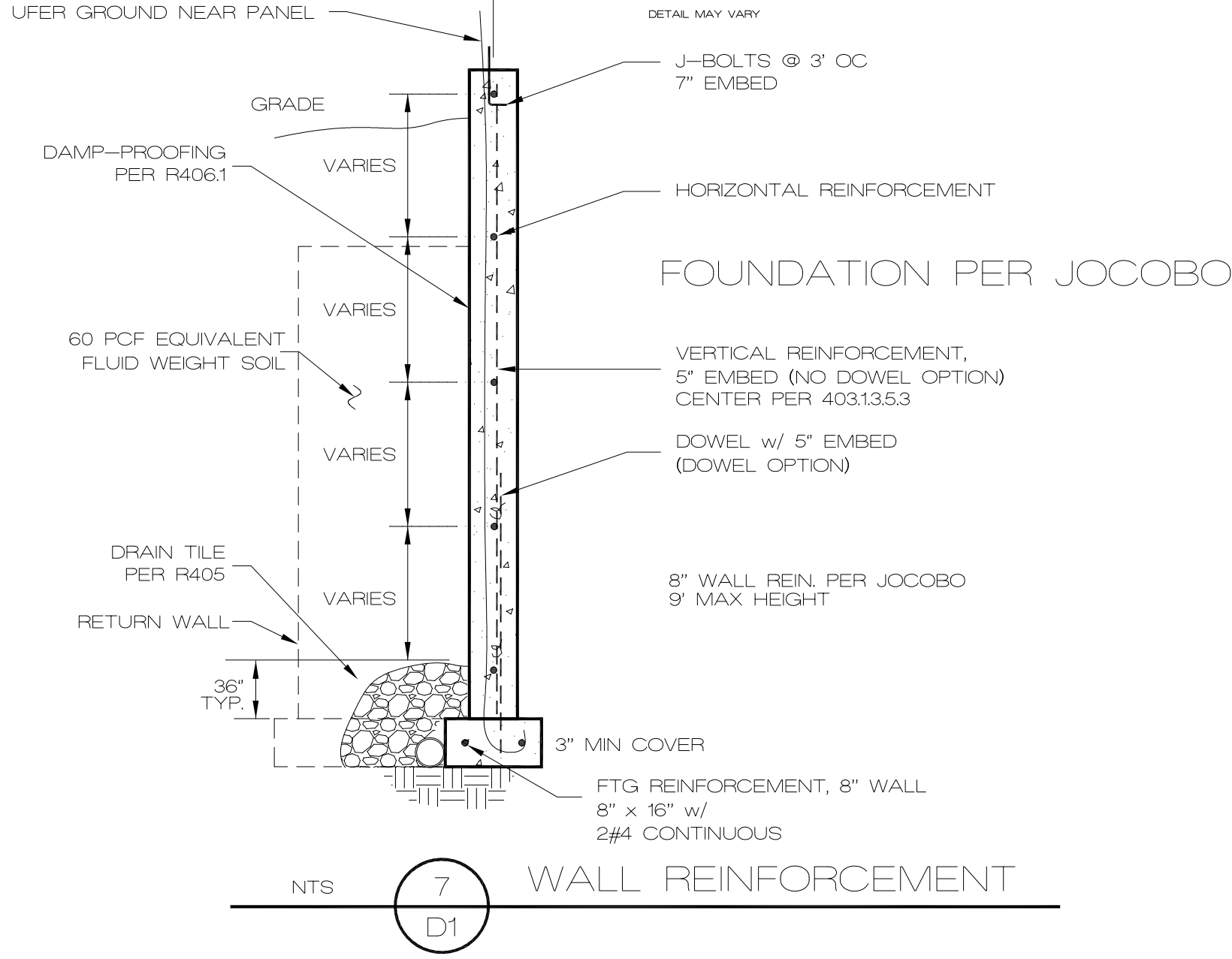
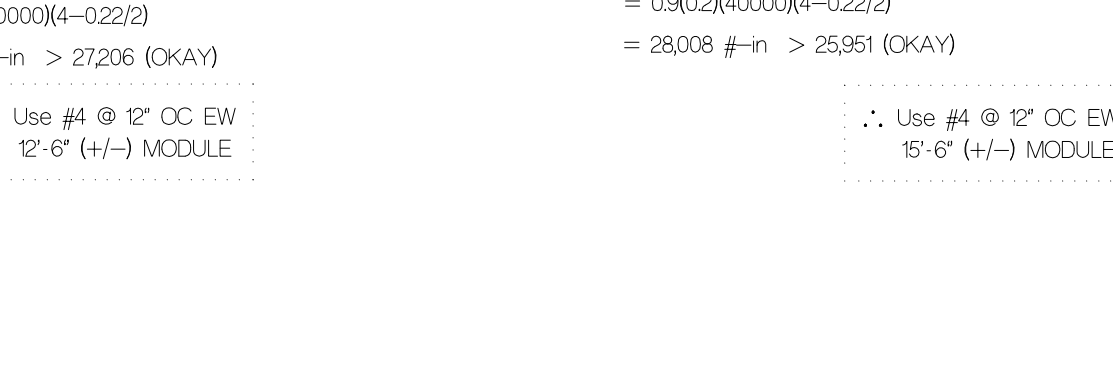
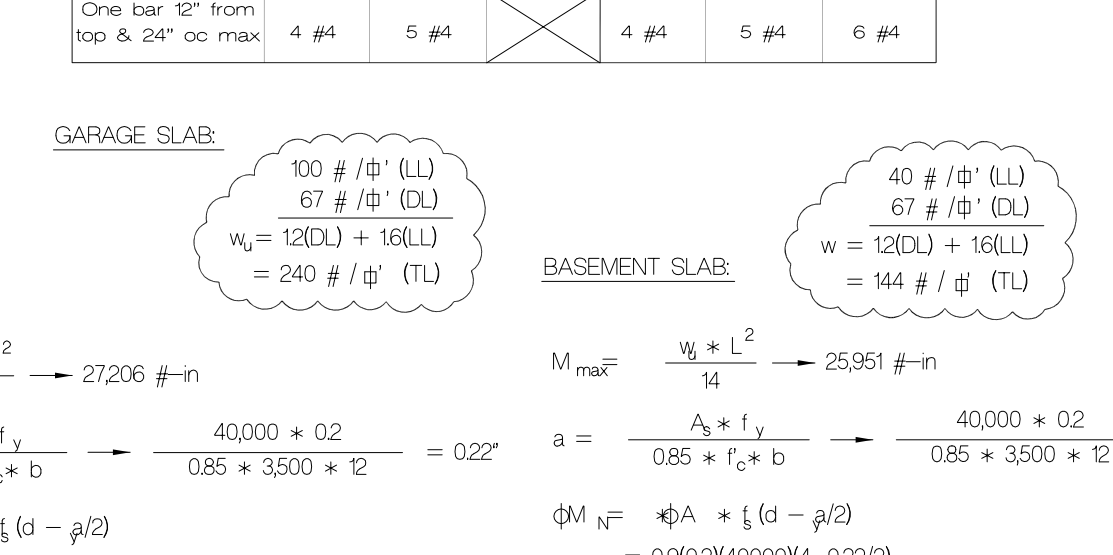
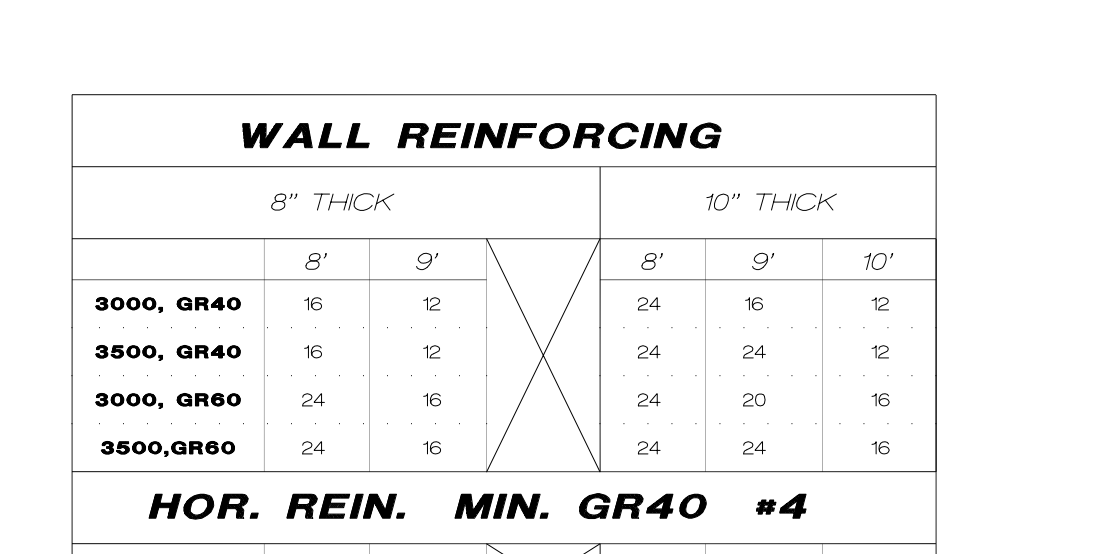
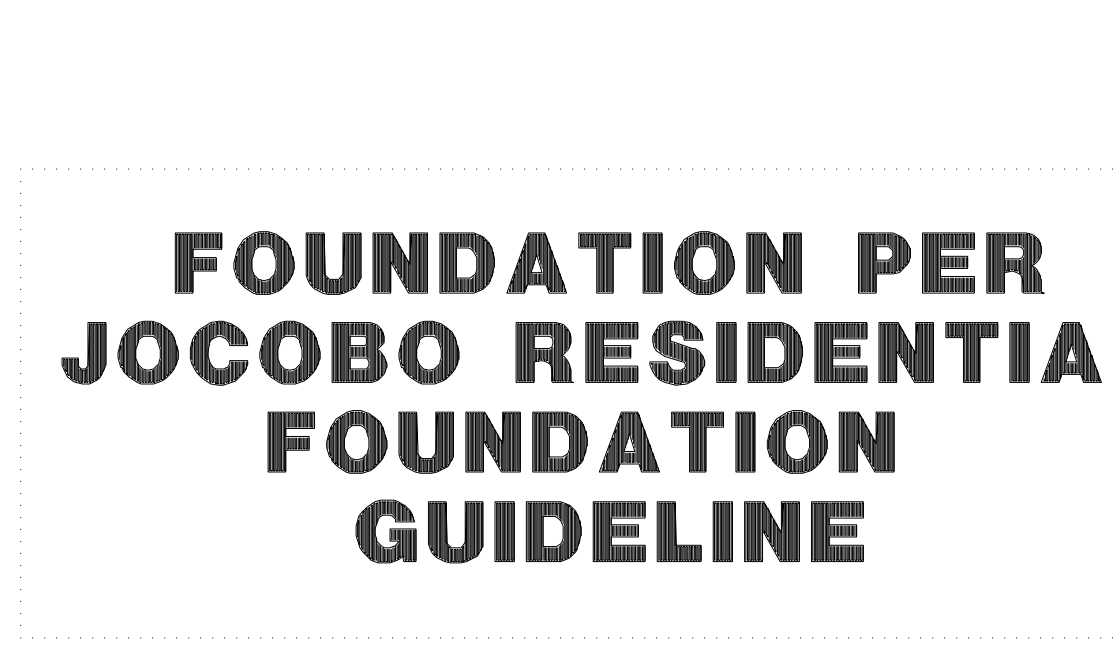
CONC STRENGTH	
FTQ	REQ'D STRENGTH
WALL	3000 psi
SLAB	3500 psi
SUS-SLAB	7 SACK MIX

DIVISION 6 – ROUGH CARPENTRY

- ALL ROUGH CARPENTRY WORK SHALL CONFORM TO THE REQUIREMENTS OF NIPA NATIONAL DESIGN SPECIFICATIONS OF WOOD CONSTRUCTION, TP1 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.
- ROUGH CARPENTRY MATERIALS SHALL COMPLY WITH:
 - LUMBER – S4S, S-DRY, KD, OR S-GRN GRADE MARKED, COMPLYING WITH PS 20, GRADED UNDER WWPA OR SPIB RULES:
 - STUDS: STUD GRADE
 - HEADER: #2 DOUGLAS FIR MIN TYPICAL
 - RAFTER: #2 DOUGLAS FIR
 - PLATES: #2 DOUGLAS FIR
 - BLOCKING: #2 DOUGLAS FIR
 - METAL FRAMING FASTENERS – ASTM A 153, HOT-DIP GALVANIZED FASTENERS, EQUAL TO SIMPSON STRONG-TIE CONNECTORS COMPLYING WITH APPLICABLE ICC-ES REPORTS.
 - PLYWOOD – APA RATED SHEATHING, COMPLYING TO PS 1.
 - LVL – LAMINATED VENEER LUMBER SHALL BE GRADE 2800 F-20E AND SHALL MEET THE REQUIREMENTS OF APPLICABLE ICC-ES REPORTS.
 - GLULAM BEAMS – COMBINATION 24F-V3 IN ACCORDANCE WITH AITC A1901.
- EXTERIOR WALL AND ROOF SHEATHING SHALL BE ¾" 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 OTHERWISE. PROVIDE SOLID BLOCKING AT ALL UNSUPPORTED PANEL EDGES, 4/8 GUN NAILS.

- NOTE: ROOF SHEATHING SHALL BE ¾" APA RATED SHEATHING FOR TILE ROOF, OR AS REQUIRED BY MANUFACTURER.
- INTERIOR SHEAR WALL SHEATHING WHERE NOTED SHALL BE ¾" 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.
- ATTACH METAL FRAMING FASTENERS TO FRAMING MEMBERS WITH MINIMUM NUMBER AND SIZE OF NAILS LISTED IN THE APPLICABLE ICC-ES REPORTS.
- WOOD TRUSS SYSTEM, TRUSS JOIST SYSTEM AND GLULAM SYSTEM FOR ROOFS:
 - DESIGN, FABRICATE, AND ERECT IN ACCORDANCE WITH BCSI STANDARDS AND NDS SPECIFICATIONS.
 - DESIGN LOADS:
 - 25 PSF SNOW LIVE LOAD
 - 10 PSF DEAD LOAD TOP CHORD (20 TILE)
 - 10 PSF DEAD LOAD BOTTOM CHORD
 - SUBMIT SHOP DRAWINGS, INCLUDING DESIGN CALCULATIONS, MATERIAL STRESSES, GRADE AND SPECIES OF WOOD, AND PLACEMENT DRAWING.

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Ken Sidorowicz, PC

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2018 DETAIL SHEET

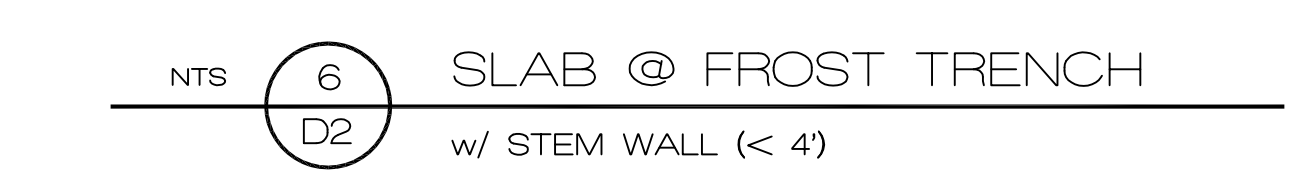
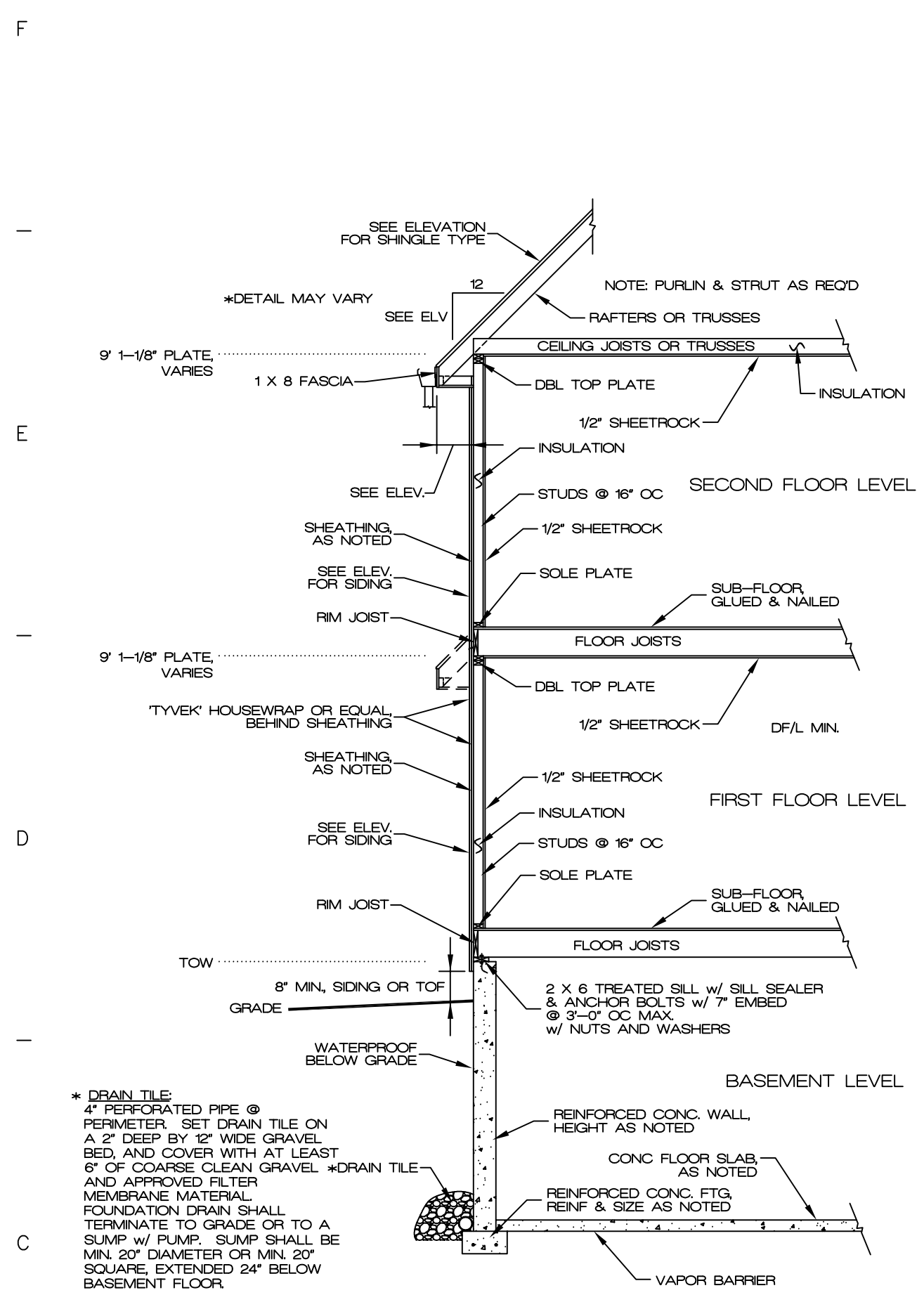


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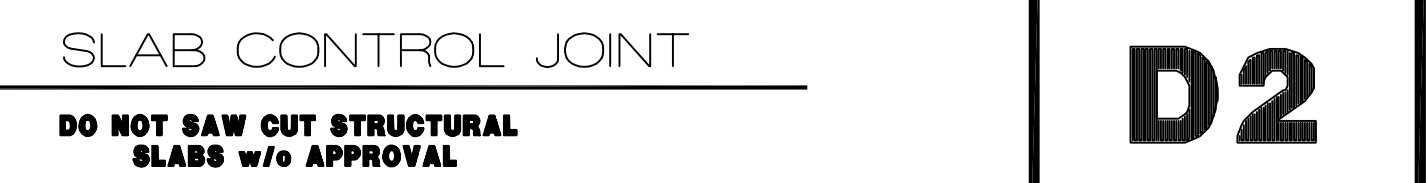
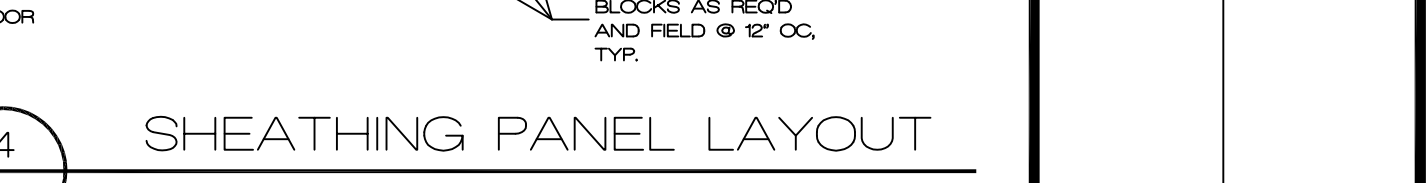
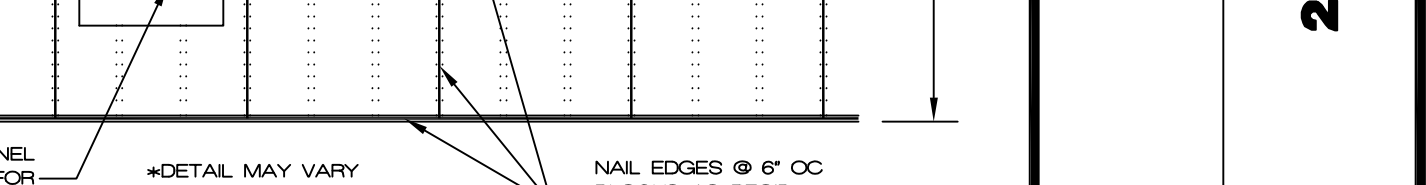
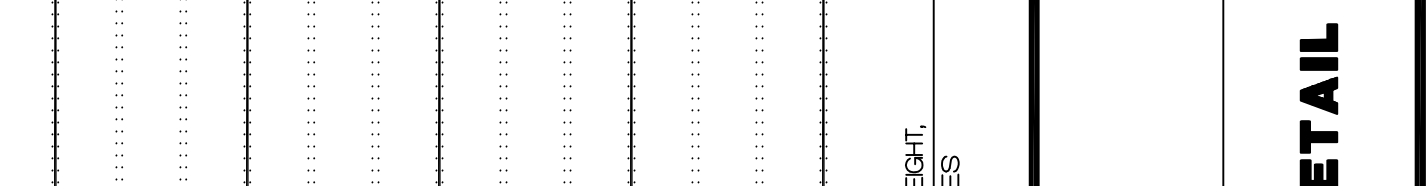
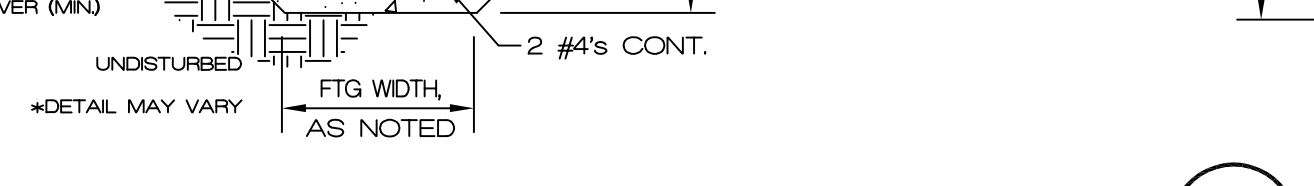
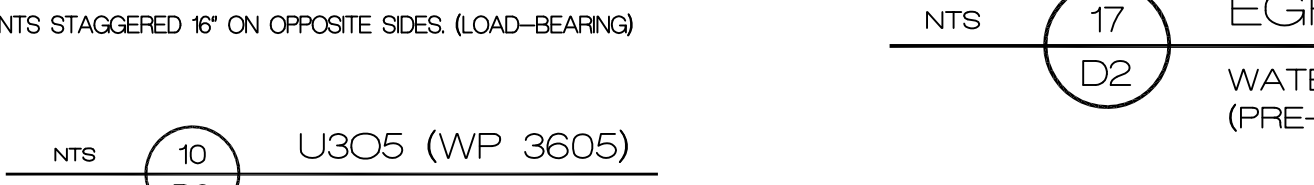
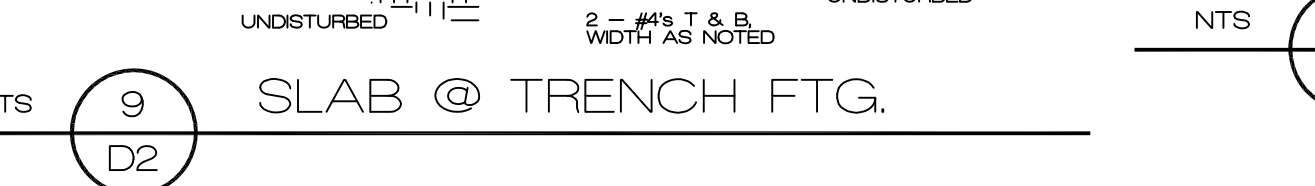
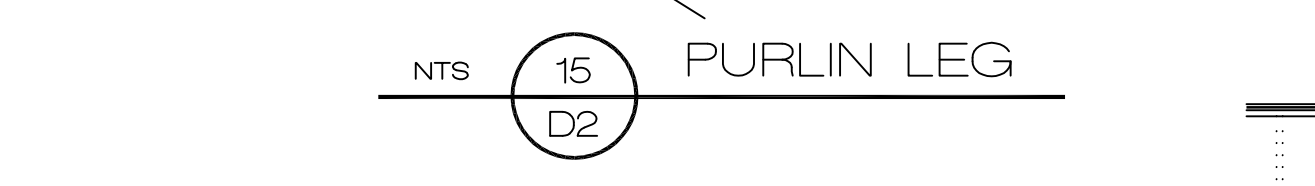
DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, OBTAIN CLARIFICATION FROM A / E BEFORE CONTINUING CONSTRUCTION.

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COMP RE-ROOFS OF SHAKE SHALL REMOVE SKIP SHEATING



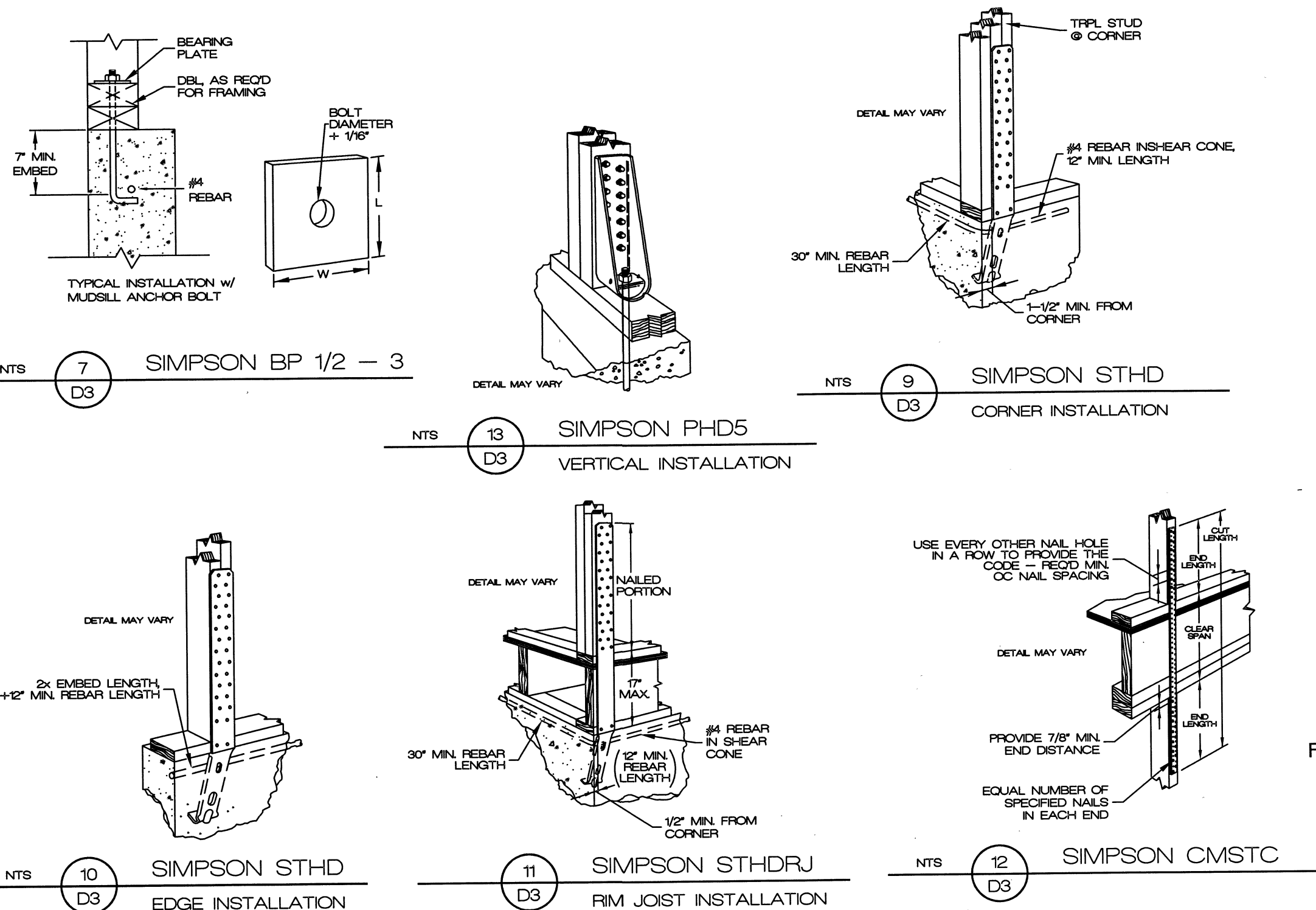
STAPLES NOT PERMITTED IN KCMO

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 0.135)	---
2	Ceiling joists to plate, toe nail	3-8d (2-1/2" x 0.135)	---
3	Ceiling joists not attached to parallel rafter, laps over partitions, face nail	3-10d	---
4	Collar tie rafter, face nail or 1-1/4" x 20 ga. ridge strap	3-10d (3" x 0.288)	---
5	Rafter to plate, toe nail, note trusses use STC clips at NLB walls and spec'd holdowns	3-16d or 3-10d (3-1/2" x 0.357, 0.148)	2 toe nails 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)	---
8	Face nail	3-16d (3-1/2" x 0.357)	---
Wall			
9	Built-up studs-face nail	10d (3" x 0.288)	24" o.c.
10	Assembling studs at intersecting wall corners, face nail	16d (3-1/2" x 0.357)	12" o.c.
11	Built-up header, two pieces w/ 1/2" spacer	16d (3-1/2" x 0.357)	16" o.c. along each edge
12	Continued header, two pieces	16d (3-1/2" x 0.357)	16" o.c. along each edge
13	Continuous header to stud, toe nail	4-8d (3-1/2" x 0.135)	---
14	Double studs, face nail	10d (3" x 0.288)	24" o.c.
15	Double top plates, face nail	10d (3" x 0.288)	24" o.c.
16	Double top plates, min. 48" offset of end joints, face nail in lapped area	8-16d (3-1/2" x 0.357)	---
17	Double top plates, min. 48" offset of end joints, face nail in lapped area	8d (2-1/2" x 0.135)	16" o.c.
18	Sole plate to post or blocking, face nail	3-16d (3-1/2" x 0.357)	16" o.c.
19	Sole plate to post or blocking at braced wall panels	---	---
20	Stud to sole plate, toe nail	3-8d (2-1/2" x 0.135) or 2-16d (3-1/2" x 0.357)	---
21	Top or side plate to stud, end nail	2-10d (3" x 0.288)	---
22	Top plates, face at corners and intersections, face nail	2-8d (2-1/2" x 0.135)	---
23	1" brace to each stud and plate, face nail	2-8d (2-1/2" x 0.135)	---
24	1" x 6" sheathing to each bearing, face nail	2 staples 1-3/4"	---
25	1" x 6" sheathing to each bearing, face nail	2-8d (2-1/2" x 0.135)	---
26	1" x 6" sheathing to each bearing, face nail	2 staples 1-3/4"	---
27	Wider than 1" x 6" sheathing to each bearing, face nail	3 staples 1-3/4"	---
Floor			
28	Joist to sill or girder, toe nail	3-8d (2-1/2" x 0.135)	---
29	1" x 6" joist to top plate, toe nail (roof applications also)	8d (2-1/2" x 0.135)	6" o.c.
30	1" x 6" joist to top plate, toe nail (roof applications also)	8d (2-1/2" x 0.135)	6" o.c.
31	1" x 6" joist to top plate, toe nail (roof applications also)	2-8d (2-1/2" x 0.135)	---
32	1" x 6" subfloor or blocking to sill plate, toe nail	2 staples 1-3/4"	---
33	2" subfloor to joist of girder, blind and face nail	2-16d (3-1/2" x 0.357)	---
34	2" planks (plank & beam - floor and roof)	2-16d (3-1/2" x 0.357)	---
35	Built-up girders and beams, 2" lumber layers	10d (3" x 0.288)	---
36	Ledger strip supporting joists or rafters	3-16d (3-1/2" x 0.357)	---
Spacing of Fasteners			
Description of building materials		Edges (inches) (note: i)	Intermediate supports (inches) (notes: c, e)
Wood structural panels, subfloor, roof and interior wall sheathing to framing			
37	3/8" to 1/2"	6	12 (note: g)
38	1/2" to 1"	6	12 (note: g)
39	1-1/8" to 1-1/4"	6	12
Other wall sheathing (note: h)			
40	1/2" structural cellulose fiberboard sheathing	1-1/2" galv. roofing nail, 7/16" crown or 1" crown staple 16 ga., 1-1/4" long	6
41	25/32" structural cellulose fiberboard sheathing	1-3/4" galv. roofing nail, 7/16" crown or 1" crown staple 16 ga., 1-1/2" long	6
42	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
43	5/8" gypsum sheathing (note: d)	1-3/4" galvanized roofing nail, staple galv., 1-5/8" long, 1-5/8" screws, Type W or S	7
Wood structural panels, combination subfloor underlayment to framing			
44	3/4" and less	6d deformed (2" x 0.207) nail or 8d common (2-1/2" x 0.137) nail	12
45	7/8" to 1"	8d common (2-1/2" x 0.137) nail or 8d deformed (2-1/2" x 0.207) nail	12
46	1-1/8" to 1-1/4"	10d common (3" x 0.148) nail or 8d deformed (2-1/2" x 0.207) nail	12

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s, 1 psi = 6.895 kPa

- a. All nails are smooth-common, box or deformed shank 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 0.062 inch (20d common nail, 90 ksi (620 MPa) for shank diameters larger than 0.062 inch but not larger than 0.077 inch, and 100 ksi (689 MPa) for shank diameters of 0.082 inch or less.
- b. Staples are 16 gauge wire and have a minimum 7/16-inch on diameter crown width.
- c. Nail shall be spaced at not more than 6 inches on center at all supports where spans are 48 inches or greater.
- d. Four-foot-by-8-foot or 4-foot-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 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 end wall 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, eave and gable end walls and 6 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 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.



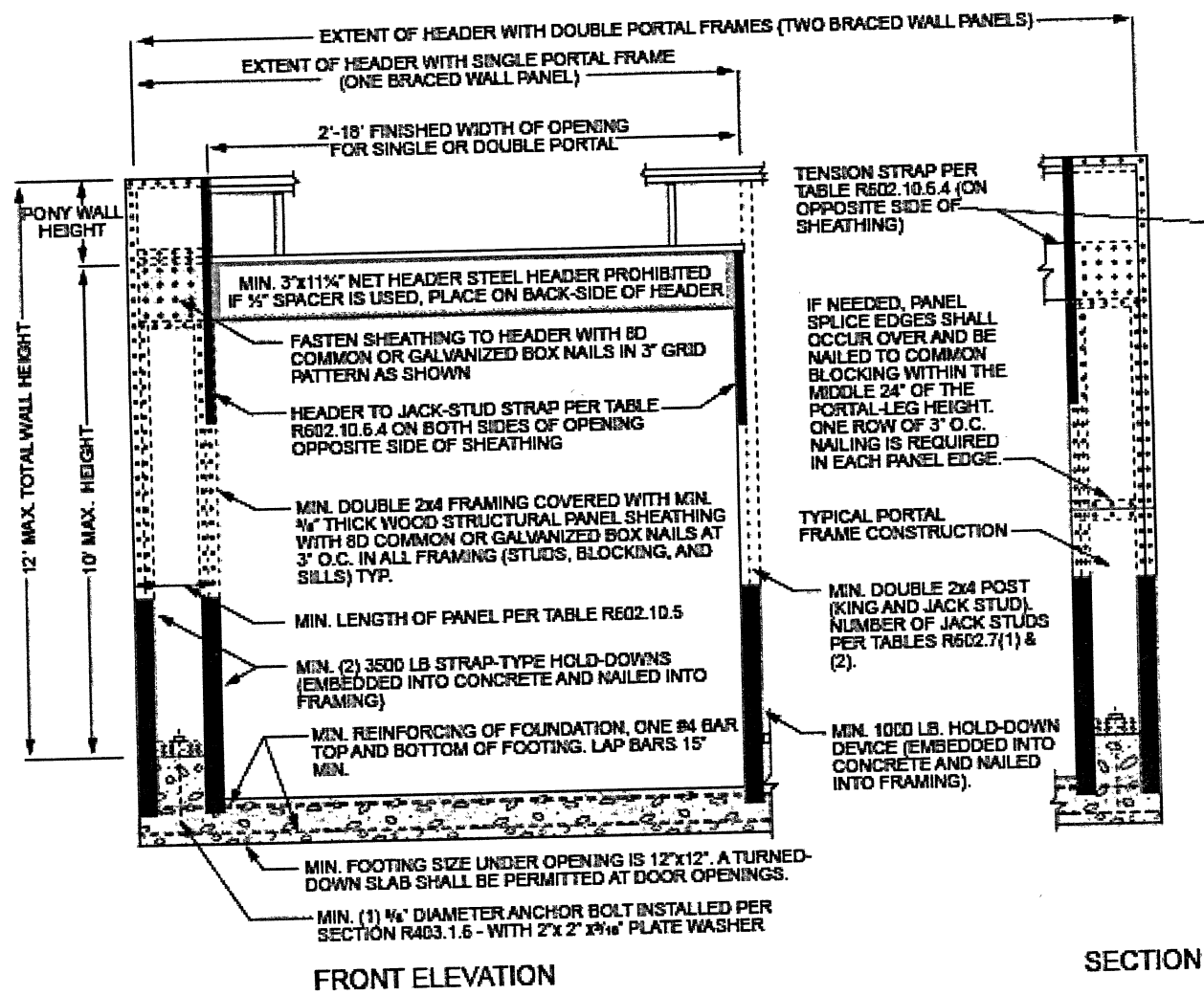
ALL METHODS	DESCRIPTION	CONSTRUCTION
1 LIB	METAL STRAP METHOD	SIMPSON CS16 STRAP NAILED TO STUDS SPACED AT 16" OC MAXIMUM. STRAPS SHALL BE INSTALLED IN 'V' OR 'X' PATTERN AT THE BRACE LOCATION AND FOR THE SPECIFIED LENGTH, ALTERNATIVE TO LET IN 1 X 4.
2 WSP/CS-WSP	SHEATHING METHOD	7/16" STRUCTURAL SHEATHING 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 w/ 1" 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
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

NTS 8 D3

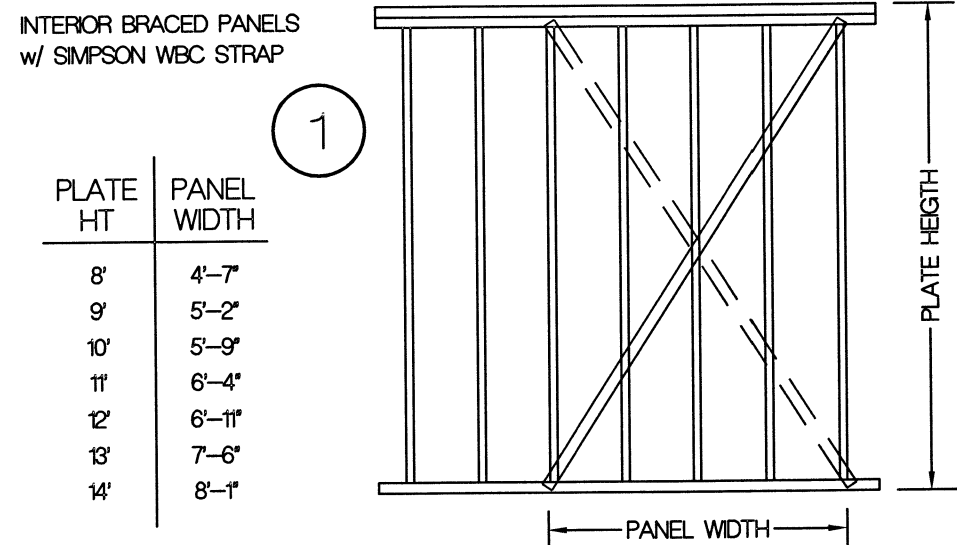
CHAPTER 6 WALL CONSTRUCTION



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

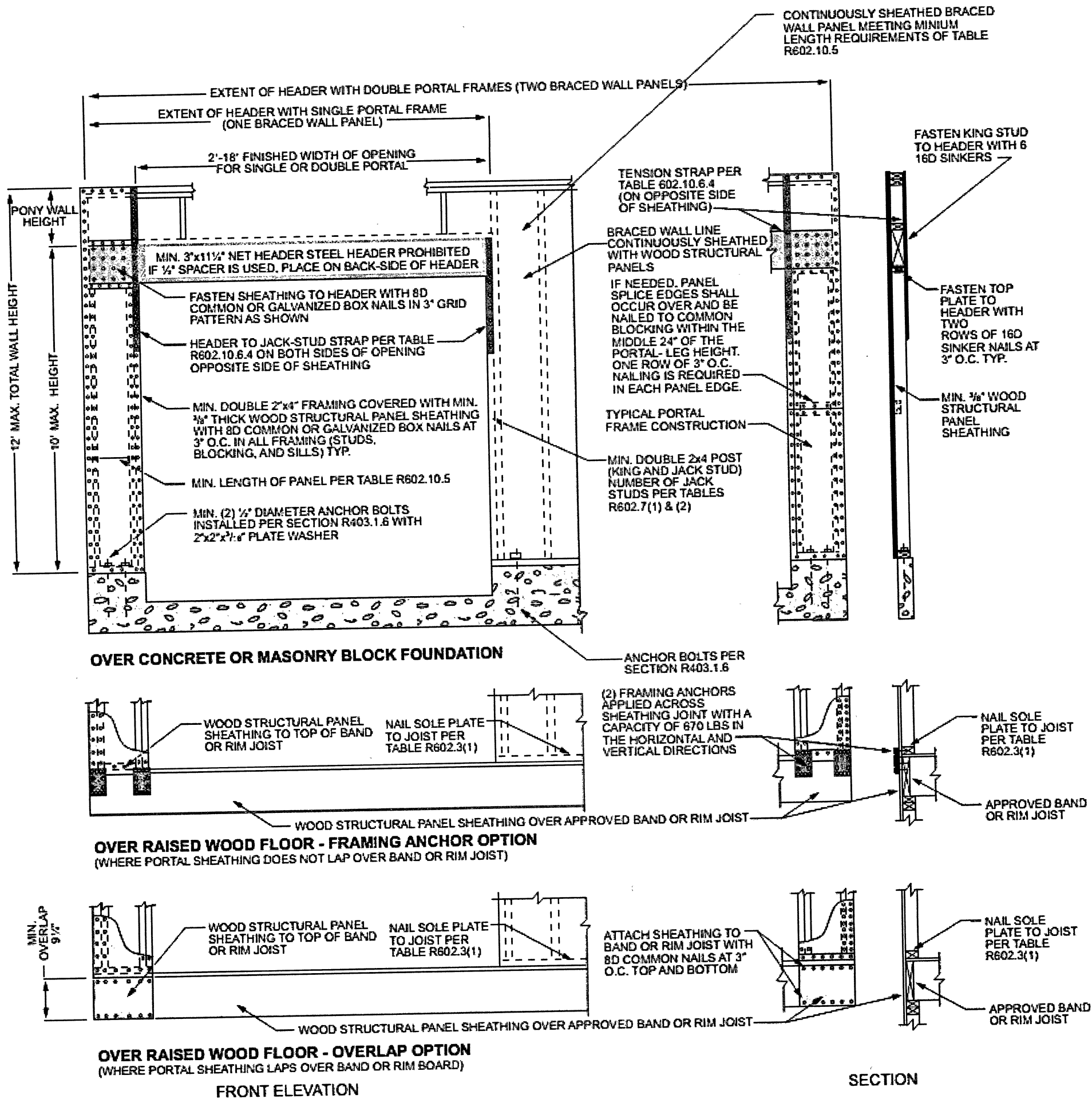
FIGURE R602.10.6.2
METHOD PFH—PORTAL FRAME WITH HOLD-DOWNS

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



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

CHAPTER 6 WALL CONSTRUCTION



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

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

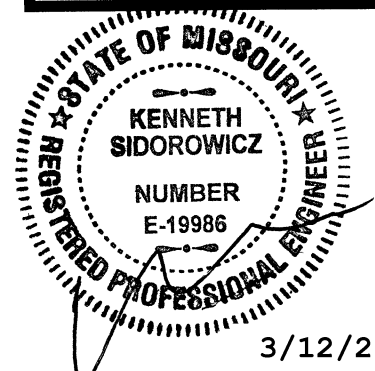
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