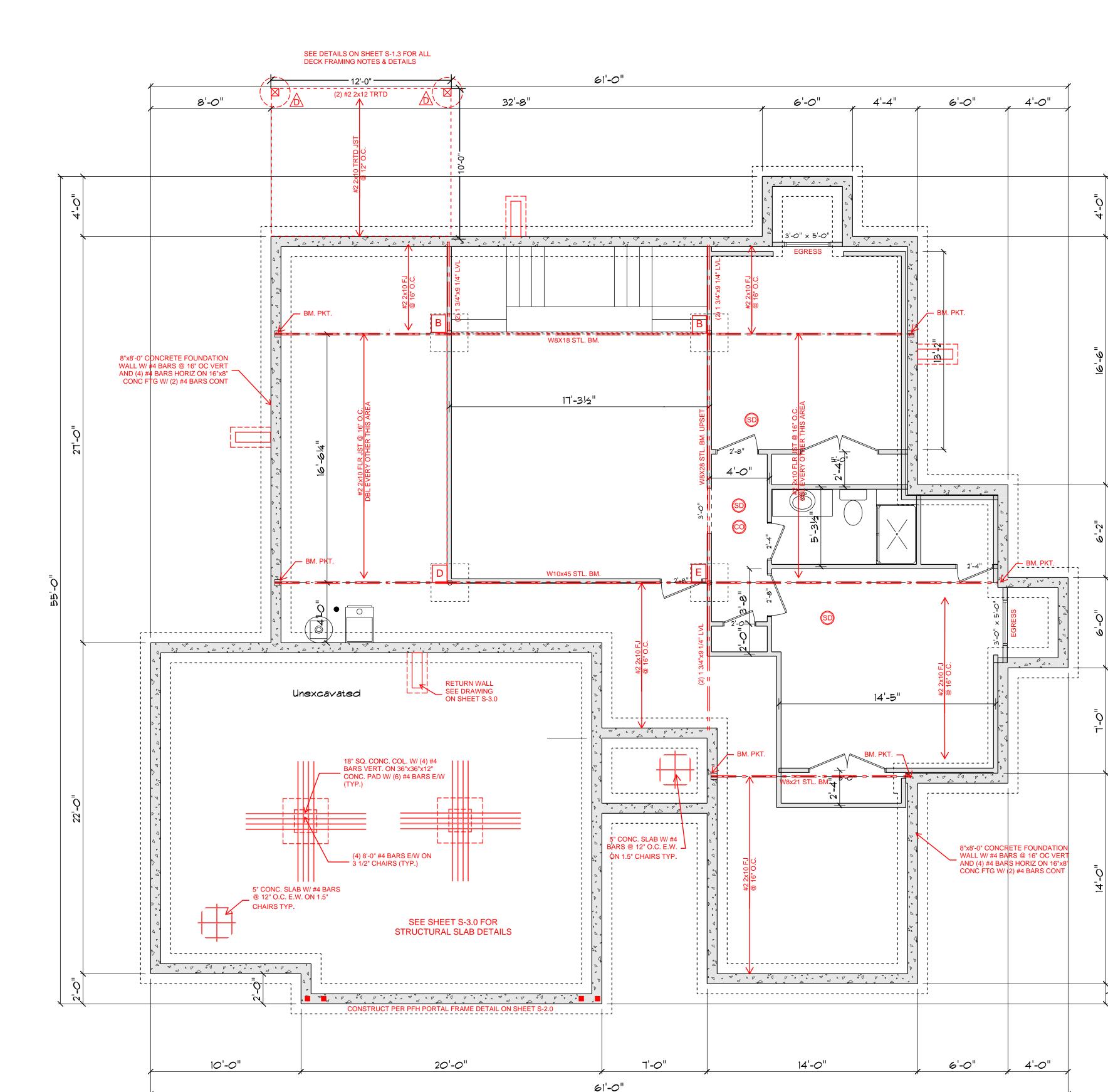


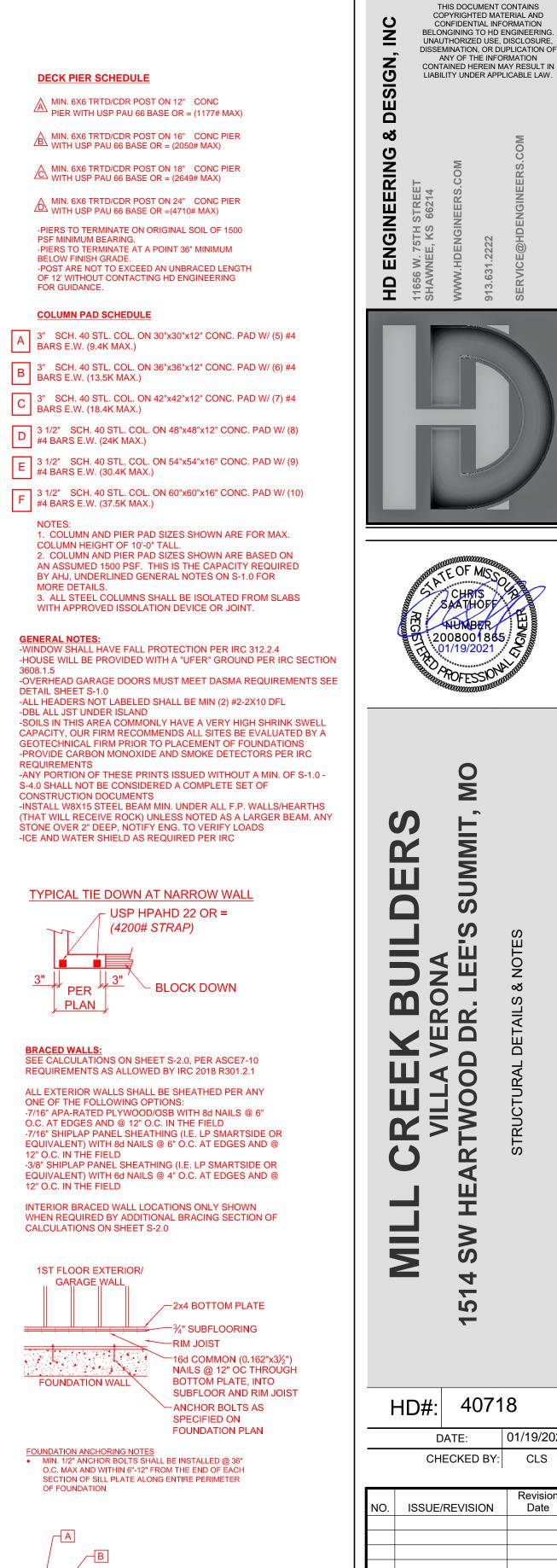


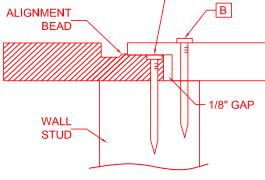
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3/8" APA REQUIRED NAILING PATTERN FOR SHIPLAP PANEL SHEATHING

NAILING WITH SPACING AS SPECIFIED PER PLAN. FOR EXAMPLE, IF REQUIRED SPACING IS 4" O.C., BOTTOM LAP SHALL FIRST BE NAILED AT 4" O.C. (NAIL "A"), THEN FULL DEPTH SECTION OF OVERLAP PANEL SHALL BE NAILED @ 4" O.C. (NAIL "B")

> PLANS DRAWN BY OTHERS **S-0.2**

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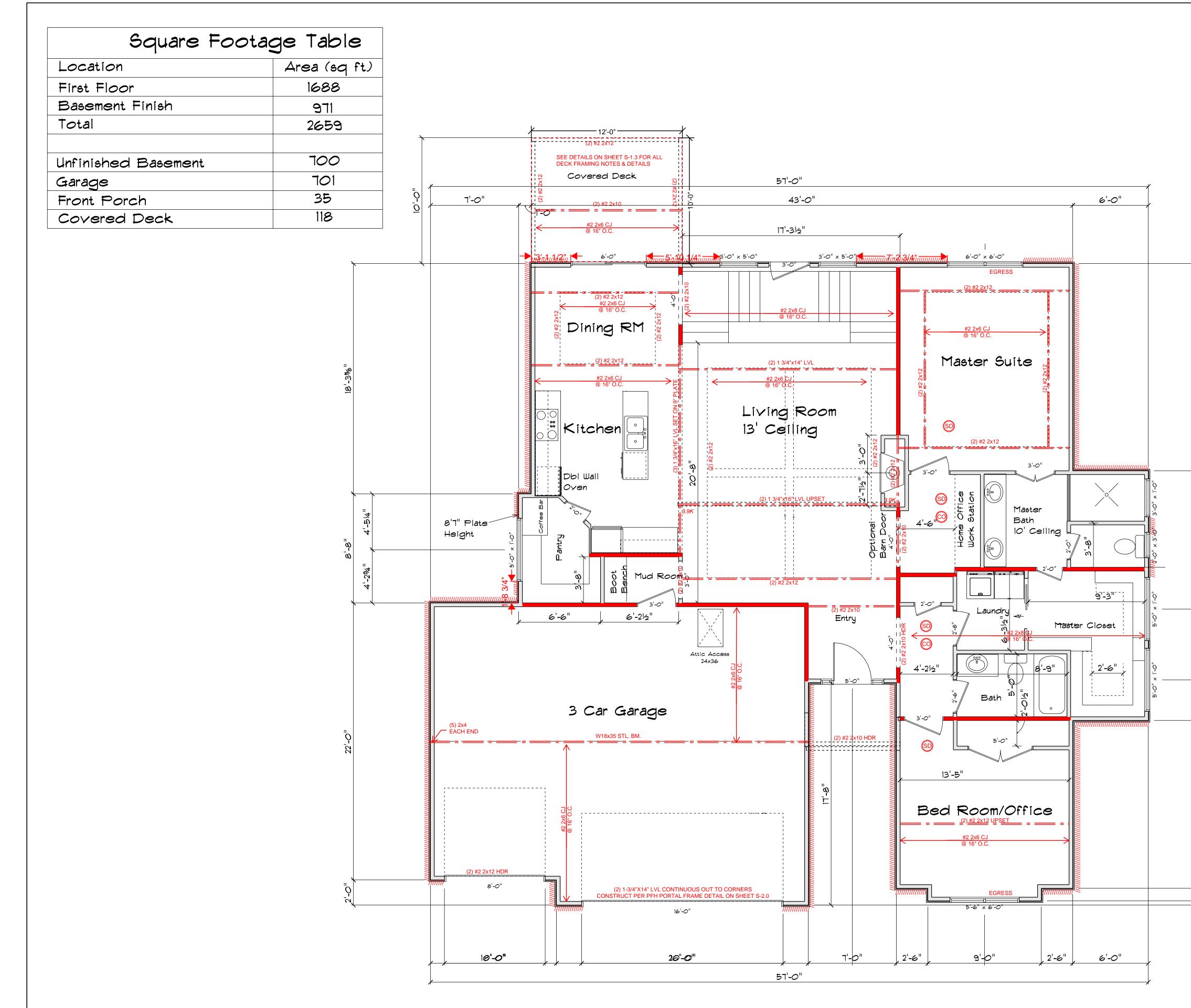
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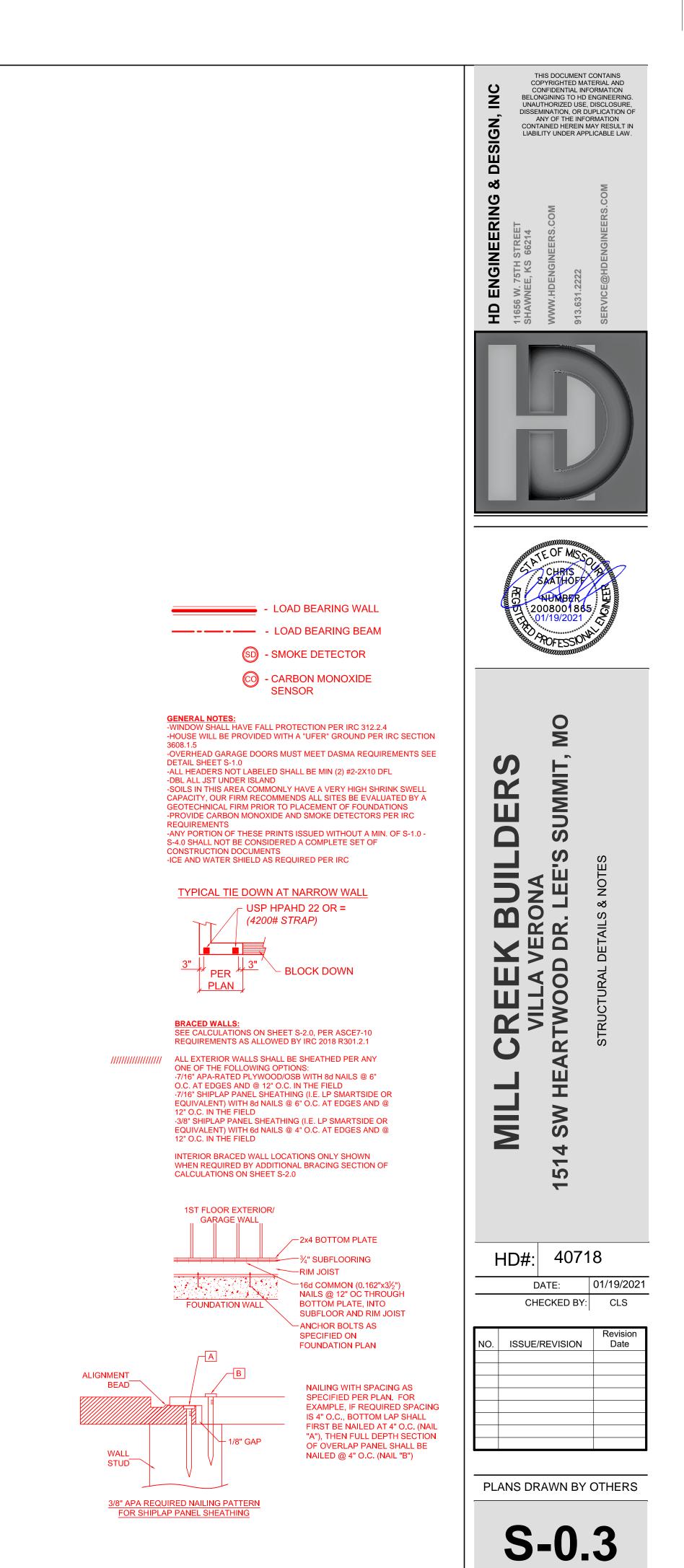
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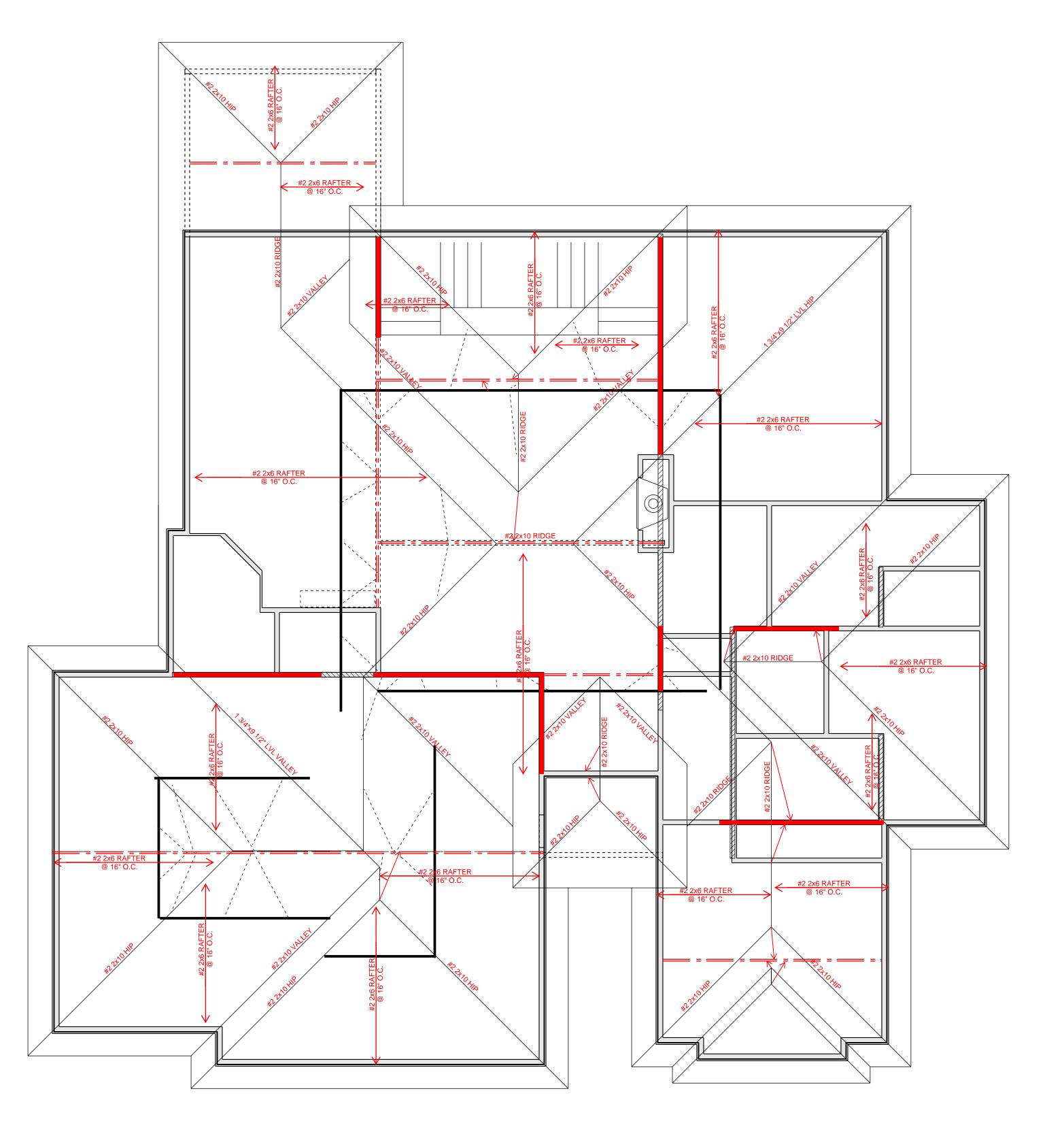
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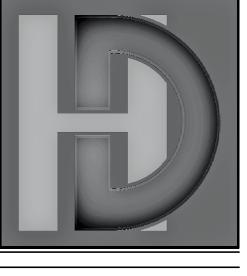


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NOTES

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	SPACING	MAX HORIZONTAL CLEARSPAN
#2-2x6	@24" O.C.	11'-11"
#2-2x6	@16" O.C.	14'-1"
#2-2x8	@24" O.C.	15'-1"
#2-2x8	@16" O.C.	18'-5"
#2-2x10	@24" O.C.	18'-5"
#2-2x10	@16" O.C.	22'-6"
NOTE: CODE MINI	MUM L/240 DEFLECT	ION

GREATER THAN CODE

GREATER THAN CODE								
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"

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







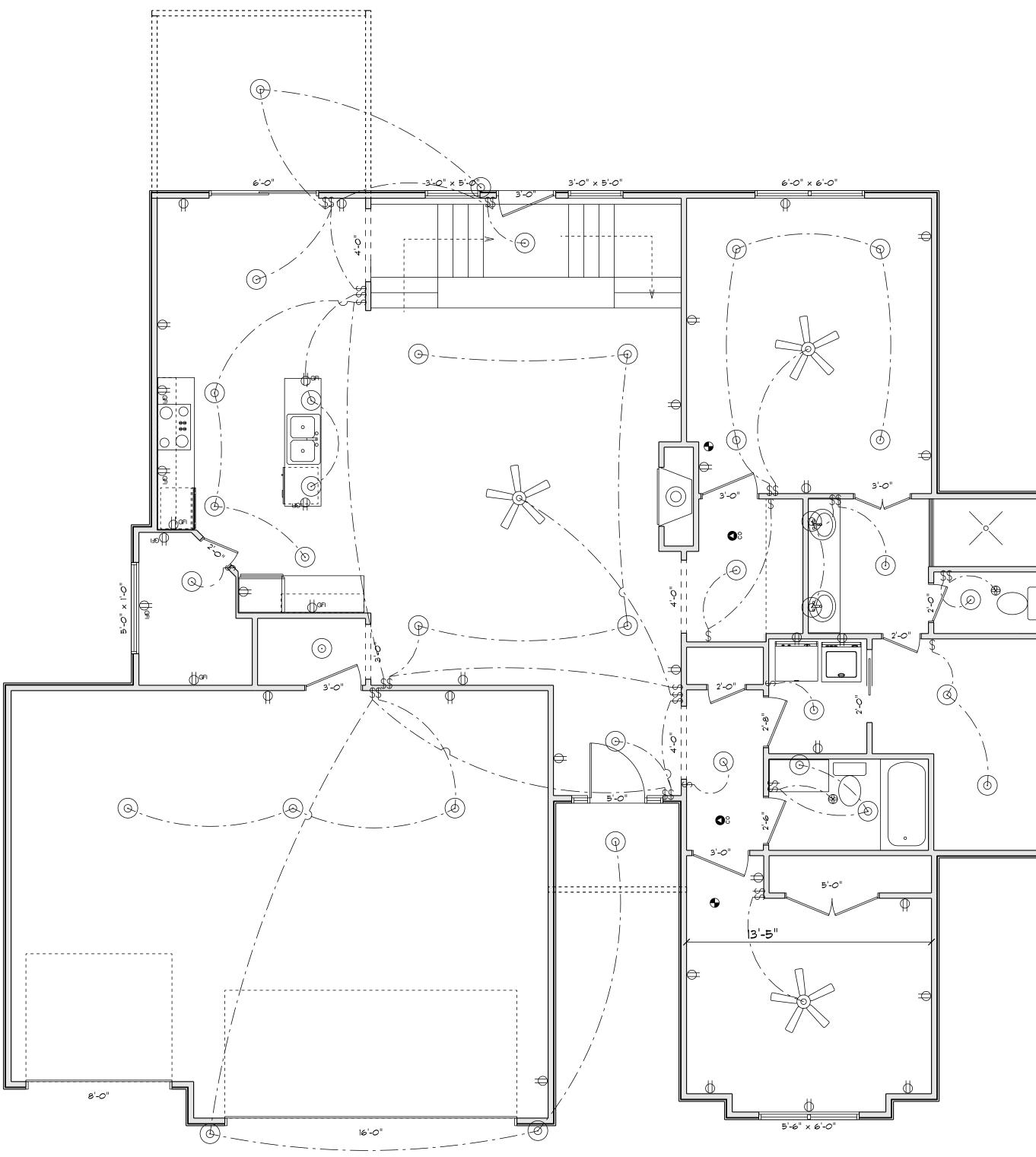
= = = - LOAD BEARING BEAM/ GIRDER PER PLAN

Load Bearing Wall

- CREEK BUILD VILLA VERONA EARTWOOD DR. LEE'S S Ś SW HE/ MILL 4 151 HD#: 40718 DATE: 01/19/2021 CHECKED BY: CLS Revision Date ISSUE/REVISION NO.

PLANS DRAWN BY OTHERS

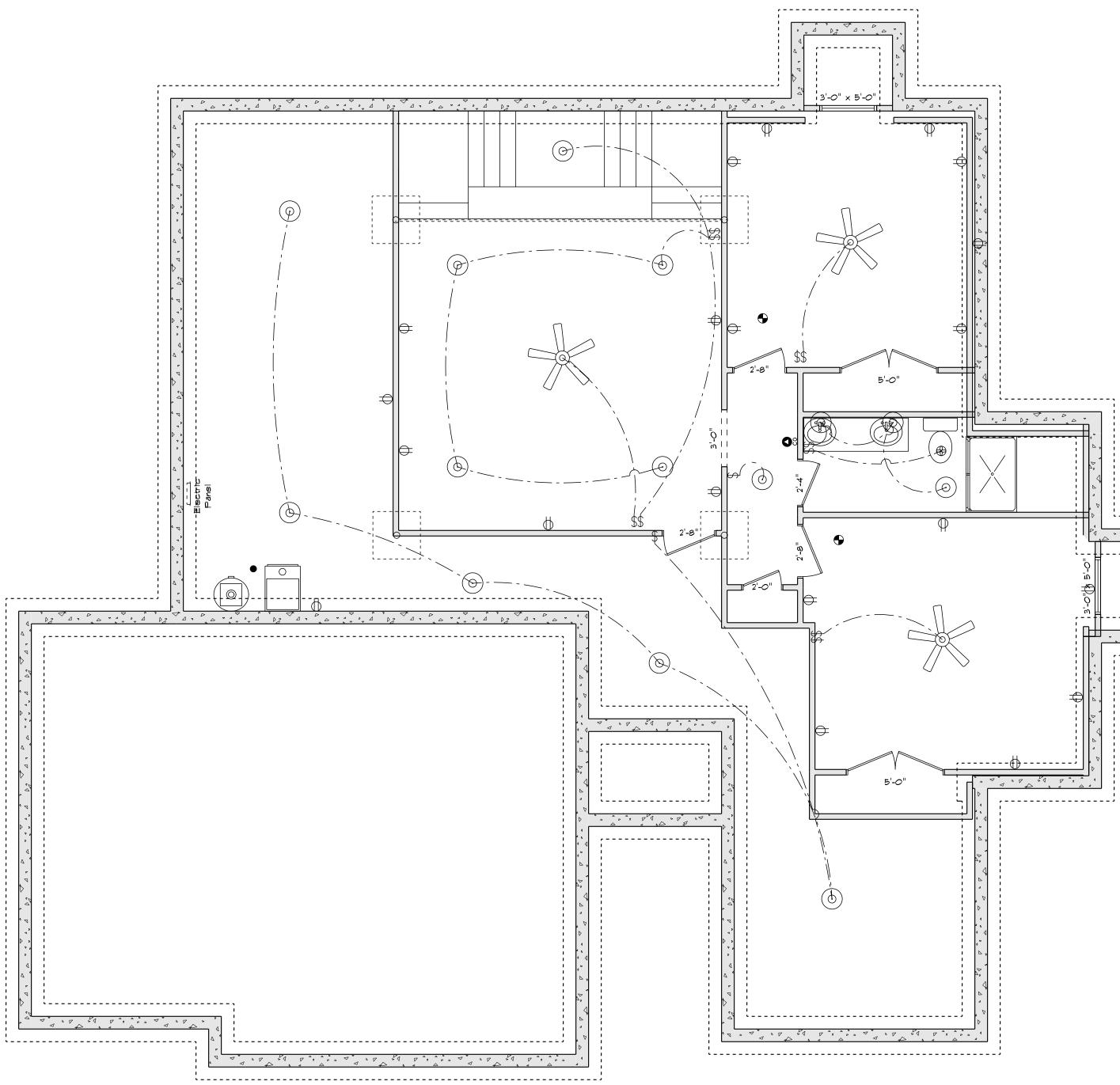
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MILL CREEK BUILDERS NILA VERONA 1514 SW HEARTWOOD R. LEE'S SUMMIT, MO STRUCTURA DETAILS & NOTES	
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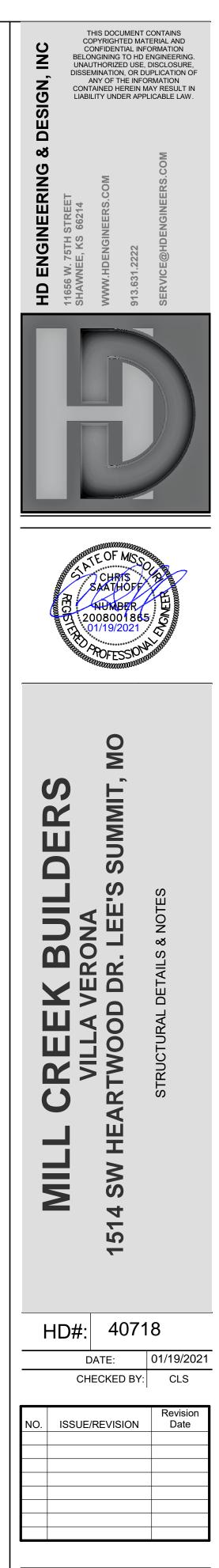
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PLANS DRAWN BY OTHERS

S-0.6

ALLOWABLE LOADS FOR PNEUMATIC OR MECHANICALLY DRIVEN NAILS AND STAPLES

	NAIL GUN		PENETRATION	AL	LOWABLE LO	ADS (IN POUN	DS)	BUILDING COMPONENT	FASTEN TO	FASTEN WITH
FASTENER DESCRIPTION	NAILS/	WIRE GA.	REQUIRED INTO MAIN MEMBER FOR LATERAL	LATERAL	STRENGTH	WITHDRAW	AL STRENGTH		RIDGE / VALLEY / HIP	TOENAIL W/ (4) 16D, FACENAIL W/ (3) 16E
	WIRE DIA.	0/1	STRENGTH (IN.)	SP	DF/L	SP	DF/L		PLATE	TOENAIL W/ (3) 10D
16 GA. STAPLE	.063	16	1	51		36	32	RAFTERS	LEDGER STRIPS SUPPORTING JOISTS OR RAFTERS	FACENAIL W/ (3) 16D
15 GA. STAPLE	.072	15	1	64		42	37		COLLAR TIE TO RAFTERS	FACENAIL W/ (3) 10D
14 GA. STAPLE	.080	14	1	75		46	41		TOP PLATE	TOENAIL W/ (3) 8D @ EACH END
6d COOLER NAIL									WHERE CLG JST RUN PARALLEL TO RAFTERS FAC	
6d SINKER NAIL	.092	13	1	46		27	23	CEILING JOISTS	LAPS OVER PARTITIONS	FACENAIL W/ (3) 10D
6d BOX NAIL									BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	TOENAIL W/ (3) 8D
6d CASING NAIL	.099	12-1/2	1-1/8	61	55	31	24			
7d COOLER NAIL									BUILT-UP BEAMS, 2" LUMBER LAYERS, FACENAIL OPPOSITE SIDES, (2) @ EACH END PLUS	10D @ 32" OC STAGGERED, TOP & BOTTOM, OPPOSITE SIDES
6d COMMON NAIL										
8d COOLER NAIL								BEAMS	BUILT-UP BEAMS OF ENGINEERED LUMBER, FACE NAIL OPPOSITE SIDES	(2) ROWS @ 12" OC
8d SINKER NAIL	.113	11-1/2	1-1/4	79	72	35	28		BUILT-UP HEADER, TWO PIECES W/ 1/2" SPACER	16D @16" OC ALONG EDGES
8d BOX NAIL									BUILT-UP HEADER, TWO PIECES, NO 1/2" SPACER	3" x 0.131" NAILS @ 12" OC ALONG EDGE
8d CASING NAIL										
6d RING SHANK NAIL									BEARING	TOENAIL W/ (2) 18D @ EACH END
d SCREW SHANK NAIL									RIM JOIST TO SILL OR TOP PLATE	TOENAIL W/ 8D COMMON OR 10D BO> NAILS @ 6" OC
8d RING SHANK NAIL	.120	11	1-3/8	89	81	41	32		JOIST TO SILL OR GIRDER	TOENAIL W/ (3) 8D
d SCREW SHANK NAIL								FLOOR JOISTS		
10d Cooler Nail									JOIST TO RIM JOIST BRIDGING TO JOIST	FACENAIL W/ (3) 16D
10d Sinker Nail	.128	10-1/2	1-1/2	89	81	36	31			TOENAIL W/ (2) 8D
12d Short									I-JOIST TO BEARING PLATE	TOENAIL W/ (2) 8D - ONE INTO EACH SIDE LEAST 1 1/2" FROM THE END
10d Box Nails 12d Box Nails	.128	10-1/2	1-1/2	101	93	40	31		RIM JOIST TO I-JOIST	FACENAIL W/ (2) 10D BOX NAILS - ONE IN EACH FLANGE
10d Casing Nails									SOLE PLATE TO LSL RIM BOARD	16D BOX NAILS @ 12" OC
8d Common Nails	.131	10-1/4	1-1/2	106	97	41	32		SINGLE JOIST HANGERS *	10D FACENAILS AND TOENAILS
16d Short			1 1/2	100	57		02		DOUBLE JOIST HANGERS *	16D FACENAILS AND TOENAILS
12d Sinkers	.135	10	1-1/2	113	103	42	33		TOP & SOLE PLATE TO STUD	END NAIL W/ (2) 16D
16d Box Nails	.100	10	1-1/2	115	100	72			STUD TO SOLE AND TOP PLATE	TOENAIL W/ (4) 8D
10d Ring Shank Nails									DOUBLE TOP PLATES	FACENAIL W/ 16D @ 16" OC
10d Screw Shank Nails	.135	10	1-5/8	113	103	46	36		DOUBLE TOP PLATE LAP SPLICE	FACENAIL W/ (8) 16D
12d Ring Shank Nails									TOP PLATE LAPS & INTERSECTIONS	FACENAIL W/ (2) 16D
12d Screw Shank Nails									DOUBLE STUDS	FACENAIL W/ 16D @ 24" OC
10d Common Nails									BUILT-UP CORNER STUDS	FACENAIL W/ 16D - 2 ROWS @ 24" OC
12d Common Nails 16d Sinker Nails	.148	9	1-5/8	128	118	46	36		STEEL "X" BRACING	FACENAIL W/ (2) 16D IN EACH TOP & BOTTOM PLATE & (1) 8D PER STUD
20d Box Nails	. 140	9	1-0/0	120	110	40	30	WALLS	SOLE PLATE TO JOIST OR BLOCKING	FACENAIL W/ 16D @ 16" OC
30d Box Nails										
16d Ring Shank Nails		- -							SOLE PLATES TO JOIST OR BLOCKING AT BRACED WALL LINES, PERPENDICULAR TO FRAMING	FACENAIL W/ (3) 16D @ 16" OC ALONG BRACED WALL PANEL
16d Screw Shank Nails	.148	9	1-3/4	128	118	50	40			
16d Common Nails		_		. – .				TOP PLATE TO JOIST OR BLOCKING AT BW LINES, PERPENDICULAR TO FRAMING	TOENAIL W/ 8D @ 6" OC ALONG BRACED WALL PANEL	
40d Box Nails	.162	8	1-3/4	154	141	50	40			
20d Ring Shank Nails		_							SOLE PLATES TO JOIST OR BLOCKING AT BW LINES PARALLEL TO FRAMING, BLOCKING @ 16" OC	FACENAIL W/ (3) 16D @ 16" OC ALONG E PANEL & AT EACH BLOCK
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		TOP PLATE TO JOIST OR BLOCKING AT BW LINES, PARALLEL TO FRAMING, BLOCKING @ 16" OC	TOENAIL W/ 8D @ 6" OC ALONG BW PANEL & AT EACH BLOCK
20d Common Nails	.148	9	2-1/8	170	166	59	47		NON-STRUCT. SIDING OVER STRUCT. SHEATHING	(1) 6D BOX NAIL IN EACH STUD
30d Sinker Nails	. 140	9	2-1/0	170	100	29	47		FIBER CEMENT PLANK SIDING	(1) 6D GALVANIZED NAIL IN EACH STUI
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SHEATHING SCHEDULE

ALL SHEATHING MATERIALS TO BE APPLIED PERPENDICULAR TO JOISTS AND ENDS STAGGERED

BUILDING COMPONENT	MATERIAL	FASTENING				
ROOF SHEATHING	7/16" PLYWOOD	16 GA X 1 3/4" STAPLES @ 6" OC EDGES & 12" OC IN FIELD				
ROOF SHEATHING	1x 4 #3 FURRING	1/2" CROWN STAPLES				
	3/4" T&G YELLOW	14 GA X 1 3/4" STAPLES @ 6" OC EDGES & 12" OC IN FIELD				
FLOOR SHEATHING	PINE PLYWOOD	12.5 GA X 1 1/2" RING OR SCREW SHANK NAILS @ 6" OC EDGES & 12" OC IN FIELD				
WALL COVERING	1/2" GYPSUM SHEATHING	6D COMMON NAILS: 1 5/8" GALVANIZED STAPLES; 1 1/4" SCREWS, TYPE W OR S @ 4" OC EDGES & 8" OC IN FIELD				
CEILING COVERING	1/2" GYPSUM SHEATHING	7" OC NAILED / 12" OC SCREWED W/ 13GA, 1 3/8" LONG, 19/64" HEAD; 0.098 Ø, 1 1/4" LONG, ANG-RINGED; 5D COOLER NAIL, 0.086 Ø, 1 5/8" LONG, 15/64" HEAD; OR GYP BD NAIL, 0.086 Ø, 1 5/8" LONG, 19/64" HEAD				
EXTERIOR WALL	7/16" APA RATED SHEATHING	8D COMMON NAILS @ 6" OC EDGES & 12" OC IN THE FIELD				
SHEATHING	RATED PANEL SIDING, RATED 16" O.C. 7/16" THICK	8D BOX OR SINKER NAILS @ 6" OC EDGES & 12" OC IN THE FIELD				

EXCEPTIONS: SEALS.

FRAME FASTENING SCHEDULE

* JOIST HANGER NOTES: 1) NO JOIST HANGER NAILS ALLOWED FOR TOENAILS, 2) NO GUN NAILS OR SCREWS ALLOWED IN CONNECTORS, 3) 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"x2" 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.

DUCT SEALING METHOD, PER IRC2018 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.

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

GENERAL NOTES

1. PLANS SHALL COMPLY WITH THE 2018 INTERNATIONAL RESIDENTIAL CODE, IECC 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 MAKE ANY APPROPRIATE MODIFICATIONS TO THE PLANS. 2. WHERE DISCREPANCIES EXIST BETWEEN THE STANDARD COMMENTS, NOTES FOR THE DESIGN PROFESSIONAL OR THE CODE, THE MOST RESTRICTIVE SHALL APPLY. 3. 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 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 ENGINEERING OR A PROFESSIONAL REFERRED BY HD ENGINEERING SHALL RELEASE HD ENGINEERING FROM ALL LIABILITY ASSOCIATED WITH THIS DESIGN. 4. 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 GEOTECHNICAL FIRM PRIOR TO PLACING FOOTINGS. THE ATTACHED PLANS HAVE BEEN DESIGNED WITH THE UNDERSTANDING THAT OUR FIRM HAS NOT AND CAN NOT 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 DESIGNS THAT REQUEST MUST BE MADE CLEARLY AND IN WRITING PRIOR TO ENGINEERING OF THE PLAN. 5. DUE TO THE WIDE VARIETY OF SOIL CONDITIONS IN OUR AREA AND THE WIDE VARIETY OF PLASTICITY INDEX AND SOIL BEARING CAPACITIES OUR FIRM RECOMMENDS ALL SITES BE EVALUATED BY HD ENGINEERING OR AN HD ENGINEERING REFERRED GEOTECHNICAL FIRM PRIOR TO PLACEMENT OF ANY "STANDARD" FOUNDATIONS .

FOUNDATION NOTES

REQUIREMENTS BASED ON ACTUAL SITE CONDITIONS 2. FOUNDATION WALLS SHALL BE DAMP-PROOFED PER IRC SECTION R406. 3. 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.

4. FOUNDATION DESIGN SHALL BE BASED ON A MINIMUM SOIL BEARING CAPACITY OF 1500 PSF. 5. FOOTINGS SHALL BE A MIN. OF 16" WIDE AND 8" DEEP W/ (2) #4 BARS CONTINUOUS, LOCATED A MIN. OF 3" CLEAR FROM BOTTOM. FOOTINGS SHALL BE A MINIMUM OF 36" BELOW GRADE FOR FROST PROTECTION.

6. COLUMN PADS SHALL BE A MINIMUM OF 24"X24"X8" WITH (3) #4 BARS EACH WAY. 7. FOUNDATION WALLS SHALL BE A MINIMUM 8" THICK W/ MINIMUM #4 BARS @ 24" O.C. HORIZONTAL AND VERTICAL W/ THE TOP BAR WITHIN 8" OF THE TOP OF THE WALL UNLESS NOTED OTHERWISE ON PLAN.

8. REINFORCEMENT SHALL LAP A MINIMUM OF 24"

9. INTERIOR BEARING WALLS AND COLUMNS SHALL BE ISOLATED FROM THE BASEMENT FLOOR SLAB. 10. 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" 11. CONCRETE FLOOR SLABS ON GRADE, SHALL BE A MINIMUM 4" THICK OVER A MINIMUM 4" BASE OF SAND, GRAVEL, OR CRUSHED STONE. BASEMENT SLABS SHALL HAVE

A MIN. 6 MIL POLYETHYLENE OR APPROVED VAPOR RETARDER WITH JOINTS LAPPED NOT LESS THAN 6" SHALL BE PLACED BETWEEN THE FLOOR SLAB AND THE BASE COURSE

DESIGN.

SPACED NOT MORE THAN 3' ON CENTER AND WITHIN 12" OF EACH END PIECE PER IRC SECTION R403.1.6. 14. FOUNDATION WINDOW WELLS FOR SECONDARY MEANS OF EGRESS SHALL PROVIDE A MINIMUM 3'X3' HORIZONTAL AREA. 15. 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 16. 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 DEEPENING OF FOUNDATION ELEMENTS, OR UNDERCUTTING OF UNSUITABLE MATERIALS AND REPLACEMENT WITH ENGINEERED FILL.

STAIRWAY NOTES: 1. STAIRWAYS SHALL PROVIDE A MAXIMUM 7 3/4" RISE AND MIN. 10" RUN. 2. PROVIDE MINIMUM 36" GUARDRAILS ON THE OPEN SIDES OF RAISED FLOORS, PORCHES AND BALCONIES. 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 SPHERE 4" IN DIAMETER 3. 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 THREADS. 4. HANDRAILS SHALL HAVE A CIRCULAR CROSS-SECTION OF 1 1/4" MINIMUM TO 2" MAXIMUM OR OTHER APPROVED GRASPABLE SHAPE PER IRC SECTION R311.7.8.5 5. PROVIDE A MINIMUM 6'-8" OF HEADROOM CLEARANCE IN STAIRWAYS. 6. ENCLOSED ACCESSIBLE SPACE UNDER STAIRWAYS SHALL HAVE WALLS AND THE UNDERSIDE OF THE STAIR AND LANDING PROTECTED WITH 1/2" GYPSUM BOARD ON ENCLOSURE SIDE 7. WINDERS SHALL PROVIDE A MINIMUM TREAD OF AT LEAST 6" AT ANY POINT WITHIN CLEAR WIDTH OF STAIRS. WINDER TREAD PROPORTION TO COMPLY WITH IRCR311.7.5.2.1. <u>GLAZING NOTES:</u> 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 R Σ 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" Σ ABOVE THE FLOOR OR WALKING SURFACE WITHIN 36" 2. IN DWELLING UNITS, WHERE THE OPENING OF AN OPERABLE WINDOW IS LOCATED MORE THAN 72 INCHES ABOVE THE FINISHED GRADE OR SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE A MINIMUM OF 24 INCHES ABOVE THE FINISHED FLOOR OF THE ROOM IN WHICH THE WINDOW IS S LOCATED. OPERABLE SECTIONS OF WINDOWS SHALL NOT PERMIT OPENINGS THAT ALLOW PASSAGE OF A 4 INCH DIAMETER SPHERE WHERE SUCH OPENINGS ARE LOCATED WITHIN 24 INCHES OF THE FINISHED FLOOR. 1

FRAMING NOTES:

1. ALL LUMBER SIZES ARE FOR DOUGLAS FIR-LARCH UNLESS OTHERWISE NOTED. 2. ALL HEADERS TO BE A MINIMUM OF (2) #2-2X10'S UNLESS OTHERWISE NOTED.

3. BLOCK CANTILEVERS, DOOR JAMBS, AND OVER BEAMS. 4. ALL HEADERS/BEAMS TO BEAR ON A MINIMUM OF (1) 2X4 POSTS UNLESS NOTED OTHERWISE. 5. INTERIOR NON-BEARING WALLS, OTHER THAN THOSE RESTING DIRECTLY ON THE FOOTING SHALL BE ISOLATED FROM THE FLOOR FRAMING ABOVE 6. WHERE JOISTS RUN PARALLEL TO FOUNDATION WALLS, SOLID BLOCKING FOR A MINIMUM OF (2) JOIST SPACES SHALL BE PROVIDED AT A MAXIMUM OF 4' CENTERS 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. 7. IF DUCTS ARE INSTALLED IN THE FIRST JOIST SPACE(S), NAIL 2X4'S FLAT AT 4' CENTERS 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. 8. ALL SILLS AND SLEEPERS SUPPORTED ON CONCRETE OR MASONRY AND FURRING ATTACHED TO CONCRETE OR MASONRY SHALL BE OF DECAY RESISTANT MATERIALS.

9. JOISTS UNDER BEARING PARTITIONS SHALL BE SIZED TO CARRY THE DESIGN LOAD IN ACCORDANCE WITH IRC SECTION R502.4. 10. JOISTS FRAMING FROM OPPOSITE SIDES OVER BEARING SUPPORTS SHALL LAP A MINIMUM OF 3" AND SHALL BE NAILED TOGETHER WITH A MINIMUM 10D FACE NAILS. 11. JOISTS FRAMING INTO A WOOD GIRDER OR BEAM SHALL BE SUPPORTED BY APPROVED FRAMING ANCHORS OR ON MINIMUM 2"X2" LEDGER STRIPS. 12. 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.

13. JOISTS AT SUPPORTS SHALL BE SUPPORTED LATERALLY AT THE ENDS BY FULL-DEPTH SOLID BLOCKING NOT LESS THAN 2" 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.

14. ALL WALL COVERINGS TO COMPLY WITH IRC SECTION 702 AND 703 15. ALL RAFTER / COLLAR TIES TO COMPLY WITH IRC SECTIONS 804

16. ALL RAFTERS TO HAVE 2x4 COLLAR TIES @ 48" OC IN UPPER 1/3 OF DISTANCE BETWEEN CEILING AND ROOF 17. BLOCKING BETWEEN JOISTS UNDER A PERPENDICULAR LOAD-BEARING WALL IS NOT REQUIRED

18. BOTTOM OF ALL FLOOR ASSEMBLIES SHALL BE PROVIDED WITH A 1/2" GYPSUM WALLBOARD MEMBRANE (IF REQUIRED BY LOCAL CODE)

19. I-JOIST AND FLOOR TRUSS SYSTEMS SHALL BE FIRE PROTECTED PER IRC AS ADOPTED BY AHJ 20. STUDS SHALL BE CONTINUOUS FROM THE FLOOR TO THE ROOF/ CEILING DIAPHRAGM PER IRC 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

1. 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. 2. 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. 3. 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:

1. 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. 2. DOORS BETWEEN THE GARAGE AND DWELLING - MINIMUM 1 3/8" SOLID WOOD, SOLID OR HONEY-COMBED CORE STEEL DOOR NOT LESS THAN 1 3/8" THICK, OR 20 -

MINUTE FIRE - RATED EQUIPPED WITH SELF CLOSING DEVICE PER IRC2018 R302.5.1. 3. 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 IRC2018 R301.2.1

4. 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.

5. 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"X.120" NAILS AT 7" CENTERS STAGGERED WITH (7) 3 1/4"X.120" NAILS THRU THE JAMB INTO THE HEADER, MINIMUM 2X8 HEADER FOR ATTACHMENT OF COUNTER BALANCE SYSTEM.

6. ANY ATTACHED GARAGE TO THE MAIN HOUSE SHALL BE PROVIDED WITH A SINGLE HEAT DETECTOR. HEAT DETECTOR SHALL BE HARDWIRED AND INTERCONNECTED WITH THE HOUSEHOLD SMOKE ALARM SYSTEM. HEAT DETECTOR SHALL BE LISTED FOR THE AMBIENT ENVIRONMENT AND INSTALLED PER MANF. INSTRUCTIONS.

MECHANICAL/INSULATION: 1. BUILDING ENVELOPE INSULATION SHALL COMPLY WITH IRC TABLE N1102.1.1 OR THE 2018 IECC.

2. BUILDING THERMAL ENVELOPE IS REQUIRED TO BE SEALED PER 2018 IRC N1102.4.1 & TABLE N1102.4.1.1.

VENTILATION 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 1/150 OF THE AREA OF SPACE VENTILATED, EXCEPT WHERE THE VENTILATORS AREA LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED THE REQUIRED AREA MAY BE REDUCED TO 1/300.

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

12. FLOOR SLABS SUPPORTED BY FILL CONSISTING OF MORE THAN 24" OF GRANULAR FILL OR 8" OF EARTH SHALL BE REINFORCED PER A SEPARATE ENGINEERING

13. BASEMENT FOUNDATION SILL PLATES SHALL BE BOLTED TO THE FOUNDATION W/ A MINIMUM OF 1/2" ANCHOR BOLTS EMBEDDED AT LEAST 7" INTO THE CONCRETE AND

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ONTAINED HEREIN MAY RESULT IN ILITY UNDER APPLICABLE LAW.

TABLE R602.3(1) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

									THE DWELLING SHALL COMPLY WITH THE FOLLOW	ING LOAD CONDITIONS
ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF ^{a,b,c} FASTENER	SPACING OF FASTENERS	ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF a,b,c FASTENER	SP. EDGES (IN	ACING OF FASTENERS INTERMEDIATE c, e SUPPORTS (INCHES)	AREA	MIN MIN DEAD LIVE LOAD LOAD
					WOOD STRUCTURAL PANELS, SUBFLOOR, ROOF AND INTERIOF				EXTERIOR BALCONIES	10 60
1	BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOE NAIL	4-8D BOX (2 1/2" X 0.113") 3-8D (2 1/2" X 0.113")	TOE NAIL		[SEE TABLE ROU2.3(3) FOR WOOD STRUC				DECKS, STAIRS	10 40
2	CEILING JOISTS TO PLATE, TOE NAIL	3-10D (3"X0.128") 3-3"X 0.131" NAILS	PER JOIST, TOE NAIL	30	3/8"- 1/2"	6D COMMON (2"X 0.113" NAIL (SUBFLOOR, WA 8D COMMON (2 1/2" X 0.131 NAIL (ROOF); or RSRS		12 f	CEILING JOISTS / ATTICS NO STORAGE - SCUTTLE ACCESS ONLY ROOF SLOPE 3:12 OR LESS	10 10
3	CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (SEE SECTION R802.5.2 AND TABLE R802.52	4-10D BOX (3"X 0.128") 3-16D COMMON (3 1/2"X 0.162") 4-3"X 0.131"NAILS	FACE NAIL	31	19/32" - 1"	3/8" X 0.113" NAIL (ROOF) j 8D COMMON NAIL (2 1/2" X 0.131; or RSRS-01; 2 3 0.113) NAIL ROOF j	3/8" X 6	12 f	CEILING JOISTS / ATTICS NO STORAGE - SCUTTLE ACCESS ONLY ROOF SLOPE OVER 3:12 CEILING JOISTS / ATTICS WITH STORAGE - DOOR	10 10
4	CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT) SEE SECTION R802.5.2 AND TABLE R802.5.2)	TABLE R802.5.2	FACE NAIL	32	1 1/8" - 1 1/4"	10D COMMON NAIL (3" X 0.148) NAIL; or 8D (2 1/	/2" X 6	12	PULL DOWN LADDER ACCESS ROOMS: NON-SLEEPING	10 20 10 40
5	COLLAR TIE TO RAFTER, FACE NAIL OR 1 1/4" X 20GA. RIDGE STRAP TO RAFTER	4-10D BOX (3" X 0.128") 3-10D COMMON (3" X 0.148") 4-3" X 0.131" NAILS	FACE NAILS EACH RAFTER			0.131") DEFORMED NAIL			ROOMS: SLEEPING ROOF: LIGHT ROOF COVERING	10 30 10 20
6	RAFTER OR ROOF TRUSS TO PLATE	3-16D BOX NAILS (3 1/2" X0.135") 3-10D COMMON NAILS (3" X 0.148" 4-10D BOX (3" X 0.128" 4-3" X0.131" NAILS	2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS ¹	33	1/2" STRUCTURAL CELLULOSE FIBERBOARD SHEATHING	1 1/2" GALVANIZED ROOF NAIL, 7/16" HEAD DIAM OR 1 1/4" LONG 16GA. STAPLE WITH 7/16" OR CROWN	R 1" 3	6	ROOF: HEAVY ROOF COVERING / CONCRETE / TILE / SLATE GUARDRAILS, HANDRAILS	20 20 200# LL NORMAL
	ROOF RAFTERS TO RIDGE, VALLEY OR HIP RAFTERS OR ROOF	4-16D(3 1/2" X 0.135"); OR 3-10D COMMON (3" X 0.148") 4-10D BOX (3" X 0.128"); OR 4-3" X 0.131" NAILS		34	25/32" STRUCTURAL CELLULOSE FIBERBOARD SHEATHING	1 3/4" GALVANIZED ROOF NAIL, 7/16" HEAD DIAM OR 1 1/2" LONG 16GA. STAPLE WITH 7/16" OR 1" CR	3	6	HEAVY ROOF COVERING MATERIAL (TILE, CONCRETE BE USED UNLESS 20 PSF DEAD LOAD AND HEAVY ROO ROOF PLAN. IF HEAVY ROOFING IS TO BE USED AND	OF IS NOTED ON THE NOT NOTED ON THE ROO
7	RAFTER TO MINIMUM 2" RIDGE BEAM	3-16D(3 1/2" X0.135"); OR 2-16D COMMON (3 1/2" X0.162") 3-10D BOX (3" X 0.128"); OR 3-3" X 0.131" NAILS	TOE NAIL	35	1/2" GYPSUM SHEATHING d	1 1/2" GALVANIZED ROOF NAIL, STAPLE GALVAN 11/2" LONG; 1 1/4" SCREWS, TYPE W or S		7	PLAN NOTIFY ENGINEER PRIOR TO ANY CONSTRUCTI FOUNDATION AND SITE WORK. IF THE PLAN HAS BEE ROOF LOADS IT WILL BE NOTED IN THE ROOF NOTES	N DESIGNED FOR HEAVY
		WALL 16D (3 1/2" X 0.162")	24" OC FACE NAIL	36	5/8" GYPSUM SHEATHING d	1 3/4" GALVANIZED ROOF NAIL; STAPLE GALVAN 1 5/8" LONG; 1 5/8" SCREWS, TYPE W or S		7		
8	STUD TO STUD (NOT BRACED WALL PANELS)				WOOD STRUCTURAL PANELS, C	COMBINATION SUBFLOOR UNDERLAYMENT TO FRAME	MING			
	STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL	10D BOX (3" X 0.128"); OR 3" X 0.131" NAILS 16D BOX (3 1/2" X 0.135"); OR 3" X 0.131" NAILS	16" OC FACE NAIL 12" OC FACE NAIL	37	3/4" AND LESS	6D DEFORMED (2" X 0.120") NAIL OR	6	10	<u>COLUMN SCH</u>	EDULE
9	CORNERS (AT BRACED WALL PANELS)	16D BOX (3 1/2" X 0.135"); OR 3" X 0.131" NAILS 16D COMMON (3 1/2" X 0.162")	12 OC FACE NAIL	51	J/4 AND LEOO	8D COMMON (2 1/2" X 0.131") NAIL	0	12	BASED ON FOOTING SIZE (ASSUM	E 1500 PSF SOIL)
10	BUILT-UP HEADER (2" TO 2" HEADER WITH 1/2" SPACER)	16D COMMON (3 1/2" X 0.162")	16" OC EACH EDGE FACE NAIL	38	7/8" - 1"	8D COMMON (2 1/2" X 0.131") NAIL OR 8D DEFORMED (2 1/2" X 0.120") NAIL	6	12	PAD SIZE REINFORCEMENT COL	
		16D BOX (3 1/2" X 0.135") 5-8D BOX (2 1/2" X 0.113") or 4-8D COMMON	12" OC EACH EDGE FACE NAIL	20	1 1/8" - 1 1/4"	10D COMMON (3" X 0.148") NAIL OR		12	24x24x12 (4) #4 BARS E/W 3"	SCH40 6K
11	CONTINUOUS HEADER TO STUD	(2 1/2" X 0.131") 4-10D BOX (3" X 0.128")	TOE NAIL	58	1 1/ 0 - 1 1/ 4	8D DEFORMED (2 1/2" X 0.120") NAIL	0	12	30x30x12 (5) #4 BARS E/W 3"	SCH40 9.4K
		16D COMMON (3 1/2" X 0.162")	16" OC FACE NAIL	For SI: 1 in	ch = 25.4mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s; 1 ksi = 6.8	395 MPa.			36x36x12 (6) #4 BARS E/W 3"	SCH40 13.5K
12	TOP PLATE TO TOP PLATE	10D BOX (3" X 0.128") OR 3" X 0.131" NAILS	12" OC FACE NAIL						42x42x14 (7) #4 BARS E/W 3 1/2	
13	DOUBLE TOP PLATE SPLICE	8-16D COMMON (3 1/2" X 0.162"); or 12-16D BOX (3 1/2" X 0.135"); or 12-10D BOX (3" X 0.128"); or 12-3" X 0.131" NAILS	FACE NAIL ON EACH SIDE OF END JOINT (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)		<u>TABLE R 602.3(5) SIZE, H</u>	IEIGHT, AND SPACIN			48x48x16 (8) #4 BARS E/W 3 1/2 54x54x16 (9) #4 BARS E/W 3 1/2	2" SCH40 30.4K
	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING	16D COMMON (3 1/2" X 0.162")	16" OC FACE NAIL	· · · · · ·				N-BEARING WALLS	60x60x18 (10) #4 BARS E/W 3 1/2	2" SCH40 37.5K
14	(NOT AT BRACED WALL PANELS	16D BOX (3 1/2" X 0.135"); OR 3" X 0.131" NAILS	12" OC FACE NAIL		UNSUPPORTED WHERE SUPPORTING A WHERE S	SUPPORTING WHERE SUPPORTING WHERE SU		LATERALLY LATERALL SUPPORTED STUD UNSUPPORTED) STUD	
15	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS	3-16D BOX (3 1/2" X 0.135"); or 2-16D COMMON (3 1/2" X0.162"); or 4-3" X 0.131" NAILS	3, 2, OR 4 EACH 16" OC FACE NAIL	STUD SI (IN)	(feet) ASSEMBLY OR A ROOF HABITABLE ATTIC ASSEM ASSEMBLY, ONLY HABITA	F-CEILING ROOF-CEILING (inc MBLY OR A ASSEMBLY OR A ABLE ATTIC HABITABLE ATTIC	OR HEIGHT a ches)	HEIGHT a HEIGHT (feet) (feet)	COLUMN CONNECTION TO STEEL BEAMS SHA ALL FOUR TAB EARS BENT AROUND THE BOT BEARING PLATE, FOUR HOLES SHALL BE DRII STEEL BEAM TO MATCH THE HOLE PATTERN	TOM FLANGE OF THE BE _LED IN THE BOTTOM FLA OF THE PLATE. 1/2" X 2"
16	TOP OR BOTTOM PLATE TO STUD	4-8D BOX (2 1/2" X 0.113"); or 3-16D BOX (3 1/2" X0.135"); or 4-8D COMMON (2 1/2" X0.131");or 4-10D BOX (3" X0.128"); or 3-3" X 0.131" NAILS	TOE NAIL		(inches) ASSEME	BLY (inches) ASSEMBLY (inches)			SHOULD THEN BE INSTALLED WITH A FLAT W EACH OF THE HOLES. THE POST CAP MAY BE ACCORDANCE WITH AWS D1.1-92 AS AN ALTE INSPECTED BY AN AWS-CERTIFIED INSPECTO	E WELDED TO THE STEEL ERNATIVE, AND WOULD N
		3-16D BOX (3 1/2" X 0.135"); or 2-16D COMMON (3 1/2" X0.162"); or 3-10D BOX (3" X0.128");or 3-3" X 0.131" NAILS	END NAIL			- = +				
17	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	3-10D BOX (3" X 0.128"); or 2-16D COMMON (3 1/2" X0.162"); or 3-3" X 0.131" NAILS	FACE NAIL	2x3				10 16		
18	1" BRAVE TO EACH STUD AND PLATE	3-8D BOX (2 1/2" X 0.113"); or 2-8D COMMON (2 1/2" X0.131") or 2-10D BOX (3" X 0.128"); or 2 STAPLES 1 3/4"	FACE NAIL	2x4 3x4	10 24	24 16 2	24	14 24 14 24 14 24		<u>JMBER</u>
19	1" X 6" SHEATHING TO EACH BEARING	3-8D BOX (2 1/2" X 0.113"); or 2-8D COMMON (2 1/2" X0.131") or 2-10D BOX (3" X 0.128"); or 2 STAPLES 1" CROWN, 16GA., 1 3/4" LONG	FACE NAIL	2x5 2x6	10 24	24 2 24 16 2	24	16 24 20 24	MIN. DESIGN REQUIREMEN	TS
20	1" X 8" AND WIDER SHEATHING TO EACH BEARING	3-8D BOX (2 1/2" X 0.113"); or 3-8D COMMON (2 1/2" X0.131") or 3-10D BOX (3" X 0.128"); or 3 STAPLES, 1" CROWN, 16GA., 1 3/4" LONG	FACE NAIL	a. LISTED ON NOT LE	ICH = 25.4mm, 1 FOOT = 304.8mm HEIGHTS ARE DISTANCES BETWEEN POINTS OF LATERAL SUPPO SS THAN ONE SIDE OR BRIDGING SHALL BE INSTALLED NOT GREA RTED HEIGHT ARE PERMITTED WHERE IN COMPLIANCE WITH EXCI	ATER THAN 4 FEET APART MEASURED VERTICALLY	FROM EITHER END	OF THE STUD. INCREASES IN	LVL 2600 1.8x10	F _v (psi) 285
		WIDER THAN 1" X 8" 4-8D BOX (2 1/2" X 0.113"); or 3-8D COMMON (2 1/2" X0.131") or 3-10D BOX (3" X 0.128"); or 4 STAPLES, 1" CROWN, 16GA., 1 3/4" LONG		PRACTICES b. SHALL c. A HABI ⁻	3. NOT BE USED IN EXTERIOR WALLS FABLE ATTIC ASSEMBLY SUPPORTED BY 2X4 STUDS IS LIMITED TO	O A ROOF SPAN OF 32 FEET. WHERE THE ROOF SPA			GLULAM 2400 1.8x10 PARALAM 2600 2.0x10	190 290
		FLOOR		INCREASE	D TO 2X6 OR THE STUDS SHALL BE DESIGNED IN ACCORDANCE W	VITH ACCEPTED ENGINEERING PRACTICE.				230
21	JOIST TO SILL, TOP PLATE OR GIRDER	4-8D BOX (2 1/2" X 0.113"); or 3-8D COMMON (2 1/2" X0.131") or 3-10D BOX (3" X 0.128"); or 3-3" X 0.131: NAILS	TOE NAIL		IMUM MECHANICAL EQUI				L / VAULTED CEILING	
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" X0.128") or 3-3" X 0.131" NAILS	4" OC TOE NAIL 6" OC TOE NAIL	VAL	UES BY COMPONENT, PE	R IRC2018 N1103.6.1	<u>l</u>		G AND INSULATION INSULATION REQUIRED, <u>SEE DETAIL 14/S-1.2</u>	
23	1" X 6" SUBFLOOR OR LESS TO EACH JOIST	3-8D BOX (2 1/2" X 0.113"); or 2-8D COMMON (2 1/2" X0.131") or 3-10D BOX (3" X 0.128"); or 2 STAPLES, 1" CROWN, 16GA., 1 3/4" LONG	FACE NAIL			M EFFICACY AIR FLOW RATE M/WATT MAXIMUM (CFM)	BETWE	THE CEILING IS APPLIED DIRECTLY T	TO THE BOTTOM OF THE RAFTERS, A MINIMUM 1" AIR SPAC THE SHEATHING FOR VENTILATION (R806.3) ARE THE MINIMUM REQUIRED FOR STRUCTURAL PURPOS	
24	2" SUBFLOOR TO JOIST OR GIRDER	3-16D BOX (3 1/2" X 0.135"); or 2-16D COMMON (3 1/2" X0.162")	BLIND AND FACE NAIL			FM/WATT ANY FM/WATT ANY	BUILDE IF FULL OR ADE	R TO VERIFY: RAFTER DEPTH IS NOT ADEQUATE F QUATE FURRING SHALL BE USED TO	OR MINIMUM INSULATION VALUE, RAFTER SIZES WILL NEE OBTAIN THE MINIMUM JOIST DEPTH FOR THE REQUIRED D IT SHALL BE VERIFIED THAT THE RIDGE BE A MINIMUM (ED TO BE INCREASED, INSULATION. IN
25	2" PLANKS (PLANK & BEAM-FLOOR AND ROOF)	3-16D BOX (3 1/2" X 0.135"); or 2-16D COMMON (3 1/2" X0.162")	AT EACH BEARING, FACE NAIL			FM/WATT ANY FM/WATT <90	LARGE	IN, IF THE RAFTER SIZE IS INCREASE R THAN THE RAFTERS BEING RECEIVI IMUM INSULATION VALUE	ED. (SEE CHART BELOW)	2x12
26	BAND OR RIM JOIST TO JOIST	3-16D COMMON (3 1/2" X 0.162"); or 4-10D BOX (3" X0.128") or 4-3" X 0.131" NAILS; or 4-3" X 14GA. STAPLES, 7/16" CROWN	END NAIL		BATHROOM UTILITY FAN 90 2.8 CF	FM/WATT ANY		IR SPACE (FIBERGLASS) R-13, 3		R-38, 10 1/4"
		20D COMMON (4" X 0.192"); or	NAIL EACH LAYER AS FOLLOWS: 32" OC AT TIP AND BOTTOM AND STAGGERED	MI	NIMUM INSULATION & FE	INSTRATION VALUES	S BY CC	DMPONENT. PE	R IRC2018 N1102.1.2	
27	BUILT-UP GIRDERS AND BEAMS, 2-INCH LUMBER LAYERS	10D BOX (3" X 0.128"); or 3" X 0.131" NAILS	AT TIP AND BOTTOM AND STAGGERED 24" OC FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES	VALUES	BELOW ARE PER 2018 IECC, ACTUAL VALUES MAY VARY BASED ON ALTERNATE ENERGY COMP	PLIANCE PATH CHOSEN (IN JURISDITIONS WHERE ALTERNATIVE PATHS ARE	AVAILABLE)			
		AND: 2-20D COMMON (4" X 0.192"); or 3-10D BOX (3" X 0.128; or 3-3" X 0.131" NAILS	FACE NAIL AT END AND AT EACH SPLICE	CLIMATE Z	ONE FENSTRATION SKYLIGHT GLAZED SHGC	D METAL INSULATED WOOD CEILING WOOD F			CRAWL SPACE DUCTWORK OVER DUCTWORK (AI	
28	LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	4-16D BOX (3 1/2" X 0.135"): or 3-26D 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	4 EXCEPT M	U-FACTOR U-FACTOR FENSTRATION DOOR U-			EWALL R-VALUE& DEPTH10 CONTINUOUS OR 13 CAVITYR-10, 2 FT.	WALL R-VALUEOUTSIDE R-VALUEOTHER) R-VALU10 CONTINUOUS OR 13 CAVITY86	JE
29	BRIDGING OR BLOCKING TO JOIST	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	2) RI	UILDING THERMAL ENVELOPE IS REQUIRED TO BE SEALED WITH ECESSED LIGHTING SHALL BE SEALED TO PREVENT LEAKAGE BE L DUCTS, AIR HANDLERS, FILTER BOXES, AND BUILDING CAVITIES	TWEEN THE CONDITIONED SPACE AND UNCONDITIONED SPACE AND UNCOND UNCOND UNCOND SPACE AND UNCOND UNCOND SPACE AND UNCOND UNCOND U	ONED SPACE		· · · · · · · · · · · · · · · · · · ·	
L		1		- /			-			

a. ALL NAILS ARE SMOOTH-COMMON, BOX OR DEFORMED SHANKS EXCEPT WHERE OTHERWISE STATED. NAILS USED FOR FRAMING AND SHEATHING CONNECTIONS SHALL HAVE MINIMUM AVERAGE BENDING YIELD STRENGTHS AS SHOWN: 80 KSI FOR SHANK DIAMETER OF 0.192 INCH (20D COMMON), NAILS FOR SHANK DIAMETERS LARGER THANK 0.142 INCH BUT NOT LARGER THANK 0.177 INCH, AND 100 KSI FOR SHANK DIAMETER OF 0.142 INCH OR LESS. b. STAPLES ARE 16 GAGE WIRE AND HAVE A MINIMUM 7/16 - INCH ON DIAMETER CROWN WIDTH.

b. STAFLES ARE 10 GAGE WIRE AND TAVE A MINIMUM // 10 - INCITION DAME TER CROWN WITHET RECOVERY WHETE COMMENTER OF COMMENTE

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 Generating of intermediate supports shall be speed in other for an intermediate best intermediate best intermediate supports shall be speed in other for an intermediate support shall be speed in other for an intermediate best intermediate supports shall be speed in other for an intermediate best intermediate supports shall be speed in other for an intermediate best intermediate supports shall be speed in other for an intermediate best intermediate best intermediate best intermediate supports shall be speed in other for an intermediate best intermediat 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 CEILING JOIST TO TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE. THE TOE NAIL ON THE OPPOSITE SIDE OF THE RAFTER SHALL NOT BE REQUIRED.

CONTINUED TABLE R602.3(1) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

BUILDER'S PLANS: THE TERM "BUILDER'S PLANS" REFERS TO A CERTAIN LEVEL OF DEVELOPMENT OF THE DRAWINGS. AS THE NAME IMPLIES, THESE PLANS REQUIRE THAT THE CONTRACTOR POSSESSES COMPETENCE IN RESIDENTIAL CONSTRUCTION AND A THOROUGH UNDERSTANDING OF THE INTERNATIONAL RESIDENTIAL CODE (IRC). THE CONTRACTOR WARRANTS TO HD ENGINEERING & DESIGN THAT HE POSSESSES THE PARTICULAR COMPETENCE AND SKILL IN CONSTRUCTION NECESSARY TO BUILD THIS PROJECT WITHOUT FULL ENGINEERING AND DESIGN SERVICES, AND FOR THAT REASON THE CONTRACTOR OR HOME OWNER HAS RESTRICTED THE SCOPE OF PROFESSIONAL SERVICES. THE CONSTRUCTION DOCUMENTS PROVIDED BY THE LIMITED SERVICES SHALL BE TERMED "BUILDER'S PLANS" IN RECOGNITION OF THE CONTRACTOR'S SOPHISTICATION. ALTHOUGH HD ENGINEERING & DESIGN HAVE PERFORMED THEIR SERVICES WITH DUE CARE AND DILIGENCE, WE CANNOT GUARANTEE PERFECTION. ANY AMBIGUITY OR DISCREPANCY DISCOVERED BY THE USE OF THESE PLANS SHALL BE REPORTED IMMEDIATELY TO HD ENGINEERING. CONSTRUCTION MAY REQUIRE THAT THE CONTRACTOR ADAPT THE "BUILDER'S PLANS" TO THE FIELD CONDITIONS ENCOUNTERED AND MAKE LOGICAL ADJUSTMENTS IN FIT, FORM, DIMENSION AND QUANTITY. CHANGES MADE FROM THE PLANS WITHOUT THE CONSENT OF HD ENGINEERING & DESIGN ARE UNAUTHORIZED. IT IS ALSO UNDERSTOOD THAT THE CONTRACTOR WILL BE RESPONSIBLE FOR MEETING ALL APPLICABLE BUILDING CODES INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL, AND PLUMBING CODE REQUIREMENTS (WHICH IS EXCLUDED FROM THESE PLANS). IN THE EVENT ADDITIONAL DETAIL OR GUIDANCE IS NEEDED BY THE CONTRACTOR OR HOMEOWNER FOR CONSTRUCTION OF ANY ASPECT OF THE PROJECT, HD ENGINEERING & DESIGN OR A QUALIFIED ENGINEER SHALL IMMEDIATELY BE RETAINED. FAILURE TO NOTIFY US OF THESE NEEDS OR OF CHANGES TO THE PLANS SHALL RELIEVE HD ENGINEERING & DESIGN OF ALL RESPONSIBILITIES OF THE CONSEQUENCES.

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

	•			
PAD SIZE	REINFORCEMENT	COL. MIN.	COL. TYPE	MAX. LOAD
24x24x12	(4) #4 BARS E/W	3"	SCH40	6K
30x30x12	(5) #4 BARS E/W	3"	SCH40	9.4K
36x36x12	(6) #4 BARS E/W	3"	SCH40	13.5K
42x42x14	(7) #4 BARS E/W	3 1/2"	SCH40	18.4K
48x48x16	(8) #4 BARS E/W	3 1/2"	SCH40	24.0K
54x54x16	(9) #4 BARS E/W	3 1/2"	SCH40	30.4K
60x60x18	(10) #4 BARS E/W	3 1/2"	SCH40	37.5K

POST CAP WITH HE BEAM. FOR A M FLANGE OF THE " X 2" BOLTS HER, AND A NUT IN STEEL BEAM IN ULD NEED TO BE

	F _b (psi)	E (psi)	F _∨ (psi)
LVL	2600	1.8x10	285
GLULAM	2400	1.8x10	190
PARALAM	2600	2.0x10	290

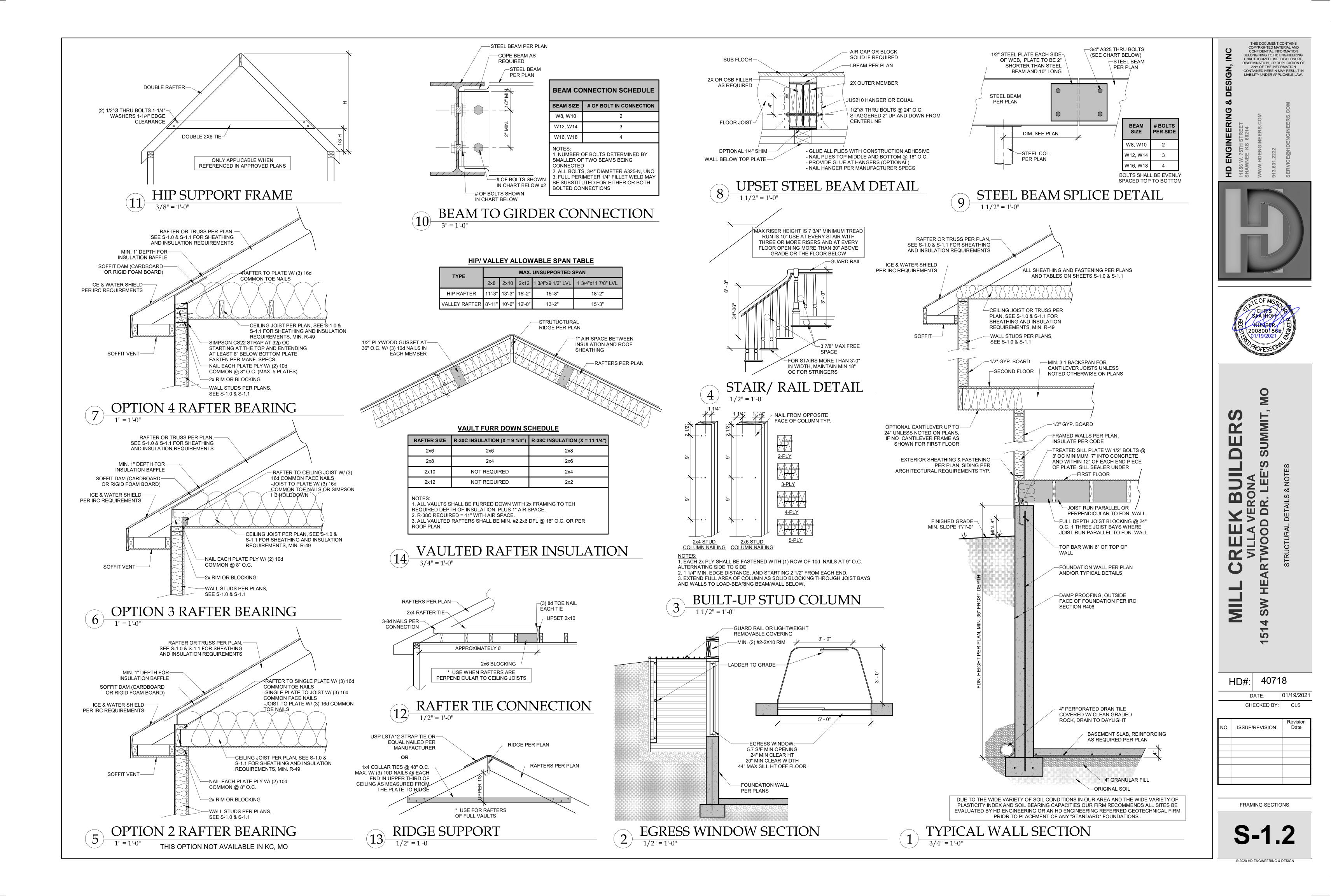


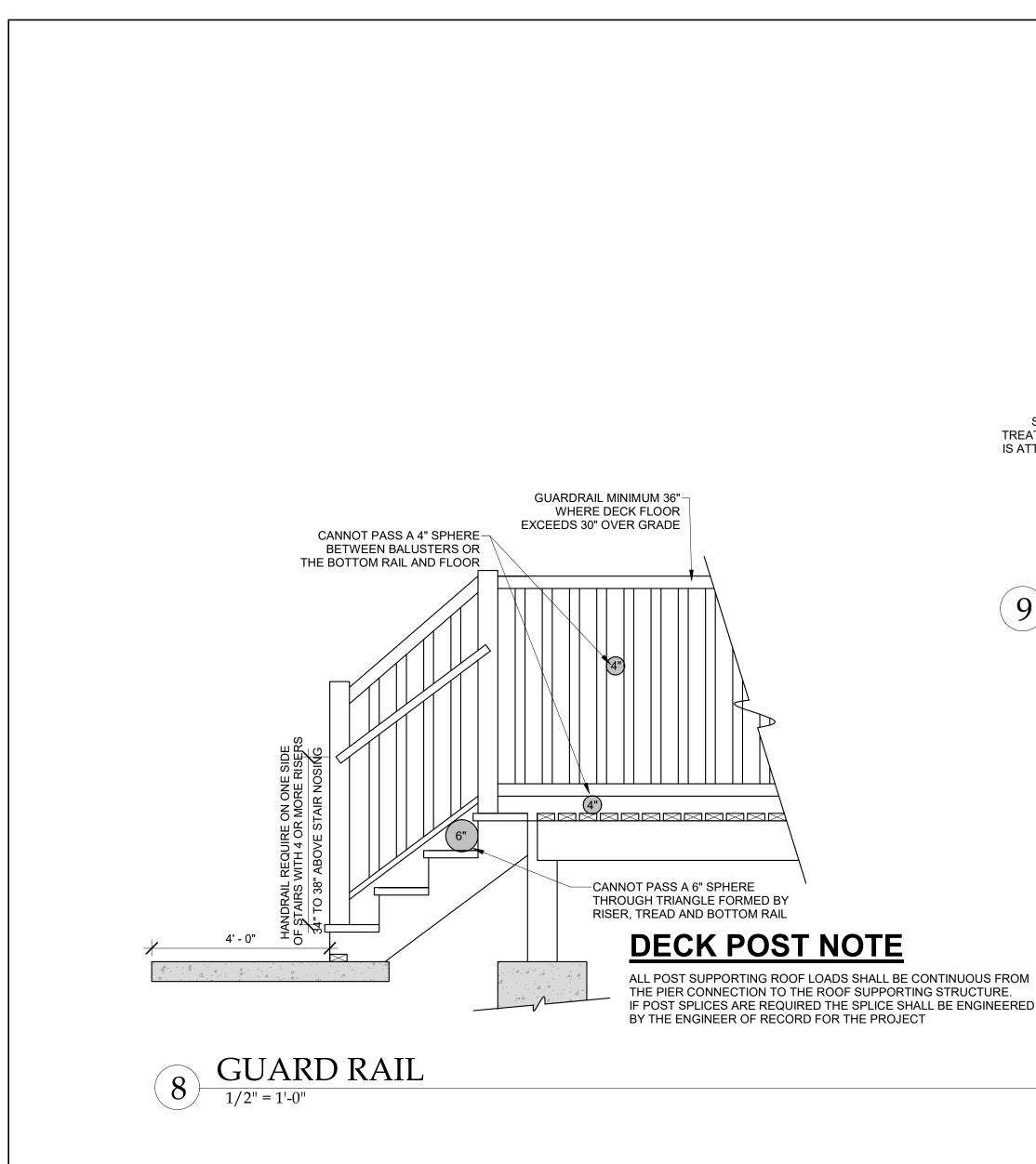


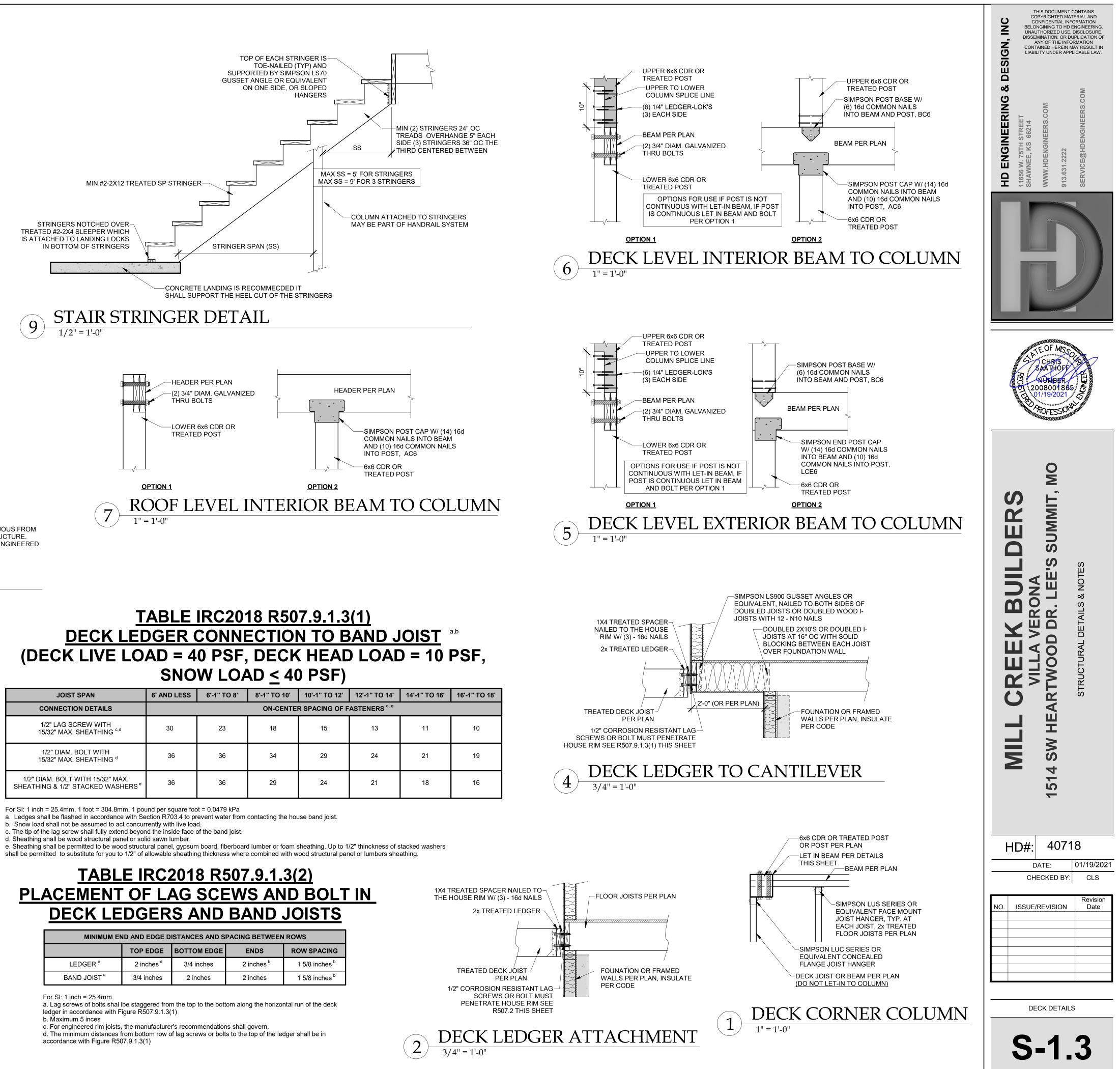
MO () SUMMIT R ш S S **BUIL** RONA R. LEE'S ER DR CREEK VILLA VIARTWOOD I ШШ SW 4 S 40718 HD#: 01/19/2021 DATE: CHECKED BY: CLS Revision **ISSUE/REVISION** Date

GENERAL NOTES

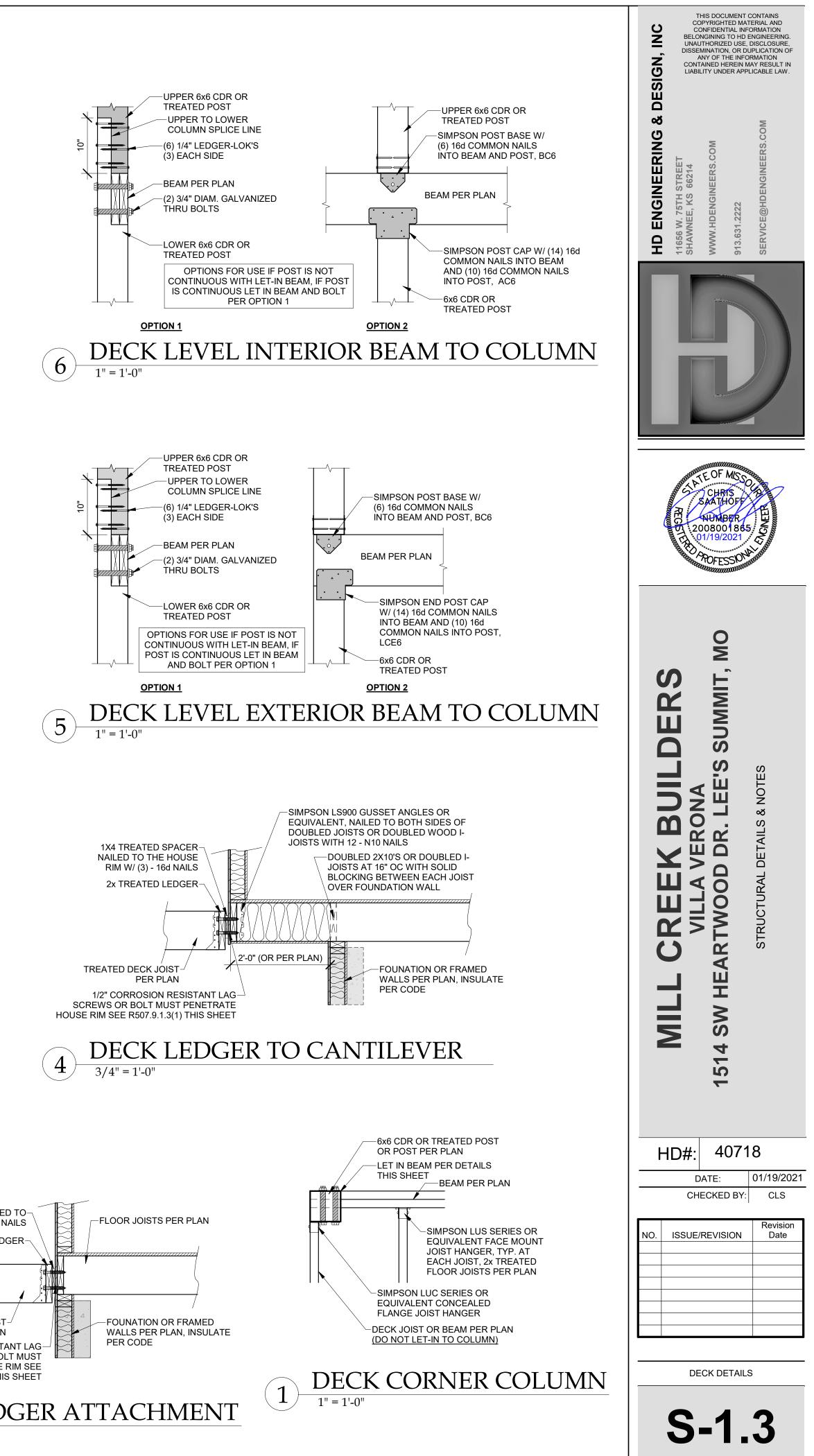




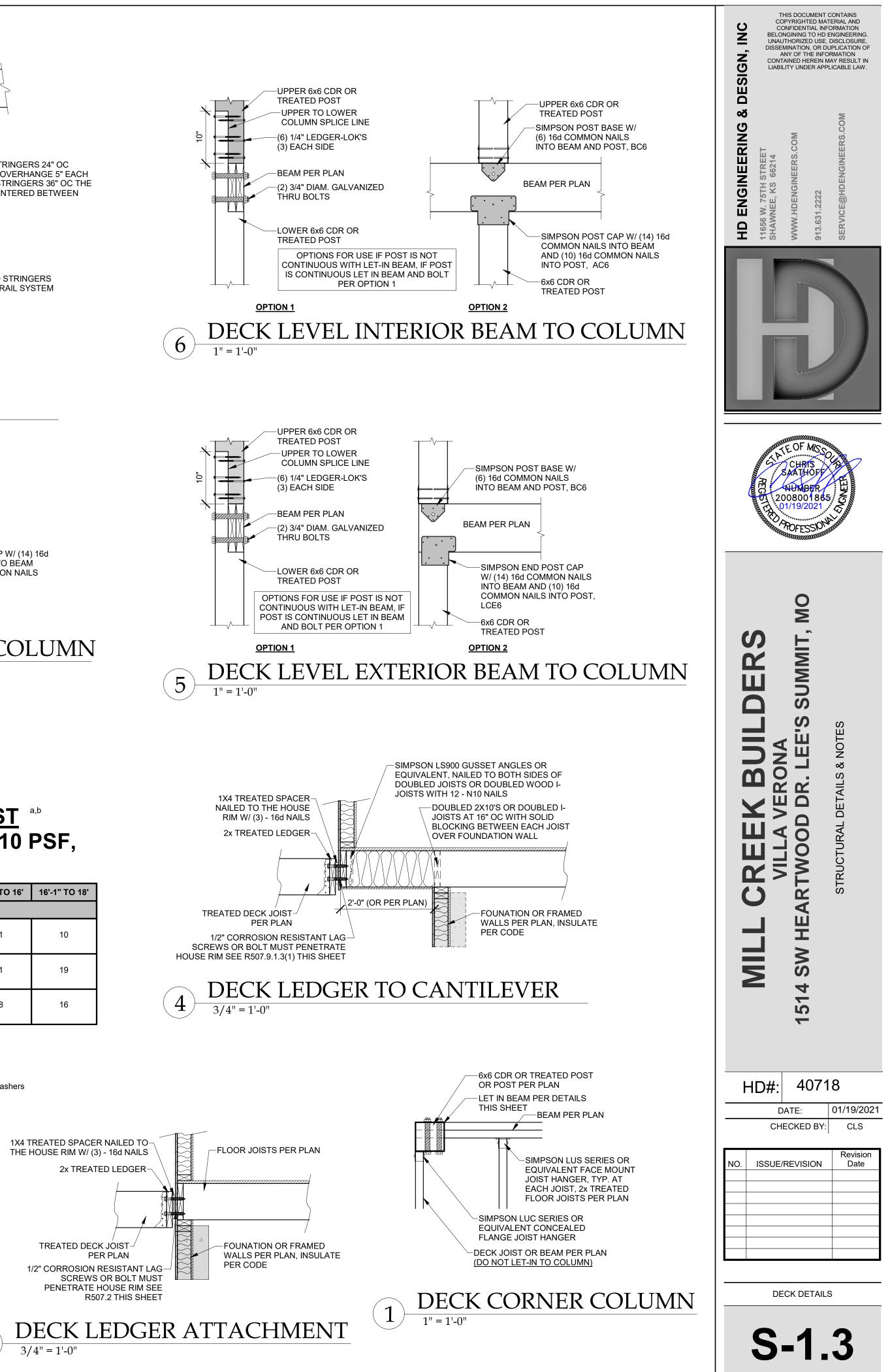




JOIST SPAN	6' AND LESS	6'-1" TO 8'	8'-1" TO 10'	10'-1" TO 12'	12'-1" TO 14'	14'-1" TO 16'	16'-1" TO 18'				
CONNECTION DETAILS	ON-CENTER SPACING OF FASTENERS ^{d, e}										
1/2" LAG SCREW WITH 15/32" MAX. SHEATHING ^{c,d}	30	23	18	15	13	11	10				
1/2" DIAM. BOLT WITH 15/32" MAX. SHEATHING ^d	36	36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



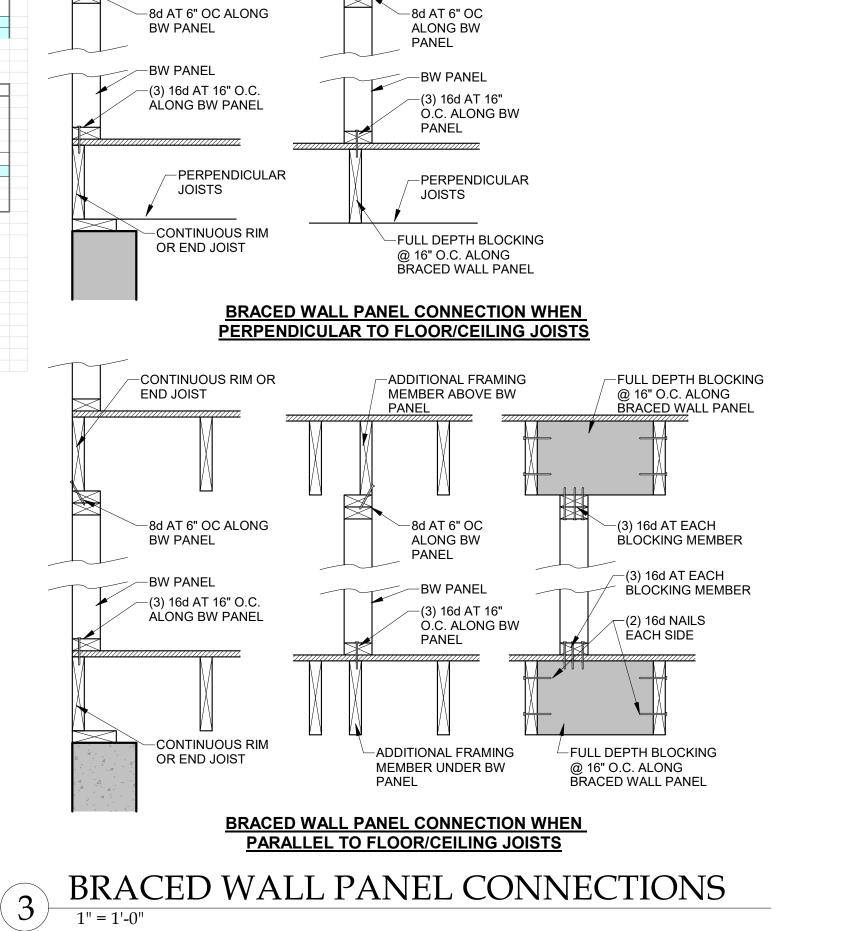
MINIMUM END AND EDGE DISTANCES AND SPACING BETWEEN ROWS									
	TOP EDGE	BOTTOM EDGE	ENDS	ROW SPACING					
LEDGER ^a	2 inches ^d	3/4 inches	2 inches ^b	1 5/8 inches ^b					
BAND JOIST °	3/4 inches	2 inches	2 inches	1 5/8 inches ^b					



			RES	IDENTIAL SEISMIC	& WIND ANALYSIS			
DETERMINE WEIGHT	OF HOUSE:						INPUT CALCULATED VALUE	
LOCATION ROOF					DEAD LOAD (psf)	AREA (ft ²) 2680	WEIGHT (lbs.) 26800	
CEILING FIRST FLOOR					10 10	2542 1688	25420 16880	
FIRST FLOOR EXT. W	VALL DL			WALL LENGTH (ft) 216		WALL UNIT WT. (psf) 9	WEIGHT (lbs) 17496	
FIRST FLOOR INT. PA	ARTITION WALL DL				DEAD LOAD (psf) 6	AREA (ft2) 1688	WEIGHT (lbs) 10128	
			DESIGN PER 115 MPH	3-SECOND GUST, EXPOS	URE C AND MEAN ROOF HEIGHT <= 3			
	AREA	-TO-BACK LOAD			SIDE-TO-S AREA	LOAD		
SLOPED ROOF VERT. ROOF	264 0	1135 0	CUMULATIVE	SLOPED ROOF VERT. ROOF	243 0	1070 0	CUMULATIVE	
1ST	570	7810	9074 PRESSURE (PSF	1ST F) - PER ASCE CH. 6	510	7111	8311	
	SLOPED ROOF WALL/VERT. ROOF	ZONE B ZONE A		5.9 17.4	ZONE C ZONE D	11.6 3.4	2a (FIG. 28.6-1, ASCE7) 10.2	
		etermine tributary wind are	14 a and enter here. If no v	walkout, enter 0 for area.				
_{1z10} =0.00256K _z K _{zt} K _d V ²	(ASCE7-10 Velocity Pr	essure)	$q_{z10}ASD}=0.6q_{z10}$ (Desig	n Velocity Pressure for ASE	D analysis under ASCE7-10 and IRC/IBC	2018)		
1ST FLOOR TRIBUTA							60968 60968	
S _S (SITE GROUND MC F _a (from ASCE7 Table	DTION - %g - FROM AS	SCE7 SEISMIC MAP)					12.0% 1.6	
$S_{DS} (= 2/3 * S_{S} * F_{a})$							0.128	
R (from ASCE7 Table ´	12.2-1)						6.5	
LOCATION				SEISMIC		m ASCE7 (Eq. 12.8-1):	V (= 1.2 * S _{DS} * W	/ R) (lbs.)
1ST FLOOR BASEMENT						, ,	1441	
	g Location	Min. Sheathi	na Schedule	C.	stening Schedule	٨١١٥٠٠٠	ble Shear (#/LF)	Code Reference
Sheathing		7/16" APA Rated Plywoo	-	8d Common Nails w/ 1-3/8'	" penetration @ 6" O.C. Edges, 12" O.C.	Allowa		Code Reference
Exterior <u>(C</u>	Option #4)	sheathing, or 3/8" shipla tighter na	p panel sheathing with		plywood/OSB or shiplap panel sheathing 12" O.C. Field for 3/8" shiplap panel sheathing		220	AF&PA SDPWS Table 4.3A
7/16" APA Rated Plywood/OS Exterior (Option #5) Sheathing, or 3/8" shiplap pa tighter nail spa			p panel sheathing with	Field for 7/16" APA-rated	"penetration @ 4" O.C. Edges, 12" O.C. plywood/OSB or shiplap panel sheathing 12" O.C. Field for 3/8" shiplap panel sheathing			AF&PA SDPWS Table 4.3A
Exterior (<i>Option #6</i>) Exterior (<i>Option #6</i>)		panel sheathing with double studs at each		" penetration @ 3" O.C. Edges, 12" O.C. Field		410	AF&PA SDPWS Table 4.3A	
Inte	erior	1/2" Gyps	um Board	No. 6- 1 ¹ / ₄ " Type W or S S	Screws @ 8" O.C. Edges, 12" O.C. Field		60	per IBC, Table 2306.4.4
Inte	erior	16 Ga. Simpson/USP T (or e			& (1) 8d @ intermediate studs (per fications - see detail on sheet S3)		325	
EXTERIOR SHEATHIN		FLOOR	4		WIDTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.)	57 51		
					BACK WALL OF GARAGE (FT.) GAR. WALL: 1=F-B, 2=S-S	19 2		
			EXTER		LENGTHS (ft.) & RESISTANCES			
		SE	ISMIC			WIND	1	1
	FRONT-TO-BACK	RESISTANCE (lbs.)	SIDE-TO-SIDE	RESISTANCE (lbs.)	FRONT-TO-BACK	RESISTANCE (lbs.)	SIDE-TO-SIDE	RESISTANCE (lbs
1ST FLOOR	77	21560	44	12320	77	30184	44	17248
		ADDITIONAL RESIS SEISMIC	WIND		Anchor Bolt Spacing diameter (in.)	0.5	16d Nail Spacing req'd at b 1st Floor F-B	
					Shear value (per NDS)	944	1st Floor S-S	
		0 0	0		Spacing F-B (inches)	203.7		
		0			Spacing F-B (inches) spacing S-S (inches)	203.7 248.6		
		0						
		0	0	RED IN ADDITION TO RES		248.6 ALLS**		
		0	0	RED IN ADDITION TO RES INTERIOR X-BRACES (325#/BRACE)	spacing S-S (inches)	ALLS** BURIED CONCRETE FOUNDATION WALL MIN. LATERAL RESISTANCE /FT	RESISTANCE PROVIDED BY ADDITIONAL METHODS (POUNDS)	OK?
1ST FLOOR SIDE-TO-	-SIDE -O-BACK	0 0 ADDITIONAL RESISTANCE REQUIRED (POUNDS) 0	0 RESISTANCE REQUI PORTAL FRAMES OR PERF. SHEAR WALL	INTERIOR X-BRACES	SISTANCE PROVIDED BY EXTERIOR W	ALLS** BURIED CONCRETE FOUNDATION WALL MIN. LATERAL	ADDITIONAL METHODS (POUNDS)	YES
1ST FLOOR SIDE-TO- 1ST FLOOR FRONT-T 1ST FLOOR SIDE-TO-	O-BACK -SIDE	0 0 ADDITIONAL RESISTANCE REQUIRED (POUNDS) 0 0	0 RESISTANCE REQUI PORTAL FRAMES OR PERF. SHEAR WALL RESISTANCE	INTERIOR X-BRACES (325#/BRACE)	SISTANCE PROVIDED BY EXTERIOR W	ALLS** BURIED CONCRETE FOUNDATION WALL MIN. LATERAL RESISTANCE /FT	ADDITIONAL METHODS (POUNDS)	
1ST FLOOR SIDE-TO- 1ST FLOOR FRONT-T 1ST FLOOR SIDE-TO- **NOTES: 1) SEE ATT. 2) SEE SHEET S1 FOF	-SIDE -O-BACK -SIDE ACHED CALCULATION R INTERIOR STEEL X-	0 0 0 ADDITIONAL RESISTANCE REQUIRED (POUNDS) 0 0 0 IS FOR PORTAL FRAME BRACE INSTALLATION, 3	0 RESISTANCE REQUI PORTAL FRAMES OR PERF. SHEAR WALL RESISTANCE OR PERFORATED SHE I) INTERIOR WALLS SH	INTERIOR X-BRACES (325#/BRACE) AR WALL RESISTANCE C/ EATHED WITH OSB SHALI	SISTANCE PROVIDED BY EXTERIOR W INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.)	ALLS** BURIED CONCRETE FOUNDATION WALL MIN. LATERAL RESISTANCE /FT (1500#/FT)	ADDITIONAL METHODS (POUNDS)	YES
1ST FLOOR SIDE-TO- 1ST FLOOR FRONT-T 1ST FLOOR SIDE-TO- **NOTES: 1) SEE ATT. 2) SEE SHEET S1 FOF	O-BACK -SIDE ACHED CALCULATION R INTERIOR STEEL X- OR OSB ON SAME FL	0 0 0 ADDITIONAL RESISTANCE REQUIRED (POUNDS) 0 0 0 0 S FOR PORTAL FRAME BRACE INSTALLATION, 3 DOR (SEE TABLE ABOVE	0 RESISTANCE REQUI PORTAL FRAMES OR PERF. SHEAR WALL RESISTANCE OR PERFORATED SHE I) INTERIOR WALLS SH	INTERIOR X-BRACES (325#/BRACE) AR WALL RESISTANCE C/ EATHED WITH OSB SHALI	SISTANCE PROVIDED BY EXTERIOR W INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.) APACITIES (IF APPLICABLE), L BE ATTACHED WITH SAME STAPLE/I IT SECTIONS OF 2'-8" OR LONGER	ALLS** BURIED CONCRETE FOUNDATION WALL MIN. LATERAL RESISTANCE /FT (1500#/FT)	ADDITIONAL METHODS (POUNDS)	YES
1ST FLOOR SIDE-TO- 1ST FLOOR FRONT-T 1ST FLOOR SIDE-TO- **NOTES: 1) SEE ATT. 2) SEE SHEET S1 FOF PATTERN AS EXTERI	-SIDE -O-BACK -SIDE ACHED CALCULATION R INTERIOR STEEL X-	0 0 0 ADDITIONAL RESISTANCE REQUIRED (POUNDS) 0 0 S FOR PORTAL FRAME BRACE INSTALLATION, 3 OOR (SEE TABLE ABOVE DEGREES 26.6	0 RESISTANCE REQUI PORTAL FRAMES OR PERF. SHEAR WALL RESISTANCE OR PERFORATED SHE) INTERIOR WALLS SHE) AND ARE ONLY APP	INTERIOR X-BRACES (325#/BRACE) AR WALL RESISTANCE C/ EATHED WITH OSB SHALI LICABLE FOR FULL-HEIGH	SPACING S-S (inches) SISTANCE PROVIDED BY EXTERIOR W INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.) APACITIES (IF APPLICABLE), L BE ATTACHED WITH SAME STAPLE/I IT SECTIONS OF 2'-8" OR LONGER T ANALYSIS	ALLS** BURIED CONCRETE FOUNDATION WALL MIN. LATERAL RESISTANCE /FT (1500#/FT)	ADDITIONAL METHODS (POUNDS)	YES
1ST FLOOR SIDE-TO- 1ST FLOOR FRONT-T 1ST FLOOR SIDE-TO- **NOTES: 1) SEE ATT. 2) SEE SHEET S1 FOP PATTERN AS EXTERN ROOF PITCH (MAX)	-SIDE O-BACK -SIDE ACHED CALCULATION R INTERIOR STEEL X- OR OSB ON SAME FL X/12	0 0 0 ADDITIONAL RESISTANCE REQUIRED (POUNDS) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 RESISTANCE REQUI PORTAL FRAMES OR PERF. SHEAR WALL RESISTANCE OR PERFORATED SHE OR PERFORATED SHE INTERIOR WALLS SHE ONLY APP PITCH OF 6 OR LESS: LINEAL FT. OF OH	INTERIOR X-BRACES (325#/BRACE) AR WALL RESISTANCE C/ EATHED WITH OSB SHALI LICABLE FOR FULL-HEIGH WIND UPLIFT EOH -13.3, E -7.2, G -5.2 UPLIFT PER FT* (LBS)	SPACING S-S (inches) SISTANCE PROVIDED BY EXTERIOR W INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.) APACITIES (IF APPLICABLE), L BE ATTACHED WITH SAME STAPLE/I IT SECTIONS OF 2'-8" OR LONGER T ANALYSIS	ALLS** BURIED CONCRETE FOUNDATION WALL MIN. LATERAL RESISTANCE /FT (1500#/FT)	ADDITIONAL METHODS (POUNDS)	YES
1ST FLOOR SIDE-TO- 1ST FLOOR FRONT-T 1ST FLOOR SIDE-TO- **NOTES: 1) SEE ATT. 2) SEE SHEET S1 FOF PATTERN AS EXTERIO ROOF PITCH (MAX) OVERHANG	-SIDE -SIDE -SIDE ACHED CALCULATION R INTERIOR STEEL X- OR OSB ON SAME FL X/12 6 LENGTH (FT.) 1 TOTAL AREA (FT ²)	0 0 0 ADDITIONAL RESISTANCE REQUIRED (POUNDS) 0 0 0 S FOR PORTAL FRAME BRACE INSTALLATION, 3 OOR (SEE TABLE ABOVE DEGREES 26.6 ASCE 7 PRESSURE (PSF) 16.56 ZONE E AREA (FT ²)	0 RESISTANCE REQUI PORTAL FRAMES OR PERF. SHEAR WALL RESISTANCE OR PERFORATED SHE i) INTERIOR WALLS SHE i) INTERIOR WALLS SHE INTERIOR WALLS SHE INTERIOR WALLS SHE INTERIOR WALLS SHE INTERIOR WALLS SHE INTERIOR WALLS SHE ZONE G AREA (FT ²)	INTERIOR X-BRACES (325#/BRACE) AR WALL RESISTANCE C/ EATHED WITH OSB SHALI LICABLE FOR FULL-HEIGH WIND UPLIFT EOH -13.3, E -7.2, G -5.2 UPLIFT PER FT* (LBS) 16.56 PRESSURE ZN. E (PSF)	SPACING S-S (inches) DISTANCE PROVIDED BY EXTERIOR W INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.) APACITIES (IF APPLICABLE), L BE ATTACHED WITH SAME STAPLE// IT SECTIONS OF 2'-8" OR LONGER T ANALYSIS PRESSURE ZN. G (PSF)	248.6 ALLS** BURIED CONCRETE FOUNDATION WALL MIN. LATERAL RESISTANCE /FT (1500#/FT)	ADDITIONAL METHODS (POUNDS) 0 0 0 FORCE PER LINEAL FT @ 1	YES
1ST FLOOR SIDE-TO- 1ST FLOOR FRONT-T 1ST FLOOR SIDE-TO- 1ST FLOOR SIDE-TO- 1ST FLOOR SIDE-TO- 1ST FLOOR SIDE-TO- 2) SEE SHEET S1 FOF PATTERN AS EXTERIO ROOF PITCH (MAX) OVERHANG MAIN ROOF**	O-BACK -SIDE -SIDE ACHED CALCULATION R INTERIOR STEEL X- OR OSB ON SAME FL - X/12 6 LENGTH (FT.) 1 TOTAL AREA (FT ²) 2907	0 0 0 ADDITIONAL RESISTANCE REQUIRED (POUNDS) 0 0 S FOR PORTAL FRAME BRACE INSTALLATION, 3 OOR (SEE TABLE ABOVE DEGREES 26.6 ASCE 7 PRESSURE (PSF) 16.56 ZONE E AREA (FT ²) -375.36	0 RESISTANCE REQUI PORTAL FRAMES OR PERF. SHEAR WALL RESISTANCE OR PERFORATED SHE) INTERIOR WALLS SHE) INTERIOR G AREA (FT ²)) 3282.36	INTERIOR X-BRACES (325#/BRACE) AR WALL RESISTANCE C/ EATHED WITH OSB SHALI LICABLE FOR FULL-HEIGH WIND UPLIFT EOH -13.3, E -7.2, G -5.2 UPLIFT PER FT* (LBS) 16.56 PRESSURE ZN. E (PSF) 15.12	Spacing S-S (inches) DISTANCE PROVIDED BY EXTERIOR W INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.) APACITIES (IF APPLICABLE), L BE ATTACHED WITH SAME STAPLE/I IT SECTIONS OF 2'-8" OR LONGER T ANALYSIS PRESSURE ZN. G (PSF) 10.5	248.6 ALLS** BURIED CONCRETE FOUNDATION WALL MIN. LATERAL RESISTANCE /FT (1500#/FT) VAILING	ADDITIONAL METHODS (POUNDS) 0	YES
1ST FLOOR SIDE-TO- 1ST FLOOR FRONT-T 1ST FLOOR SIDE-TO- **NOTES: 1) SEE ATT. 2) SEE SHEET S1 FOF PATTERN AS EXTERIO ROOF PITCH (MAX) OVERHANG MAIN ROOF** *ALONG PERIMETER	-SIDE O-BACK -SIDE ACHED CALCULATION R INTERIOR STEEL X- OR OSB ON SAME FL X/12 6 LENGTH (FT.) 1 TOTAL AREA (FT ²) 2907	0 0 0 ADDITIONAL RESISTANCE REQUIRED (POUNDS) 0 0 0 S FOR PORTAL FRAME BRACE INSTALLATION, 3 OOR (SEE TABLE ABOVE DEGREES 26.6 ASCE 7 PRESSURE (PSF) 16.56 ZONE E AREA (FT ²)	0 RESISTANCE REQUI PORTAL FRAMES OR PERF. SHEAR WALL RESISTANCE OR PERFORATED SHE) INTERIOR WALLS SH E) AND ARE ONLY APP PITCH OF 6 OR LESS: LINEAL FT. OF OH 218 ZONE G AREA (FT ²) 3282.36 FOOT ALONG EXTERIOR (PA	INTERIOR X-BRACES (325#/BRACE) AR WALL RESISTANCE C/ EATHED WITH OSB SHALI LICABLE FOR FULL-HEIGH WIND UPLIFT EOH -13.3, E -7.2, G -5.2 UPLIFT PER FT* (LBS) 16.56 PRESSURE ZN. E (PSF) 15.12 OUNDS)	SPACING S-S (inches) DISTANCE PROVIDED BY EXTERIOR W INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.) APACITIES (IF APPLICABLE), L BE ATTACHED WITH SAME STAPLE// IT SECTIONS OF 2'-8" OR LONGER T ANALYSIS PRESSURE ZN. G (PSF)	248.6 ALLS** BURIED CONCRETE FOUNDATION WALL MIN. LATERAL RESISTANCE /FT (1500#/FT)	ADDITIONAL METHODS (POUNDS) 0 0 0 FORCE PER LINEAL FT @ 1	YES
1ST FLOOR SIDE-TO- **NOTES: 1) SEE ATT. 2) SEE SHEET S1 FOF PATTERN AS EXTERIO ROOF PITCH (MAX) OVERHANG MAIN ROOF** *ALONG PERIMETER **INSIDE EXTERIOR V NOTE FOR CONSTRU THE CONTINUOUS ST	-SIDE -SIDE -O-BACK -SIDE ACHED CALCULATION R INTERIOR STEEL X- OR OSB ON SAME FL - X/12 6 LENGTH (FT.) 1 TOTAL AREA (FT ²) 2907 VALLS JCTION: RUCTURAL PANEL SH	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 RESISTANCE REQUI PORTAL FRAMES OR PERF. SHEAR WALL RESISTANCE OR PERFORATED SHE INTERIOR WALLS SHE INTERIOR WALLS SHE AND ARE ONLY APP PITCH OF 6 OR LESS: LINEAL FT. OF OH 218 ZONE G AREA (FT ²) 3282.36 FOOT ALONG EXTERIOR (P WEIGHT & (3) 10d TOENAIL HOD REQUIRES USE C	INTERIOR X-BRACES (325#/BRACE) AR WALL RESISTANCE C/ EATHED WITH OSB SHALI LICABLE FOR FULL-HEIGH WIND UPLIFT EOH -13.3, E -7.2, G -5.2 UPLIFT PER FT* (LBS) 16.56 PRESSURE ZN. E (PSF) 15.12 OUNDS) S	Spacing S-S (inches) SISTANCE PROVIDED BY EXTERIOR W INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.) APACITIES (IF APPLICABLE), L BE ATTACHED WITH SAME STAPLE/I IT SECTIONS OF 2'-8" OR LONGER F ANALYSIS PRESSURE ZN. G (PSF) 10.5 149.8	248.6 ALLS** BURIED CONCRETE FOUNDATION WALL MIN. LATERAL RESISTANCE /FT (1500#/FT) VAILING	ADDITIONAL METHODS (POUNDS) 0 0 FORCE PER LINEAL FT @ 1 133.3	YES YES
1ST FLOOR SIDE-TO- 1ST FLOOR FRONT-T 1ST FLOOR SIDE-TO- **NOTES: 1) SEE ATT. 2) SEE SHEET S1 FOF PATTERN AS EXTERIO ROOF PITCH (MAX) OVERHANG MAIN ROOF** *ALONG PERIMETER **INSIDE EXTERIOR V NOTE FOR CONSTRUENT THE CONTINUOUS ST	-SIDE -SIDE -O-BACK -SIDE ACHED CALCULATION R INTERIOR STEEL X- OR OSB ON SAME FL - X/12 6 LENGTH (FT.) 1 TOTAL AREA (FT ²) 2907 VALLS JCTION: RUCTURAL PANEL SH	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 RESISTANCE REQUI PORTAL FRAMES OR PERF. SHEAR WALL RESISTANCE OR PERFORATED SHE INTERIOR WALLS SHE INTERIOR WALLS SHE AND ARE ONLY APP PITCH OF 6 OR LESS: LINEAL FT. OF OH 218 ZONE G AREA (FT ²) 3282.36 FOOT ALONG EXTERIOR (P WEIGHT & (3) 10d TOENAIL HOD REQUIRES USE C	INTERIOR X-BRACES (325#/BRACE) AR WALL RESISTANCE C/ EATHED WITH OSB SHALI LICABLE FOR FULL-HEIGH WIND UPLIFT EOH -13.3, E -7.2, G -5.2 UPLIFT PER FT* (LBS) 16.56 PRESSURE ZN. E (PSF) 15.12 OUNDS) S	SPACING S-S (inches) SISTANCE PROVIDED BY EXTERIOR W INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.) APACITIES (IF APPLICABLE), L BE ATTACHED WITH SAME STAPLE// IT SECTIONS OF 2'-8" OR LONGER F ANALYSIS PRESSURE ZN. G (PSF) 10.5 149.8 251.6	248.6 ALLS** BURIED CONCRETE FOUNDATION WALL MIN. LATERAL RESISTANCE /FT (1500#/FT) VAILING	ADDITIONAL METHODS (POUNDS) 0 0 FORCE PER LINEAL FT @ 1 133.3	YES YES

NOTE: SOIL SITE CLASS ASSUMED TO BE CLASS D. IF SITE CONDITIONS ARE DETERMINED TO BE CLASS E OR F, CONSULT ENGINEER BEFORE PROCEEDING

WITH CONSTRUCTION



-PERPENDICULAR

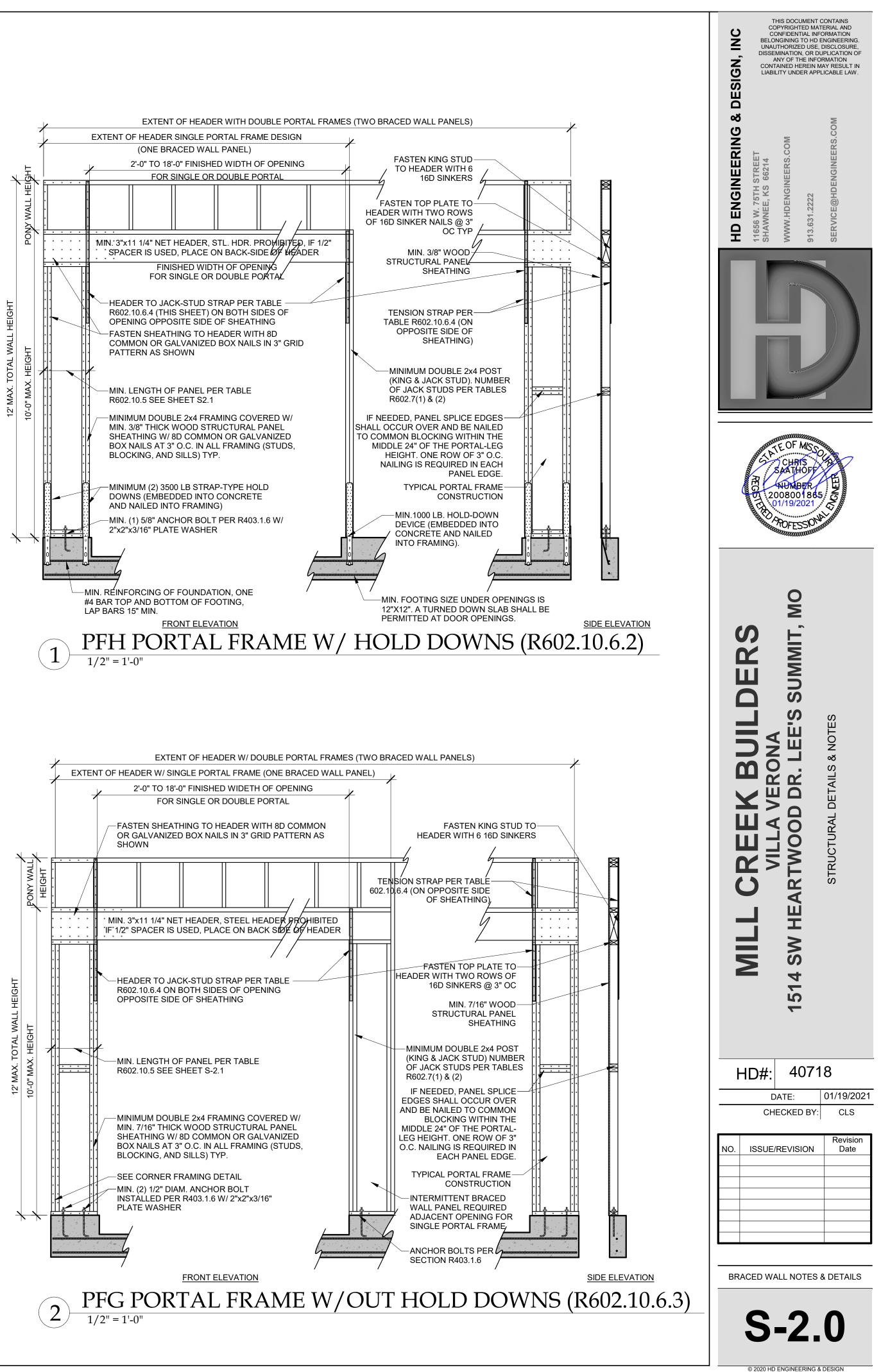
-FULL DEPTH BLOCKING

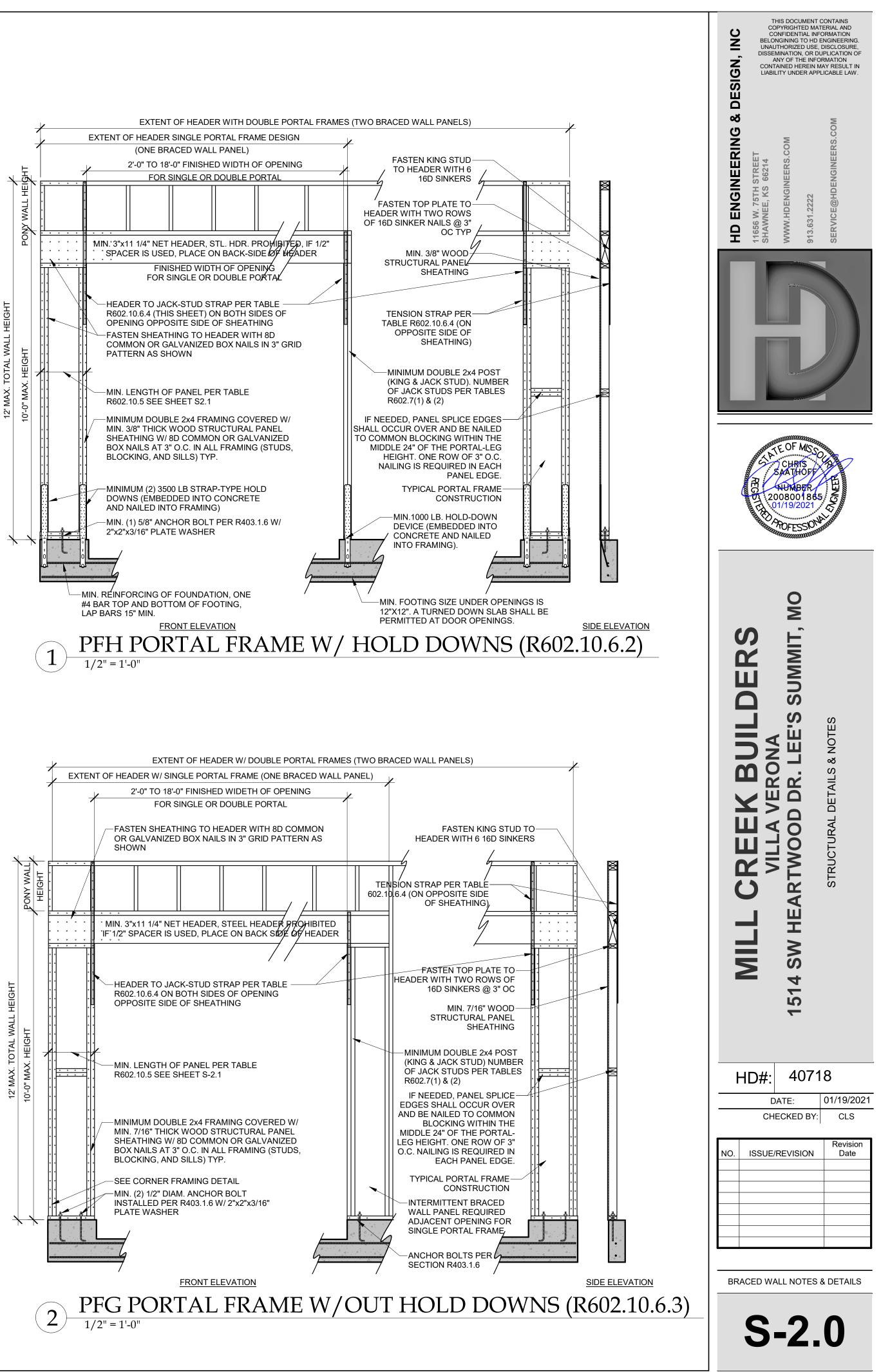
@ 16" O.C. ALONG BRACED WALL PANEL

JOISTS

-CONTINUOUS RIM OR

END JOIST





OPTION 1 LIB BRACING	(2) 16D NAIL PLATE FA	I / USP TYI QUIVALEN _S @ EACI CE NAILEI			DRT END STUD	HEIGHT LENGTH (X) LENGTI 8'-0" 4'-7" 8'-0 9'-0" 5'-2" 9'-0 10'-0" 5'-9" 10'-0 11'-0" NP 12'-0" NP
3/8" = 1'-0"	FOR IRC	CODE PR	ESCRIPTI	VE METHO	D	
TABLE R602.10.5	<u>MIN</u> WAL				STH (OF BRACED
				(INCHES)	a	
METHOD (SEE TABLE R602.10.4)	8 FEET	W/ 9 FEET	ALL HEIGH	HT 11 FEET	12 EEET	CONTRIBUTING LENGTH (INCHES)
DWB,WSP,SFB,PBS,PCP,HPS,BV-WSP	48	48	48	53	58	ACTUAL ^b
GB	48	48	48	53	58	DOUBLE SIDED = ACTUAL SINGLE SIDED=.5xACTUAL
LIB SDC A, B, AND C ULTIMATE DESIGN	55	62	69	NP	NP	ACTUAL ^b
BW WIND SPEED<140 SDC D ₀ ,D ₁ ,D ₂ ULTIMATE DESIGN	28 32	32 32	34 34	38 NP	42 NP	48
SUPPORTING ROOF ONLY	16	16	16	NOTE C	NOTE C	48
FH SPTNG. ONE STORY & ROOF	24	24	24	NOTE C	NOTE C	48
PFG	24	27	30	NOTE D	NOTE D	1.5 x ACTUAL ^b
CS-G	24	27	30	33	36	
CS-PF	16	18	20	NOTE E	NOTE E	ACTUAL ^b
ADJACENT CLEAR OPENING HEIGHT (INCHES)						
≤64	24	27	30	33	36	
68	26	27	30	33	36	
72	27	27	30	33	36	
76	30	29	30	33	36	
80	32 35	30 32	30 32	33 33	36 36	
88	38	35	32	33	36	
92	43	37	35	35	36	
WSP, 96	48	41	38	36	36	ACTUAL ^b
-SFB 100	-	44	40	38	38	
104	-	49	43	40	39	
108	-	54	46	43	41	
112	-	-	50 55	45 48	43 45	
118	-	-	60	40 52	45	
124	-	-	-	56	51	
128	-	-	-	61	54	
	Т	-	-	66	58	
132	-	 		l		
132 136	-	-	-	-	62	
	-	-	-	-	62 66 72	

RATING OF 24/0 FOR 16" O.C. STUD SPACING WITH 6d NAILS COMMON NAILS @ 6" O.C. EDGES AND 12" O.C. FIELD OR SHEATHING THICKNESS NOT LESS THANK 7/16" WITH MINIMUM SPAN RATING OF 24/16 FOR 24" O.C. SPACING WITH 8d COMMON NAILS @ 6" O.C. EDGES AND 12" O.C. IN FIELD (NOTE: FRAMING MEMBERS 16" O.C. MAX, UNBLOCKED, AND W/ SHEATHING APPLIED DIRECTLY TO FRAMING MEMBERS).

INTERIOR BRACED WALLS (SEE ON THIS SHEET)

GB METHOD: 1/2" MINIMUM GYPSUM BOARD OVER STUDS SPACED @ 24" MAXIMUM FASTENED W/ #6- 1 1/4" TYPE "W" OR "S" DRYWALL SCREWS @ 7" O.C. EDGES AND FIELD (MIN. 4'-0" SECTION FOR BOTH SIDES) OR

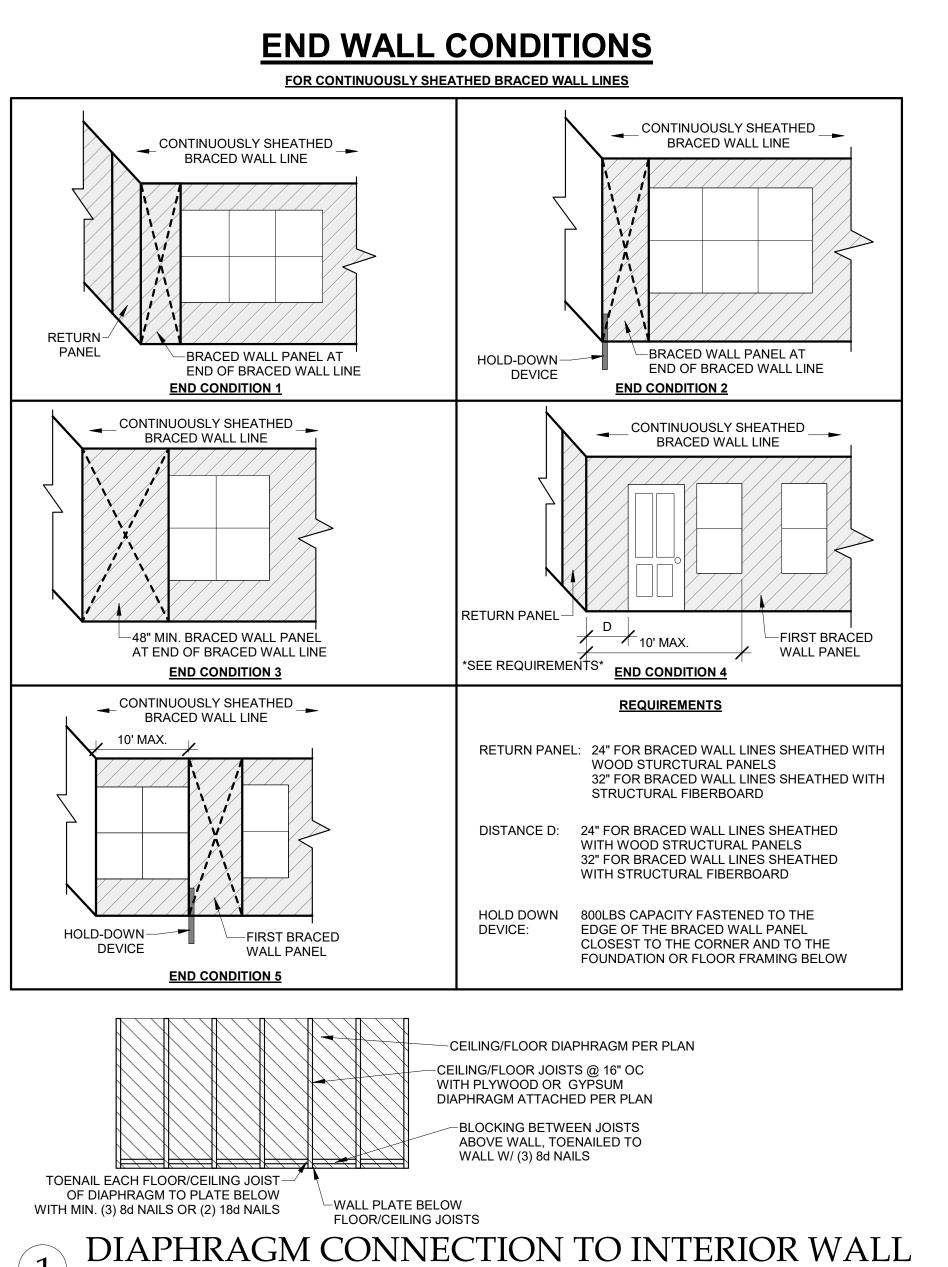
. <u>LIB METHOD:</u> 1X4 WOOD FASTENED W/ (3) 8d COMMON NAILS OR SIMPSON / USP 16 GA. TYPE WB (OR EQUIVALENT) STL. X-BRACE(S) @ 45° TO 60° ANGLES, MAXIMUM 16" O.C. STUDS FASTENED PER MANUF. SPECS.

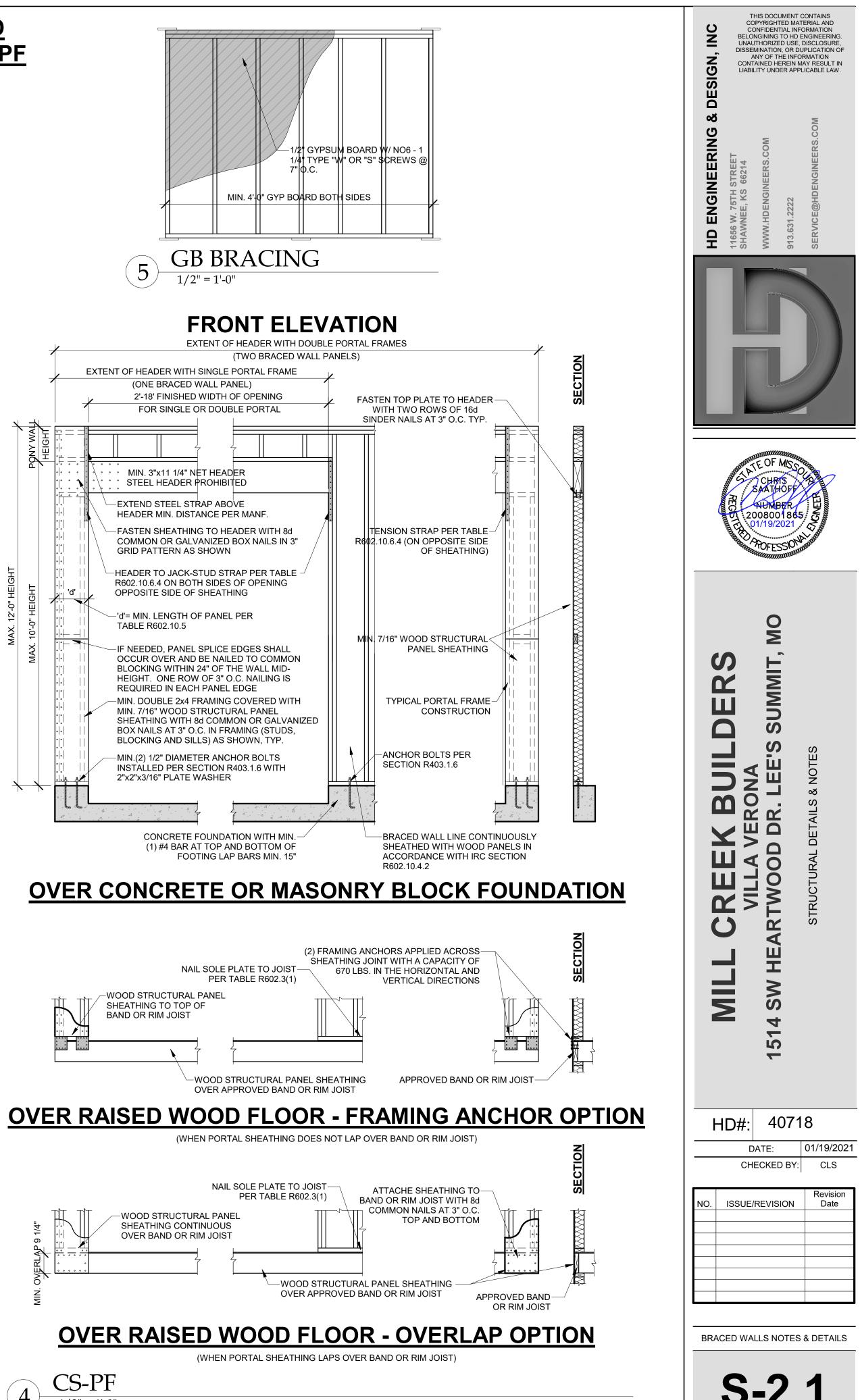


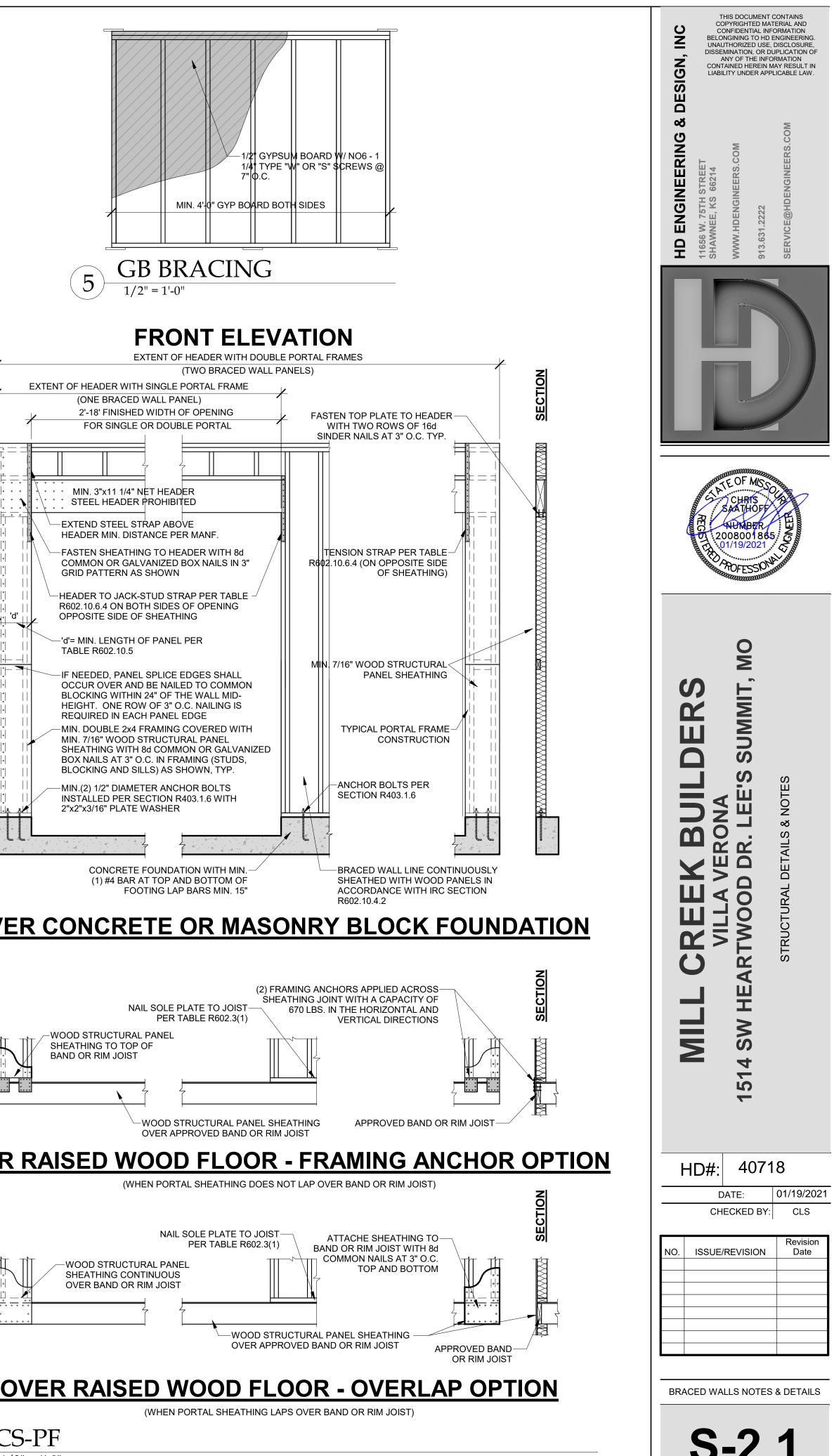
		MAX. TOTAL WALL HEIGHT (FEET)		TENSION STRAP CAPACITY REQUIRED (POUNDS) ^a				
MINIMUM WALL STUD FRAMING	MAX. PONY		MAX. OPENING WIDTH (FEET)	ULTIMATE DESIGN W	/IND SPEED V (MPH)			
NOMINAL SIZE & GRADE	WALL HEIGHT (FEET)			115	115			
				EXPOSURE B	EXPOSURE C			
	0	10	18	1,000	1,000			
			9	1,000	1,000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

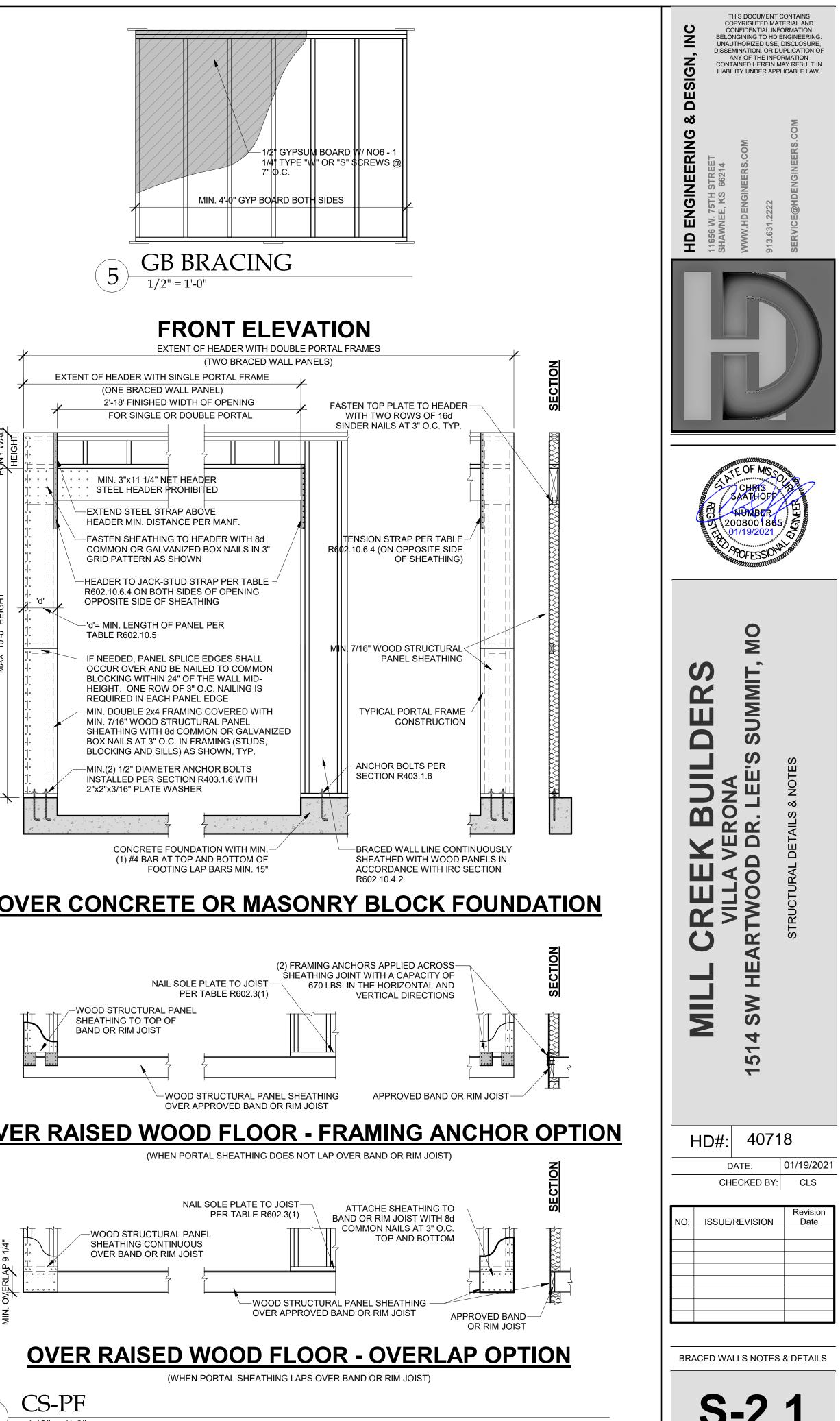
a. DR = DESIGN REQUIRED b. STRAP SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

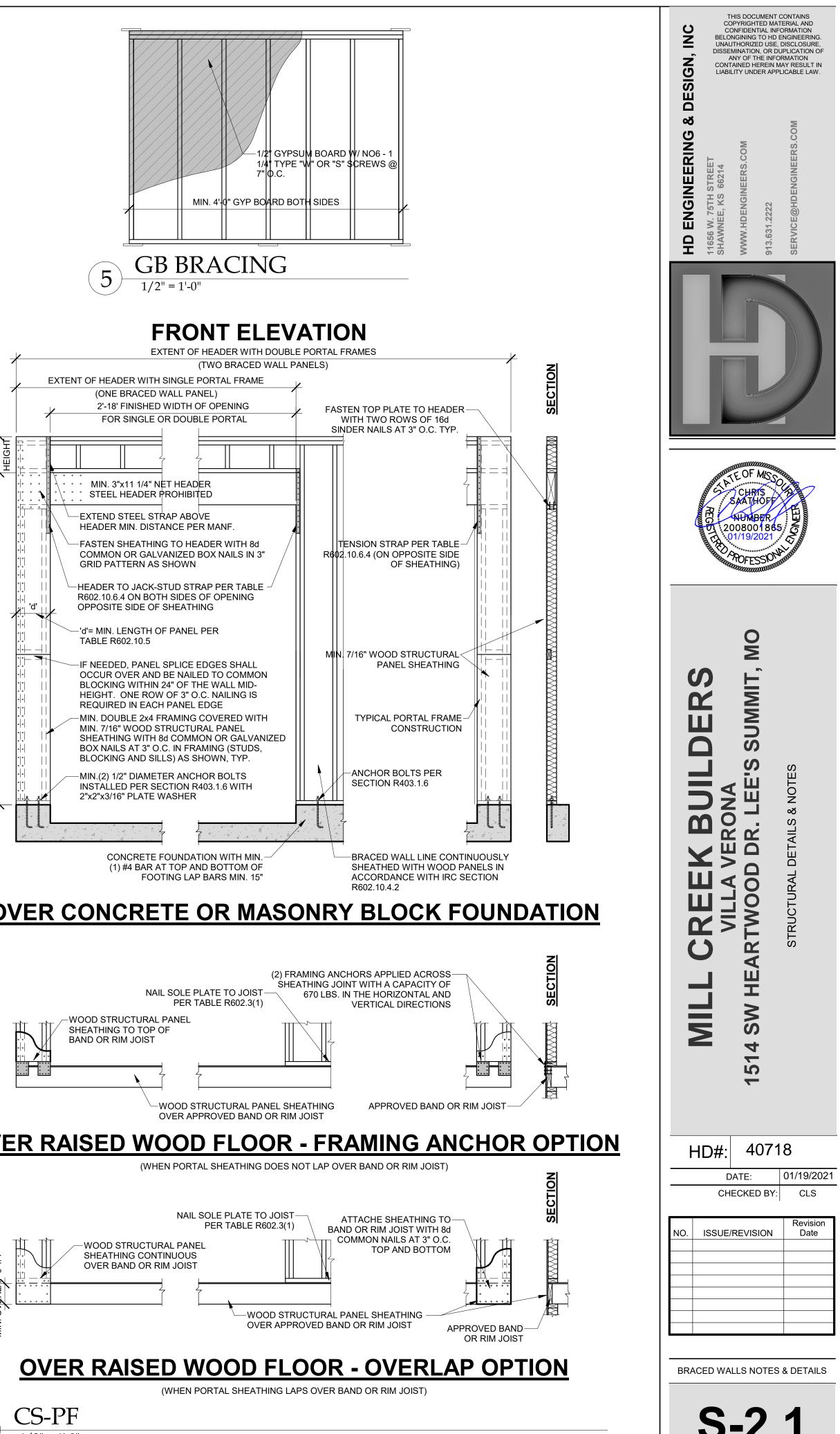
3/8" = 1'-0"

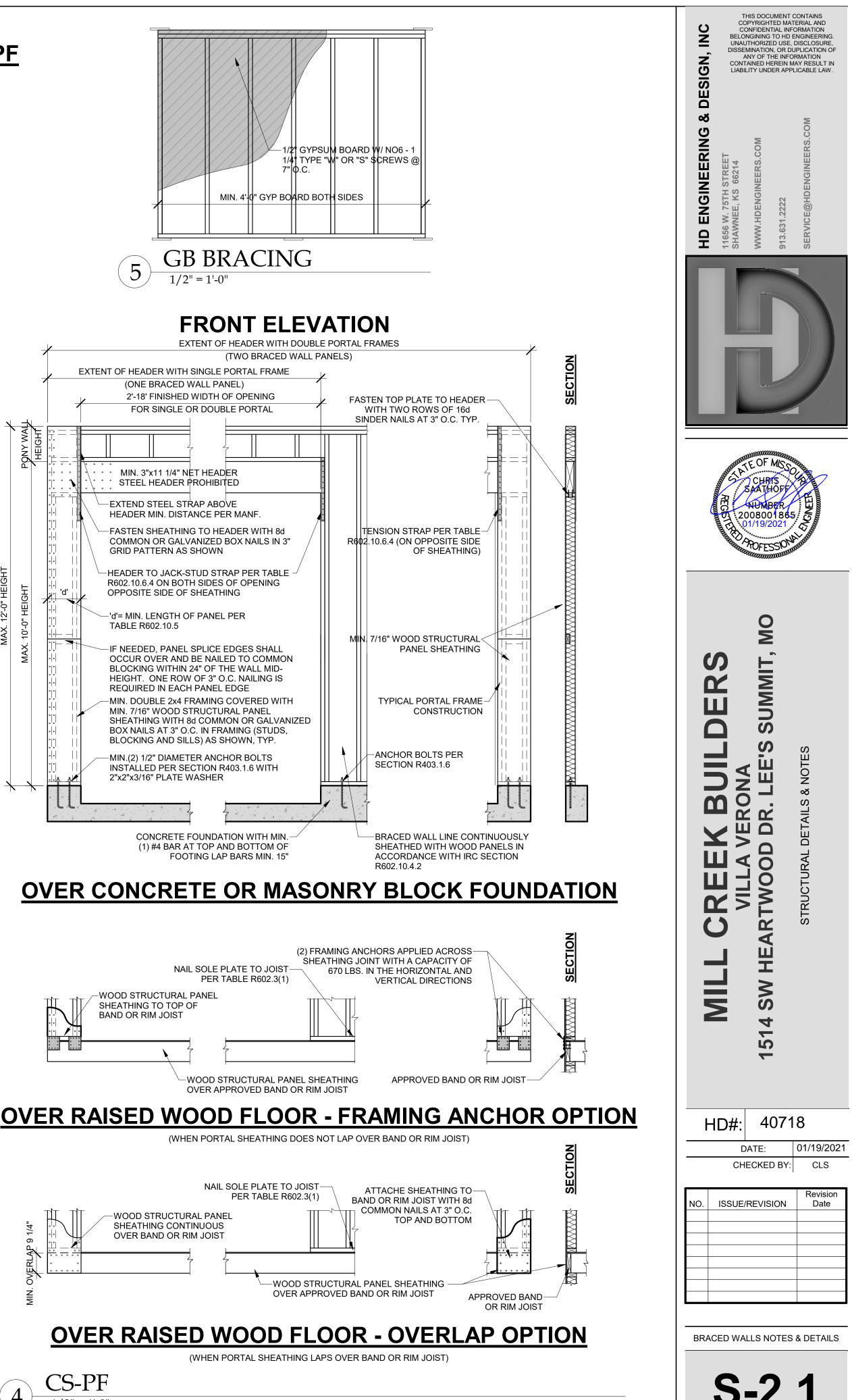


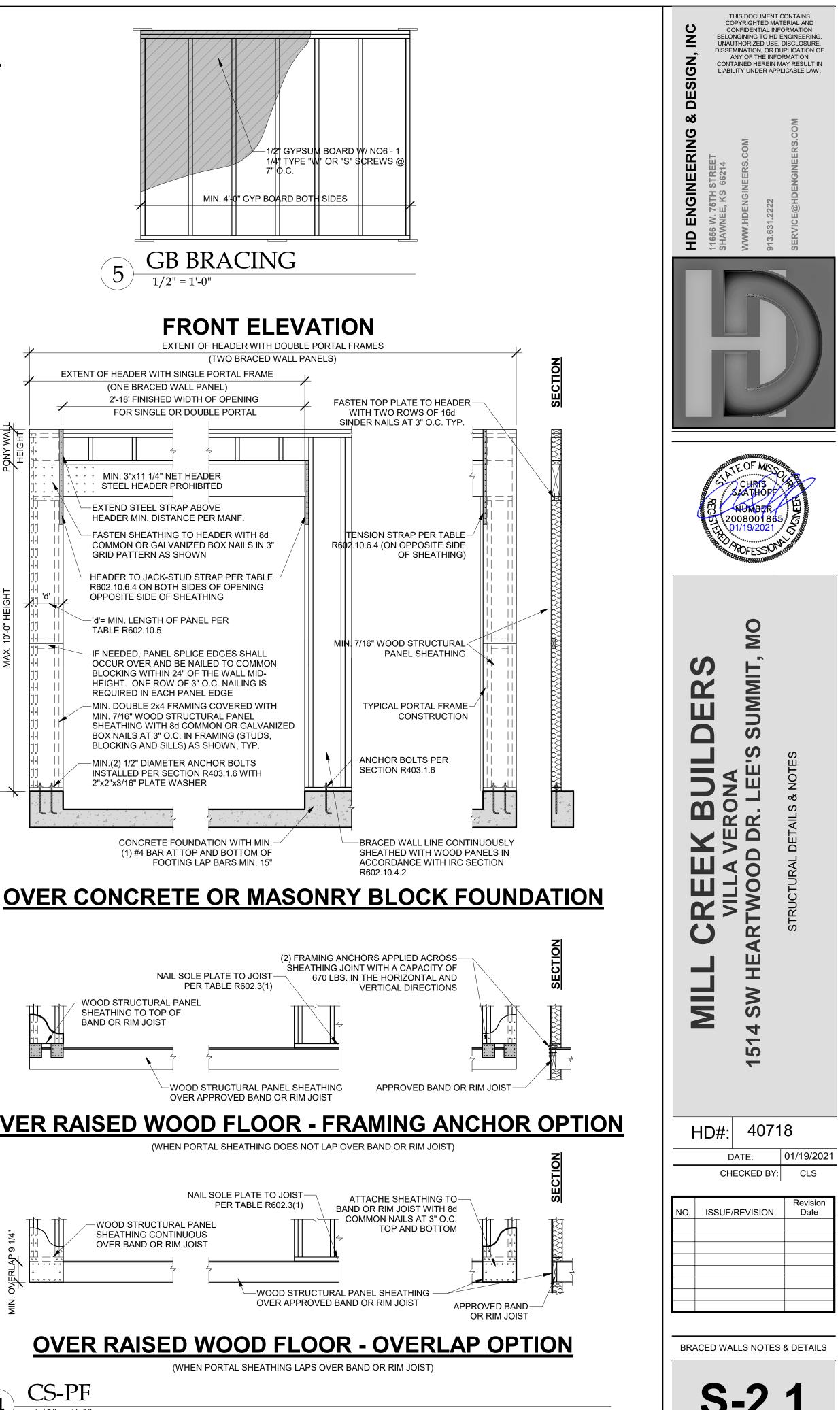


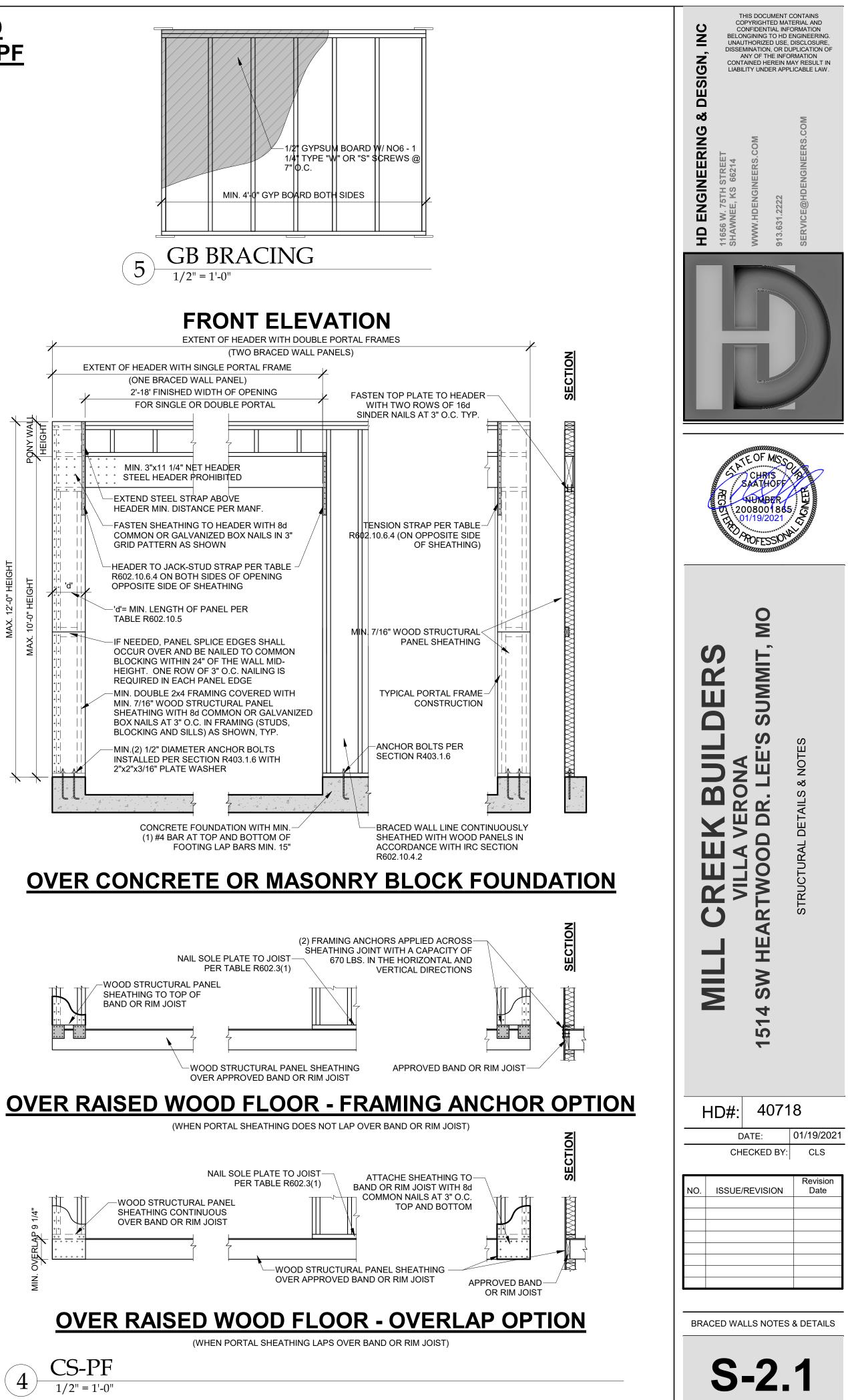


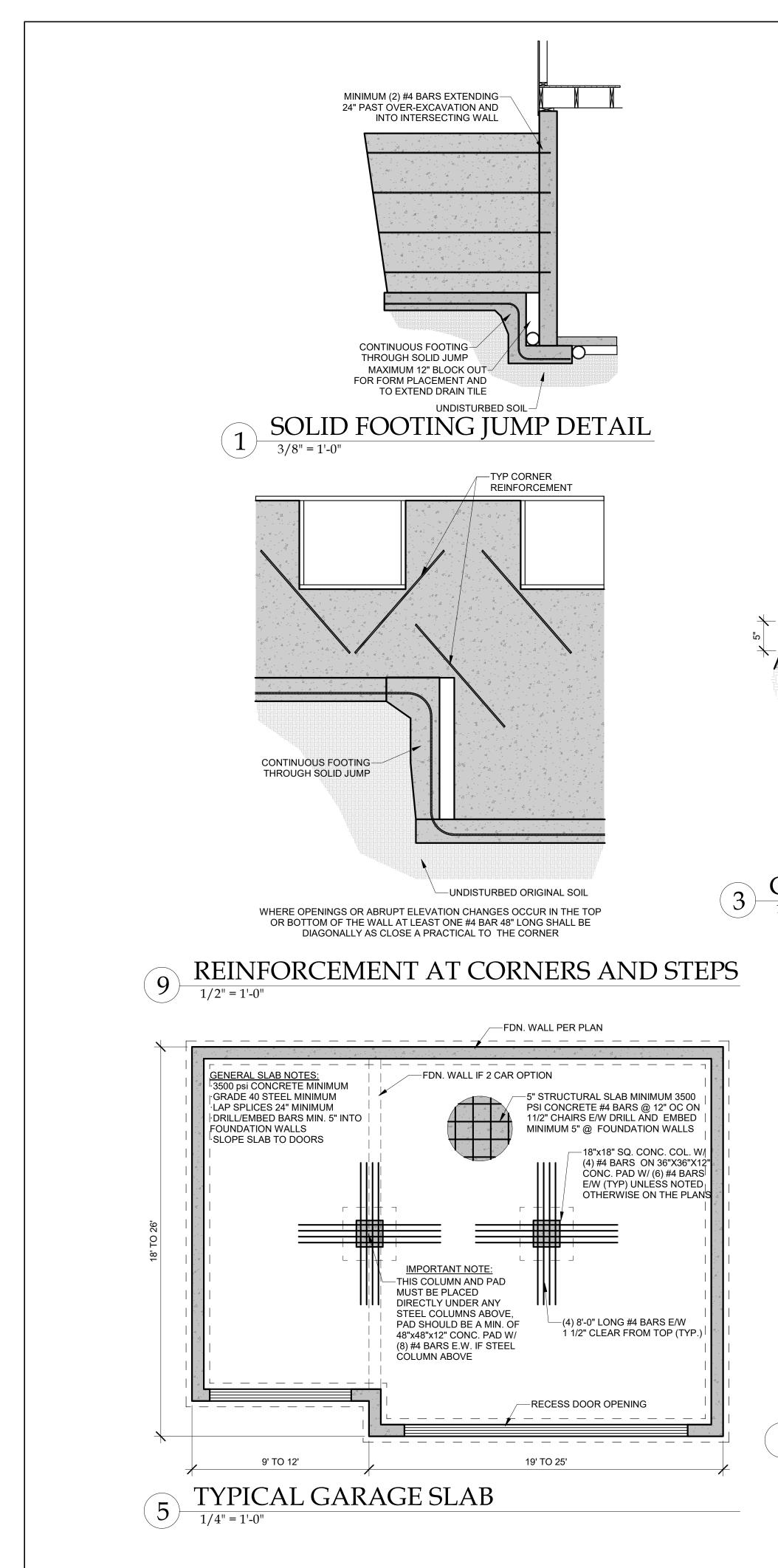


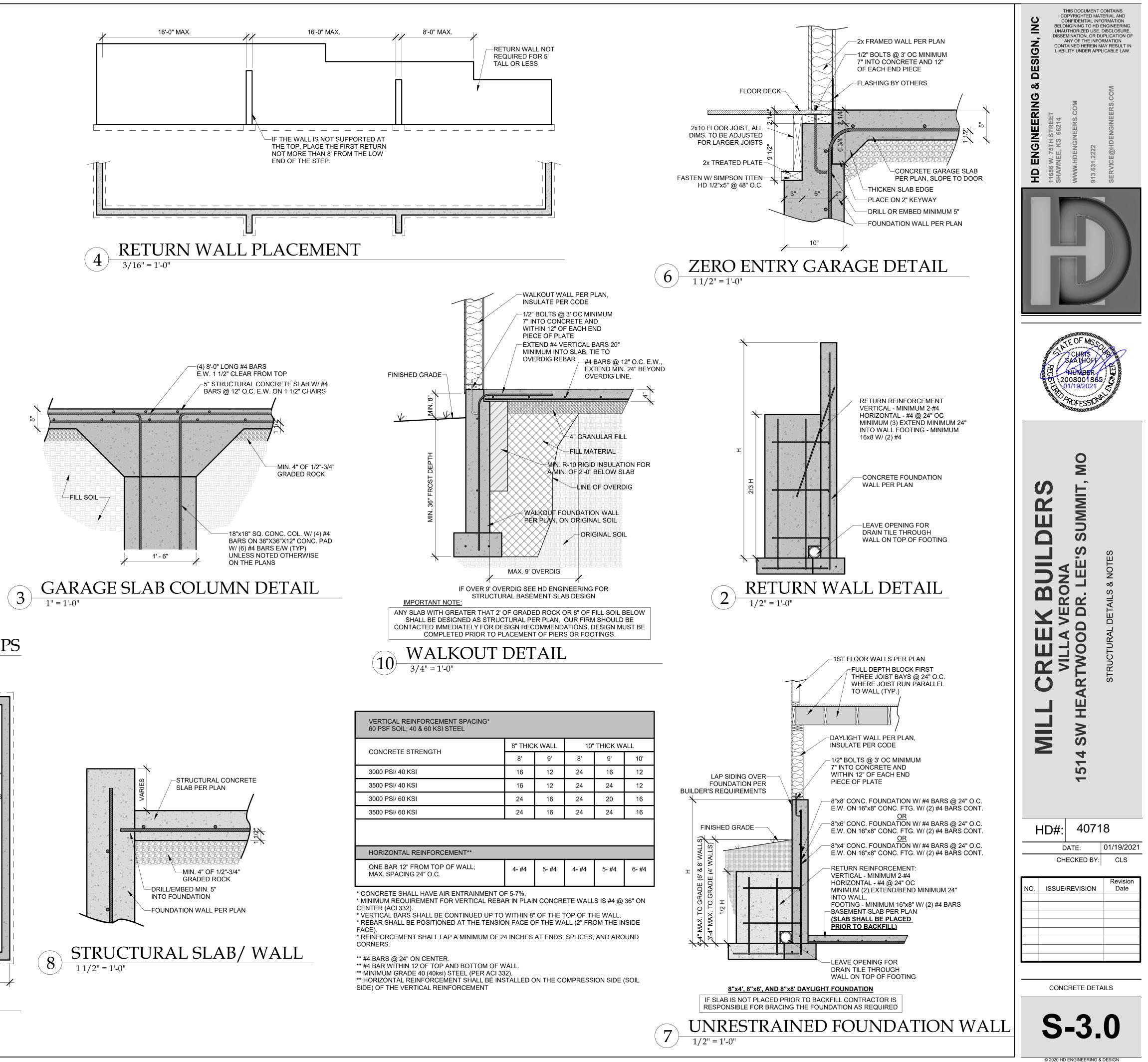






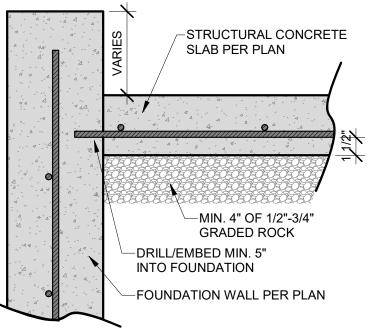




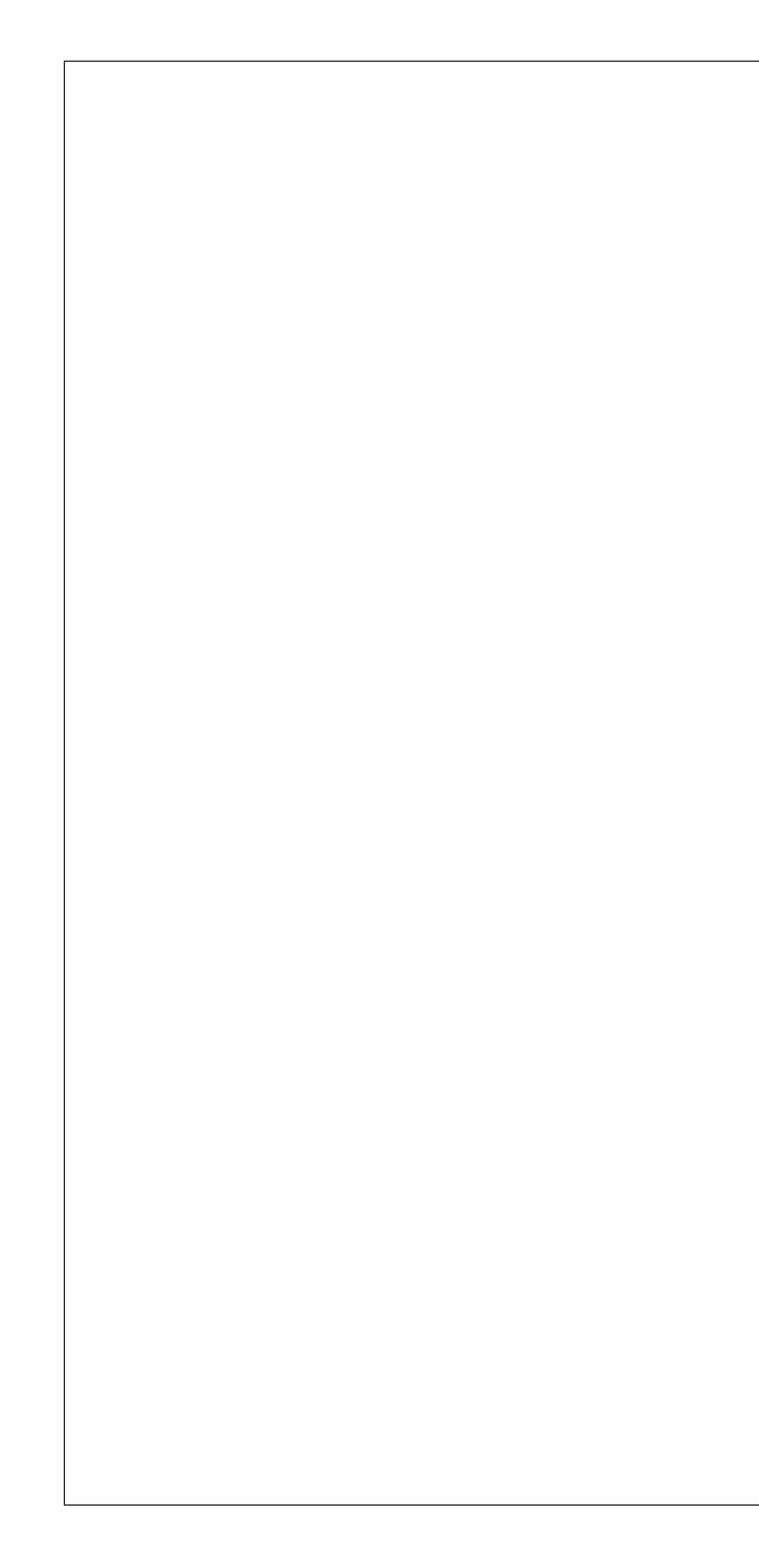


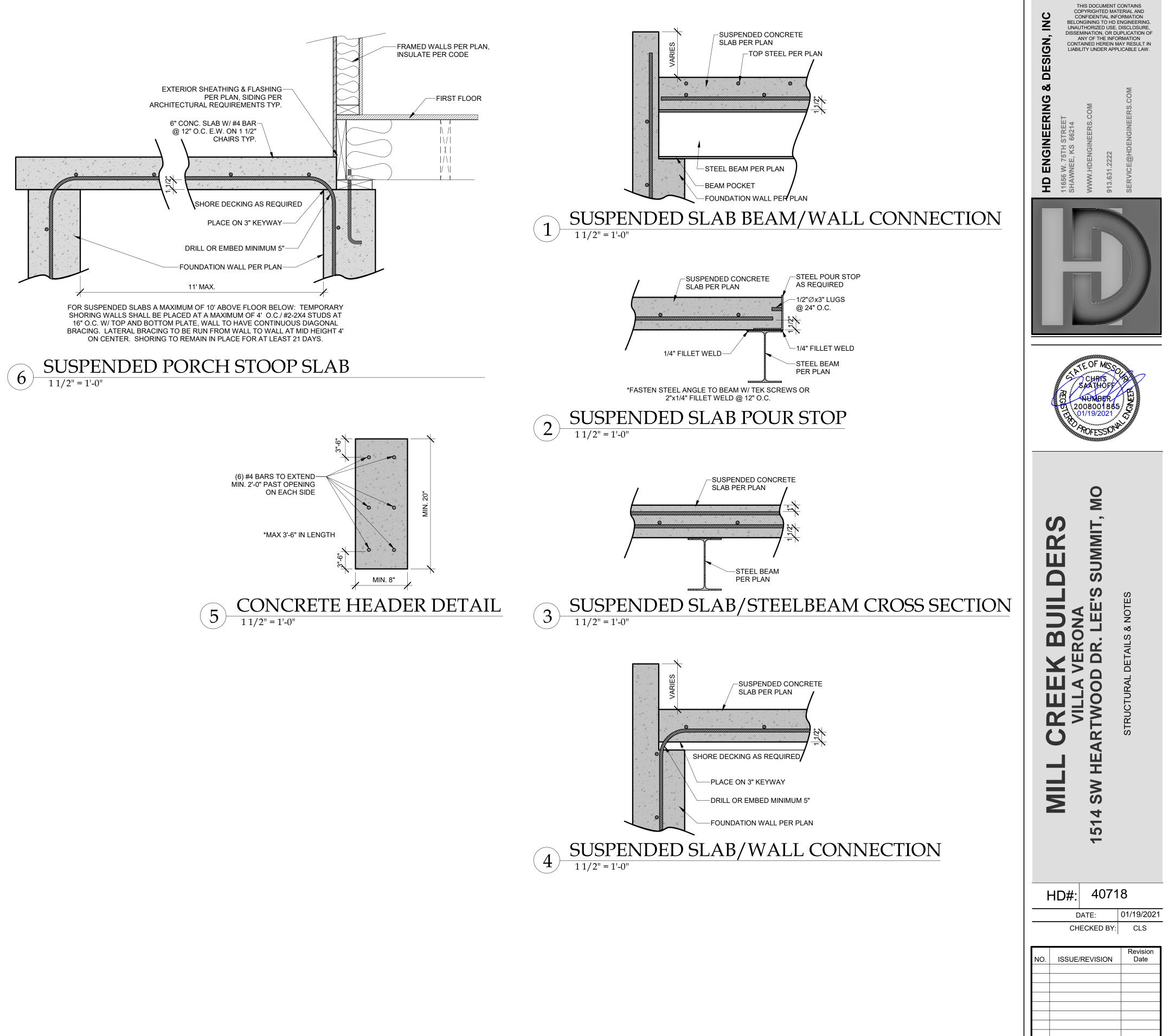
CONCRETE STRENGTH	8" THICK WALL		10" THICK WALL		
CONCRETE STRENGTH	8'	9'	8'	9'	10
3000 PSI/ 40 KSI	16	12	24	16	12
3500 PSI/ 40 KSI	16	12	24	24	12
3000 PSI/ 60 KSI	24	16	24	20	16
3500 PSI/ 60 KSI	24	16	24	24	16

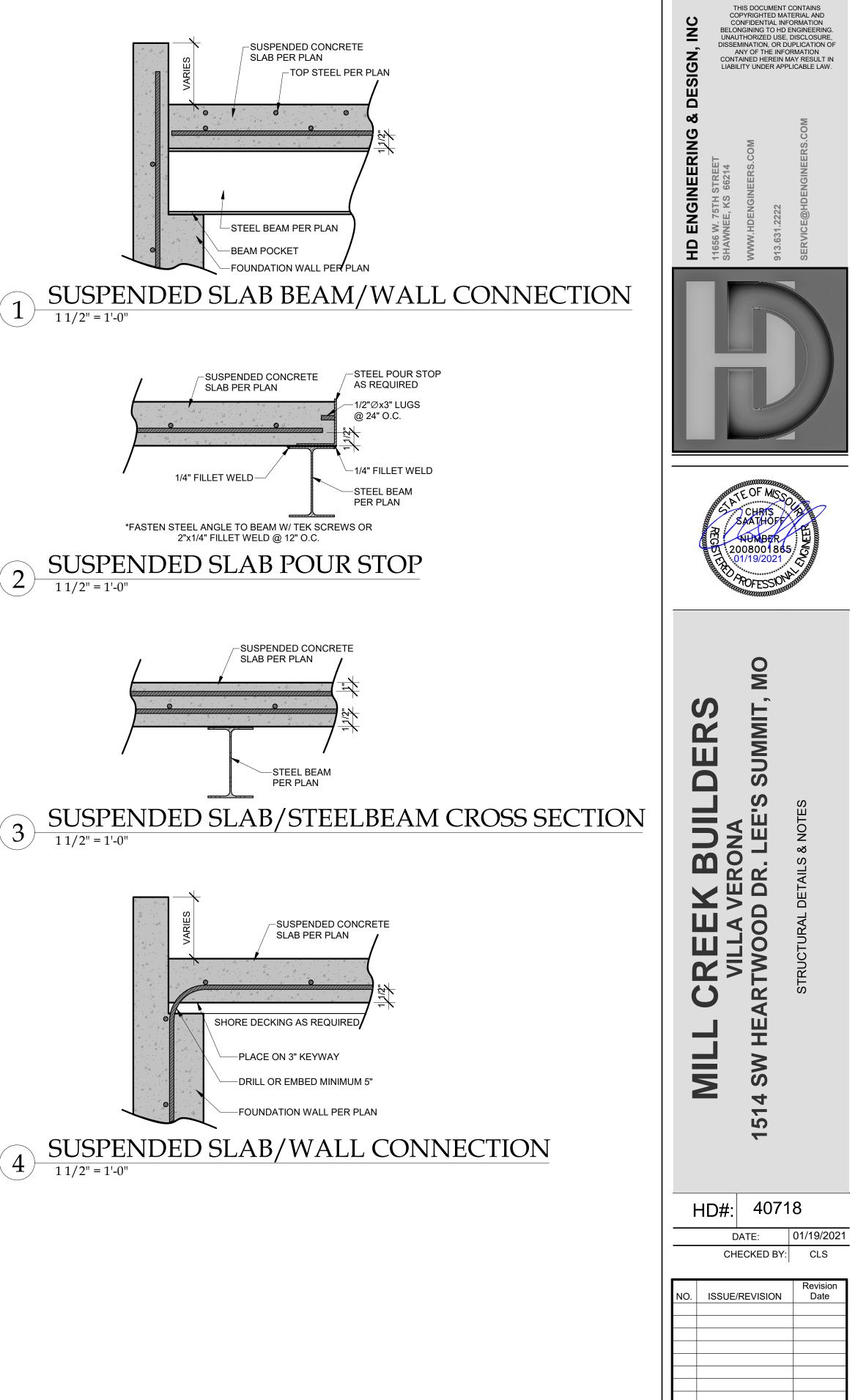
HURIZUNTAL REINFURGEMENT"					
ONE BAR 12" FROM TOP OF WALL; MAX. SPACING 24" O.C.	4- #4	5- #4	4- #4	5- #4	6- #4



(8)







IMPORTANT NOTE: -FOR SUSPENDED SLABS A MAXIMUM OF 10' ABOVE FLOOR BELOW: TEMPORARY SHORING WALLS SHALL BE PLACED AT A MAXIMUM OF 4' O.C./ #2-2X4 STUDS AT 16" O.C. W/ TOP AND BOTTOM PLATE, WALL TO HAVE CONTINUOUS DIAGONAL BRACING. LATERAL BRACING TO BE RUN FROM WALL TO WALL AT MID HEIGHT 4' ON CENTER. SHORING TO REMAIN IN PLACE FOR AT LEAST 21 DAYS. -ANY CAST IN PLACE SLABS FORMED MORE THAN 10' ABOVE THE FLOOR BELOW SHALL HAVE A SITE SPECIFIC SHORING DESIGN DONE. OUR FIRM SHOULD BE CONSULTED FOR THIS DESIGN ONCE FOUNDATION WALLS ARE IN PLACE TO EVALUATE ALL FIELD CONDITIONS. IT SHOULD BE NOTED THAT FAILURE TO HAVE AN ADEQUATE SHORING DESIGN CAN RESULT IN FORM COLAPSE AND/OR CATASTROPHIC FAILURE.

SUSPENDED SLAB DETAILS

S-3.1

