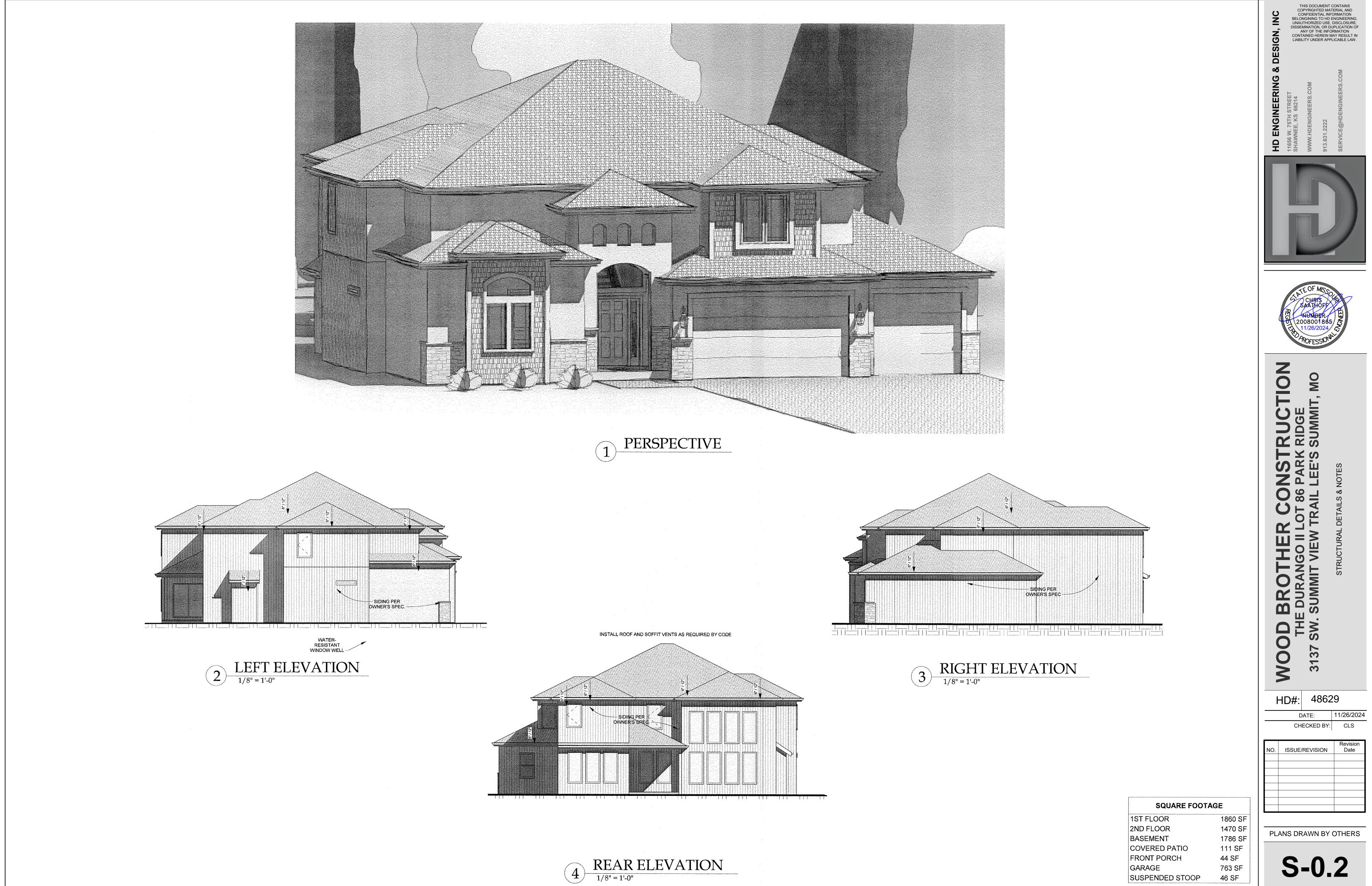


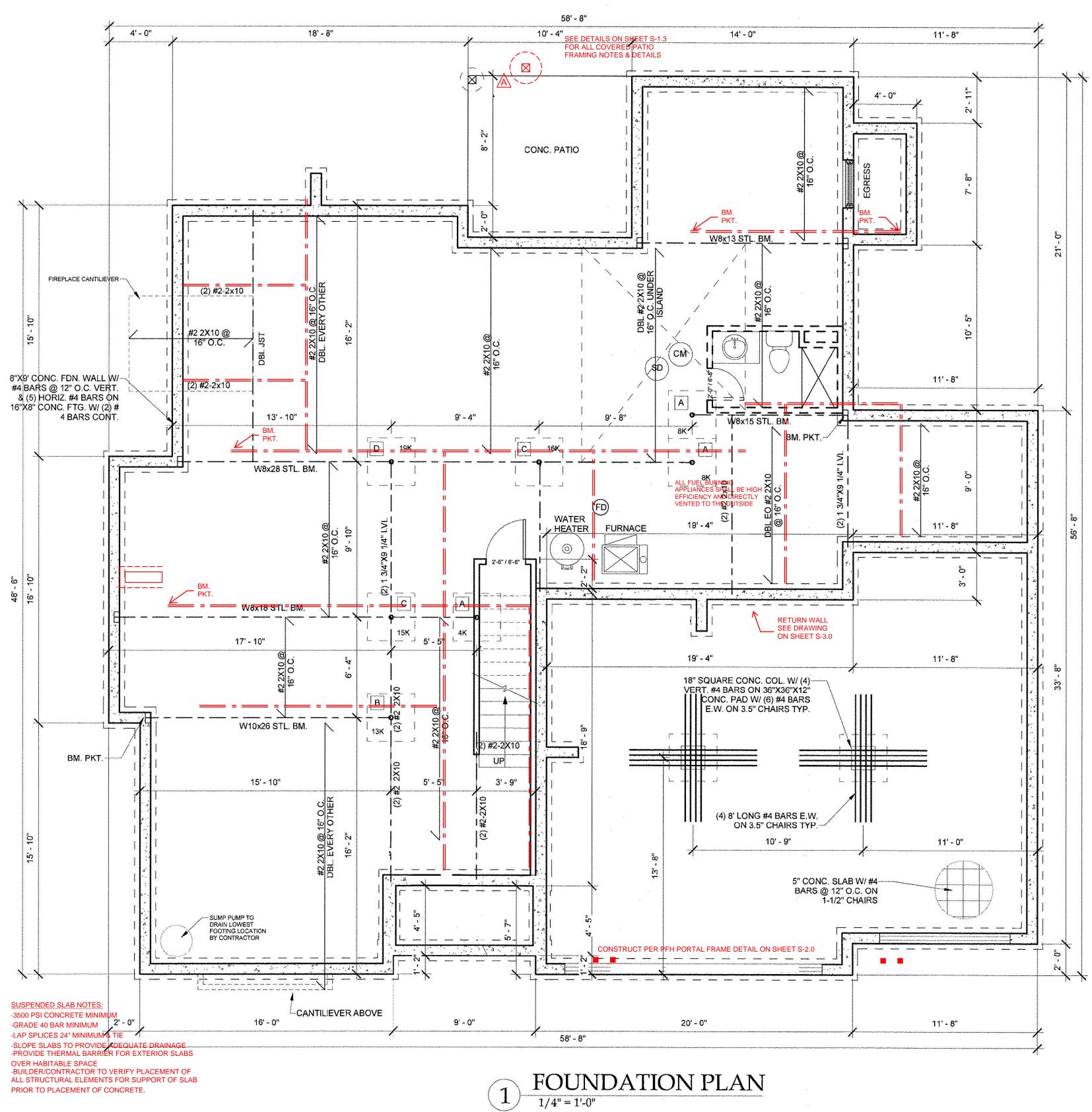


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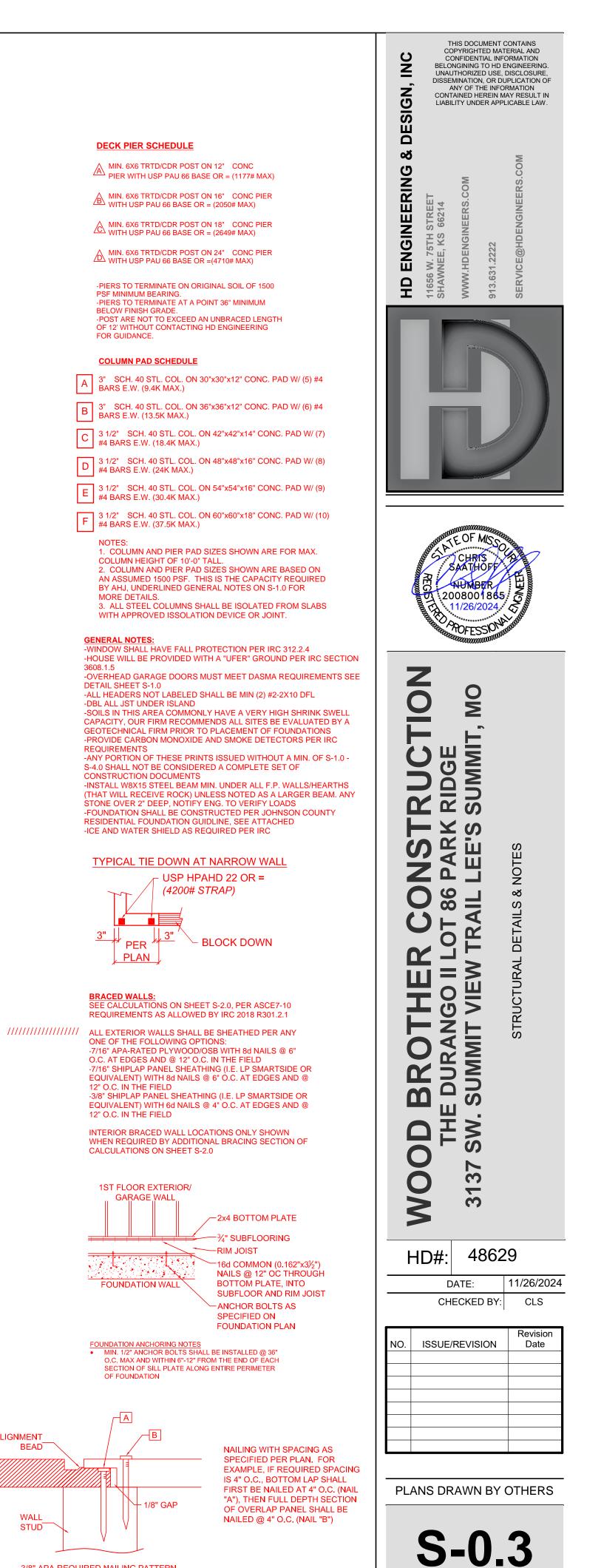


SQUARE FOOTAGE						
1ST FLOOR	1860 S					
2ND FLOOR	1470 S					
BASEMENT	1786 S					
COVERED PATIO	111 SF					
FRONT PORCH	44 SF					
GARAGE	763 SF					
SUSPENDED STOOP	46 SF					

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ALL STRUCTURAL ELEMENTS FOR SUPPORT OF SLAB PRIOR TO PLACEMENT OF CONCRETE.



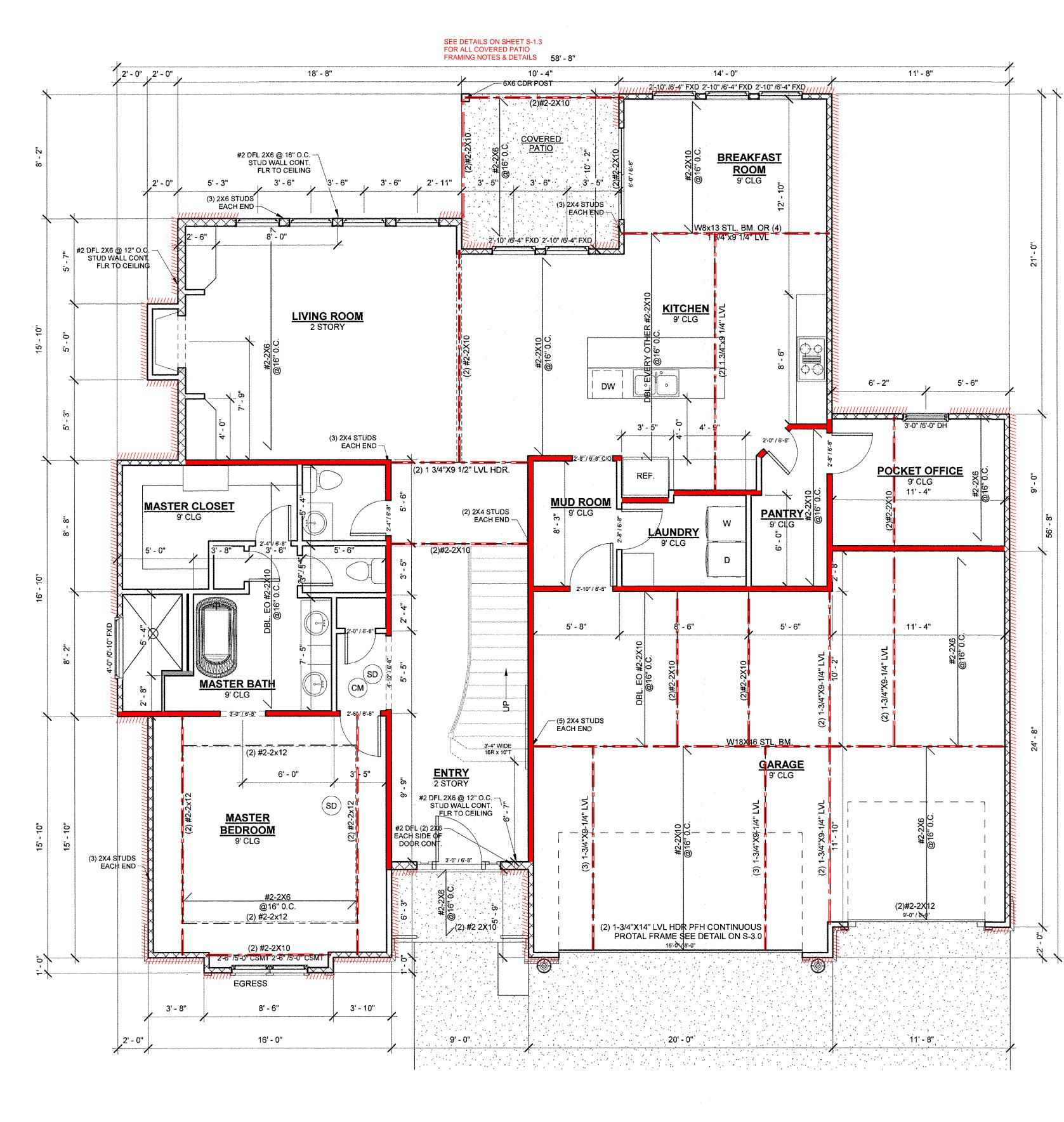
3/8" APA REQUIRED NAILING PATTERN FOR SHIPLAP PANEL SHEATHING

ALIGNMENT BEAD

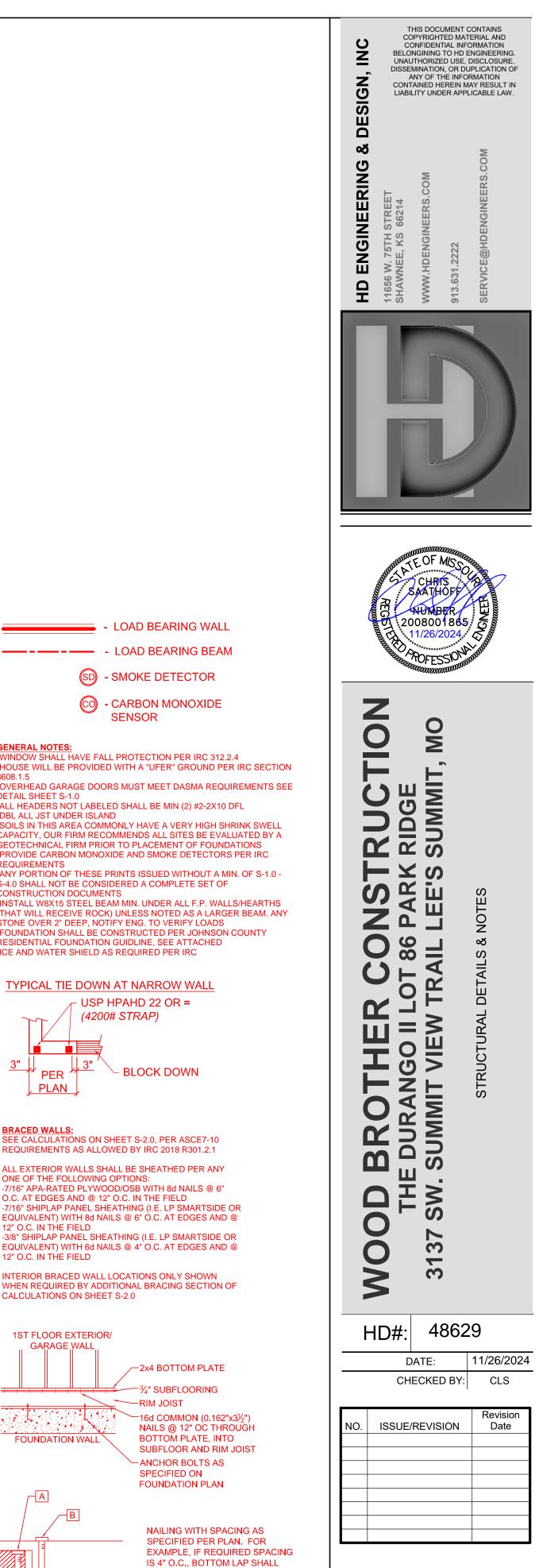
WALL

STUD

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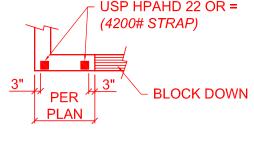


PLANS DRAWN BY OTHERS

S-0.4

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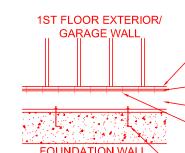
SD - SMOKE DETECTOR CO - CARBON MONOXIDE SENSOR **GENERAL NOTES:** -WINDOW SHALL HAVE FALL PROTECTION PER IRC 312.2.4 -HOUSE WILL BE PROVIDED WITH A "UFER" GROUND PER IRC SECTION 3608.1.5 -OVERHEAD GARAGE DOORS MUST MEET DASMA REQUIREMENTS SEE DETAIL SHEET S-1.0 -ALL HEADERS NOT LABELED SHALL BE MIN (2) #2-2X10 DFL -ALL HEADERS NOT LABELED SHALL BE WIIN (2) #2-2ATO DFL -DBL ALL JST UNDER ISLAND -SOILS IN THIS AREA COMMONLY HAVE A VERY HIGH SHRINK SWELL CAPACITY, OUR FIRM RECOMMENDS ALL SITES BE EVALUATED BY A GEOTECHNICAL FIRM PRIOR TO PLACEMENT OF FOUNDATIONS -PROVIDE CARBON MONOXIDE AND SMOKE DETECTORS PER IRC REQUIREMENTS -ANY PORTION OF THESE PRINTS ISSUED WITHOUT A MIN. OF S-1.0 -S-4.0 SHALL NOT BE CONSIDERED A COMPLETE SET OF ONIGTRUCTION DOCUMENTS -INSTALL W8X15 STEEL BEAM MIN. UNDER ALL F.P. WALLS/HEARTHS (THAT WILL RECEIVE ROCK) UNLESS NOTED AS A LARGER BEAM. ANY STONE OVER 2" DEEP, NOTIFY ENG. TO VERIFY LOADS -FOUNDATION SHALL BE CONSTRUCTED PER JOHNSON COUNTY RESIDENTIAL FOUNDATION GUIDLINE, SEE ATTACHED -ICE AND WATER SHIELD AS REQUIRED PER IRC TYPICAL TIE DOWN AT NARROW WALL - USP HPAHD 22 OR =



BRACED WALLS: SEE CALCULATIONS ON SHEET S-2.0, PER ASCE7-10 REQUIREMENTS AS ALLOWED BY IRC 2018 R301.2.1

O.C. AT EDGES AND @ 12" O.C. IN THE FIELD •7/16" SHIPLAP PANEL SHEATHING (I.E. LP SMARTSIDE OR EQUIVALENT) WITH 8d NAILS @ 6" O.C. AT EDGES AND @ 12" O.C. IN THE FIELD ·3/8" SHIPLAP PANEL SHEATHING (I.E. LP SMARTSIDE OR EQUIVALENT) WITH 6d NAILS @ 4" O.C. AT EDGES AND @ 12" O.C. IN THE FIELD

INTERIOR BRACED WALL LOCATIONS ONLY SHOWN WHEN REQUIRED BY ADDITIONAL BRACING SECTION OF CALCULATIONS ON SHEET S-2.0





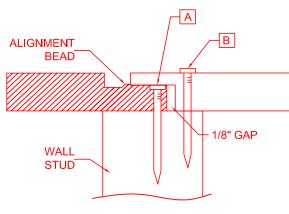
<u>∕</u>−2x4 BOTTOM PLATE -----RIM JOIST ^{16d} COMMON (0.162"x3¹/₂") NAILS @ 12" OC THROUGH BOTTOM PLATE, INTO SUBFLOOR AND RIM JOIST -ANCHOR BOLTS AS SPECIFIED ON FOUNDATION PLAN

FIRST BE NAILED AT 4" O.C. (NAIL

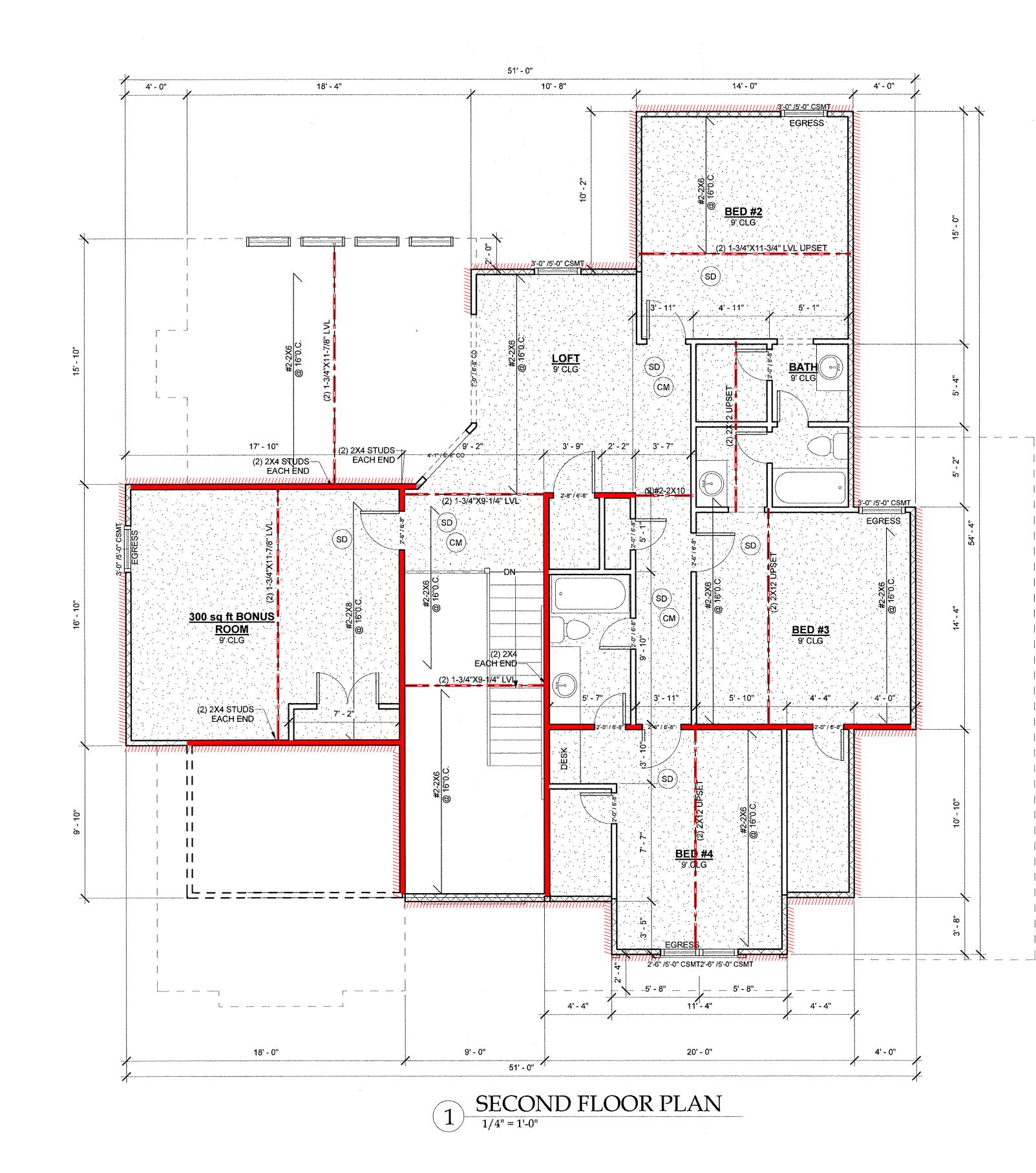
OF OVERLAP PANEL SHALL BE

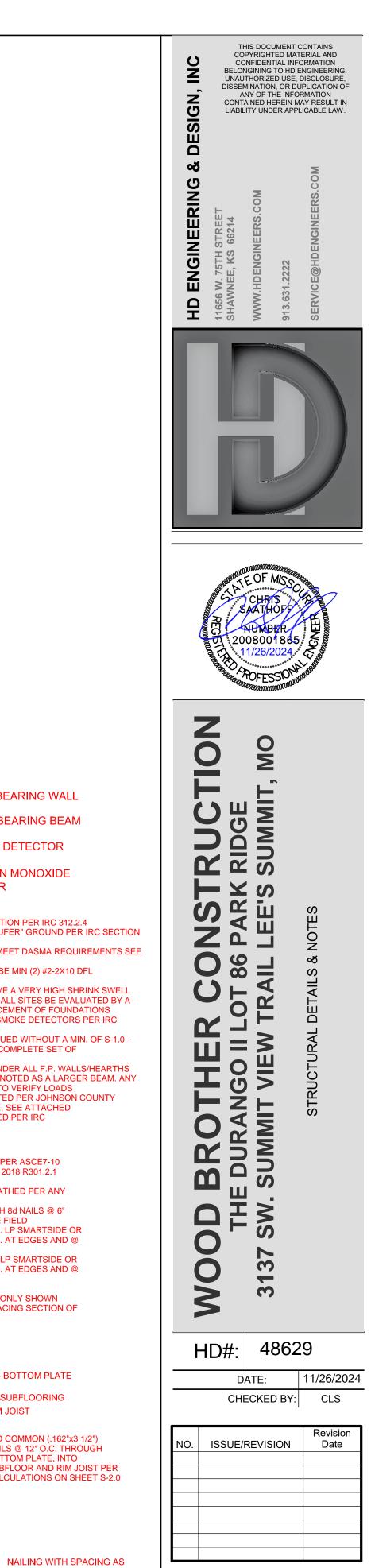
NAILED @ 4" O.C. (NAIL "B")

"A"), THEN FULL DEPTH SECTION



3/8" APA REQUIRED NAILING PATTERN FOR SHIPLAP PANEL SHEATHING





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LOAD BEARING WALL ------ - LOAD BEARING BEAM SD - SMOKE DETECTOR CO - CARBON MONOXIDE SENSOR

GENERAL NOTES: -WINDOW SHALL HAVE FALL PROTECTION PER IRC 312.2.4 -HOUSE WILL BE PROVIDED WITH A "UFER" GROUND PER IRC SECTION 3608.1.5 -OVERHEAD GARAGE DOORS MUST MEET DASMA REQUIREMENTS SEE DETAIL SHEET S-1.0 -ALL HEADERS NOT LABELED SHALL BE MIN (2) #2-2X10 DFL -DBL ALL JST UNDER ISLAND -SOILS IN THIS AREA COMMONLY HAVE A VERY HIGH SHRINK SWELL

CAPACITY, OUR FIRM RECOMMENDS ALL SITES BE EVALUATED BY A GEOTECHNICAL FIRM PRIOR TO PLACEMENT OF FOUNDATIONS -PROVIDE CARBON MONOXIDE AND SMOKE DETECTORS PER IRC REQUIREMENTS

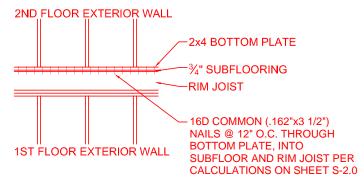
-ANY PORTION OF THESE PRINTS ISSUED WITHOUT A MIN. OF S-1.0 -S-4.0 SHALL NOT BE CONSIDERED A COMPLETE SET OF CONSTRUCTION DOCUMENTS -INSTALL W8X15 STEEL BEAM MIN. UNDER ALL F.P. WALLS/HEARTHS (THAT WILL RECEIVE ROCK) UNLESS NOTED AS A LARGER BEAM. ANY

(THAT WILL RECEIVE ROCK) UNLESS NOTED AS A LARGER BEAM. A STONE OVER 2" DEEP, NOTIFY ENG. TO VERIFY LOADS -FOUNDATION SHALL BE CONSTRUCTED PER JOHNSON COUNTY RESIDENTIAL FOUNDATION GUIDLINE, SEE ATTACHED -ICE AND WATER SHIELD AS REQUIRED PER IRC

BRACED WALLS: SEE CALCULATIONS ON SHEET S-2.0, PER ASCE7-10 REQUIREMENTS AS ALLOWED BY IRC 2018 R301.2.1

 ALL EXTERIOR WALLS SHALL BE SHEATHED PER ANY ONE OF THE FOLLOWING OPTIONS:
 •7/16" APA-RATED PLYWOOD/OSB WITH 8d NAILS @ 6"
 O.C. AT EDGES AND @ 12" O.C. IN THE FIELD
 •7/16" SHIPLAP PANEL SHEATHING (I.E. LP SMARTSIDE OR EQUIVALENT) WITH 8d NAILS @ 6" O.C. AT EDGES AND @ 12" O.C. IN THE FIELD ·3/8" SHIPLAP PANEL SHEATHING (I.E. LP SMARTSIDE OR EQUIVALENT) WITH 6d NAILS @ 4" O.C. AT EDGES AND @ 12" O.C. IN THE FIELD

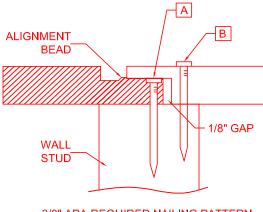
INTERIOR BRACED WALL LOCATIONS ONLY SHOWN WHEN REQUIRED BY ADDITIONAL BRACING SECTION OF CALCULATIONS ON SHEET S-2.0



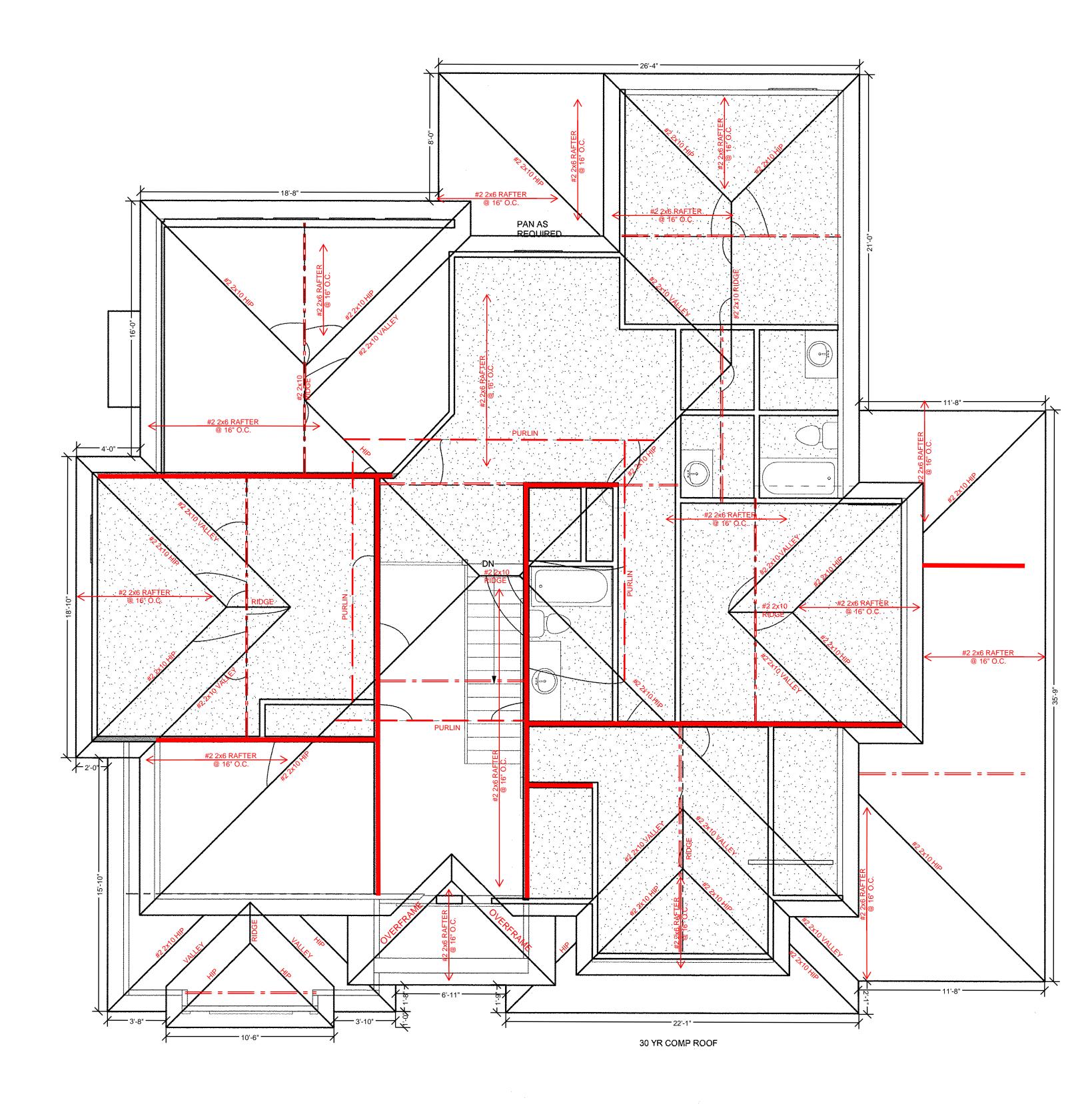
SPECIFIED PER PLAN. FOR EXAMPLE, IF REQUIRED SPACING IS 4" O.C., BOTTOM LAP SHALL

NAILED @ 4" O.C. (NAIL "B")

FIRST BE NAILED AT 4" O.C. (NAIL "A"), THEN FULL DEPTH SECTION OF OVERLAP PANEL SHALL BE



3/8" APA REQUIRED NAILING PATTERN FOR SHIPLAP PANEL SHEATHING



1 ROOF PLAN 1/4" = 1'-0"

<u>NOTES</u>

ROOF DESIGNED FOR LIGHT ROOF COVERING 30PSF TOTAL LOAD [10PSF DL, 20PSF LL (SL)]

RAFTERS (DOUG-FIR, OR EQUAL): SEE SPAN CHARTS BELOW

CODE MINIMUM RAFTERS #2-2x6 SPACING MAX HORIZONTAL CLEARSPAN @24" (11'-11" #2-2x6 14'-1" #2**-**2x8 #2-2x8 18'_5" #2-2x10 @24" (#2-2x10 @16" O.C.

NOTE: CODE MINIMUM L/240 DEFLECTION

GREATER THAN CODE

	002	
RAFTERS	SPACING	MAX HORIZONTAL CLEARSPAN
#2 - 2x6	@24" O.C.	8'-6"
#2 - 2x6	@16" O.C.	9'-9"
#2 - 2x8	@24" O.C.	11'-3"
#2 - 2x8	@16" O.C.	12'-9"
#2 - 2x10	@24" O.C.	14'-3"
#2 - 2x10	@16" O.C.	16'-3"

DEFLECTION = L/360 LIVE LOAD, L/240 TOTAL LOAD VAULTS TO BE 2x10 DEPTH

ALL RIDGES, HIPS, AND VALLEYS NOT MARKED SHALL BE (1) NOMINAL SIZE LARGER THAN THE INTERSECTING RAFTERS

PURLINS ARE 2x6 MIN. PURLIN STRUTS ARE AT 4'-0" O.C.

PURLIN STRUTS SHALL BE INSTALLED AT NOT LESS

THAN A 45 DEGREE ANGLE WITH THE HORIZONTAL ALL PURLINS STRUTS SHALL HAVE A MAXIMUM UNBRACED LENGTH OF 8'-0" PURLINS STRUTS SHALL BE CONSTRUCTED IN A "T"

CONFIGURATION AND PER THE FOLLOWING CHART

PURLIN STRUT	MAX PURLIN STRUT LENGTH
(2) 2x4	8'-0"
(1) 2x4 & (1) 2x6	12'-0"
(1) 2x6 & (1) 2x8	20'-0"
(2) 2x6 & (1) 2x8	30'-0"
CONSULT ARCH./ENGR.	>30'-0"

-EACH END OF STRUT SHALL BE FASTENED WITH MIN.

-EACH END OF STRUT SHALL BE FASTENED WITH MIN. (3) 8d OR (2) 16d NAILS -RIDGE BRACES ARE SAME AS PURLIN BRACES; SPACING, SIZE, CONFIGURATION, AND INSTALLATION (SEE PURLIN BRACE NOTE ABOVE) -HIP AND VALLEY BRACES ARE THE SAME AS PURLINS SIZE, CONFIGURATION, AND INSTALLATION (SEE PURLIN DRACE NOTED ADOVE)

BRACE NOTES ABOVE)

SEE DETAILS 1, 5, 6, 7, 11, 12, 13, & 14 ON S-1.2 FOR ROOF FRAMING AND INSULATION OPTIONS

——— — - PURLIN

- LOAD BEARING WALL

= = - LOAD BEARING BEAM/ GIRDER PER PLAN

SEE DETAIL 12/S-1.2 FOR RAFTER TIE CONNECTION FOR CLG JOISTS PERPENDICULAR TO HIP RAFTERS

ALL RIDGES, HIPS, & VALLEYS SHALL BE FASTENED TO EXTERIOR WALLS, BEAMS, OR LOAD BEARING WALL TOP PLATE PER FRAME FASTENING SCHEDULE ON S-1.0, AND PER R802.11, ALL UPLIFT OVER 200# SHALL BE FASTENED AS SHOWN ON THIS PLAN SHEET

ALL RAFTERS SHALL BE FASTENED TO TOP PLATE WITH (3) 10d COMMON NAILS

IF ADDITIONAL HOLD DOWN STRAP REQUIRED: X=UPLIFT FORCE (POUNDS), REQUIRED SIMPSON HOLD-DOWN

SIMPSON STRAP FASTENED TO STRUCTURAL HIP, VALLEY, OR RIDGE AND STRUT SUPPORT. MUST ALSO STRAP BOTTOM END OF STRUT TO BEAM/WALL BELOW WITH SAME SIZE STRAP



THIS DOCUMENT CONTAINS

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RIDGE SUMMIT, MO L× S NOTES NOTES R COI LOT 86 TRAIL I WOOD BROTHER THE DURANGO II LO 3137 SW. SUMMIT VIEW T **K** <u>–</u> <u>ип#</u>. <u>48629</u>

ł	HD#: 48629					
	C	DATE:	11/26/2024			
	СН	CLS				
NO.	ISSUE	/REVISION	Revision Date			

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S-0.6

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	NAIL GUN		PENETRATION	Al	LOWABLE L	OADS (POUND	S)
FASTENER DESCRIPTION	NAILS/	WIRE GAGE	REQUIRED INTO MAIN MEMBER FOR LATERAL		STRENGTH	WITHDRAWA	
DESCRIPTION	WIRE DIAMETER			SP DF/L		SP	DF/L
16 GA. STAPLE	.063	16	1	51		36	32
15 GA. STAPLE	.072	15	1	64		42	37
14 GA. STAPLE	.080	14	1	75		46	41
6d COOLER NAIL							
6d SINKER NAIL	.092	13	1	46		27	23
6d BOX NAIL							
6d CASING NAIL	.099	12-1/2	1-1/8	61	55	31	24
7d COOLER NAIL							
6d COMMON NAIL							
8d COOLER NAIL							
8d SINKER NAIL	.113	11-1/2	1-1/4	79	72	35	28
8d BOX NAIL							
8d CASING NAIL							
6d RING SHANK NAIL							
6d SCREW SHANK NAIL							
8d RING SHANK NAIL	.120	11	1-3/8	89	81	41	32
8d SCREW SHANK NAIL							
10d COOLER NAIL							
10d SINKER NAIL	.128	10-1/2	1-1/2	89	81	36	31
12d SHORT							
10d BOX NAILS							
12d BOX NAILS		1-1/2	101	101 93	40	31	
10d CASING NAILS							
8d COMMON NAILS							
16d SHORT	.131	10-1/4	1-1/2	106	97	41	32
12d SINKERS							
16d BOX NAILS	.135	10	1-1/2	113	103	42	33
10d RING SHANK NAILS							
10d SCREW SHANK NAILS							
12d RING SHANK NAILS	.135	10	1-5/8	113	103	46	36
12d SCREW SHANK NAILS							
10d COMMON NAILS							
12d COMMON NAILS							
16d SINKER NAILS	.148	9	1-5/8	128	118	46	36
20d BOX NAILS							
30d BOX NAILS							
16d RING SHANK NAILS							
16d SCREW SHANK NAILS	.148	9	1-3/4	128	118	50	40
16d COMMON NAILS							
40d BOX NAILS	.162	8	1-3/4	154	141	50	40
20d RING SHANK NAILS							
20d SCREW SHANK NAILS	.177	7	2-1/8	178	163	59	47
20d SINKER NAILS	.177	7	2-1/8	178	163	54	43
20d COMMON NAILS							
30d SINKER NAILS	.148	9	2-1/8	170	166	59	47

ALLOWABLE LOADS FOR PNEUMATIC OR

MINIMUM SHEATHING REQUIREMENTS

BUILDING COMPONENT	MATERIAL
ROOF SHEATHING	7/16" PLYWOOD
ROOF SHEATHING	1 x 4 #3 FURRING
FLOOR SHEATHING	3/4" T&G YELLOW PINE PLYWOOD
WALL COVERING	1/2" GYPSUM SHEATHING
CEILING COVERING	1/2" GYPSUM SHEATHING
EXTERIOR WALL	7/16" APA RATED SHEATHING
SHEATHING	RATED PANEL SIDING, RATED 16" O.C. 7/16" THICK

ALL SHEATHING MATERIALS TO BE APPLIED PERPENDICULAR TO JOISTS AND ENDS STAGGERED REFER TO TABLE R602.3(1) ON S-1.1 FOR FASTENING SCHEDULE

HIP/ VALLEY ALLOWABLE SPAN TABLE

ТҮРЕ	MAX. UNSUPPORTED SPAN							
TIPE	2x8	2x10	2x12	1 3/4"x9 1/2" LVL	1 3/4"x11 7/8" LVL			
HIP RAFTER	11'-3"	13'-3"	15'-2"	15'-8"	18'-2"			
VALLEY RAFTER	8'-11"	10'-6"	12'-0"	13'-2"	15'-3"			

NO JOIST HANGER NAILS ALLOWED FOR TOENAILS. NO GUN NAILS OR SCREWS ALLOWED IN CONNECTORS. TOENAILS SHALL ALWAYS BE A FULL 3" OR 3.5" NAIL. COLUMN CONNECTION TO STEEL BEAMS SHALL BE WITH A CLIP POST CAP WITH ALL FOUR TAB EARS BENT AROUND THE BOTTOM FLANGE OF THE BEAM. FOR A BEARING PLATE, FOUR HOLES SHALL BE DRILLED IN THE BOTTOM FLANGE OF THE STEEL BEAM TO MATCH THE HOLE PATTERN OF THE PLATE. 1/2" x 2" BOLTS SHOULD THEN BE INSTALLED WITH A FLAT WASHER, LOCK WASHER, AND A NUT IN EACH OF THE HOLES. THE POST CAP MAY BE WELDED TO THE STEEL BEAM IN ACCORDANCE WITH AWS D1.1-92 AS AN ALTERNATIVE, AND WOULD NEED TO BE INSPECTED BY AN AWS-CERTIFIED INSPECTOR.

SEALS.

AREA.

GENERAL NOTES

MAKE ANY APPROPRIATE MODIFICATIONS TO THE PLANS

- FOUNDATION NOTES
- BASED ON ACTUAL SITE CONDITIONS. FOUNDATION WALLS SHALL BE DAMP-PROOFED PER IRC SECTION R406. PROVIDE A MINIMUM 4" PERFORATED DRAIN AROUND USABLE SPACE BELOW GRADE OR OTHER EQUIVALENT MATERIALS PER IRC SECTION 405.1. THE PIPE SHALL BE COVERED WITH NOT LESS THAN 6" OF WASHED GRAVEL OR CRUSHED ROCK. THE DRAIN SHALL DAYLIGHT TO THE EXTERIOR BELOW THE FLOOR LEVEL OR TERMINATE
- IN A MINIMUM 20 GALLON SUMP PIT
- FOUNDATION DESIGN SHALL BE BASED ON A MINIMUM SOIL BEARING CAPACITY OF 1500 PSF. FOOTINGS SHALL BE A MINIMUM OF 16" WIDE AND 8" DEEP WITH (2) #4 BARS CONTINUOUS, LOCATED A MINIMUM OF 3" CLEAR FROM THE BOTTOM. FOOTINGS SHALL BE A
- MINIMUM OF 36" BELOW GRADE FOR FROST PROTECTION. COLUMN PADS SHALL BE A MINIMUM OF 24"x24"x8" WITH (3) #4 BARS EACH WAY.
- FOUNDATION WALLS SHALL BE A MINIMUM OF 8" THICK WITH MINIMUM #4 BARS @ 24" O.C. HORIZONTAL AND VERTICAL WITH THE TOP BAR WITHIN 8" OF THE TOP OF THE WALL UNLESS NOTED OTHERWISE ON PLAN.
- REINFORCEMENT SHALL LAP A MINIMUM OF 24".
- INTERIOR BEARING WALLS AND COLUMNS SHALL BE ISOLATED FROM THE BASEMENT FLOOR SLAB. INTERIOR NON-BEARING WALLS, OTHER THAN THOSE RESTING DIRECTLY ON THE FOOTING, SHALL BE ISOLATED FROM THE FLOOR FRAMING ABOVE BY A SEPARATION
- OF 1/2" CONCRETE FLOOR SLABS ON GRADE SHALL BE A MINIMUM OF 4" THICK OVER A MINIMUM 4" BASE OF SAND, GRAVEL, OR CRUSHED STONE. BASEMENT SLABS SHALL HAVE A MINIMUM 6 MIL POLYETHYLENE OR APPROVED VAPOR RETARDER WITH JOINTS LAPPED NOT LESS THAN 6" AND SHALL BE PLACED BETWEEN THE FLOOR SLAB
- AND THE BASE COURSE. FLOOR SLABS SUPPORTED BY FILL CONSISTING OF MORE THAN 24" OF GRANULAR FILL OR 8" OF EARTH SHALL BE REINFORCED PER A SEPARATE ENGINEERING DESIGN. 12
- BASEMENT FOUNDATION SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WITH MINIMUM 1/2" DIAMETER ANCHOR BOLTS EMBEDDED AT LEAST 7" INTO THE 13 CONCRETE AND SPACED NOT MORE THAN 3' ON CENTER AND WITHIN 12" OF EACH END OF THE PLATE SECTION PER IRC SECTION R403.1.6.
- FOUNDATION WINDOW WELLS FOR SECONDARY MEANS OF EGRESS SHALL PROVIDE A MINIMUM 3'x3' HORIZONTAL AREA. THE BASE OF ALL FOOTING EXCAVATIONS SHOULD BE FREE OF ALL WATER AND LOOSE MATERIAL PRIOR TO PLACING CONCRETE. CONCRETE SHOULD BE PLACED AS
- SOON AS POSSIBLE AFTER EXCAVATING SO THAT EXCESSIVE DRYING OR DISTURBANCE OF BEARING MATERIALS DOES NOT OCCUR. SHOULD THE MATERIALS AT BEARING LEVEL BECOME EXCESSIVELY DRY OR SATURATED, WE RECOMMEND THAT THE AFFECTED MATERIAL BE REMOVED PRIOR TO PLACING CONCRETE. IT IS RECOMMENDED THAT ALL FOOTING EXCAVATIONS BE EVALUATED AND TESTED BY A GEOTECHNICAL ENGINEER IMMEDIATELY PRIOR TO PLACEMENT OF FOUNDATION CONCRETE. UNSUITABLE AREAS IDENTIFIED AT THIS TIME SHOULD BE CORRECTED. CORRECTIVE PROCEDURES WOULD BE DEPENDENT UPON CONDITIONS ENCOUNTERED AND MAY INCLUDE THE DEEPENING OF FOUNDATION ELEMENTS, OR THE UNDERCUTTING OF UNSUITABLE MATERIALS AND REPLACEMENT

<u>STAIRWAY NOTES</u>

WITH ENGINEERED FILL.

- STAIRWAYS SHALL PROVIDE A MAXIMUM 7 3/4" RISE AND A MINIMUM 10" RUN. PROVIDE MINIMUM 36" GUARDRAILS ON THE OPEN SIDES OF RAISED FLOORS, PORCHES, AND BALCONIES. PROVIDE MINIMUM 34" GUARDRAILS ON THE OPEN SIDES OF
- STAIRWAYS LOCATED MORE THAN 30" ABOVE THE FLOOR OR GRADE BELOW. GUARDRAIL ENCLOSURES SHALL HAVE INTERMEDIATE RAILS OR ORNAMENTAL PATTERNS
- THAT DO NOT ALLOW PASSAGE OF A 4" DIAMETER SPHERE EACH STAIRWAY OF 3 OR MORE RISERS SHALL PROVIDE A CONTINUOUS HANDRAIL ON AT LEAST ONE SIDE BETWEEN 34" AND 38" ABOVE THE NOSING OF THE TREADS.
- HANDRAILS SHALL HAVE A CIRCULAR CROSS-SECTION OF 1 ¹/₄" MINIMUM TO 2" MAXIMUM OR ANOTHER APPROVED GRASPABLE SHAPE PER IRC SECTION R311.7.8.5.
- PROVIDE A MINIMUM 6'-8" OF HEADROOM CLEARANCE IN STAIRWAYS. ENCLOSED ACCESSIBLE SPACE UNDER STAIRWAYS SHALL HAVE WALLS AND THE UNDERSIDE OF THE STAIR AND LANDING PROTECTED WITH 1/2" GYPSUM BOARD ON THE
- ENCLOSURE SIDE. WINDERS SHALL PROVIDE A MINIMUM TREAD OF 6" AT ANY POINT WITHIN CLEAR WIDTH OF STAIRS. WINDER TREAD PROPORTION IS TO COMPLY WITH IRC SECTION

GLAZING NOTES:

R311.7.5.2.1.

- GLAZING IN HAZARDOUS LOCATIONS AS IDENTIFIED IN IRC SECTION R308.4 SHALL BE OF APPROVED SAFETY GLAZING MATERIALS. GLASS IN STORM DOORS, INDIVIDUAL FIXED OR OPERABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24" ARCH OF THE DOOR IN A CLOSED POSITION AND WHOSE BOTTOM EDGE IS WITHIN 60" OF THE FLOOR, WALLS ENCLOSING STAIRWAYS AND LANDINGS WHERE THE GLAZING IS WITHIN 60" OF THE TOP OR BOTTOM OF THE STAIR, ENCLOSURES FOR SPAS, TUBS, SHOWERS AND WHIRLPOOLS, GLAZING IN FIXED OR OPERABLE PANELS EXCEEDING 9 S.F. AND WHOSE BOTTOM EDGE IS LESS THAN 18" ABOVE THE FLOOR OR WALKING SURFACE WITHIN 36". IN DWELLING UNITS WHERE THE OPENING OF AN OPERABLE WINDOW IS LOCATED MORE THAN 72" ABOVE THE FINISHED GRADE OR SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE A MINIMUM OF 24" ABOVE THE FINISHED FLOOR OF THE ROOM IN WHICH THE WINDOW IS LOCATED. OPERABLE
- SECTIONS OF WINDOWS SHALL NOT PERMIT OPENINGS THAT ALLOW PASSAGE OF A 4" DIAMETER SPHERE WHERE SUCH OPENINGS ARE LOCATED WITHIN 24" OF THE FINISHED FLOOR.
- FRAMING NOTES ALL LUMBER SIZES ARE FOR DOUGLAS FIR-LARCH UNLESS NOTED OTHERWISE
- ALL HEADERS ARE TO BE A MINIMUM OF (2) #2 2x10'S UNLESS NOTED OTHERWISE BLOCK CANTILEVERS, DOOR JAMBS, AND OVER BEAMS.
- ALL HEADERS/BEAMS ARE TO BEAR ON A MINIMUM OF (2) 2x4 POSTS UNLESS NOTED OTHERWISE
- INTERIOR NON-BEARING WALLS, OTHER THAN THOSE RESTING DIRECTLY ON THE FOOTING, SHALL BE ISOLATED FROM THE FLOOR FRAMING ABOVE WHERE JOISTS RUN PARALLEL TO FOUNDATION WALLS, SOLID BLOCKING FOR A MINIMUM OF (2) JOIST SPACES SHALL BE PROVIDED AT A MAXIMUM OF 4' ON CENTER TO TRANSFER LATERAL LOADS ON THE WALL TO THE FLOOR DIAPHRAGM. THE BLOCKING SHALL BE SECURELY NAILED TO THE JOISTS AND FLOORING. NAIL JOISTS AND
- BLOCKING TO SILL PLATE WITH (4) 10D NAILS. IF DUCTS ARE INSTALLED IN THE FIRST JOIST SPACE(S), NAIL 2x4'S FLAT AT 4' ON CENTER WITHIN THE JOIST SPACE(S) AND THEN PROVIDE SOLID BLOCKING, INSTALLED
- UPRIGHT, IN THE NEXT TWO JOIST SPACES. SECURE THE 2x4'S TO THE SILL PLATE WITH (4) 10D NAILS. ALL SILLS AND SLEEPERS SUPPORTED ON CONCRETE OR MASONRY AND FURRING ATTACHED TO CONCRETE OR MASONRY SHALL BE OF DECAY RESISTANT MATERIALS.
- JOISTS UNDER BEARING PARTITIONS SHALL BE SIZED TO CARRY THE DESIGN LOAD IN ACCORDANCE WITH IRC SECTION R502.4. JOISTS FRAMING FROM OPPOSITE SIDES OVER BEARING SUPPORTS SHALL LAP A MINIMUM OF 3" AND SHALL BE NAILED TOGETHER WITH MINIMUM 10D FACE NAILS.
- JOISTS FRAMING INTO A WOOD GIRDER OR BEAM SHALL BE SUPPORTED BY APPROVED FRAMING ANCHORS OR ON MINIMUM 2"x2" LEDGER STRIPS. HEADER AND TRIMMERS SHALL BE OF SUFFICIENT CROSS SECTION TO SUPPORT THE FLOOR FRAMING. TRIMMER JOISTS SHALL BE DOUBLED WHEN THE HEADER IS
- SUPPORTED MORE THAN 3' FROM THE TRIMMER JOIST BEARING. WHEN THE HEADER SPAN EXCEEDS 4', THE HEADER AND TRIMMER SHALL BE DOUBLED.
- JOISTS AT SUPPORTS SHALL BE SUPPORTED LATERALLY AT THE ENDS BY FULL-DEPTH SOLID BLOCKING NOT LESS THAN 2" IN NOMINAL THICKNESS OR BY ATTACHMENT TO A HEADER, BAND, OR RIM JOIST OR TO AN ADJOINING STUD OR OTHERWISE PROVIDED WITH LATERAL SUPPORT TO PREVENT ROTATION.
- ALL WALL COVERINGS ARE TO COMPLY WITH IRC SECTIONS 702 AND 703. ALL RAFTER / COLLAR TIES ARE TO COMPLY WITH IRC SECTION 802.
- ALL RAFTERS ARE TO HAVE 2x4 COLLAR TIES @ 48" O.C. IN THE UPPER 1/3 OF DISTANCE BETWEEN THE CEILING AND ROOF BLOCKING BETWEEN JOISTS UNDER A PERPENDICULAR LOAD-BEARING WALL IS NOT REQUIRED.
- THE BOTTOM OF ALL FLOOR ASSEMBLIES SHALL BE PROVIDED WITH A 1/2" GYPSUM WALLBOARD MEMBRANE (IF REQUIRED BY LOCAL CODE). I-JOIST AND FLOOR TRUSS SYSTEMS SHALL BE FIRE PROTECTED PER IRC AS ADOPTED BY AHJ. STUDS SHALL BE CONTINUOUS FROM THE FLOOR TO THE ROOF / CEILING DIAPHRAGM PER IRC SECTION 602.3

CONCRETE NOTES:

CONCRETE SHALL BE AIR-ENTRAINED (5%-7%) WITH A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2500 PSI FOR BASEMENT AND INTERIOR FLOOR SLABS, 3000 PSI FOR BASEMENT AND FOUNDATION WALLS, AND 3500 PSI FOR PORCHES, CARPORTS AND GARAGE FLOOR SLABS.

- EMERGENCY EGRESS AND RESCUE NOTES:
- PROVIDE ONE WINDOW FOR EACH BEDROOM THAT HAS A MINIMUM OPENABLE AREA OF 5.7 S.F. WITH A MINIMUM OPENABLE HEIGHT OF 24" AND WIDTH OF 21". IN ADDITION, THE OPENABLE PORTION OF EGRESS WINDOWS SHALL NOT EXCEED 44" ABOVE THE ADJOINING FLOOR OR PERMANENT STEP.
- PROVIDE SMOKE ALARMS IN EACH SLEEPING ROOM, OUTSIDE OF EACH SLEEPING AREA, AND ON EACH FLOOR INCLUDING BASEMENTS. ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE DWELLING.
- PROVIDE CARBON MONOXIDE ALARMS AS REQUIRED PER IRC. CARBON MONOXIDE ALARMS SHALL BE INSTALLED OUTSIDE OF EACH SEPARATE SLEEPING AREA. WHERE FUEL-BURNING APPLIANCES ARE LOCATED WITHIN A BEDROOM OR ITS ATTACHED BATHROOM, A CARBON MONOXIDE ALARM SHALL BE INSTALLED IN THE BEDROOM.

GARAGE NOTES:

- THE GARAGE FLOOR SHALL SLOPE TOWARDS THE GARAGE DOORWAYS OR SLOPE TO A TRENCH OR UNTRAPPED DRAIN THAT DISCHARGES DIRECTLY TO THE EXTERIOR ABOVE GRADE.
- DOORS BETWEEN THE GARAGE AND DWELLING MINIMUM 1 3/8" THICK SOLID WOOD, MINIMUM 1 3/8" THICK SOLID OR HONEY-COMB-CORE STEEL DOOR, OR 20-MINUTE FIRE-RATED EQUIPPED WITH A SELF-CLOSING DEVICE PER IRC SECTION R302.5.1.
- GARAGE VEHICLE DOORS AND FRAMES SHALL BE DESIGNED AND INSTALLED TO MEET THE 115-MPH 3-SECOND GUST LOADING PER DASMA 108 AND ASTM E 330-96 PER **IRC SECTION R301.2.1**
- THE GARAGE SHALL BE SEPARATED FROM THE DWELLING AND ITS ATTIC AREAS BY MINIMUM 5/8" GYPSUM BOARD APPLIED TO THE GARAGE SIDE. WHERE HABITABLE SPACE OCCURS ABOVE THE GARAGE. THE FLOOR/CEILING ASSEMBLY SHALL BE PROTECTED WITH MINIMUM 5/8" TYPE X GYPSUM BOARD ON THE GARAGE CEILING. WHERE A FLOOR/CEILING SPACE IS PROVIDED ABOVE THE GARAGE, COLUMNS AND BEAMS SUPPORTING THE SEPARATION SHALL ALSO BE PROTECTED WITH 5/8" GYPSUM BOARD OR EQUIVALENT.
- GARAGE DOOR H-FRAME FOR THE ATTACHMENT OF THE TRACK AND COUNTER BALANCE SHALL CONSIST OF THE FOLLOWING: 2x6 VERTICAL JAMBS RUNNING FROM FLOOR TO CEILING ATTACHED WITH 1 3/4"x0.120" NAILS AT 7" ON CENTER STAGGERED WITH (7) 3 1/4"x0.120" NAILS THROUGH THE JAMB INTO THE HEADER, MINIMUM 2x8 HEADER FOR ATTACHMENT OF THE COUNTER BALANCE SYSTEM.
- ANY ATTACHED GARAGE TO THE MAIN HOUSE SHALL BE PROVIDED WITH A SINGLE HEAT DETECTOR. THE HEAT DETECTOR SHALL BE HARDWIRED AND INTERCONNECTED WITH THE HOUSEHOLD SMOKE ALARM SYSTEM. THE HEAT DETECTOR SHALL BE LISTED FOR THE AMBIENT ENVIRONMENT AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS.

MECHANICAL/INSULATION: BUILDING ENVELOPE INSULATION SHALL COMPLY WITH IRC TABLE N1102.1.2 OR THE 2018 IECC. (SEE S-6.0 FOR MORE DETAILS)

1. ENCLOSED ATTICS SHALL HAVE CROSS VENTILATION FOR EACH SEPARATE SPACE BY VENTILATING OPENINGS PROTECTED AGAINST THE ENTRANCE OF RAIN OR SNOW. VENTILATING OPENINGS SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE MESH, WITH 1/8" TO 1/4" OPENINGS. THE TOTAL FREE VENTILATING AREA SHALL NOT BE LESS THAN 1/150th OF THE AREA OF SPACE VENTILATED. WHERE THE VENTILATORS ARE LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED, THE REQUIRED AREA MAY BE REDUCED TO 1/300th.

BUILDING COMPONENT	FASTEN TO	FASTEN WITH			
	RIDGE / VALLEY / HIP	TOENAIL W/ (4) 16D, FACENAIL W/ (3) 16D			
RAFTERS	PLATE	TOENAIL W/ (3) 10D			
RAFIERS	LEDGER STRIPS SUPPORTING JOISTS OR RAFTERS	FACENAIL W/ (3) 16D			
	COLLAR TIE TO RAFTERS	FACENAIL W/ (3) 10D			
	TOP PLATE	TOENAIL W/ (3) 8D @ EACH END			
	WHERE CLG JST RUN PARALLEL TO RAFTERS FAC	ENAIL TO RAFTERS W/ (3) 10D MINIMUM			
EILING JOISTS	LAPS OVER PARTITIONS	FACENAIL W/ (3) 10D			
	BLOCKING BETWEEN JOISTS/RAFTERS TO TOP PLATE	TOENAIL W/ (3) 8D			
	BUILT-UP BEAMS, 2" LUMBER LAYERS, FACENAIL OPPOSITE SIDES, (2) @ EACH END PLUS	10D @ 32" O.C. STAGGERED, TOP & BOTTOM, OPPOSITE SIDES			
BEAMS	BUILT-UP BEAMS OF ENGINEERED LUMBER, FACE NAIL OPPOSITE SIDES	(2) ROWS @ 12" O.C.			
	BUILT-UP HEADER, TWO PIECES W/ A 1/2" SPACER	16D @ 16" O.C. ALONG EDGES			
	BUILT-UP HEADER, TWO PIECES W/ NO 1/2" SPACER	3" x 0.131" NAILS @ 12" O.C. ALONG EDGES			
	BEARING	TOENAIL W/ (2) 18D @ EACH END			
	RIM JOIST TO SILL OR TOP PLATE	TOENAIL W/ 8D COMMON OR 10D BOX @ 6" O.C.			
	JOIST TO SILL OR GIRDER	TOENAIL W/ (3) 8D			
	JOIST TO RIM JOIST	FACENAIL W/ (3) 16D			
	BRIDGING TO JOIST	TOENAIL W/ (2) 8D			
LOOR JOISTS	I-JOIST TO BEARING PLATE	TOENAIL W/ (2) 8D - ONE INTO EACH SIDE AT LEAST 1 1/2" FROM THE END			
	RIM JOIST TO I-JOIST	FACENAIL W/ (2) 10D BOX - ONE INTO EACH FLANGE			
	SOLE PLATE TO LSL RIM BOARD	16D BOX @ 12" O.C.			
	SINGLE JOIST HANGERS*	10D FACENAILS AND TOENAILS			
	DOUBLE JOIST HANGERS*	16D FACENAILS AND TOENAILS			
	TOP AND SOLE PLATE TO STUD	END NAIL W/ (2) 16D			
	STUD TO SOLE AND TOP PLATE	TOENAIL W/ (4) 8D			
	DOUBLE TOP PLATES	FACENAIL W/ 16D @ 16" O.C.			
	DOUBLE TOP PLATE LAP SPLICE	FACENAIL W/ (8) 16D			
	TOP PLATE LAPS AND INTERSECTIONS	FACENAIL W/ (2) 16D			
	DOUBLE STUDS	FACENAIL W/ 16D @ 24" O.C.			
	BUILT-UP CORNER STUDS	FACENAIL W/ 16D - 2 ROWS @ 24" O.C.			
	STEEL "X" BRACING	FACENAIL W/ (2) 16D IN EACH TOP AND BOTTOM PLATE AND (1) 8D PER STUD			
	SOLE PLATE TO JOIST OR BLOCKING	FACENAIL W/ 16D @ 16" O.C.			
WALLS	SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL LINES, PERPENDICULAR TO FRAMING	FACENAIL W/ (3) 16D @ 16" O.C. ALONG BRACED WALL PANEL			
	TOP PLATE TO JOIST OR BLOCKING AT BRACED WALL LINES, PERPENDICULAR TO FRAMING	TOENAIL W/ 8D @ 6" O.C. ALONG BRACED WALL PANEL			
	SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL LINES, PARALLEL TO FRAMING, BLOCKING @ 16" O.C.	FACENAIL W/ (3) 16D @ 16" O.C. ALONG BRACED WALL PANEL AND AT EACH BLOCK			
	TOP PLATE TO JOIST OR BLOCKING AT BRACED WALL LINES, PARALLEL TO FRAMING, BLOCKING @ 16" O.C.	TOENAIL W/ 8D @ 6" O.C. ALONG BRACED WALL PANEL AND AT EACH BLOCK			
	NON-STRUCT. SIDING OVER STRUCT. SHEATHING	(1) 6D BOX IN EACH STUD			
	FIBER-CEMENT PLANK SIDING	(1) 6D GALVANIZED IN EACH STUD			
	WINDOW INSTALLATION NAILING	1 ³ / ₄ " - 2" ROOFING NAILS @ 12" O.C. MAX.			

FRAME FASTENING SCHEDULE

DUCT SEALING METHOD, PER 2018 IRC W1103.3.2

N1103.2.2 (R403.2.2) SEALING (MANDATORY) DUCTS, AIR HANDLERS, AND FILTER BOXES SHALL BE SEALED. JOINTS AND SEAMS SHALL COMPLY WITH SECTION M1601.4.1 OF THIS CODE.

EXCEPTIONS: 1. AIR-IMPERMEABLE SPRAY FOAM PRODUCTS SHALL BE PERMITTED TO BE APPLIED WITHOUT ADDITIONAL JOINT

2. WHERE A DUCT CONNECTION IS MADE THAT IS PARTIALLY INACCESSIBLE, THREE SCREWS OR RIVETS SHALL BE EQUALLY SPACED ON THE EXPOSED PORTION OF THE JOINT SO AS TO PREVENT A HINGE EFFECT. 3. CONTINUOUSLY WELDED AND LOCKING-TYPE LONGITUDINAL JOINTS AND SEAMS IN DUCTS OPERATING AT STATIC PRESSURE LESS THAN 2 INCHES OF WATER COLUMN (500 Pa) PRESSURE CLASSIFICATION SHALL NOT REQUIRE ADDITIONAL CLOSURE SYSTEMS.

DUCT TIGHTNESS SHALL BE VERIFIED BY EITHER OF THE FOLLOWING:

1. POST CONSTRUCTION TEST: TOTAL LEAKAGE SHALL NOT BE LESS THAN OR EQUAL TO 4 CFM (113.3 L/MIN) PER 100FT² (9.29m²) OF CONDITIONED FLOOR AREA WHEN TESTED AT A PRESSURE DIFFERENTIAL OF 0.1 INCHES W.G. (25 Pa) ACROSS THE ENTIRE SYSTEM, INCLUDING THE MANUFACTURER'S AIR HANDLER ENCLOSURE. ALL REGISTER BOOTS SHALL BE TAPED OR OTHERWISE SEALED DURING THE TEST. 2. ROUGH-IN TEST: TOTAL AIR LEAKAGE SHALL BE LESS THAN OR EQUAL TO 4 CFM (113.3 L/MIN) PER 100FT²

(9.29m²) OF CONDITIONED FLOOR AREA WHEN TESTED AT A PRESSURE DIFFERENTIAL OF 0.1 INCHES W.G. (25 Pa) ACROSS THE ENTIRE SYSTEM, INCLUDING THE MANUFACTURER'S AIR HANDLER ENCLOSURE. ALL REGISTERS SHALL BE TAPED OR OTHERWISE SEALED DURING THE TEST. IF THE AIR HANDLER IS NOT INSTALLED AT THE TIME OF THE TEST, TOTAL AIR LEAKAGE SHALL BE LESS THAN OR EQUAL TO 3 CFM (85 L/MIN) PER 100FT² (9.29m²) OF CONDITIONED FLOOR

EXCEPTION: THE TOTAL LEAKAGE IS NOT REQUIRED FOR DUCTS AND AIR HANDLERS LOCATED ENTIRELY WITHIN THE BUILDING THERMAL ENVELOPE.

PLANS SHALL COMPLY WITH THE 2018 INTERNATIONAL RESIDENTIAL CODE, ICC AS ADOPTED BY AHJ, AND ALL AMENDMENTS AS ADOPTED BY THE AHJ. IF ANY CHANGES OR DEVIATIONS ARE MADE FROM THESE PLANS THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE AUTHORITY AND THE ENGINEER TO EVALUATE THE CHANGES AND

WHERE DISCREPANCIES EXIST BETWEEN THE STANDARD COMMENTS, NOTES FOR THE DESIGN PROFESSIONAL OR THE CODE, THE MOST RESTRICTIVE SHALL APPLY. THE CONTRACTUAL OBLIGATION OF THESE PLANS IS TO PROVIDE THE OWNER/BUILDER AND THE AHJ WITH A SET OF PLANS THAT MEET AHJ AND CODE REQUIREMENTS FOR A SINGLE SITE CONSTRUCTION PROJECT. UNLESS REQUESTED BY OUR CLIENT, CODE/AHJ MINIMUM DESIGNS WILL BE UTILIZED. ALSO, UNLESS REQUESTED BY THE THIS DOCUMENT CONTAIN COPYRIGHTED MATERIAL AN

CONFIDENTIAL INFORMATION

SEMINATION, OR DUPLICATION OI

FAINED HEREIN MAY RESULT IN LIABILITY UNDER APPLICABLE LAW.

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GENERAL NOTES

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ELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/03/2025

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OWNER, OUR FIRM CAN NOT AND WILL NOT BE AUTHORIZED TO VISIT THE SITE TO EVALUATE THE SITE OR ANY CONSTRUCTION FOR THIS PROJECT. IMPLEMENTATION OF ALTERNATES TO THE DESIGNS INCLUDING BUT NOT LIMITED TO PIER DESIGNS, FOUNDATION ALTERATIONS, OR ANY STRUCTURAL CHANGES NOT PROVIDED BY HD GEOTECHNICAL FIRM PRIOR TO PLACING FOOTINGS. THE ATTACHED PLANS HAVE BEEN DESIGNED WITH THE UNDERSTANDING THAT OUR FIRM HAS NOT AND CAN NOT

ENGINEERING OR A PROFESSIONAL REFERRED BY HD ENGINEERING SHALL RELEASE HD ENGINEERING FROM ALL LIABILITY ASSOCIATED WITH THIS DESIGN. OUR FIRM HIGHLY RECOMMENDS THAT ANY SITE WITH GREATER THAN A 15% GRADE, ANY SITE WHERE A PREVIOUS STRUCTURE WAS LOCATED, OR ANY SITE WITH POTENTIAL FILL MATERIAL OR A POTENTIAL SOIL BEARING CAPACITY BELOW 1500 PSF SHOULD BE EVALUATED BY OUR FIRM OR AN HD ENGINEERING REFERRED VISIT OR INSPECT THE SITE WITHOUT WRITTEN CONSENT/REQUEST OF THE OWNER/BUILDER. DUE TO THIS FACT, OUR FIRM CAN ONLY DESIGN THE ATTACHED PLANS

TO CERTAIN CODE REQUIREMENTS WHICH ARE DETAILED THROUGHOUT THE PLAN AND ATTACHED DETAIL SHEETS, IF THE OWNER DESIRES GREATER THAN CODE

DUE TO THE WIDE VARIETY OF SOIL CONDITIONS, PLASTICITY INDEXES, AND SOIL BEARING CAPACITIES IN OUR AREA, OUR FIRM RECOMMENDS ALL SITES BE EVALUATED

DESIGNS THAT REQUEST MUST BE MADE CLEARLY AND IN WRITING PRIOR TO ENGINEERING OF THE PLAN.

BY HD ENGINEERING OR AN HD ENGINEERING REFERRED GEOTECHNICAL FIRM PRIOR TO PLACEMENT OF ANY "STANDARD" FOUNDATIONS.

THE FOUNDATION DESIGN SHALL COMPLY WITH THE ENFORCING JURISDICTION RESIDENTIAL FOUNDATION STANDARD IN LIEU OF ENGINEERING REPORT REQUIREMENTS

	TABLE R602.3(1) FASTENING SCHEDU	<u>LE</u>		CONTINUED TABLE R	602.3(1) FASTE	NING S	CHEDUL	<u>.E</u>		<u>DESIG</u>	<u>N L(</u>	<u>)ADS</u>	<mark>ک (P</mark>	<u>SF)</u>
EM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER ^{a, b, c}	SPACING AND LOCATION	ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FA	QTENED a, b, c	SPACING	OF FASTENERS		ELLING SHALL CO)MPLY WIT	H THE FOLL	JWING L(JAD CONDI
EM	DESCRIPTION OF BUILDING ELEMENTS		SPACING AND LOCATION		DESCRIPTION OF BUILDING ELEMENTS		451ENER", ", "	EDGES (INCHES) ¹	INTERMEDIATE SUPPORTS ^{c, e} (INCH	ES)	A	REA			MIN. DEAD
		ROOF 4-8D BOX (2 ¹ / ₂ " x 0.113"); OR		wood	STRUCTURAL PANELS, SUBFLOOR, ROOF AND INTERIO [SEE TABLE R602.3(3) FOR WOOD STRU				O FRAMING						LOAD
1	BLOCKING BETWEEN CEILING JOISTS OR RAFTERS TO TOP PLATE	3-8D COMMON (2 ¹ / ₂ 'x 0.113); OR 3-10D BOX (3" x 0.128"); OR			[SEE TABLE ROU2.3(3) FOR WOOD STRU					4	EXTERIOR		.S		10
2	CEILING JOISTS TO PLATE	3-3" x 0.131" NAILS	PER JOIST, TOE NAIL	30	³ / ₈ " - ¹ / ₂ "	6D COMMON (2" x 0.113") NAIL (5 8D COMMON (2 ¹ / ₂ " x 0.131") N RSRS-01 (2 ³ / ₈ " x 0.113") N	IAIL (ROOF); OR	6	12 ^f	CEILIN	DECKS, G JOISTS / ATTICS	6, STAIRS	AGE - SCUT	ITLE	10
3	CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (SEE SECTION R802.5.2 AND TABLE R802.5.2)	4-10D BOX (3" x 0.128"); OR 3-16D COMMON (3 ¹ / ₂ " x 0.162"); OR 4-3" x 0.131" NAILS	FACE NAIL	31	¹⁹ / ₃₂ " - 1"	8D COMMON NAIL (2 1/2" >	(0.131"); OR	6	12 ^f	CEILING	CESS ONLY ROOF G JOISTS / ATTICS	S NO STORA	AGE - SCUT		10
4	CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT)	TABLE R802.5.2	FACE NAIL	32	1 ¹ /8" - 1 ¹ /4"	RSRS-01 (2 ³ / ₈ " x 0.113") N 10D COMMON (3" x 0.148	") NÀIL; OR	6	12		ACCESS ONLY ROO	S WITH STO	ORAGE - DO	JOR	10
	(SEE SECTION R802.5.2 AND TABLE R802.5.2) COLLAR TIE TO RAFTER, FACE NAIL OR	4-10D BOX (3" x 0.128"); OR				8D (2 1/2" x 0.131") DEFOR					PULL DOWN LA ROOMS: NO				10
5	1 ¹ / ₄ " x 20 GA. RIDGE STRAP TO RAFTER	3-10D COMMON (3" x 0.148"); OR 4-3" x 0.131" NAILS	FACE NAIL EACH RAFTER	33 ¹ /2" :	STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1 ¹ / ₂ " GALVANIZED ROOFING NAIL, OR 1 ¹ / ₄ " LONG 16 GA. STAPLE WI		R, 3	6	-	ROOMS:	SLEEPING	;		10
6	RAFTER OR ROOF TRUSS TO PLATE	3-16D BOX NAILS (3 ¹ / ₂ " x 0.135"); OR 3-10D COMMON NAILS (3" x 0.148"); OR	2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH	3 4 ²⁵ / ₃₂ "	STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1 ³ /4" GALVANIZED ROOFING NAIL, OR 1 ¹ /2" LONG 16 GA. STAPLE WIT	7/ ₁₆ " HEAD DIAMETER "H ⁷ / ₁₆ " OR 1" CROWN	ζ,	6		ROOF: LIGHT R				10
0	RAFTER OR ROOF IRUSS TO PLATE	4-10D BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS	RAFTER OR TRUSS ¹	35	¹ /2" GYPSUM SHEATHING ^d	1 ¹ / ₂ " GALVANIZED ROOFING GALVANIZED, 1 ¹ / ₂ " LONG; 1 ¹ / ₄ " SC	REWS, TYPE W OR S	5 7	7		ROOF: HEAVY R CONCRETE /				20
7	ROOF RAFTERS TO RIDGE, VALLEY OR HIP RAFTERS OR ROOF RAFTER TO MINIMUM 2" RIDGE BEAM	4-16D (3 ¹ / ₂ " x 0.135"); OR 3-10D COMMON (3" x 0.148"); OR 4-10D BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS	TOE NAIL	36	⁵ /8" GYPSUM SHEATHING ^d	1 ³ / ₄ " GALVANIZED ROOFING GALVANIZED, 1 ⁵ / ₈ " LONG; 1 ⁵ / ₈ " SC		3 7	7		GUARDRAILS	3, HANDRA	AILS		200# LL N
_	RAFTER TO MINIMOM 2 RIDGE BEAM	3-16D BOX (3 ¹ / ₂ " x 0.135"); OR 2-16D COMMON (3 ¹ / ₂ " x 0.162"); OR 3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS	END NAIL			6D DEFORMED (2" x 0.120				BE USED U	OOF COVERING MA UNLESS 20 PSF DE	EAD LOAD A	AND HEAVY I	ROOF IS	NOTED ON
		WALL		37	3/4" AND LESS	8D COMMON (2 ¹ / ₂ " x 0.13 8D COMMON (2 ¹ / ₂ " x 0.13	131") NAIL	6	12	ROOF PLAI	AN. IF HEAVY ROO	IEER PRIOR	R TO ANY CO	ONSTRUC ⁻	TION, INCLU
8	STUD TO STUD (NOT BRACED WALL PANELS)	16D COMMON (3 ¹ / ₂ " x 0.162") 10D BOX (3" x 0.128"); OR 3" x 0.131" NAILS	24" O.C. FACE NAIL 16" O.C. FACE NAIL	38	⁷ / ₈ " - 1" 1 ¹ / ₈ " - 1 ¹ / ₄ "	8D DEFORMED (2 1/2" x 0 10D COMMON (3" x 0.148	.120") NAIL	6	12		ION AND SITE WOI ADS IT WILL BE NO				
		16D BOX (3 ¹ / ₂ " x 0.135"); OR 3" x 0.131" NAILS	18" O.C. FACE NAIL	39	1 7/8 - 1 7/4	8D DEFORMED (2 1/2" x 0	.120") NAIL	0	12						
9	STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16D COMMON (3 ¹ / ₂ " x 0.162")	12" O.C. FACE NAIL		TAR	LE R602.3(2)									
		16D COMMON (3 ¹ / ₂ " x 0.162")	16" O.C. EACH EDGE FACE NAIL		ALTERNATE ATTACI			02 3(1)		<u>C</u>	<u>OLUMI</u>	<u>N SC</u>	;HED	ULI	<u> </u>
10	BUILT-UP HEADER (2" TO 2" HEADER WITH 1/2" SPACER)	16D BOX (3 ¹ / ₂ " x 0.135")	12" O.C. EACH EDGE FACE NAIL					~~.~(1]		В	BASED ON FOOTIN	IG SIZE (AS	SUME 1500	PSF SOIL	.)
11	CONTINUOUS HEADER TO STUD	5-8D BOX (2 ¹ / ₂ " x 0.113"); OR 4-8D COMMON (2 ¹ / ₂ " x 0.131"); OR	TOE NAIL	NOMINAL MA			SP	ACING [©] OF FASTEN	ERS	PAD SIZ	ZE REINFORCE	MENT	COL. C		MAX.
		4-10D BOX (3" x 0.128")			ICHES)		EDGES (INCHES)	INTERMEDIATE SU	JPPORTS (INCHES)						LOAD
12	TOP PLATE TO TOP PLATE	16D COMMON (3 ¹ / ₂ " x 0.162")	16" O.C. FACE NAIL	WO	DD STRUCTURAL PANELS SUBFLOOR, ROOF ^g AND WALL		ICLEBOARD WALL S	HEATHING TO FRAM	ling ^f	24"x24"x1 30"x30"x1	. ,			CH40 CH40	6K 9.4K
		10D BOX (3" x 0.128"); OR 3" x 0.131" NAILS 8-16D COMMON (3 ¹ / ₂ " x 0.162"); OR	12" O.C. FACE NAIL		STAPLE 15 0		4		8	36"x36"x1	. ,			CH40	13.5K
13	DOUBLE TOP PLATE SPLICE	12-16D BOX (3 ¹ / ₂ " x 0.135"); OR 12-10D BOX (3 "x 0.128"); OR	FACE NAIL ON EACH SIDE OF END JOINT (MINIMUM 24" LAP SPLICE LENGTH	UP TO ¹			3		6	42"x42"x1	.14" (7) #4 BARS	3 E/W 🤅	3 1/2" SC	CH40	18.4K
		12-3" x 0.131" NAILS 16D COMMON (3 ¹ / ₂ " x 0.162")	EACH SIDE OF END JOINT)		0.113 NA	· · · · · · · · · · · · · · · · · · ·	3		6	48"x48"x1	. ,		3 1/2" SC	CH40	24.0K
14	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16D BOX (3 ¹ / ₂ " x 0.135"); OR 3" x 0.131" NAILS	18" O.C. FACE NAIL	¹⁹ / ₃₂ AND			4		р В	54"x54"x1	. ,			CH40	30.4K
		3-16D BOX (3 ¹ / ₂ " x 0.135"); OR	3 EACH 16" O.C. FACE NAIL	-732 AND	0.097 - 0.099 N		4		8	60"x60"x1	18" (10) #4 BARS				37.5K
15	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (AT BRACED WALL PANEL)	2-16D COMMON (3 ¹ / ₂ " x 0.162"); OR 4-3" x 0.131" NAILS	2 EACH 16" O.C. FACE NAIL 4 EACH 16" O.C. FACE NAIL		STAPLE 14	GA. 2	4		8	ALL FOUR	TAB EARS BENT A PLATE, FOUR HOL	AROUND TH	HE BOTTOM	I FLANGE	OF THE BEA
		4-8D BOX (2 ¹ / ₂ " x 0.113"); OR 3-16D BOX (3 ¹ / ₂ " x 0.135"); OF		224	STAPLE 15 C	GA. 1 ³ / ₄	3		6	SHOULD TH	AM TO MATCH THE	ED WITH A F	FLAT WASHE	ER, LOCK	KWASHER, A
6	TOP OR BOTTOM PLATE TO STUD	4-8D COMMON (2 1/2" x 0.131"); OR 4-10D BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS	TOE NAIL	²³ / ₃₂ AND	0.097 - 0.099 N	NAIL 2 1/4	4	1	8	ACCORDA	THE HOLES. THE F NCE WITH AWS D D BY AN AWS-CEF	01.1-92 AS A	AN ALTERNAT		
		3-16D BOX (3 ¹ / ₂ " x 0.135"); OR 2-16D COMMON (3 ¹ / ₂ " x 0.162"); OR 3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS	END NAIL		STAPLE 16	GA. 2	4	1	8				, LOTON.		
17	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	3-10D BOX (3" x 0.128"); OR 2-16D COMMON (3 ¹ / ₂ " x 0.162"); OR	FACE NAIL		STAPLE 14 G	GA. 2 ¹ /4	4		8	F	NGINE	FRF		IMR	FR
		3-3" x 0.131" NAILS 3-8D BOX (2 ¹ / ₂ " x 0.113"); OR		1	0.113 NAIL	· · · · · · · · · · · · · · · · · · ·	3		6	=					
18	1" BRACE TO EACH STUD AND PLATE	2-8D COMMON (2 1/2" x 0.113"); OR 2-10D BOX (3" x 0.128"); OR	FACE NAIL		STAPLE 15 G	· · · · · · · · · · · · · · · · · · ·	4		8	ſ					
		2 STAPLES 1 ³ /4" 3-8D BOX (2 ¹ / ₂ " x 0.113"); OR			0.097 - 0.099 N	NAIL 2 1/2	4	ACING [©] OF FASTENI	ERS			F _b (psi)	E (psi)	F _v (psi))
19	1" x 6" SHEATHING TO EACH BEARING	2-8D COMMON (2 ¹ / ₂ " x 0.131"); OR 2-10D BOX (3" x 0.128"); OR	FACE NAIL	NOMINAL MA THICKNESS (II		R AND LENGTH (INCHES)	EDGES (INCHES)			ſ	LVL	2600	1.8x10	285	
		2 STAPLES, 1" CROWN, 16 GA., 1 ³ / ₄ " LONG 3-8D BOX (2 ¹ / ₂ " x 0.113"); OR 3-8D COMMON (2 ¹ / ₂ " x			FLOOR UNDERLAYMENT; PLYW	OOD-HARDBOARD-PARTICLEBOARD ^f -					GLULAM	2400	1.8x10	190	
		0.131"); OR 3-10D BOX (3" x 0.128"); OR 3 STAPLES, 1" CROWN, 16 GA., 1 ³ /4" LONG				FIBER-CEMENT				l	PARALAM	2600	2.0x10	290	
20	1" x 8" AND WIDER SHEATHING TO EACH BEARING	WIDER THAN 1" x 8" 4-8D BOX (2 ¹ / ₂ " x 0.113"); OR 3-8D COMMON (2 ¹ / ₂ " x	FACE NAIL		3D, CORROSION-RESISTAN (FINISHED FLOORING C		3		6						
		0.131"); OR 3-10D BOX (3" x 0.128"); OR 4 STAPLES, 1" CROWN, 16 GA., 1 ³ / ₄ " LONG		1/4	STAPLE 18 GA., ⁷ / ₈ LC (FINISHED FLOORING C	OTHER THAN TILE)	3		6						
				/4	1 1/4 LONG x .121 SHANK x .375 HEAD DI (GALVANIZED OR STAINLESS STEEL) F 1 1/4 LONG, NO, 8 x .375 HEAD DIAMETEI	ROOFING NAILS (FOR TILE FINISH)	8		8						
21	JOIST TO SILL, TOP PLATE OR GIRDER	4-8D BOX (2 ¹ / ₂ " x 0.113"); OR 3-8D COMMON (2 ¹ / ₂ " x 0.131"); OR 3-10D BOX (3" x 0.128"); OR	TOE NAIL		1 1/4 LONG, NO. 8 x .375 HEAD DIAMETER (FOR TILE F	INISH)	8		8	BUILDER'S PLANS: TH	HE TERM "RI III DE	R'S PLANS	" REFERS TO	O A CERT	AIN I F\/FI
		3-3" x 0.131" NAILS			1 ¹ / ₄ RING OR SCREW SH			1		OF THE DRAWINGS. A POSSESSES COMPETE	AS THE NAME IMPL ENCE IN RESIDEN	LIES, THES	SE PLANS REG	EQUIRE TH AND A TH	HAT THE CO HOROUGH U
22	RIM JOIST, BAND JOIST OR BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO)	8D BOX (2 ¹ / ₂ " x 0.113") 8D COMMON (2 ¹ / ₂ " x 0.131"); OR 10D BOX (3" x 0.128"); OR	4" O.C. TOE NAIL 6" O.C. TOE NAIL	¹ / ₄ AND ⁵	12 1/2 CA (0.000") SH	ANK DIAMETER	3		5	OF THE INTERNATION ENGINEERING & DESIG	IAL RESIDENTIAL C GN THAT THEY PO	CODE (IRC) OSSESSES). THE CONT THE PARTIC	TRACTOR	R WARRANT
		3" x 0.131" NAILS 3-8D BOX (2 1/2" x 0.113"); OR		¹¹ / ₃₂ , ³ / ₈ , ¹⁵ / ₃₂ /	ND 1/4 RING OR SCREW SH	ANK NAIL-MINIMUM	6	8		CONSTRUCTION NECE SERVICES, AND FOR T SCOPE OF PROFESSIO	THAT REASON THE	IE CONTRAG	CTOR OR HO	OME OWN	NER HAS RE
23	1" x 6" SUBFLOOR OR LESS TO EACH JOIST	2-8D COMMON (2 ¹ / ₂ " x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 2 STAPLES, 1" CROWN, 16 GA., 1 ³ / ₄ " LONG	FACE NAIL		12 1/2 GA. (0.099) SH 1 1/2 RING OR SCREW SH 12 1/2 GA. (0.000") SH	IANK NAIL-MINIMUM	6		8	LIMITED SERVICES SH SOPHISTICATION. ALT	HALL BE TERMED "	"BUILDER'S	S PLANS" IN R	RECOGNI	ITION OF TH
		FLOOR		¹⁹ / ₃₂ , ⁵ / ₈ , ²³ / ₃₂ µ	ND 3/4 STAPLE 16 (6	1	8	WITH DUE CARE AND I DISCREPANCY DISCO	DILIGENCE, WE CA	CANNOT GU	JARANTEE PE SE PLANS SH	PERFECTION	ION. ANY AN REPORTED
24	2" SUBFLOOR TO JOIST OR GIRDER	3-16D BOX (3 ¹ / ₂ " x 0.135"); OR 2-16D COMMON (3 ¹ / ₂ " x 0.162")	BLIND AND FACE NAIL		•	HARDBOARD ^f	•	•		HD ENGINEERING. CO PLANS" TO THE FIELD FORM. DIMENSION ANI	CONDITIONS ENC	COUNTERE	ED AND MAKE	E LOGICA	AL ADJUSTM
25	2" PLANKS (PLANK & BEAM-FLOOR AND ROOF)	3-16D BOX (3 ¹ / ₂ " x 0.135"); OR 2-16D COMMON (3 ¹ / ₂ " x 0.162")	AT EACH BEARING, FACE NAIL		1 ¹ / ₂ LONG RING-GROOVED	UNDERLAYMENT NAIL	6		6	HD ENGINEERING & DE CONTRACTOR WILL BE	ESIGN ARE UNAU	JTHORIZED.	. IT IS ALSO	UNDERS	STOOD THAT
26	BAND OR RIM JOIST TO JOIST	3-16D COMMON (3 ¹ / ₂ " x 0.162"); OR 4-10D BOX (3" x 0.128"); OR	END NAIL	0.200	4D CEMENT-COATE	D SINKER NAIL	6		6	BUT NOT LIMITED TO N EXCLUDED FROM THE	MECHANICAL, ELE	ECTRICAL,A	AND PLUMBIN	ING CODE	E REQUIREM
		4-3" x 0.131" NAILS; ÔR 4-3" x 14 GA. STAPLES, ⁷ / ₁₆ " CROWN	NAIL EACH LAYER AS FOLLOWS: 32" O.C.		STAPLE 18 GA., ⁷ / ₈ LONG	, , , , , , , , , , , , , , , , , , ,	3		6	THE CONTRACTOR OR ENGINEERING & DESIG	GN OR A QUALIFIE	ED ENGINE	ER SHALL IM	MEDIATE	ELY BE RET
0 7		20D COMMON (4" x 0.192"); OR 10D BOX (3" x 0.128"); OR	AT TOP AND BOTTOM AND STAGGERED. 24" O.C. FACE NAIL AT TOP AND BOTTOM							TO NOTIFY US OF THE & DESIGN OF ALL RESI					-l kelieve
21	BUILT-UP GIRDERS AND BEAMS, 2-INCH LUMBER LAYERS	3" x 0.131" NAILS AND: 2-20D COMMON (4" x 0.192"); OR	STAGGERED ON OPPOSITE SIDES	1/4	4D RING-GROOVED UNI STAPLE 18 GA., ⁷ / ₈ LO		3		2 2						
		3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS 4-16D BOX (3 ¹ / ₂ " x 0.135"); OR			6D RING-GROOVED UNI		6	1	0						
28	LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	3-16D COMMON (3 ¹ / ₂ " x 0.162"); OR 4-10D BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS	AT EACH JOIST OR RAFTER, FACE NAIL	³ / ₈	STAPLE 16 GA., 1 ¹ / ₈ L		3		6						
29	BRIDGING OR BLOCKING TO JOIST	4-3" x 0.131" NAILS 2-10D BOX (3" x 0.128"); OR 2-8D COMMON (2 ¹ / ₂ " x 0.131" OR 2-3" x 0.131") NAILS	EACH END, TOE NAIL		6D RING-GROOVED UNI		6	1	0						
	h = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s; 1 ksi = 6.895 MPa.		J	1/ ₂ , 5/ ₈	STAPLE 16 GA., 1 ⁵ / ₈ L	ONG, ³ / ₈ CROWN	3		6						
2 2 1 1	NAILS ARE SMOOTH-COMMON, BOX OR DEFORMED SHANKS EXCEPT WHERE OTHERWISE STATED. N SHANK DIAMETER OF 0.192 INCH (20D COMMON NAIL), 90 KSI FOR SHANK DIAMETERS LARGER THAN STAPLES ARE 16 GAGE WIRE AND HAVE A MINIMUM 7/16-INCH ON DIAMETER CROWN WIDTH. NAILS SHALL BE SPACED AT NOT MORE THAN 6 INCHES ON CENTER AT ALL SUPPORTS WHERE SPAY FOUR-FOOT BY 8-FOOT OR 4-FOOT BY 9-FOOT PANELS SHALL BE APPLIED VERTICALLY. SPACING OF FASTENERS NOT INCLUDED IN THIS TABLE SHALL BE BASED ON TABLE R602.3(2).	0.142 INCH BUT NOT LARGER THAN 0.177 INCH, AND 100 KSI FOR SHANK DIAMETERS		b. STAPLES SHALL	AL DESCRIPTION AND SHALL BE PERMITTED TO BE T-HEAD, MODIFIED ROUND HEA HAVE A MINIMUM CROWN WIDTH OF 7/16-INCH ON DIAMETER EXCEPT AS NOTED. ES SHALL BE SPACED AT NOT MORE THAN 6 INCHES ON CENTER AT ALL SUPPORT		• OR STAPLES SHALL BE SPACE	ED AT NOT MORE THAN 12 INC	HES ON CENTER AT INTERME	DIATE					

FOR WOOD STRUCTURAL PANEL ROOF SHEATHING ATTACHED TO GABLE END ROOF FRAMING AND TO INTERMEDIATE SUPPORTS WITHIN 48 INCHES OF ROOF EDGES AND RIDGES, NAILS SHALL BE SPACED AT 6 INCHES ON CENTER WHERE THE ULTIMATE DESIGN WIND SPEED IS 130 MPH OR GREATER BUT LESS THAN 140 MPH. GYPSUM SHEATHING SHALL CONFORM TO ASTM C1396 AND SHALL BE INSTALLED IN ACCORDANCE WITH GA 253. FIBERBOARD SHEATHING SHALL CONFORM TO ASTM C208. SPACING OF FASTENERS ON FLOOR SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING AND AT FLOOR PERIMETERS ONLY. SPACING OF FASTENERS ON ROOF SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING OF ROOF OR FLOOR SHEATHING PANEL EDGES PERPENDICULAR TO THE FRAMING MEMBERS NEED NOT BE PROVIDED EXCEPT AS REQUIRED BY OTHER PROVISIONS OF THIS CODE. FLOOR PERIMETER SHALL BE SUPPORTED BY FRAMING MEMBERS OR SOLOID BLOCKING. 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. REQUIRED BY OT SHEATHING RING SHANK NAIL MEETING THE SPECIFICATIONS IN ASTM F1667. j.

SUPPORTS FOR FLOORS. FASTENERS SHALL BE PLACED IN A GRID PATTERN THROUGHOUT THE BODY OF THE PANEL. FOR 5-PLY PANELS, INTERMEDIATE NAILS SHALL BE SPACED NOT MORE THAN 12 INCHES ON CENTER EACH WAY. HARDBOARD UNDERLAYMENT SHALL CONFORM TO CPA/ANSI A135.4 SPECIFIED ALTERNATE ATTACHMENTS FOR ROOF SHEATHING SHALL BE PERMITTED WHERE THE ULTIMATE DESIGN WIND SPEED IS LESS THAN 130 MPH. FASTENERS ATTACHING WOOD STRUCTURAL PANEL ROOF SHEATHING TO GABLE END WALL FRAMING SHALL BE INSTALLED USING THE SPACING LISTED FOR PANEL EDGES. FIBER-CEMENT UNDERLAYMENT SHALL CONFORM TO ASTM C1288 OR ISO 8336, CATEGORY C. h

AREA	MIN. DEAD LOAD	MIN. LIVE LOAD	
EXTERIOR BALCONIES	10	60	
DECKS, STAIRS	10	40	
CEILING JOISTS / ATTICS NO STORAGE - SCUTTLE ACCESS ONLY ROOF SLOPE 3:12 OR LESS	10	10	
CEILING JOISTS / ATTICS NO STORAGE - SCUTTLE ACCESS ONLY ROOF SLOPE OVER 3:12	10	10	
CEILING JOISTS / ATTICS WITH STORAGE - DOOR PULL DOWN LADDER ACCESS	10	20	
ROOMS: NON-SLEEPING	10	40	
ROOMS: SLEEPING	10	30	
ROOF: LIGHT ROOF COVERING	10	20	
ROOF: HEAVY ROOF COVERING / CONCRETE / TILE / SLATE	20	20	
GUARDRAILS, HANDRAILS	200# LL NORMAL		

SHALL NOT)N THE ON THE LUDING OR HEAVY PLAN.

ST CAP WITH BEAM. FOR A FLANGE OF THE 2" BOLTS , AND A NUT IN EL BEAM IN NEED TO BE

L OF DEVELOPMENT CONTRACTOR UNDERSTANDING ITS TO HD CE AND SKILL IN RING AND DESIGN RESTRICTED THE /IDED BY THE HE CONTRACTOR'S HEIR SERVICES MBIGUITY OR D IMMEDIATELY TO APT THE "BUILDER'S MENTS IN FIT, THE CONSENT OF AT THE CODES INCLUDING EMENTS (WHICH IS NCE IS NEEDED BY THE PROJECT, HD TAINED. FAILURE E HD ENGINEERING

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ISSUE/REVISION	Revision Date
	ISSUE/REVISION

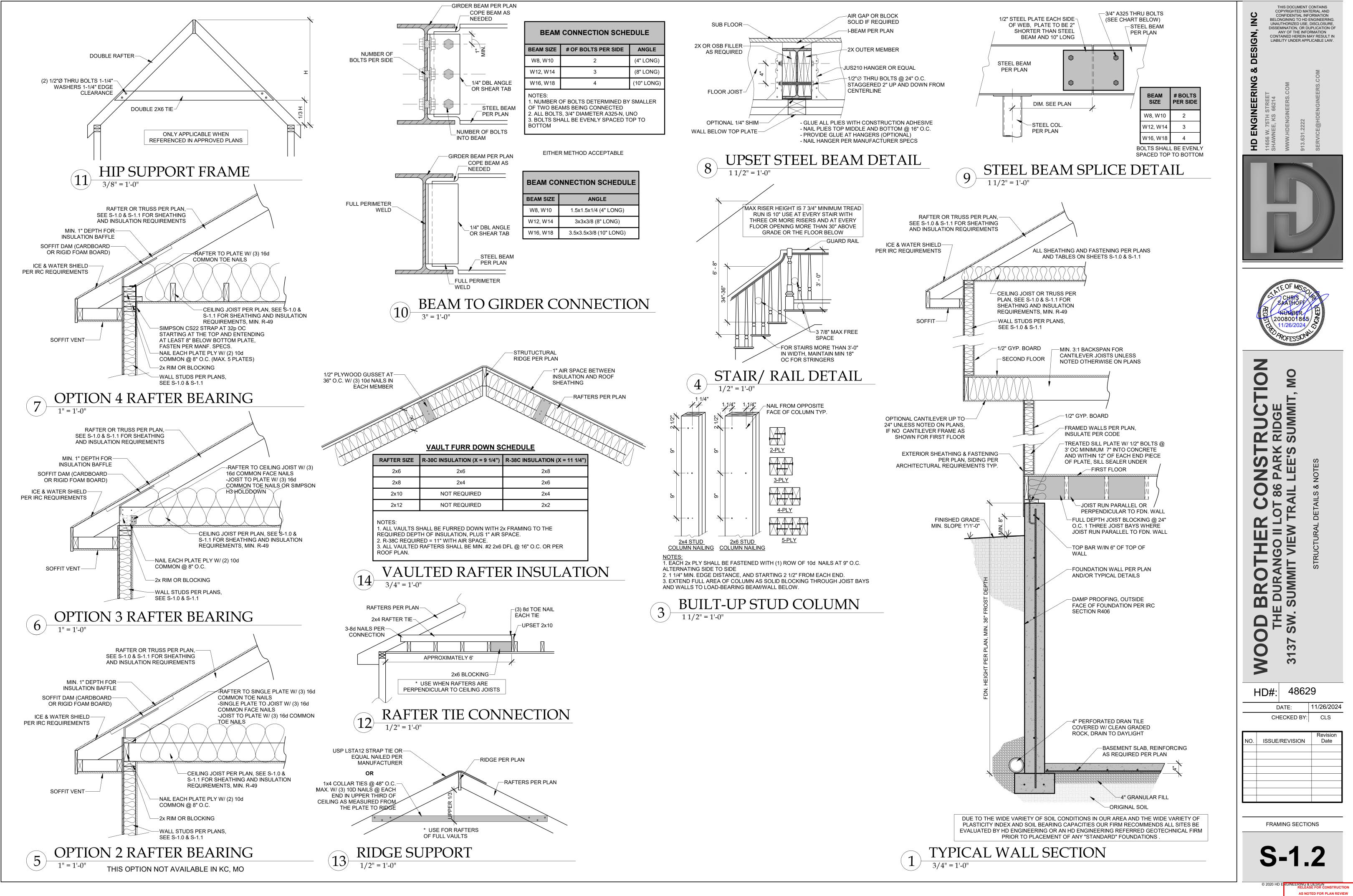
GENERAL NOTES



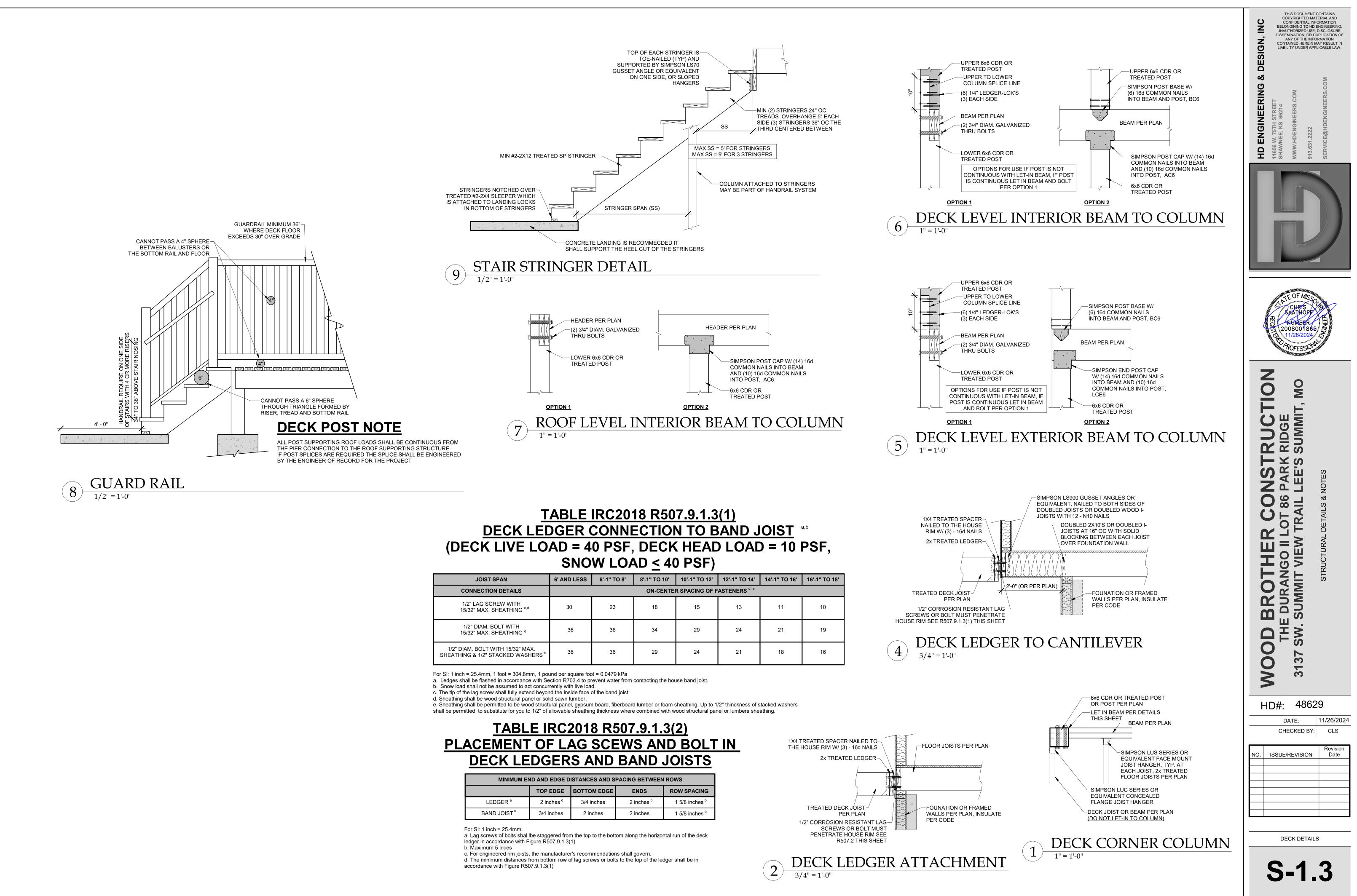
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> LEE'S SUMMIT, MISSOURI 03/03/2025

DEVELOPMENT SERVICES

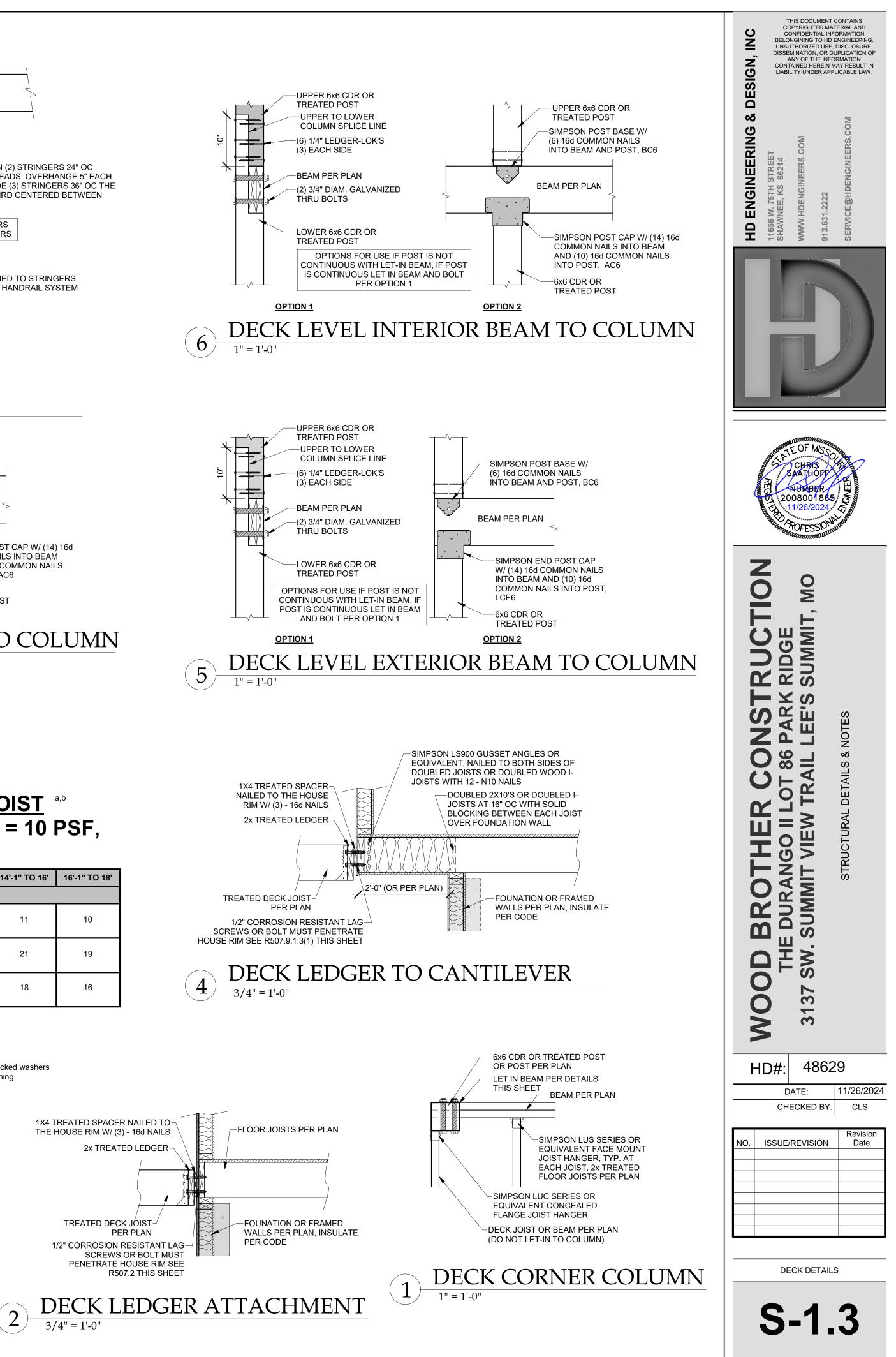


DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/03/2025



JOIST SPAN	6' AND LESS	6'-1" TO 8'	8'-1" TO 10'	10'-1" TO 12'	12'-1" TO 14'	14'-1" TO 16'	16'-1" TO 18'		
CONNECTION DETAILS	ON-CENTER SPACING OF FASTENERS ^{d, e}								
1/2" LAG SCREW WITH 15/32" MAX. SHEATHING ^{c,d}	30	23	18	15	13	11	10		
1/2" DIAM. BOLT WITH 15/32" MAX. SHEATHING ^d	36	36	34	29	24	21	19		
1/2" DIAM. BOLT WITH 15/32" MAX. SHEATHING & 1/2" STACKED WASHERS [®]	36	36	29	24	21	18	16		

MINIMUM END AND EDGE DISTANCES AND SPACING BETWEEN ROWS							
	TOP EDGE	BOTTOM EDGE	ENDS	ROW SPACING			
LEDGER ^a	2 inches ^d	3/4 inches	2 inches ^b	1 5/8 inches ^b			
BAND JOIST [°]	3/4 inches	2 inches	2 inches	1 5/8 inches ^b			



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TABLE R602.3(5) SIZE, HEIGHT AND SPACING OF WOOD STUDS^a

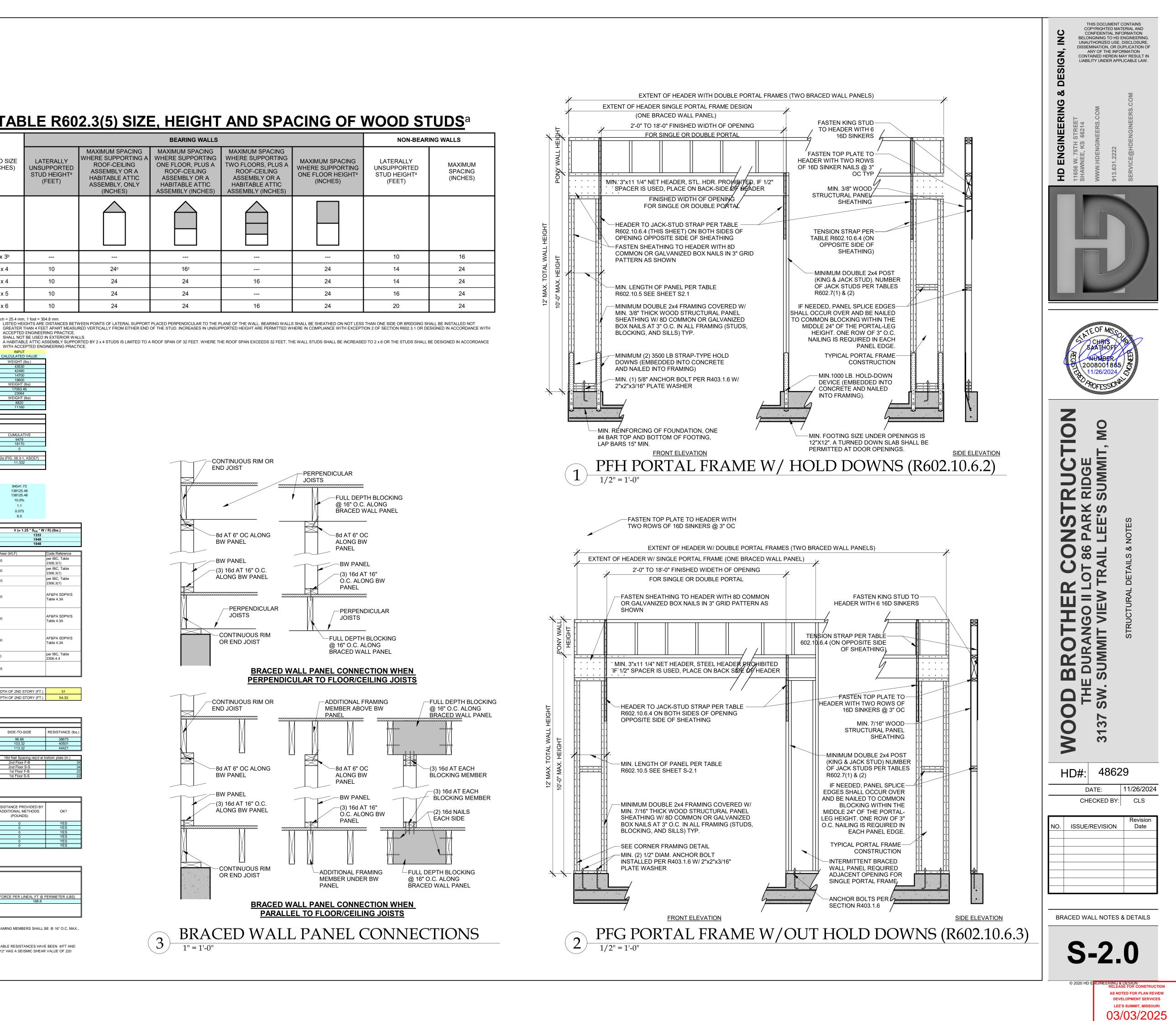
STUD SIZE (INCHES)	LATERALLY UNSUPPORTED STUD HEIGHT ^a (FEET)	MAXIMUM SPACING WHERE SUPPORTING A ROOF-CEILING ASSEMBLY OR A HABITABLE ATTIC ASSEMBLY, ONLY (INCHES)					
2 x 3 ^b							
2 x 4	10	24°					
3 x 4	10	24					
2 x 5	10	24					
2 x 6	10	24					
For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm							

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

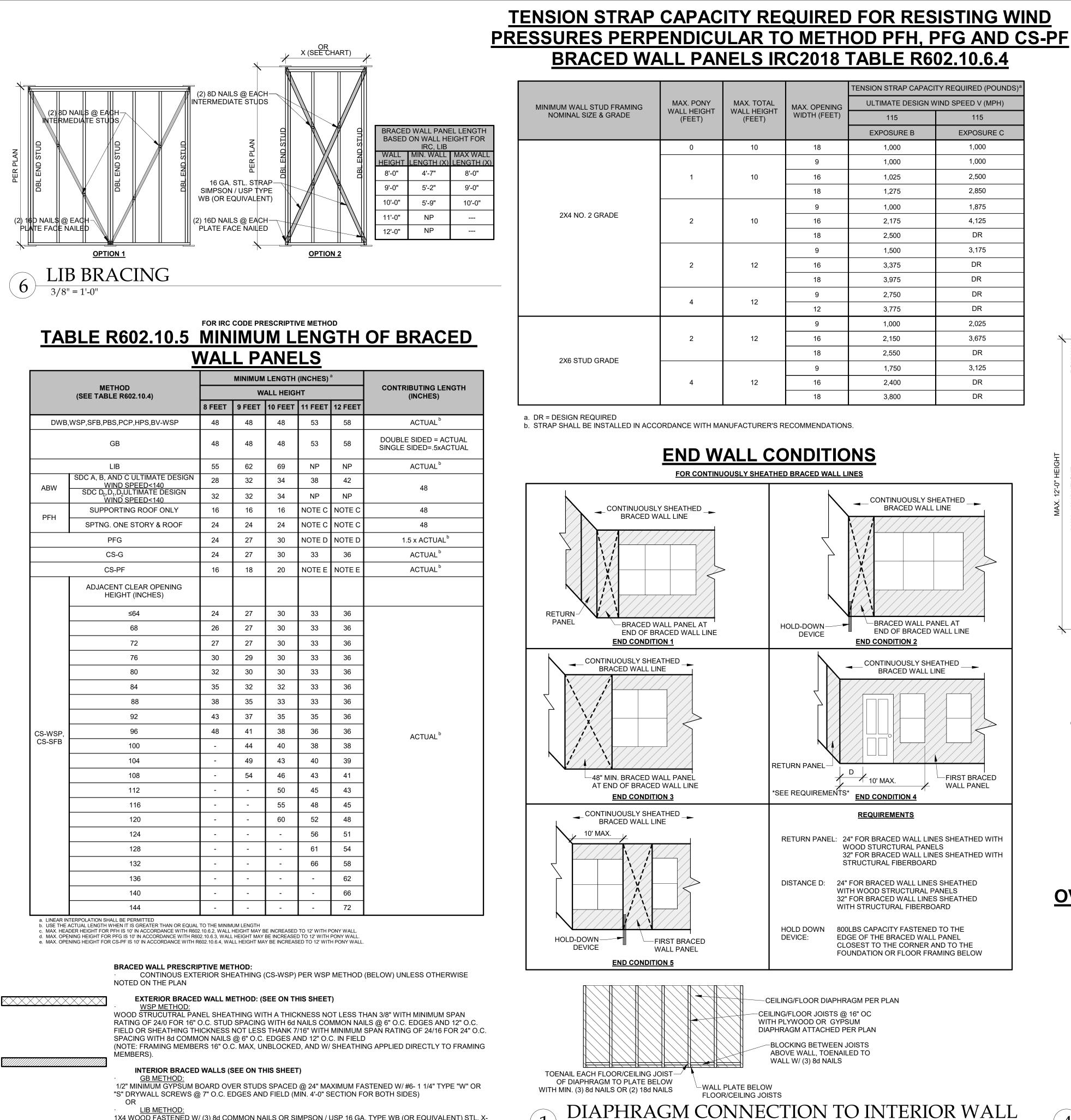
ACCEPTED ENGINEERING PRACTICE. SHALL NOT BE USED IN EXTERIOR WALL

$\label{eq:constraint} \begin{tabular}{ c c c c } \hline $WAL\\ MEA\\ \hline MEA \\ \hline \ MEA \\ \hline \ MEA \\ \hline \ MEA \\ \hline \hline MEA \\ \hline \ MEA \\ \hline \ MEA \\ \hline \ MEA \\ \hline \hline \ MEA \\ \hline \ MEA \\ \hline \ MEA \\ \hline \ MEA \\ \hline \ \ MEA \\ \hline \ \ MEA \\ \hline \ \ \ \ \ MEA \\ \hline \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	LL DL DL TITION WALL DL PROJ FRONT- AREA 428 0 510 645.26 200 LOPED ROOF LU/VERT. ROOF AN ROOF HT., <i>h</i> o be sheathed, dete 2E7-16 Velocity Pre VEIGHT	TO-BACK LOAD 1871 0 7242 8947 3480 ZONE B ZONE B ZONE A	CUMULATIVE 9112 18059 21539 PRESSURE (PSF	SLOPED ROOF VERT. ROOF 2ND 1ST	10 DEAD LOAD (psf) 6 6 URE C AND MEAN ROOF HEIGHT <= 3 SIDE-TO-SI AREA		INPUT CALCULATED VALUE WEIGHT (lbs.) 43530 42480 14700 18600 WEIGHT (lbs) 17063.46 23064 WEIGHT (lbs) 8820 11160	
OF ILING COND FLOOR ILING COND FLOOR IST FLOOR COND FLOOR EXT. WALL SST FLOOR EXT. WALL COND FLOOR EXT. WALL COND FLOOR INT. PARTITI SLOPED ROOF VERT. ROOF 2ND 1ST BSMT ^a SLOPED ROOF VERT. ROOF 2ND 1ST BSMT ^a SLOPED ROOF VERT. ROOF 2ND 1ST BSMT ^a SLOPED ROOF VERT. ROOF 2ND 1ST BSMT ^a SLOPED ROOF VERT. ROOF 2ND 1ST D FLOOR TRIBUTARY W SEMENT TRIB	DL TITION WALL DL PROJ FRONT- AREA 428 0 510 645.26 200 LOPED ROOF LL/VERT. ROOF AN ROOF HT., <i>h</i> o be sheathed, dete 27-16 Velocity Pre VEIGHT	TO-BACK LOAD 1871 0 7242 8947 3480 ZONE B ZONE B ZONE A	CUMULATIVE 9112 18059 21539 PRESSURE (PSF	210.66 230.64 3-SECOND GUST, EXPOSI SLOPED ROOF VERT. ROOF VERT. ROOF 2ND 1ST	10 10 10 10 WALL HEIGHT (ft) 9 10 DEAD LOAD (psf) 6 6 URE C AND MEAN ROOF HEIGHT <= 3 SIDE-TO-SI AREA	4353 4248 1470 1860 WALL UNIT WT. (psf) 9 10 AREA (ft2) 1470 1860 wo FT ASSUMED)	43530 42480 14700 18600 WEIGHT (lbs) 17063.46 23064 WEIGHT (lbs) 8820	
COND FLOOR ST FLOOR COND FLOOR EXT. WALL ST FLOOR EXT. WALL COND FLOOR EXT. WALL COND FLOOR INT. PARTITI COND FLOOR INT. PARTITI SLOPED ROOF VERT. ROOF 2ND 1ST BSMT ^a SLOPED ROOF 2ND 2ND 2ND 2ND 2ND 2ND 2ND 2ND	DL TITION WALL DL PROJ FRONT- AREA 428 0 510 645.26 200 LOPED ROOF LL/VERT. ROOF AN ROOF HT., <i>h</i> o be sheathed, dete 27-16 Velocity Pre VEIGHT	TO-BACK LOAD 1871 0 7242 8947 3480 ZONE B ZONE B ZONE A	CUMULATIVE 9112 18059 21539 PRESSURE (PSF	210.66 230.64 3-SECOND GUST, EXPOSI SLOPED ROOF VERT. ROOF VERT. ROOF 2ND 1ST	10 10 WALL HEIGHT (ft) 9 10 DEAD LOAD (psf) 6 6 URE C AND MEAN ROOF HEIGHT <= 3 SIDE-TO-SI AREA	1470 1860 WALL UNIT WT. (psf) 9 10 AREA (ft2) 1470 1860 00 FT ASSUMED)	14700 18600 WEIGHT (lbs) 17063.46 23064 WEIGHT (lbs) 8820	
COND FLOOR EXT. WALL ST FLOOR EXT. WALL I COND FLOOR INT. PART RST FLOOR INT. PARTITI SLOPED ROOF VERT. ROOF 2ND 1ST BSMT ^a SLOPED ROOF VERT. ROOF 2ND 1ST BSMT ^a SLOPED ROOF 2ND 1ST D FLOOR TRIBUTARY W SEMENT TRIBUTARY W SEME	DL TITION WALL DL PROJ FRONT- AREA 428 0 510 645.26 200 LOPED ROOF LL/VERT. ROOF AN ROOF HT., <i>h</i> o be sheathed, dete 27-16 Velocity Pre VEIGHT	TO-BACK LOAD 1871 0 7242 8947 3480 ZONE B ZONE B ZONE A	CUMULATIVE 9112 18059 21539 PRESSURE (PSF	210.66 230.64 3-SECOND GUST, EXPOSI SLOPED ROOF VERT. ROOF VERT. ROOF 2ND 1ST	WALL HEIGHT (ft) 9 10 DEAD LOAD (psf) 6 6 0	WALL UNIT WT. (psf) 9 10 AREA (ft2) 1470 1860 W FT ASSUMED)	WEIGHT (lbs) 17063.46 23064 WEIGHT (lbs) 8820	
RST FLOOR EXT. WALL I COND FLOOR INT. PARTI RST FLOOR INT. PARTITI SLOPED ROOF VERT. ROOF VERT. ROOF 2ND 1ST BSMT ^a If there is a walkout wall to 0=0.00256K_2K_aK_dV ² (ASCI) D FLOOR TRIBUTARY W SEMENT TRIBUTARY W	DL TITION WALL DL PROJ FRONT- AREA 428 0 510 645.26 200 LOPED ROOF LL/VERT. ROOF AN ROOF HT., <i>h</i> o be sheathed, dete 27-16 Velocity Pre VEIGHT	TO-BACK LOAD 1871 0 7242 8947 3480 ZONE B ZONE B ZONE A	CUMULATIVE 9112 18059 21539 PRESSURE (PSF	230.64 3-SECOND GUST, EXPOSI SLOPED ROOF VERT. ROOF 2ND 1ST	10 DEAD LOAD (psf) 6 6 URE C AND MEAN ROOF HEIGHT <= 3 SIDE-TO-SI AREA	10 AREA (ft2) 1470 1860 90 FT ASSUMED)	23064 WEIGHT (lbs) 8820	
SLOPED ROOF VERT. ROOF 2ND 1ST BSMT ³ If there is a walkout wall to p=0.00256K ₂ K ₂ K ₀ V ² (ASCI D FLOOR TRIBUTARY W 5EMENT TRIBUTARY W (SITE GROUND MOTION (SITE GROUND MOTION (from ASCE7 Table 11.4-1 5 (= 2/3 * S ₅ * F _a)	PROJ FRONT- AREA 428 0 510 645.26 200	TO-BACK LOAD 1871 0 7242 8947 3480 ZONE B ZONE B ZONE A	CUMULATIVE 9112 18059 21539 PRESSURE (PSF	SLOPED ROOF VERT. ROOF 2ND 1ST	6 URE C AND MEAN ROOF HEIGHT <= 3 SIDE-TO-SI AREA	1860 30 FT ASSUMED)		1
VERT. ROOF 2ND 1ST BSMT ^a SL WAL MEA If there is a walkout wall to a=0.00256K_zK_zK_dV ² (ASCI D FLOOR TRIBUTARY W SEMENT FINISHING STRIP (STE GROUND MOTION (from ASCE7 Table 11.4-1 s (= 2/3 * Ss * Fa)	FRONT- AREA 428 0 510 645.26 200 LOPED ROOF LL/VERT. ROOF AN ROOF HT., <i>h</i> o be sheathed, dete 2E7-16 Velocity Pre VEIGHT	TO-BACK LOAD 1871 0 7242 8947 3480 ZONE B ZONE B ZONE A	CUMULATIVE 9112 18059 21539 PRESSURE (PSF	SLOPED ROOF VERT. ROOF 2ND 1ST	SIDE-TO-SI AREA			1
VERT. ROOF 2ND 1ST BSMT ^a SL WAL MEA If there is a walkout wall to a=0.00256K_zK_zK_dV ² (ASCI D FLOOR TRIBUTARY W SEMENT FINISHING STRIP (STE GROUND MOTION (from ASCE7 Table 11.4-1 s (= 2/3 * Ss * Fa)	AREA 428 0 510 645.26 200 LOPED ROOF LL/VERT. ROOF AN ROOF HT., h o be sheathed, dete E7-16 Velocity Pre VEIGHT	LOAD 1871 0 7242 8947 3480 ZONE B ZONE A 20NE A	9112 18059 21539 PRESSURE (PSF	VERT. ROOF 2ND 1ST	AREA]
VERT. ROOF 2ND 1ST BSMT ^a SL WAL MEA If there is a walkout wall to a=0.00256K_zK_zK_dV ² (ASCI D FLOOR TRIBUTARY W SEMENT FINISHING STRIP (STE GROUND MOTION (from ASCE7 Table 11.4-1 s (= 2/3 * Ss * Fa)	0 510 645.26 200 LOPED ROOF AN ROOF HL., <i>h</i> o be sheathed, dete CE7-16 Velocity Pre VEIGHT	0 7242 8947 3480 ZONE B ZONE A ermine tributary wind area	9112 18059 21539 PRESSURE (PSF	VERT. ROOF 2ND 1ST	400	LOAD		1
1ST BSMT ^a WAL MEA If there is a walkout wall to g=0.00256K ₂ K ₂ K _d V ² (ASCI D FLOOR TRIBUTARY W SEMENT TRIBUTARY W SEMENT TRIBUTARY W SEMENT TRIBUTARY W (SITE GROUND MOTION (from ASCE7 Table 11.4-1 ₅ (= 2/3 * S ₅ * F _a)	645.26 200 LOPED ROOF LL/VERT. ROOF AN ROOF HT., <i>h</i> o be sheathed, dete 2E7-16 Velocity Pre VEIGHT	8947 3480 ZONE B ZONE A ermine tributary wind area	18059 21539 PRESSURE (PSF	1ST	420 0	1850 0	CUMULATIVE	
If there is a walkout wall to MEA a=0.00256K ₂ K ₂ K ₄ V ² (ASCI D FLOOR TRIBUTARY W SEMENT TRIBUTARY W (SITE GROUND MOTION (from ASCE7 Table 11.4-1 a) (= 2/3 * S ₅ * F _a)	LOPED ROOF LL/VERT. ROOF AN ROOF HT., <i>h</i> o be sheathed, dete E7-16 Velocity Pre VEIGHT	ZONE B ZONE A ermine tributary wind area	PRESSURE (PSF		543.3 623.26	7629 8691	9479 18170	·
$\label{eq:constraint} \begin{tabular}{ c c c c } \hline $WAL\\ MEA\\ \hline MEA \\ \hline \ MEA \\ \hline \ MEA \\ \hline \ MEA \\ \hline \hline MEA \\ \hline \ MEA \\ \hline \ MEA \\ \hline \ MEA \\ \hline \hline \ MEA \\ \hline \ MEA \\ \hline \ MEA \\ \hline \ MEA \\ \hline \ \ MEA \\ \hline \ \ MEA \\ \hline \ \ \ \ \ MEA \\ \hline \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	LL/VERT. ROOF AN ROOF HT., h o be sheathed, dete CE7-16 Velocity Pre VEIGHT	ZONE A ermine tributary wind area		BSMT ^a) - PER ASCE CH. 26	0	0	0]
If there is a walkout wall to $_0$ =0.00256K ₂ K ₄ K ₄ V ² (ASCI D FLOOR TRIBUTARY W T FLOOR TRIBUTARY W SEMENT TRIBUTARY W (SITE GROUND MOTION (from ASCE7 Table 11.4-1 $_5$ (= 2/3 * S ₅ * F _a)	o be sheathed, dete CE7-16 Velocity Pre VEIGHT			5.9 17.4	ZONE C ZONE D	11.6 3.4	2a (FIG. 28.3-1, ASCE7) 11.332	
D FLOOR TRIBUTARY W T FLOOR TRIBUTARY W SEMENT TRIBUTARY W (SITE GROUND MOTION (from ASCE7 Table 11.4-1 $_{5}$ (= 2/3 * S _S * F _a)	VEIGHT				analysis under ASCE7-16 and IRC/IBC			1
from ASCE7 Table 12.2-1)	/EIGHT N - %g - FROM AS(1)	CE7 SEISMIC MAP)					94541.73 138125.46 138125.46 10.0% 1.1 0.073 6.5	
CATION				SEISMIC		n ASCE7 (Eq. 12.8-1):	V (= 1.25 * S _{DS} * W	/ R) (lbs.)
D FLOOR T FLOOR						()· ·=·• ·/·	1333 1948	, , , , ,
SEMENT							1948	
Sheathing Loca		Min. Sheathir	•		stening Schedule penetration@ 6" OC Edges, 6" OC Field	Allowat	ble Shear (#/LF)	Code Reference per IBC, Table
Exterior (Option		7/16" APA Rated	-	For 24" stud spacing,	12" OC Field For 16" stud spacing penetration@ 4" OC Edges, 6" OC Field		155	2306.3(1) per IBC, Table
Exterior (Option		7/16" APA Rated	-	For 24" stud spacing,	12" OC Field For 16" stud spacing penetration@ 3" OC Edges, 6" OC Field		230	2306.3(1) per IBC, Table
Exterior (Option	<u>n #3)</u>	7/16" APA Rated	d Plywood/OSB	For 24" stud spacing,	12" OC Field For 16" stud spacing		310	2306.3(1)
Exterior (Option		7/16" APA Rated Plywoo sheathing, or 3/8" shipla tighter nail	p panel sheathing with I spacing	Field for 7/16" APA-rated p OR @ 4" O.C. Edges,	" penetration @ 6" O.C. Edges, 12" O.C. Jywood/OSB or shiplap panel sheathing 12" O.C. Field for 3/8" shiplap panel sheathing		220	AF&PA SDPWS Table 4.3A
Exterior (Option #5) 7/16" APA Rated Plywood/OSB or shiplap panel sheathing, or 3/8" shiplap panel sheathing with tighter nail spacing 8d Common Nails w/ 1-3/8" penetration @ 4" O.C. Edges, 12" O.C. Field for 7/16" APA-rated plywood/OSB or shiplap panel sheathing OR @ 3" O.C. Edges, 12" O.C. Field for 3/8" shiplap panel sheathing 320				320	AF&PA SDPWS Table 4.3A			
Exterior (Option #6) 7/16" APA Rated Plywood/OSB or shiplap panel sheathing, or 3/8" shiplap panel sheathing 2 Field 6d Common Nails w/ 1-3/8" penetration @ 6" O.C. Edges, 12" O.C.				200	AF&PA SDPWS Table 4.3A			
Interior		1/2" Gypsu	um Board	No. 6- $1^{1}/_{4}$ " Type W or S S	crews @ 8" O.C. Edges, 12" O.C. Field		60	per IBC, Table 2306.4.4
Interior		16 Ga. Simpson/USP T			& (1) 8d @ intermediate studs (per		325	
		(or ec	juai)	manufacturer specif	fications - see detail on sheet S3)			<u> </u>
TERIOR SHEATHING OP TERIOR SHEATHING OP			4		WIDTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.)	58.66 56.66	WIDTH OF 2ND STORY (FT.) DEPTH OF 2ND STORY (FT.)	51 54.33
TERIOR SHEATHING OP	PTION FOR BASE	MENT WALLS	4		BACK WALL OF GARAGE (FT.)	31.66		
					GAR. WALL: 1=F-B, 2=S-S	1		
		SE	EXTER ISMIC	IOR STRUCTURAL WALL I	LENGTHS (ft.) & RESISTANCES	WIND		
FRO	ONT-TO-BACK	RESISTANCE (lbs.)	SIDE-TO-SIDE	RESISTANCE (lbs.)	FRONT-TO-BACK	RESISTANCE (lbs.)	SIDE-TO-SIDE	RESISTANCE (I
D FLOOR T FLOOR	81 80.32	22680 22490	98.66 103.32	27625 28930	81 80.32	31752 31485	98.66 103.32	38675 40501
SEMENT	117.32	32850	113.32	31730	117.32	45989	113.32	44421
	ŀ	ADDITIONAL RESIS SEISMIC	TANCE REQUIRED WIND		Anchor Bolt Spacing diameter (in.)	0.5	16d Nail Spacing req'd at 2nd Floor F-B	oottom plate (in.)
d floor front-to-ba d floor side-to-side	:	0 0	0		Shear value (per NDS) Spacing F-B (inches)	944 145.5	2nd Floor S-S 1st Floor F-B	
T FLOOR FRONT-TO-BA		0 0	0 0		spacing S-S (inches)	148.6	1st Floor S-S	
SEMENT FRONT-TO-BAG SEMENT SIDE-TO-SIDE		0 0	0 0					
			RESISTANCE REQUIR	RED IN ADDITION TO RES	ISTANCE PROVIDED BY EXTERIOR W	/ALLS**		
		RESISTANCE REQUIRED (POUNDS)	PORTAL FRAMES OR PERF. SHEAR WALL RESISTANCE	INTERIOR X-BRACES (325#/BRACE)	INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.)	INT. WALL LENGTH SHEATHED W/ OSB (TOTAL LENGTH, ONE SIDE, FT.)	RESISTANCE PROVIDED BY ADDITIONAL METHODS (POUNDS)	OK?
D FLOOR FRONT-TO-BA D FLOOR SIDE-TO-SIDE		0					0	YES YES
T FLOOR FRONT-TO-BAG T FLOOR SIDE-TO-SIDE SEMENT FRONT-TO-BAG		0 0 0					0 0 0	YES YES YES
SEMENT SIDE-TO-SIDE		0			CAPACITIES (IF APPLICABLE),		0	YES
SEE SHEET S1 FOR INTI	TERIOR STEEL X-E	BRACE INSTALLATION, DOR (SEE TABLE ABOV	3) INTERIOR WALLS S	HEATHED WITH OSB SH	ALL BE ATTACHED WITH SAME STAP GHT SECTIONS OF 2'-8" OR LONGER	LE/NAILING		
DOF PITCH (MAX)	X/12 6		PITCH OF 6 OR LESS:	EOH -13.3, E -7.2, G -5.2]			
	ENGTH (FT.)			UPLIFT PER FT* (LBS)]			
OVERHANG TOT MAIN ROOF**	2 TAL AREA (FT ²) 3323 6756	16.56 ZONE E AREA (FT ²) 1873 542224		33.12 PRESSURE ZN. E (PSF) 15.12		TOTAL FORCE (LBS)	FORCE PER LINEAL FT @	PERIMETER (LB
	3323.6756	1873.542224	1450.133376	15.12	10.5 222.0	43554 UPLIFT OK	188.8	
LONG PERIMETER		TOTAL UPLIFT PER LINEAL F RESISTANCE DUE TO DEAD			222.0 258.6	UPLIF I UK		
IBLOCKED, AND W/ SHE	CTURAL PANEL SH EATHING APPLIED	D DIRECTLY TO FRAMIN	NG MEMBERS		FOR SHEATHING OF THE ENTIRE STF			

DETERMINED TO BE CLASS E OR F, CONSULT ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION



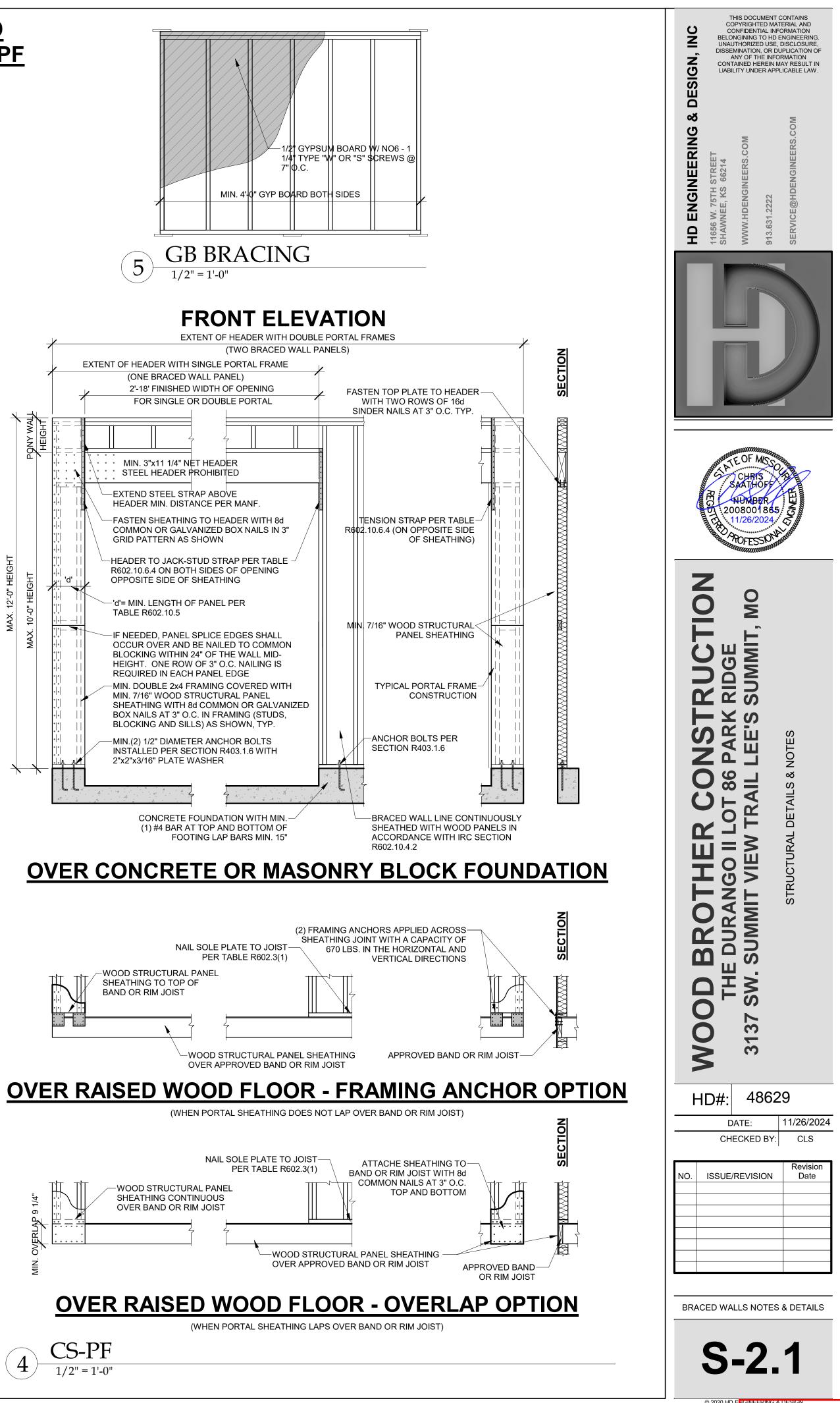
WHERE SUPPORTING ONE FLOOR, PLUS A

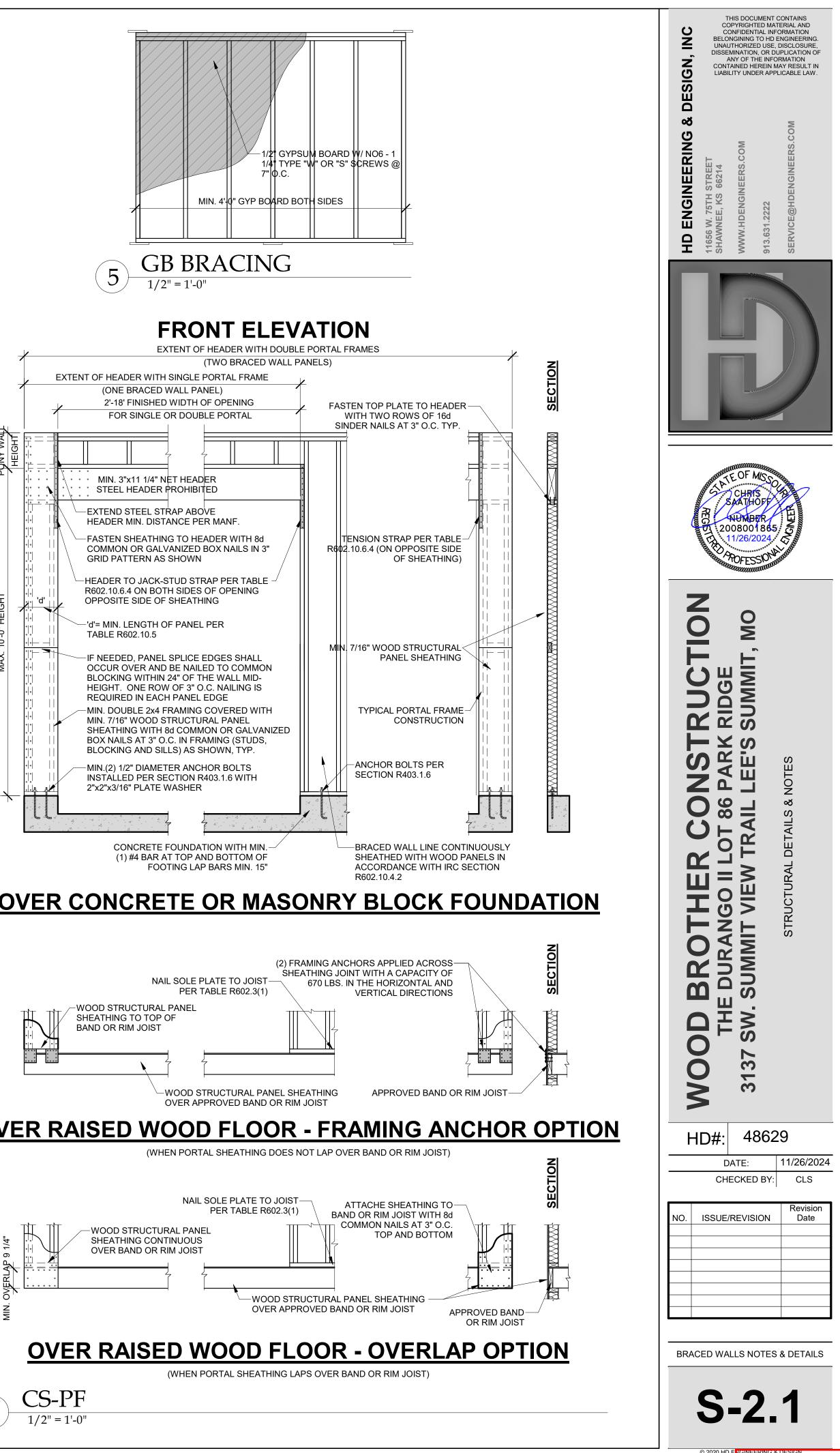


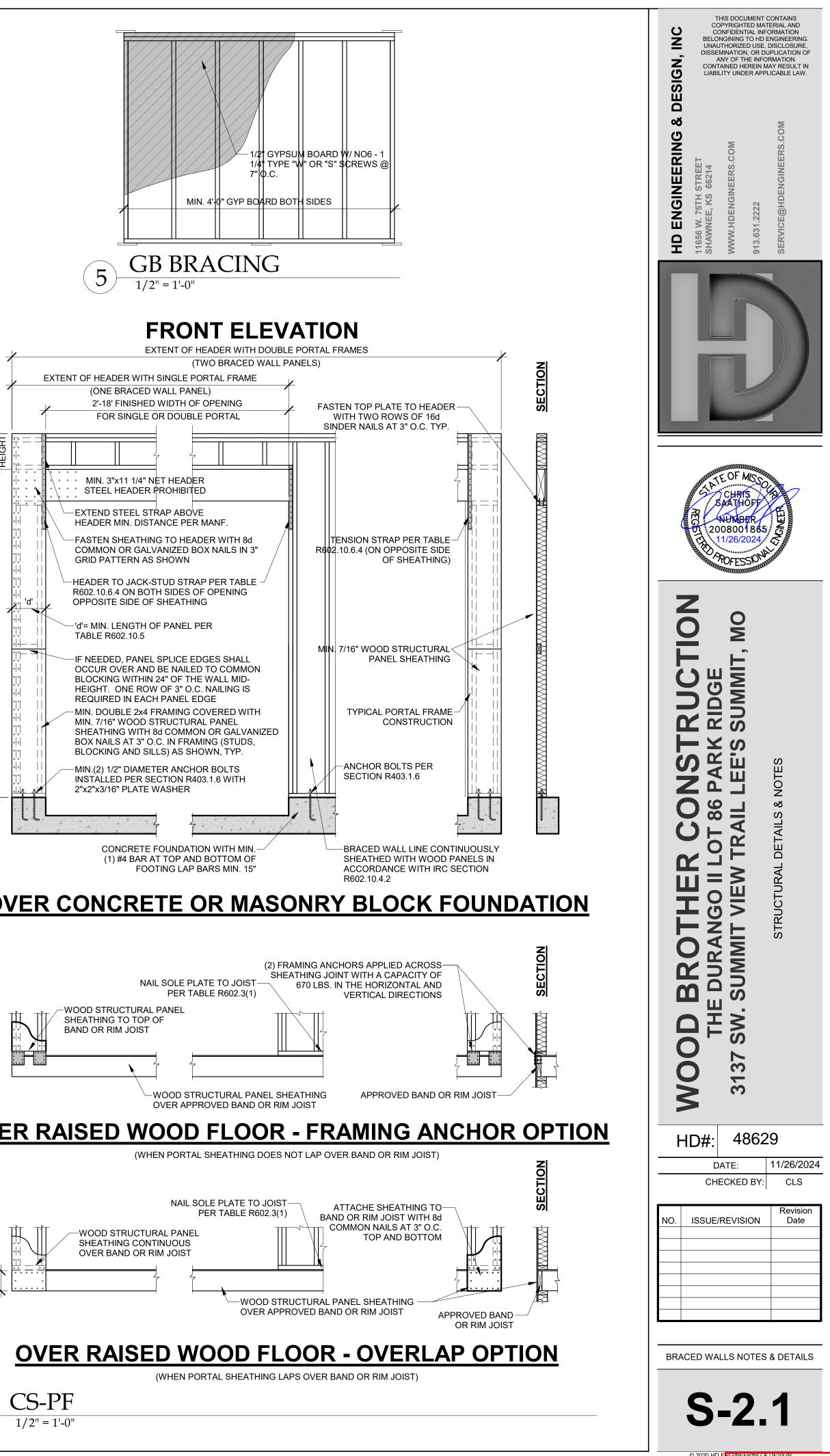
3/8" = 1'-0

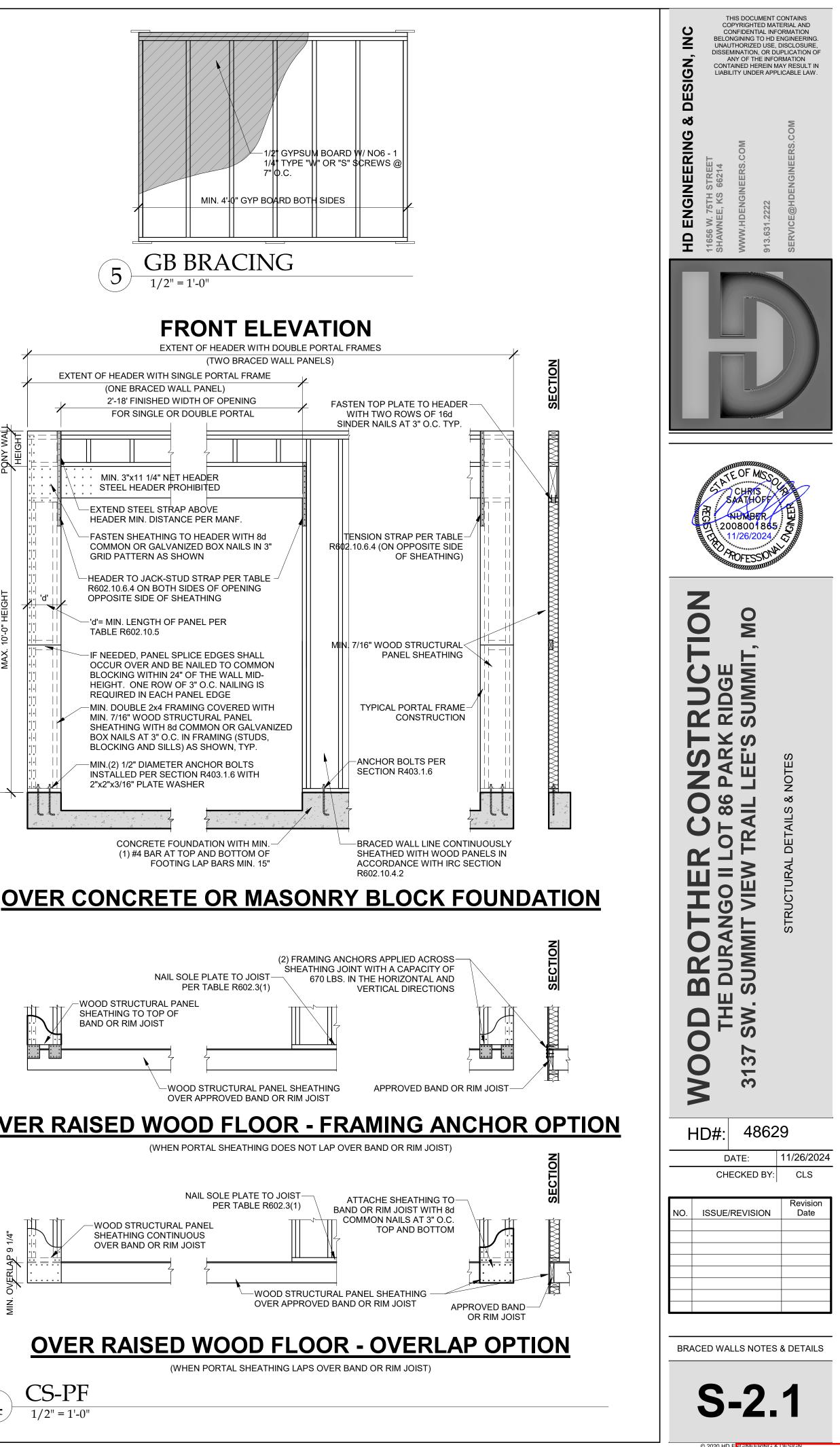
1X4 WOOD FASTENED W/ (3) 8d COMMON NAILS OR SIMPSON / USP 16 GA. TYPE WB (OR EQUIVALENT) STL. X-BRACE(S) @ 45° TO 60° ANGLES, MAXIMUM 16" O.C. STUDS FASTENED PER MANUF. SPECS.

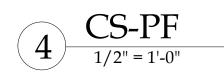
				TENSION STRAP CAPACITY REQUIRED (POUNDS) ^a			
MINIMUM WALL STUD FRAMING	MAX. PONY	MAX. TOTAL	MAX. OPENING WIDTH (FEET)	ULTIMATE DESIGN WIND SPEED V (MPH)			
NOMINAL SIZE & GRADE	WALL HEIGHT (FEET)	WALL HEIGHT (FEET)		115	115		
				EXPOSURE B	EXPOSURE C		
	0	10	18	1,000	1,000		
		10	9	1,000	1,000		
	1		16	1,025	2,500		
			18	1,275	2,850		
		10	9	1,000	1,875		
2X4 NO. 2 GRADE	2		16	2,175	4,125		
			18	2,500	DR		
	2	12	9	1,500	3,175		
			16	3,375	DR		
			18	3,975	DR		
	4	12	9	2,750	DR		
	4	12	12	3,775	DR		
			9	1,000	2,025		
	2	12	16	2,150	3,675		
2X6 STUD GRADE			18	2,550	DR		
2X0 STUD GRADE			9	1,750	3,125		
	4	12	16	2,400	DR		
			18	3,800	DR		





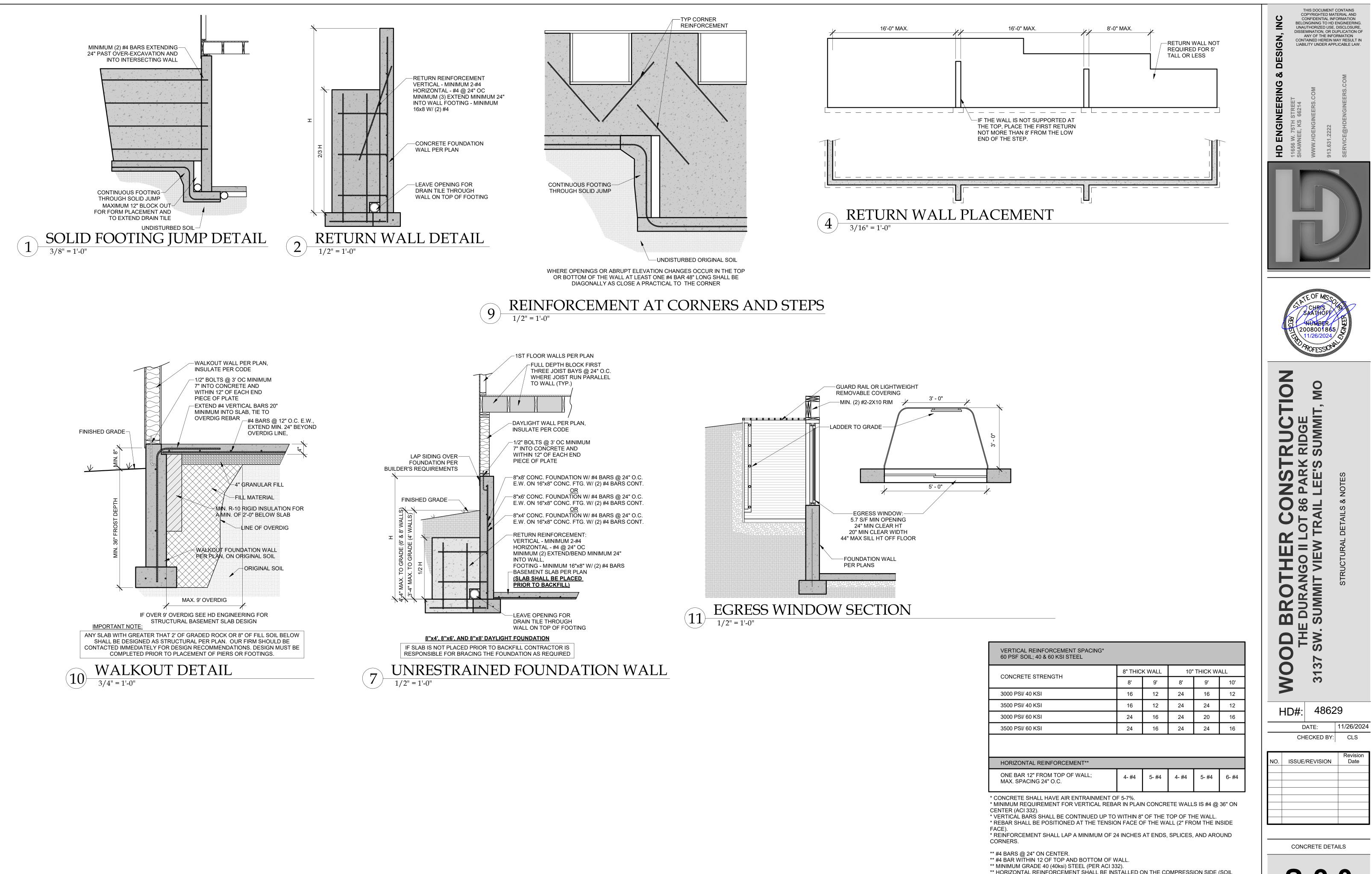






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> LEE'S SUMMIT, MISSOURI 03/03/2025



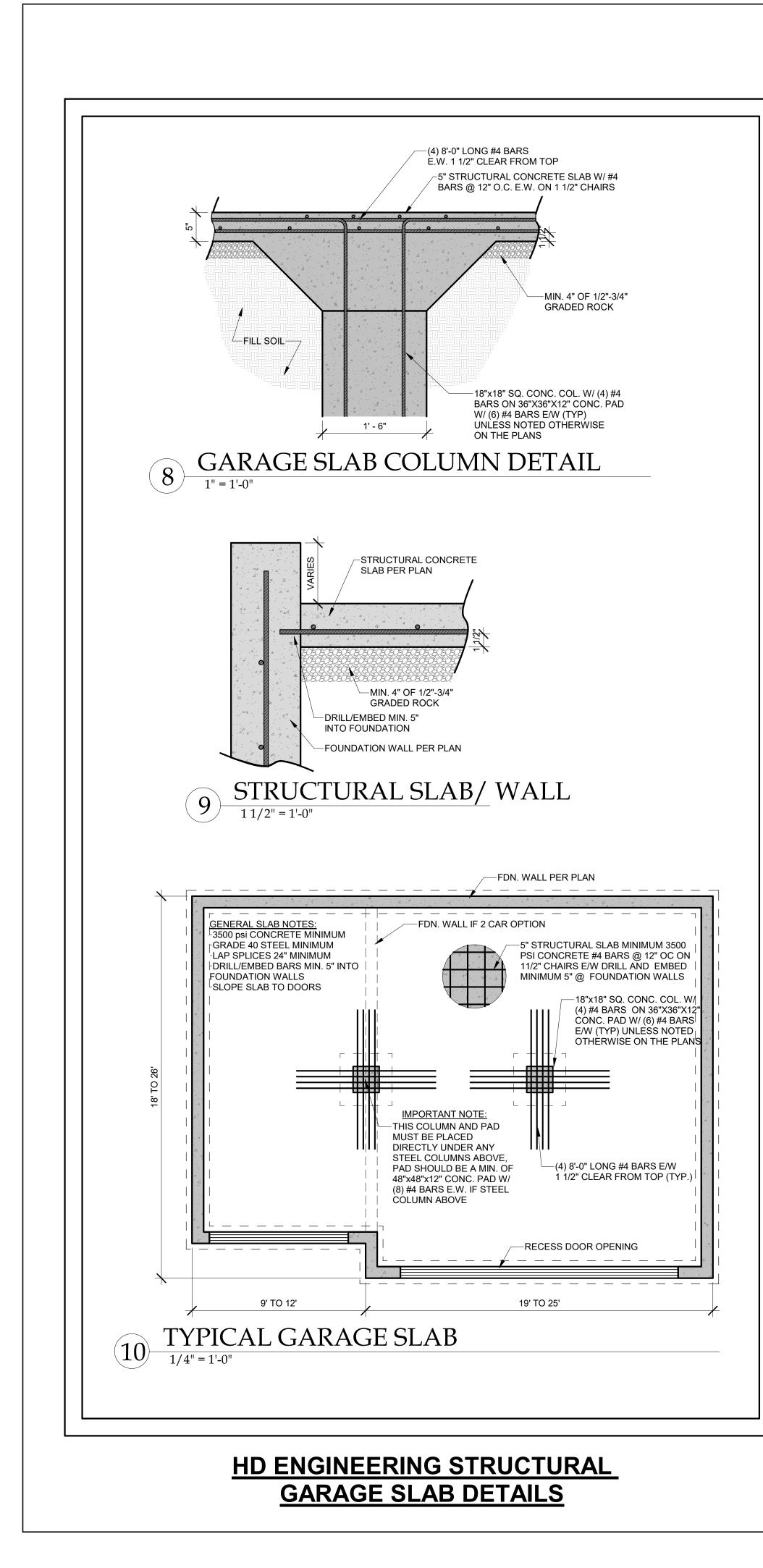
	8" THIC	K WALL	10"	THICK W	ALL		
CONCRETE STRENGTH	8'	9'	8'	9'	10'		
3000 PSI/ 40 KSI	16	12	24	16	12		
3500 PSI/ 40 KSI	16	12	24	24	12		
3000 PSI/ 60 KSI	24	16	24	20	16		
3500 PSI/ 60 KSI	24	16	24	24	16		
HORIZONTAL REINFORCEMENT**							

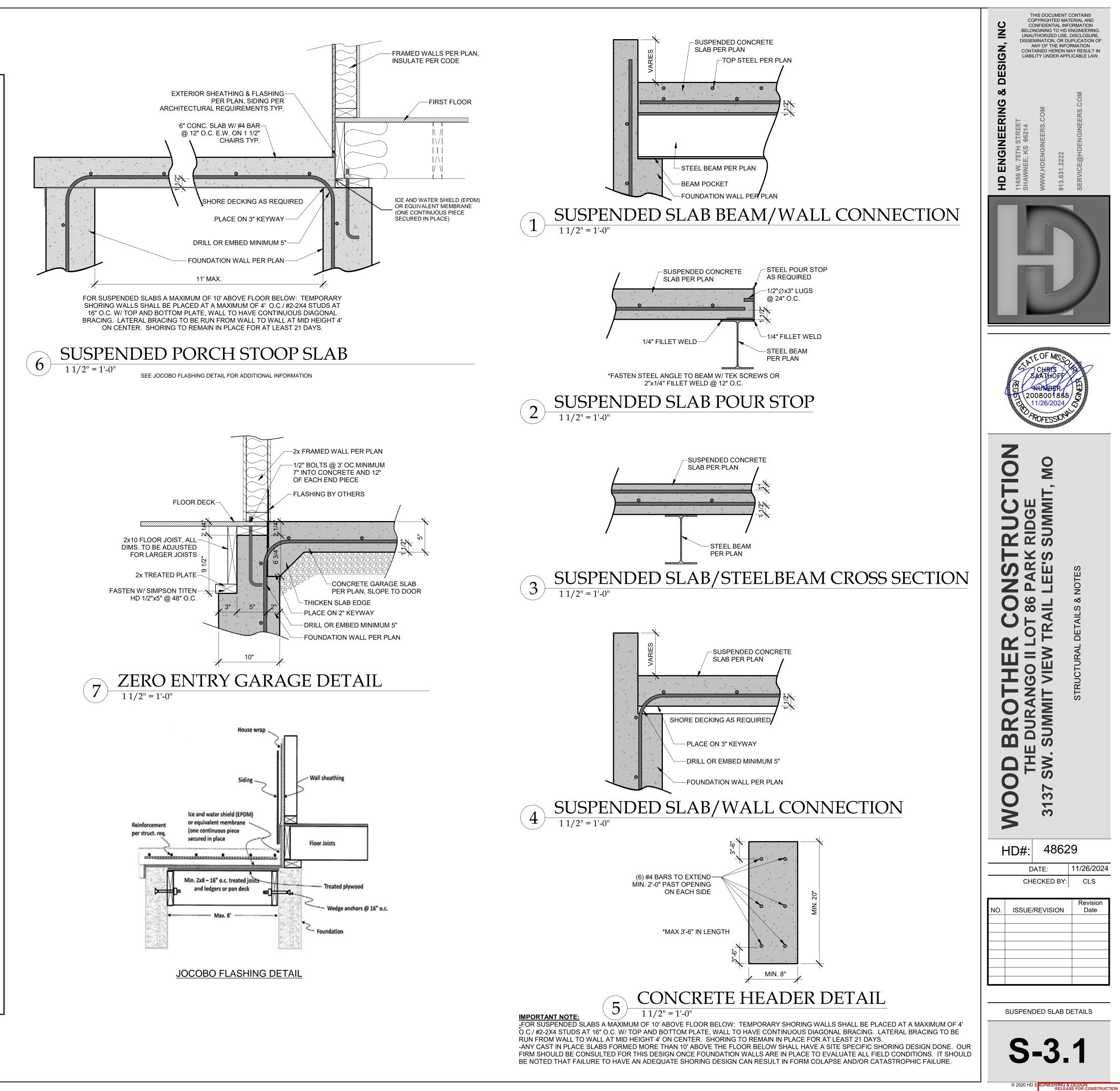
** HORIZONTAL REINFORCEMENT SHALL BE INSTALLED ON THE COMPRESSION SIDE (SOIL SIDE) OF THE VERTICAL REINFORCEMENT

S-3.0

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DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/03/2025

AS NOTED FOR PLAN REVIEW

MINIMUM INSULATION & FENSTRATION VALUES BY COMPONENT, PER IRC2018 N1102.1.2

VALUES BELOW ARE PER 2018 IECC, ACTUAL VALUES MAY VARY BASED ON ALTERNATE ENERGY COMPLIANCE PATH CHOSEN (IN JURISDITIONS WHERE ALTERNATIVE PATHS ARE AVAILABLE)									
CLIMATE ZONE	FENSTRATION U-FACTOR	SKYLIGHT U-FACTOR	GLAZED SHGC FENSTRATION		INSULATED WOOD DOOR U-VALUE	CEILING R-VALUE	WOOD FRAMED WALL R-VALUE	FLOOR R-VALUE	BASEM WALL R-\
4 EXCEPT MARINE	0.32	0.55	0.40	0.60	0.50	49	20 OR 13 CAV. +5	19	10 CONTIN OR 13 C

NOTES: 1) BUILDING THERMAL ENVELOPE IS REQUIRED TO BE SEALED WITH AN AIR BARRIER AS PER N1102.4.1 OF THE 2018 IRC 2) RECESSED LIGHTING SHALL BE SEALED TO PREVENT LEAKAGE BETWEEN THE CONDITIONED SPACE AND UNCONDITIONED SPACE 3) ALL DUCTS, AIR HANDLERS, FILTER BOXES, AND BUILDING CAVITIES USED AS DUCTS SHALL BE SEALED AS PER N1103.2 OF THE 2018 IRC

CATHEDRAL / VAULTED CEILING FRAMING AND INSULATION

MINIMUM R-38 INSULATION REQUIRED, SEE DETAIL 14/S-1.2

WHERE THE CEILING IS APPLIED DIRECTLY TO THE BOTTOM OF THE RAFTERS, A MINIMUM 1" AIR SPACE SHALL BE PROVIDED BETWEEN THE TOP OF THE INSULATION AND THE SHEATHING FOR VENTILATION (R806.3) NOTE: RAFTER SIZES SPECIFIED ON PLANS ARE THE MINIMUM REQUIRED FOR STRUCTURAL PURPOSES ONLY. BUILDER TO VERIFY: IF FULL RAFTER DEPTH IS NOT ADEQUATE FOR MINIMUM INSULATION VALUE, RAFTER SIZES WILL NEED TO BE INCREASED,

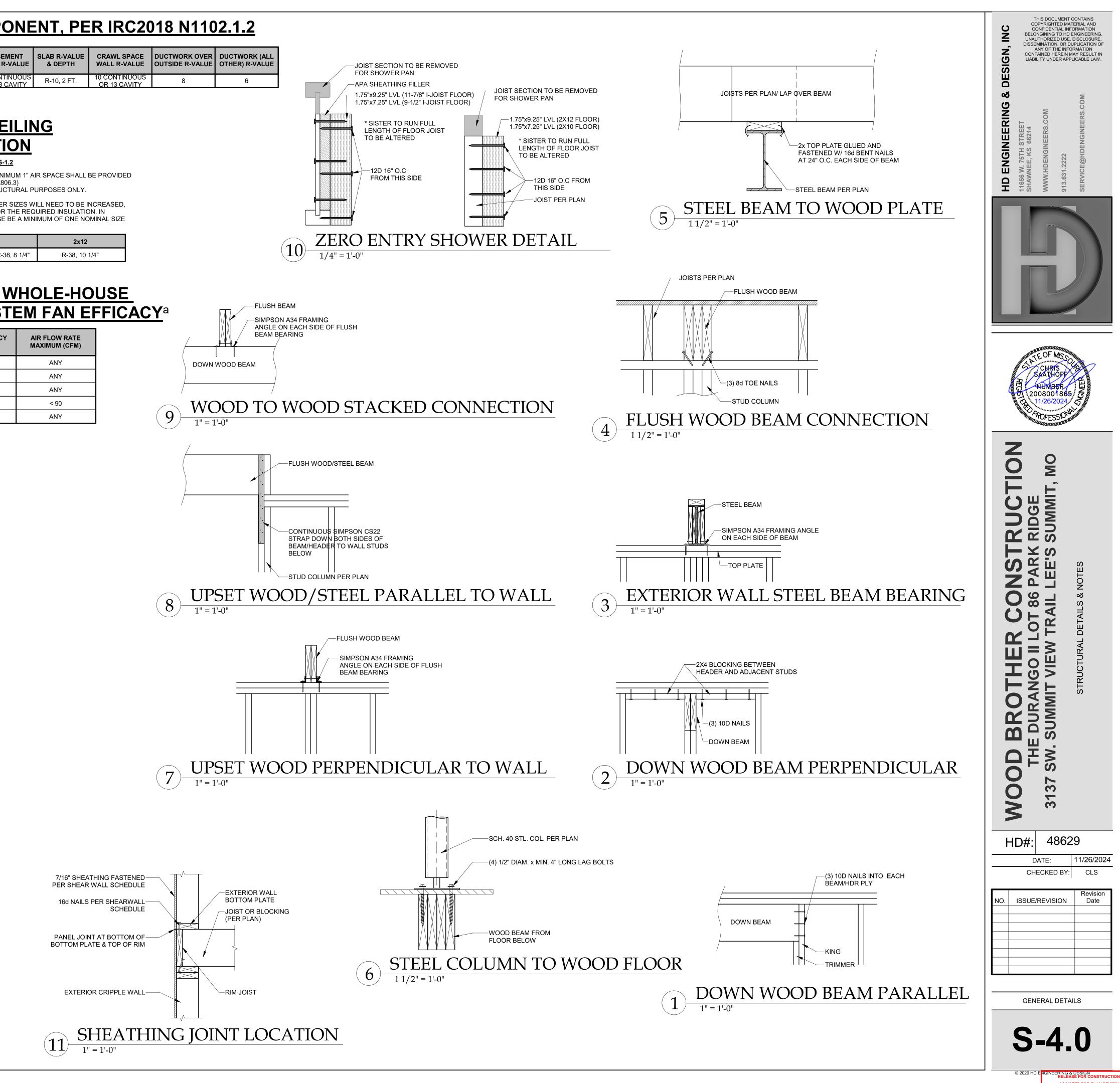
OR ADEQUATE FURRING SHALL BE USED TO OBTAIN THE MINIMUM JOIST DEPTH FOR THE REQUIRED INSULATION. IN ADDITION, IF THE RAFTER SIZE IS INCREASED IT SHALL BE VERIFIED THAT THE RIDGE BE A MINIMUM OF ONE NOMINAL SIZE LARGER THAN THE RAFTERS BEING RECEIVED. (SEE CHART BELOW)

MAXIMUM INSULATION VALUE	2x6	2x8	2x10
1" AIR SPACE (FIBERGLASS)	R-13, 3 1/2"	R-19, 6 1/4"	CONDENSED R-

TABLE N1103.6.1 (R403.6.1) WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM FAN EFFICACY^a

FAN LOCATION	AIR FLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY (CFM/WATT)
HRV OR ERV	ANY	1.2 CFM/WATT
RANGE HOODS	ANY	2.8 CFM/WATT
IN-LINE FAN	ANY	2.8 CFM/WATT
BATHROOM, UTILITY ROOM	10	1.4 CFM/WATT
BATHROOM, UTILITY ROOM	90	2.8 CFM/WATT

For SI: 1 cubic foot per minute = 28.3 L/min. WHEN TESTED IN ACCORDANCE WITH HVI STANDARD 916



AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 03/03/2025