MARSHALL HOME DESIGN

"BUILDERS PLANS DEFINITION"

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THE TERM "BUILDERS PLAN" 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. THE

CONTRACTOR WARRANTS TO MARSHALL HOME DESIGN, LLC AND AND ITS CONSULTANTS, THAT THEY POSSESS THE PARTICULAR COMPETENCE AND SKILL IN CONSTRUCTION NECESSARY TO BUILD THIS PROJECT WITHOUT FULL

ENGINEERING AND ARCHITECTURAL 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

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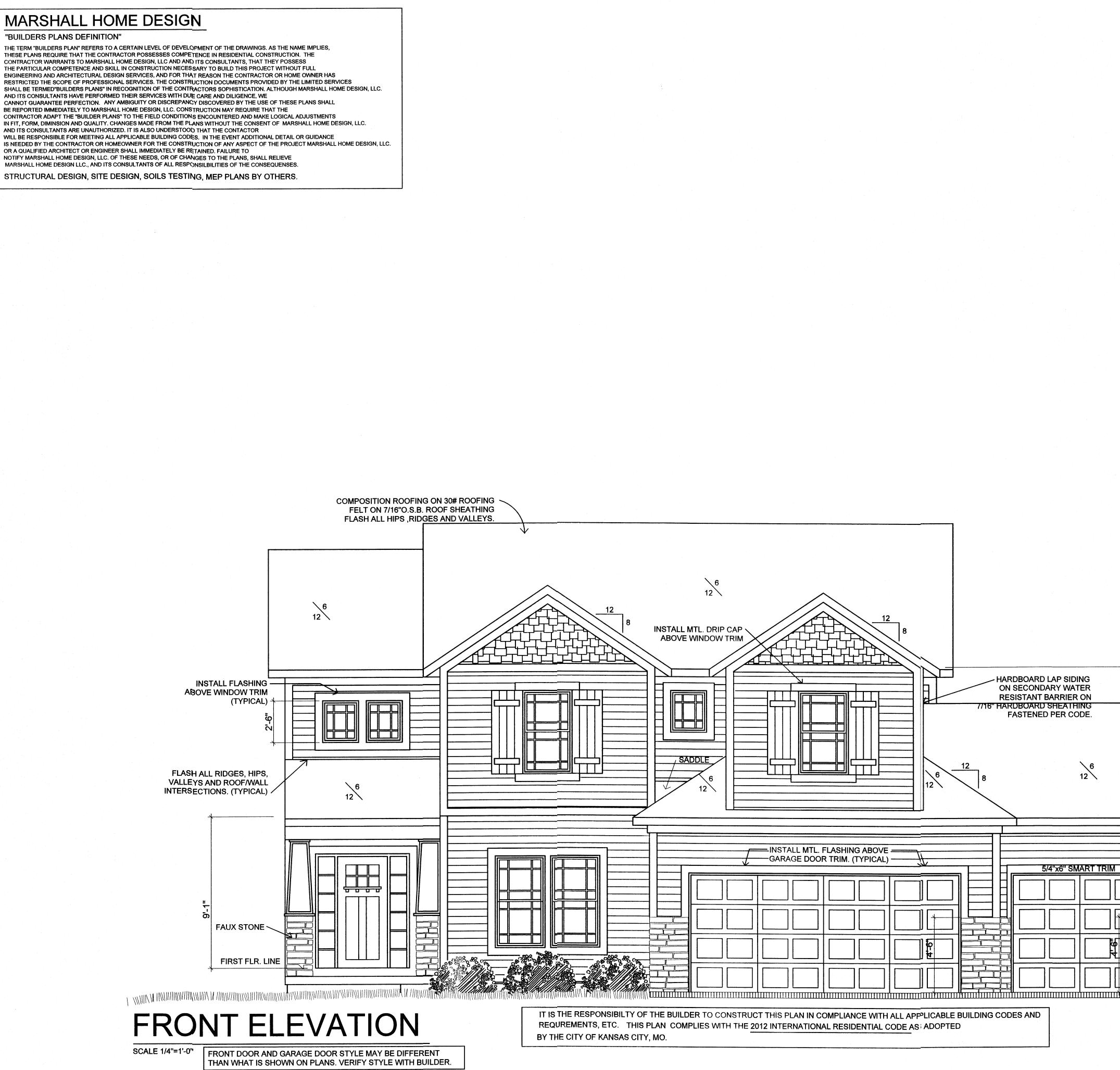
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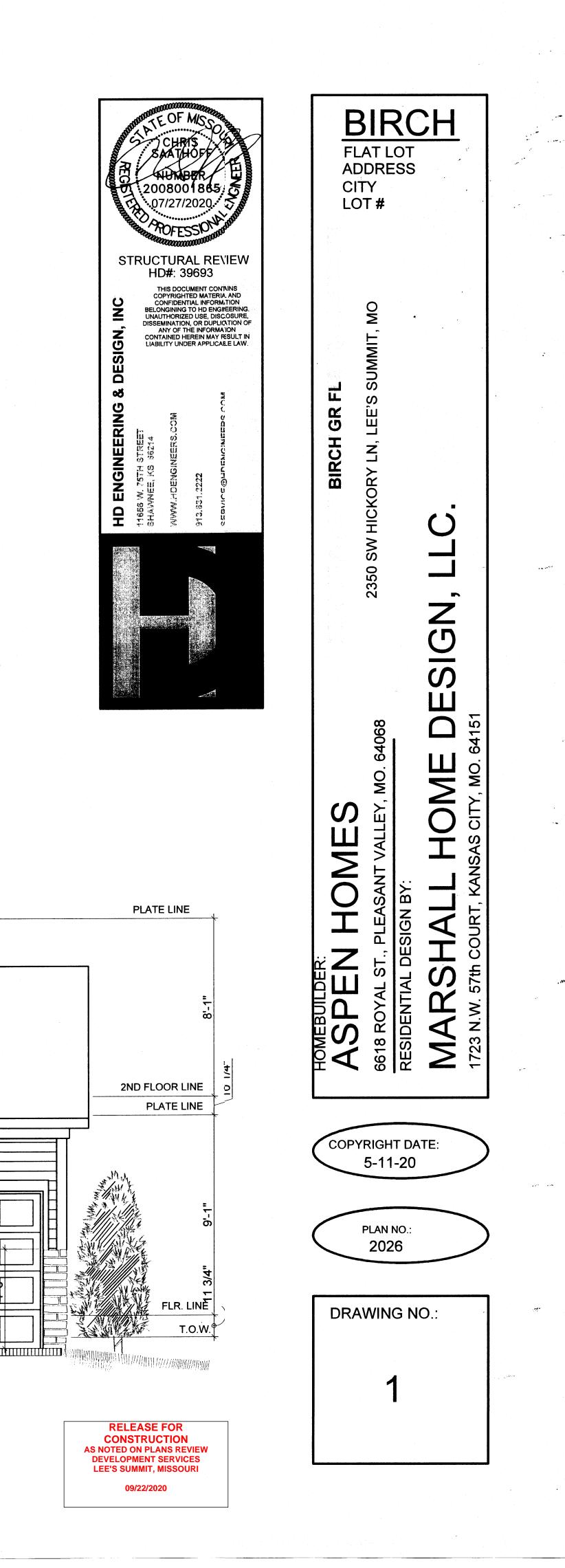
CONTRACTOR ADAPT THE "BUILDER PLANS" TO THE FIELD CONDITIONS ENCOUNTERED AND MAKE LOGICAL ADJUSTMENTS IN FIT, FORM, DIMINSION AND QUALITY. CHANGES MADE FROM THE PLANS WITHOUT THE CONSENT OF MARSHALL HOME DESIGN, LLC.

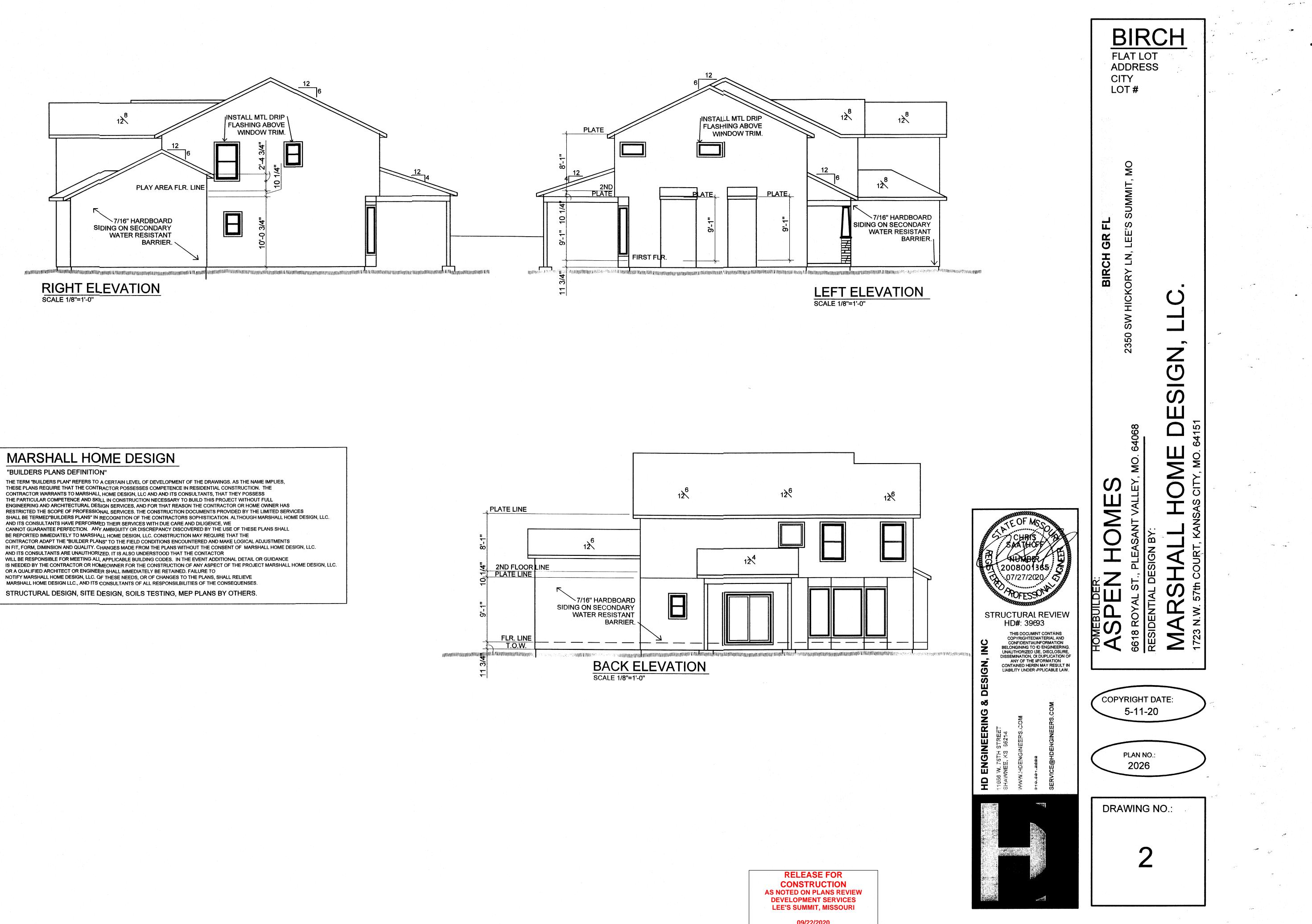
AND ITS CONSULTANTS ARE UNAUTHORIZED. IT IS ALSO UNDERSTOOD THAT THE CONTACTOR WILL BE RESPONSIBLE FOR MEETING ALL APPLICABLE BUILDING CODES, IN THE EVENT ADDITIONAL DETAIL OR GUIDANCE IS NEEDED BY THE CONTRACTOR OR HOMEOWNER FOR THE CONSTRUCTION OF ANY ASPECT OF THE PROJECT MARSHALL HOME DESIGN, LLC. OR A QUALIFIED ARCHITECT OR ENGINEER SHALL IMMEDIATELY BE RETAINED. FAILURE TO

MARSHALL HOME DESIGN LLC., AND ITS CONSULTANTS OF ALL RESPONSILBILITIES OF THE CONSEQUENSES.

STRUCTURAL DESIGN, SITE DESIGN, SOILS TESTING, MEP PLANS BY OTHERS.







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MARSHALL HOME DESIGN

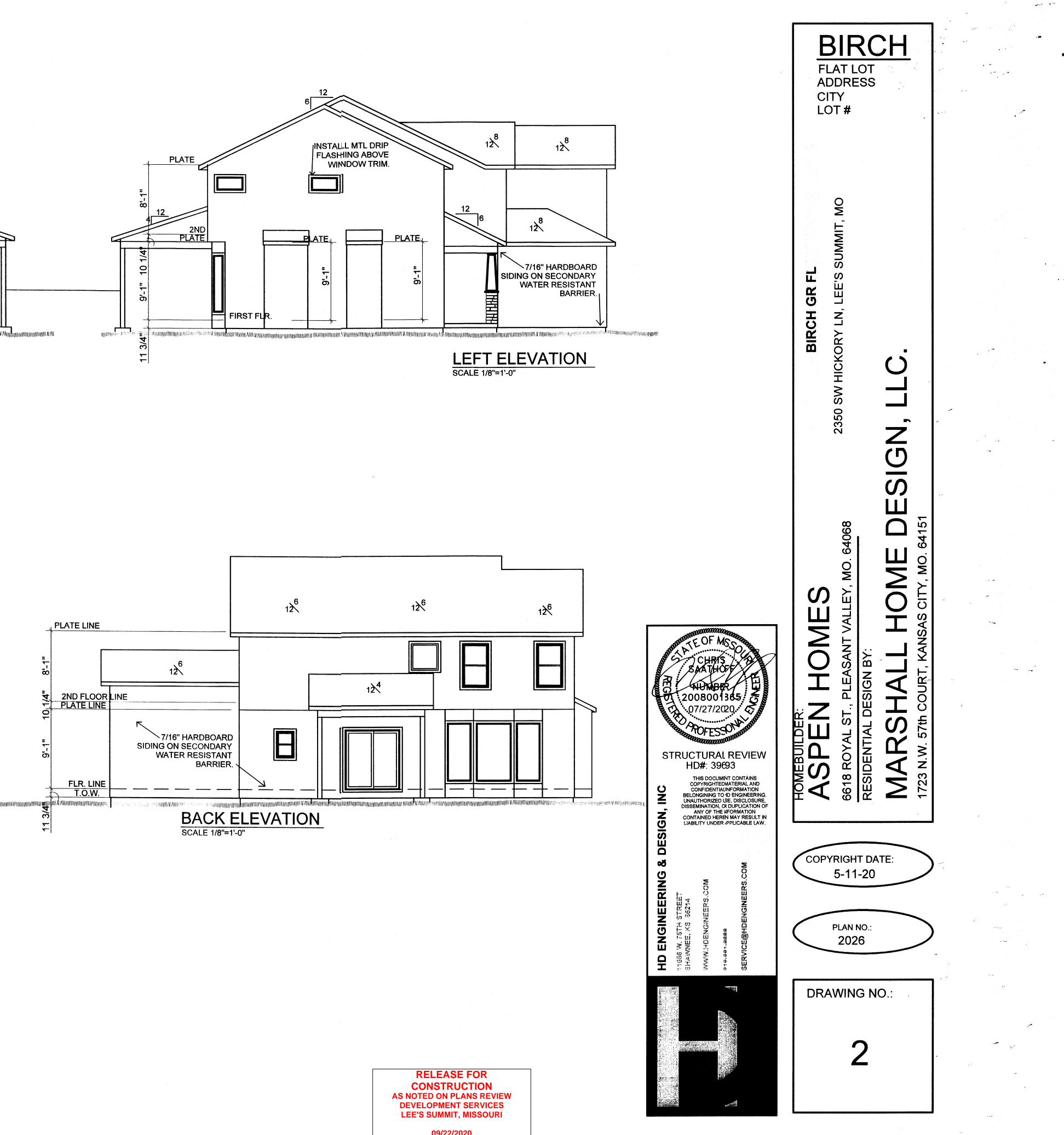
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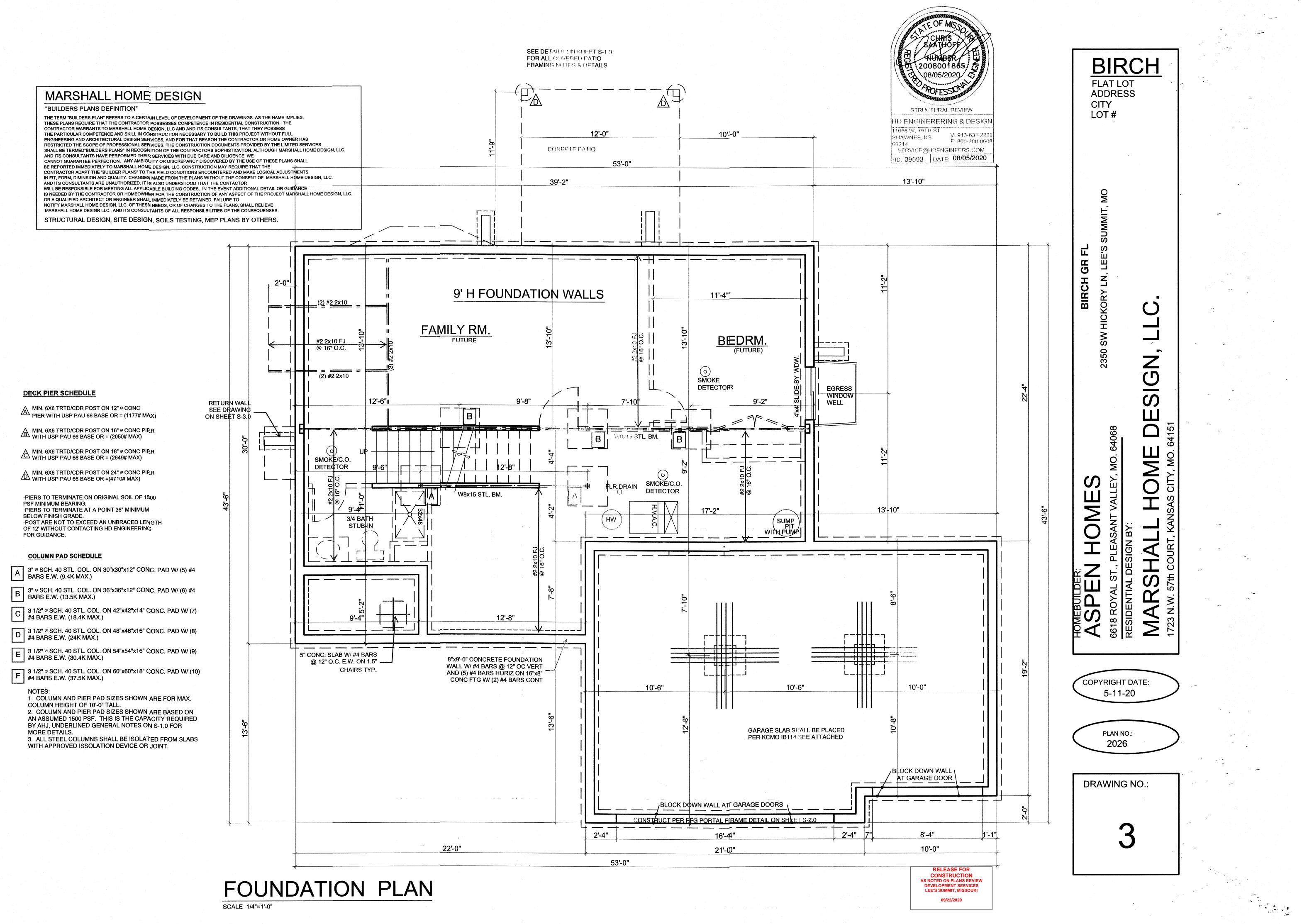
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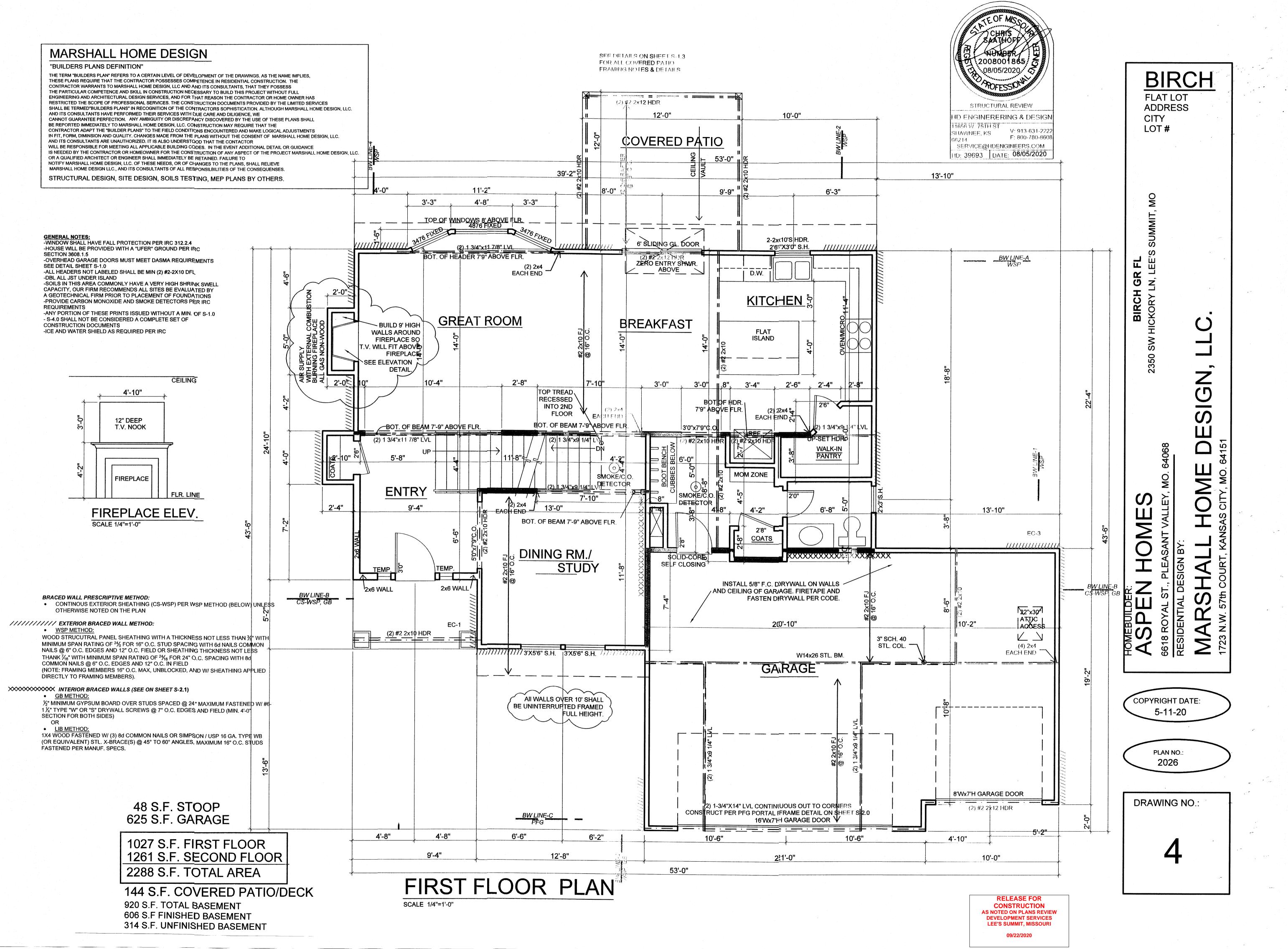
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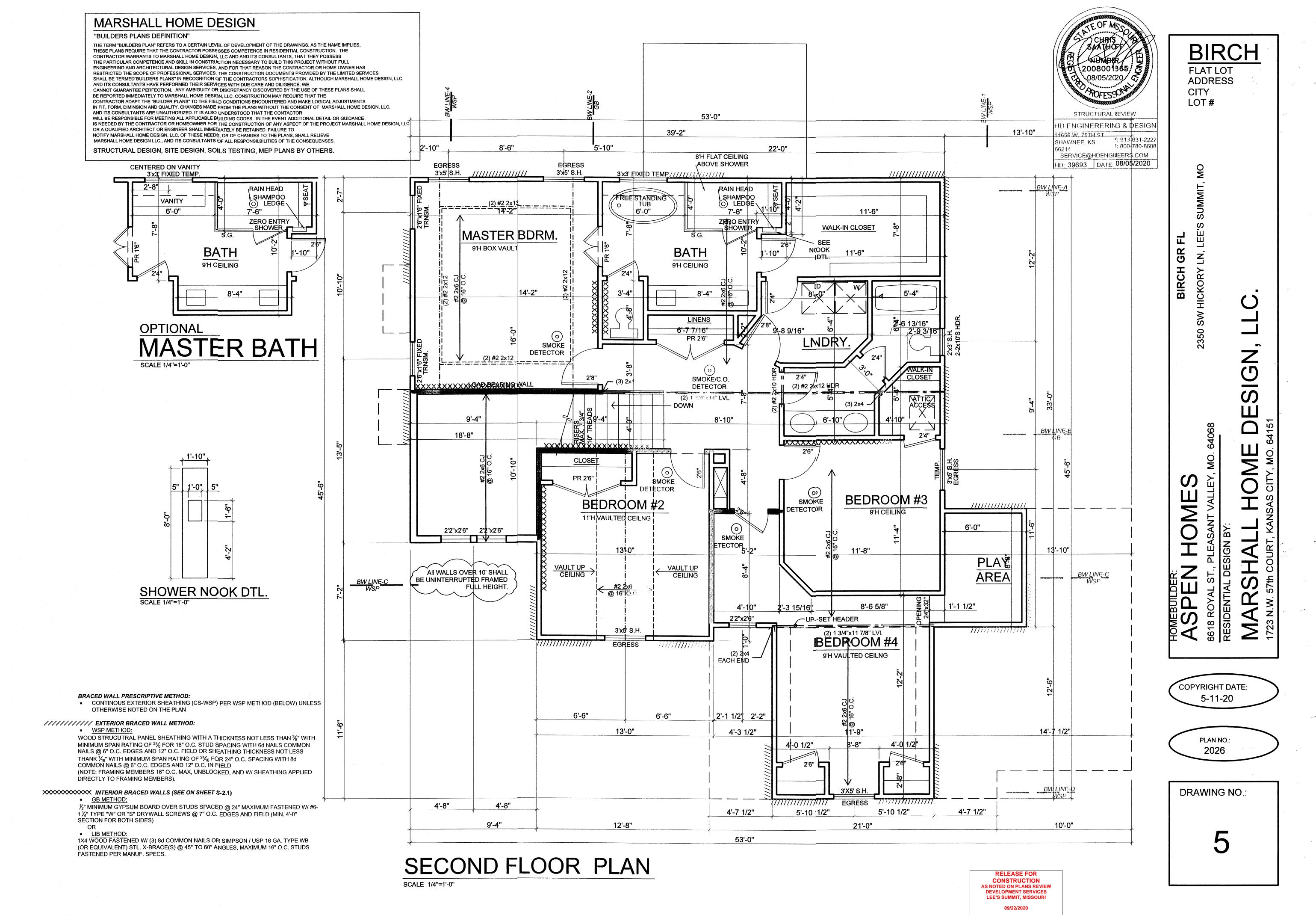
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09/22/2020







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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

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Γ	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"
	#22x10	@16" O.C.	22'-6"

NOTE: CODE MINIMUM L/240 DEFLECTION

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

– PURLIN

- LOAD BEARING WALL

- LOAD BEARING BEAM/ GIRDER PER PLAN

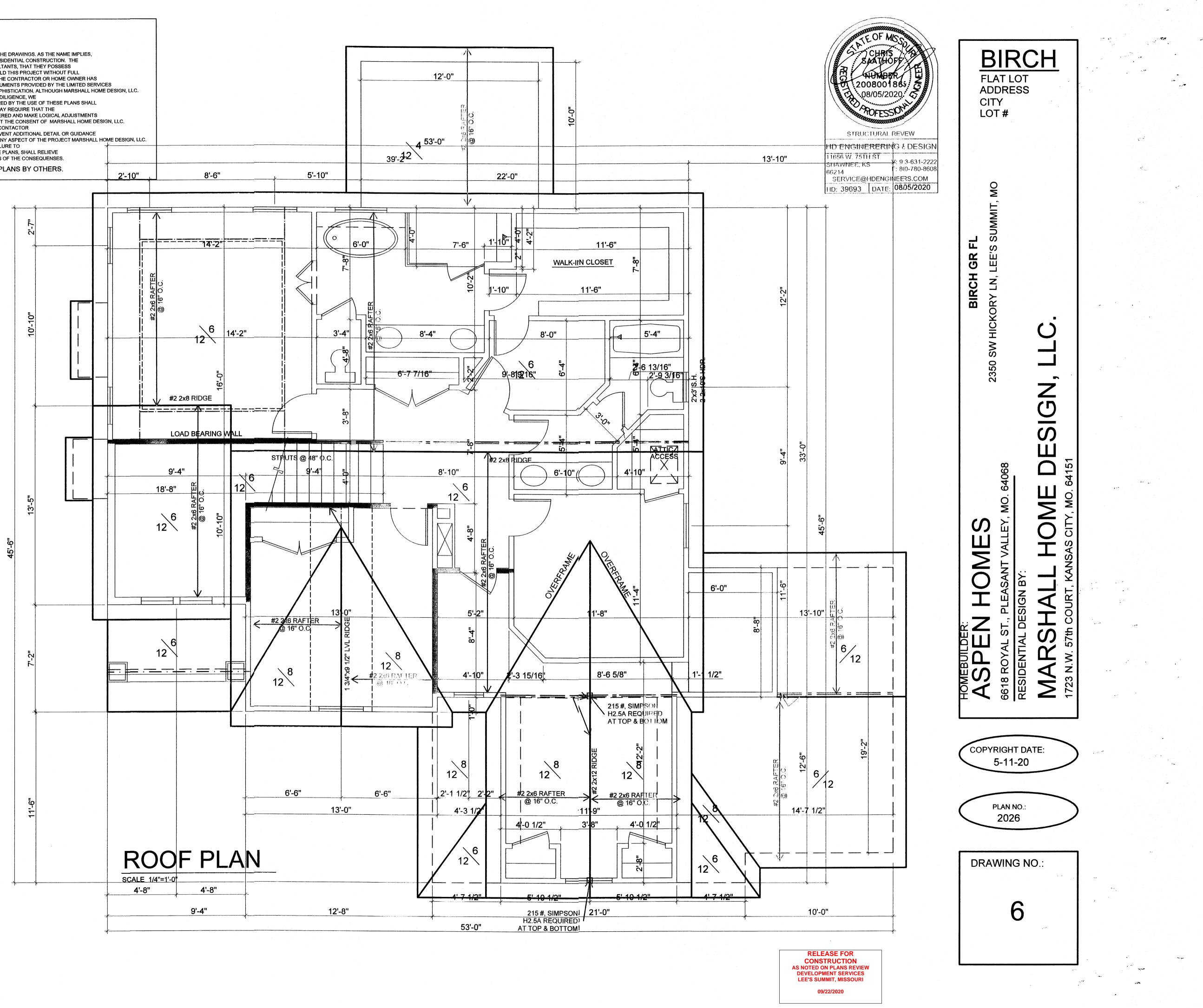
SEE DETAIL 8/S-7.0 FOR RAFTER TIE CONNECTION FOR CLG JOISTS PERPENDICULAR TO HIP RAFTER\$

ALL HIPS & VALLEYS SHALL BE FASTENED TO EXTERIOR WALL TOP PLATE PER FRAME FASTENING SCHEDULE ON S-1.0

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



ALLOWABLE LOADS FOR PNEUMATIC OR MECHANICALLY DRIVEN NAILS AND STAPLES

			IFIELSING SANDLEISI	AL	ROWAL-LE RO	ADS (IN POUNI).s)r
HALANEN DESCRIPTION	NALCUN NALSI WREDIA	WIRE GA	REQUIREDUKTO MAIN MEMELEREDIKTO MAIN	LATERAL	hand <u>alak</u> chatik		
CLOPINI, WOW	- WIRIERDIAN		i Sidataharan (jina)	વુષ્ટ	ioj <i>ti</i> le.	ŠP.	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	100	11	4 0/0	80	04	44	32
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	.128	10-1/2	1-1/2	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	1						
16d Sinker Nails	.148	9	1-5/8	128	118	46	36
20d Box Nails			1 0/0	,,			
30d Box Nails							
16d Ring Shank Nails	.148	9	1-3/4	128	118	50	40
16d Screw Shank Nails 16d Common Nails							
	.162	8	1-3/4	154	141	50	40
40d Box Nails							
20d Ring Shank Nails	.177	7	2-1/8	178	163	59	47
20d Screw Shank Nails				· · · · · · · · · · · · · · · · · · ·			
20d Sinker Nails	.177	7	2-1/8	178	163	54	43
20d Common Nails	.148	9	2-1/8	170	166	59	47
30d Sinker Nails		1					

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		
ROOT SHEATTING	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	ING 1/2" GYPSUM SHEATHING 7" OC NAILED / 12" OC SCREWED W/ 13GA, 1 3/8" LON HEAD; 0.098 Ø, 1 1/4" LONG, ANG-RINGED; 5D COO 0.086 Ø, 1 5/8" LONG, 15/64" HEAD; OR GYP BD 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		

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.

FRAME FASTENING SCHEDULE

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

* 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.

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

SEALS. 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.

ANY APPRIOPRIATE 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 COINTRACTUAL 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 SINIGLE 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 ALTERNATTES 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 FRM OR AN HD ENGINEERING REFERRED GEOTECHINICAL FIRM PRIOR TO PLACING FOOTINGS. THE ATTACHED PLANS HAVE BEEN DESIGNED WITH THE UNDERSTANDING THAT OUR FIRM HAS NOT AND CAN NO VISIT OR INSPECT THE SITE WITHOUT WRITTEN CONSENT/REQUEST OF THE OWNER/BUILDER. DUE TO THIS FACT OUR FRM CAN ONLY DESIGN THE ATTACHED PLANS TO CERTAIN (CODE REQUIREMENTS WHICH ARE DETAILED THROUGHOUT THE PLAN AND ATTACHED DETAIL SHEETS, IF THE (WNER 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 SOILBEARING 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: 1. THE FOUNDATION DESIGN SHALL COMPLY WITH THE ENFORCING JURISDICTION RESIDENTIAL FOUNDATION STANDARI IN LIEU OF ENGINEERING REPORT **REQUIREMENTS BASED ON ACTUAL SITE CONDITIONS.** 2. FOUND/ATION 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. FOUND/ATION 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 GFRADE FOR FROST PROTECTION.

6. COLUMIN PADS SHALL BE A MINIMUM OF 24"X24"X8" WITH (3) #4 BARS EACH WAY. 7. FOUND)ATION 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 MOTED OTHERWISE ON PLAN. 8. REINFORCEMENT SHALL LAP A MINIMUM OF 24"

9. INTERICOR BEARING WALLS AND COLUMNS SHALL BE ISOLATED FROM THE BASEMENT FLOOR SLAB.

10. INTERNIOR 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. CONCIRETE FLOOR SLABS ON GRADE, SHALL BE A MINIMUM

A MIN. 6 MIL POLYETHYLENE OR APPROVED VAPOR RETARDER COURSE. 12. FLOOFR SLABS SUPPORTED BY FILL CONSISTING OF MORE

DESIGN. 13. BASEMENT FOUNDATION SILL PLATES SHALL BE BOLTED TO SPACED MOT MORE THAN 3' ON CENTER AND WITHIN 12" OF EAC 14. FOUNIDATION WINDOW WELLS FOR SECONDARY MEANS OF 15. THE BASE OF ALL FOOTING EXCAVATIONS SHOULD BE FREI SOON AS IPOSSIBLE AFTER EXCAVATING SO THAT EXCESSIVE D LEVEL BE(COME EXCESSIVELY DRY OR SATURATED, WE RECOM 16. IT IS RECOMMENDED THAT ALL FOOTING EXCAVATIONS BE FOUNDATION CONCRETE. UNSUITABLE AREAS IDENTIFIED AT T ENCOUNT/ERED AND MAY INCLUDE DEEPENING OF FOUNDATION

STAIRWAYY NOTES:

1. STAIRWAYS SHALL PROVIDE A MAXIMUM 7 3/4" RISE AND MIN. 2. PROVIDE MINIMUM 36" GUARDRAILS ON THE OPEN SIDES OF LOCATED MORE THAN 30" ABOVE THE FLOOR OR GRADE BELOW ALLOW PAASSAGE OF A SPHERE 4" IN DIAMETER.

3. EACH STAIRWAY OF 3 OR MORE RISERS SHALL PROVIDE A CO 4. HANDRAILS SHALL HAVE A CIRCULAR CROSS-SECTION OF 1 5. PROVIDE A MINIMUM 6'-8" OF HEADROOM CLEARANCE IN STAI

6. ENCLOSED ACCESSIBLE SPACE UNDER STAIRWAYS SHALL H ENCLOSU/RE SIDE. 7. WINDERRS SHALL PROVIDE A MINIMUM TREAD OF AT LEAST 6"

IRCR311.7⁷.5.2.1. **GLAZING INOTES:**

1. GLAZINIG IN HAZARDOUS LOCATIONS AS IDENTIFIED IN IRC SE FIXED OR? OPERABLE PANELS ADJACENT TO A DOOR WHERE 1 BOTTOM EDGE IS WITHIN 60" OF THE FLOOR, WALLS ENCLOSING ENCLOSUIRES FOR SPAS, TUBS, SHOWERS AND WHIRLPOOLS, ABOVE THE FLOOR OR WALKING SURFACE WITHIN 36" 2. IN DWEELLING UNITS, WHERE THE OPENING OF AN OPERABLE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHAL LOCATED, OPERABLE SECTIONS OF WINDOWS SHALL NOT PER LOCATED WITHIN 24 INCHES OF THE FINISHED FLOOR.

FRAMING NOTES:

1. ALL LUIMBER SIZES ARE FOR DOUGLAS FIR-LARCH UNLESS (

2. ALL HE/ADERS TO BE A MINIMUM OF (2) #2-2X10'S UNLESS OT 3. BLOCK CANTILEVERS, DOOR JAMBS, AND OVER BEAMS.

4. ALL HE ADERS/BEAMS TO BEAR ON A MINIMUM OF (2) 2X4 PO

5. INTERICOR NON-BEARING WALLS, OTHER THAN THOSE RESTIN 6. WHERE JOISTS RUN PARALLEL TO FOUNDATION WALLS. SOLI TRANSFER LATERAL LOADS ON THE WALL TO THE FLOOR DIAP

BLOCKING TO SILL PLATE WITH (4) 10D NAILS. 7. IF DUCITS ARE INSTALLED IN THE FIRST JOIST SPACE(S), NAIL UPRIGHT., IN THE NEXT TWO JOIST SPACES. SECURE THE 2X4'S 8. ALL SILLS AND SLEEPERS SUPPORTED ON CONCRETE OR MA MATERIALLS.

9. JOISTS; UNDER BEARING PARTITIONS SHALL BE SIZED TO CAR 10 JOIST S FRAMING FROM OPPOSITE SIDES OVER BEARING SU 11. JOIST(S FRAMING INTO A WOOD GIRDER OR BEAM SHALL BE 12. HEADIER AND TRIMMERS SHALL BE OF SUFFICIENT CROSS

SUPPORT[ED MORE THAN 3' FROM THE TRIMMER JOIST BEARING 13. JOIST(S AT SUPPORTS SHALL BE SUPPORTED LATERALLY AT

TO A HEALDER, BAND OR RIM JOIST OR TO AN ADJOINING STUD

14. ALL WALL COVERINGS TO COMPLY WITH IRC SECTION 702 A 15. ALL R/AFTER / COLLAR TIES TO COMPLY WITH IRC SECTIONS

16. ALL R/AFTERS TO HAVE 2x4 COLLAR TIES @ 48" OC IN UPPER

17. BLOCHKING BETWEEN JOISTS UNDER A PERPENDICULAR LOA 18. BOTTOM OF ALL FLOOR ASSEMBLIES SHALL BE PROVIDED

19. I-JOISTT AND FLOOR TRUSS SYSTEMS SHALL BE FIRE PROTE

20. STUDS SHALL BE CONTINUOUS FROM THE FLOOR TO THE R

CONCRETTE NOTES:

1. CONCRETE SHALL BE AIR-ENTRAINED (5%-7%) WITH A MINIMU FOR BASEEMENT AND FOUNDATION WALLS AND 3500 PSI FOR POI

EMERGENCY EGRESS AND RESCUE NOTES:

1. PROVIDE ONE WINDOW FOR EACH BEDROOM THAT HAS A MI ADDITION J, THE OPENABLE PORTION OF EGRESS WINDOWS SHA 2. PROVIDE SMOKE ALARMS IN EACH SLEEPING ROOM, OUTSID INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION C 3. PROVID)E CARBON MONOXIDE ALARMS AS REQUIRED PER IRC FUEL-BURNING APPLIANCES ARE LOCATED WITHIN A BEDROOM

<u>GARAGE NOTES:</u>

1. THE GARAGE FLOOR SHALL SLOPE TOWARDS THE GARAGE ABOVE GRADE.

2. DOORSS BETWEEN THE GARAGE AND DWELLING - MINIMUM 1 MINUTE FIRE - RATED EQUIPPED WITH SELF CLOSING DEVICE F 3. GARAGE VEHICLE DOORS AND FRAMES SHALL BE DESIGNED IRC2018 R301.2.1 4. THE GARAGE SHALL BE SEPARATED FROM THE DWELLING AN

SPACE OCCURS ABOVE THE GARAGE, THE FLOOR CEILING ASSE A FLOOR/(CEILING SPACE IS PROVIDED ABOVE THE GARAGE CO OR EQUIV/ALENT.

5. GARAGE DOOR H-FRAME FOR THE ATTACHMENT OF THE TRA FLOOR TCD CEILING ATTACHED WITH 1 3/4"X.120" NAILS AT 7" CEN FOR ATTA\CHMENT OF COUNTER BALANCE SYSTEM. 6. ANY ATTACHED GARAGE TO THE MAIN HOUSE SHALL BE PRO WITH THE HOUSEHOLD SMOKE ALARM SYSTEM. HEAT DETECTO

MECHANICAL/INSULATION: 1. BUILDING ENVELOPE INSULATION SHALL COMPLY WITH IRC

REQUIRED AREA MAY BE REDUCED TO 1/300.

I 4" THICK OVER A MINIMUM 4" BASE OF SAND, GRAVEL, ORCRUSHED STONE. BASEMENT SLABS SHALL HAVE WITH JOINTS LAPPED NOT LESS THAN 6" SHALL BE PLACED BETWEEN THE FLOOR SLAB AND THE BASE	
THAN 24" OF GRANULAR FILL OR 8" OF EARTH SHALL BE RENFORCED PER A SEPARATE ENGINEERING	
D THE FOUNDATION W/ A MINIMUM OF 1/2" ANCHOR BOLTSEMBEDDED AT LEAST 7" INTO THE CONCRETE AND CH END PIECE PER IRC SECTION R403.1.6. FEGRESS SHALL PROVIDE A MINIMUM 3'X3' HORIZONTAL AREA. E OF ALL WATER AND LOOSE MATERIAL PRIOR TO PLACING CONCRETE. CONCRETE SHOULD BE PLACED AS DRYING OR DISTURBANCE OF BEARING MATERIALS DOES NOT OCCUR. SHOULD THE MATERIALS AT BEARING MEND THAT THE AFFECTED MATERIAL BE REMOVED PRIOR TO PLACING CONCRETE. EVALUATED AND TESTED BY A GEOTECHNICAL ENGINEERIMMEDIATELY PRIOR TO PLACEMENT OF HIS TIME SHOULD BE CORRECTED. CORRECTIVE PROCEDIRES WOULD BE DEPENDENT UPON CONDITIONS N ELEMENTS, OR UNDERCUTTING OF UNSUITABLE MATERIALS AND REPLACEMENT WITH ENGINEERED FILL.	-
I. 10" RUN. RAISED FLOORS, PORCHES AND BALCONIES. MINIMUM 34' GUARDRAILS ON THE OPEN SIDES OF STAIRWAYS W. GUARDRAIL ENCLOSURES SHALL HAVE INTERMEDIATERAILS OR ORNAMENTAL PATTERNS THAT DO NOT	
ONTINUOUS HANDRAIL ON AT LEAST ONE SIDE BETWEEN 34" AND 38" ABOVE THE NOSING OF THE THREADS. 1/4" MINIMUM TO 2" MAXIMUM OR OTHER APPROVED GRA\$PABLE SHAPE PER IRC SECTION R311.7.8.5 AIRWAYS.	
ARE WALLS AND THE UNDERSIDE OF THE STAIR AND LANNING PROTECTED WITH 1/2" GYPSUM BOARD ON	
" AT ANY POINT WITHIN CLEAR WIDTH OF STAIRS. WINDER TREAD PROPORTION TO COMPLY WITH	
ECTION R308.4 SHALL BE OF APPROVED SAFETY GLAZING MATERIALS. GLASS IN STORM DOORS, INDIVIDUAL HE NEAREST VERTICAL EDGE IS WITHIN A 24" ARCH OF THE DOOR IN A CLOSED POSITION AND WHOSE G STAIRWAYS AND LANDINGS WHERE THE GLAZING IS WITHIN 60" OF THE TOP OR BOTTOM OF THE STAIR, GLAZING IN FIXED OR OPERABLE PANELS EXCEEDING 9 S.I. AND WHOSE BOTTOM EDGE IS LESS THAN 18" E WINDOW IS LOCATED MORE THAN 72 INCHES ABOVE THE FINISHED GRADE OR SURFACE BELOW, THE	
L BE A MINIMUM OF 24 INCHES ABOVE THE FINISHED FLOCR OF THE ROOM IN WHICH THE WINDOW IS MIT OPENINGS THAT ALLOW PASSAGE OF A 4 INCH DIAMETER SPHERE WHERE SUCH OPENINGS ARE	
OTHERWISE NOTED. HERWISE NOTED.	
STS UNLESS NOTED OTHERWISE. NG DIRECTLY ON THE FOOTING SHALL BE ISOLATED FRONTHE FLOOR FRAMING ABOVE. .ID BLOCKING FOR A MINIMUM OF (2) JOIST SPACES SHALLBE PROVIDED AT A MAXIMUM OF 4' CENTERS TO HRAGM. THE BLOCKING SHALL BE SECURELY NAILED TO THE JOISTS AND FLOORING. NAIL JOISTS AND	
L 2X4'S FLAT AT 4' CENTERS WITHIN THE JOIST SPACE(S) AND THEN PROVIDE SOLID BLOCKING, INSTALLED S TO THE SILL PLATE WITH (4) 10D NAILS. ASONRY AND FURRING ATTACHED TO CONCRETE OR MASONRY SHALL BE OF DECAY RESISTANT	
RRY THE DESIGN LOAD IN ACCORDANCE WITH IRC SECTION R502.4. UPPORTS SHALL LAP A MINIMUM OF 3" AND SHALL BE NAILED TOGETHER WITH A MINIMUM 10D FACE NAILS. E SUPPORTED BY APPROVED FRAMING ANCHORS OR ON NINIMUM 2"X2" LEDGER STRIPS. SECTION TO SUPPORT THE FLOOR FRAMING. TRIMMER JOSTS SHALL BE DOUBLED WHEN THE HEADER IS G. WHEN THE HEADER SPAN EXCEEDS 4', THE HEADER AND TRIMMER SHALL BE DOUBLED. T THE ENDS BY FULL-DEPTH SOLID BLOCKING NOT LESS THAN 2" NOMINAL THICKNESS OR BY ATTACHMENT OR OTHERWISE PROVIDED WITH LATERAL SUPPORT TO PREVENT ROTATION.	
S 804 R 1/3 OF DISTANCE BETWEEN CEILING AND ROOF AD-BEARING WALL IS NOT REQUIRED WITH A 1/2" GYPSUM WALLBOARD MEMBRANE (IF REQUIRED BY LOCAL CODE) CTED PER IRC AS ADOPTED BY AHJ OOF/ CEILING DIAPHRAGM PER IRC 602.3	
UM COMPRESSIVE STRENGTH AT 28 DAYS OF 2500 PSI FOR BASEMENT AND INTERIOR FLOOR SLABS, 3000 PSI ORCHES, CARPORTS AND GARAGE FLOOR SLABS.	
INIMUM OPENABLE AREA OF 5.7 S.F. WITH A MINIMUM OPENABLE HEIGHT OF 24" AND WIDTH OF 21". IN ALL NOT EXCEED 44" ABOVE THE ADJOINING FLOOR OR PERMANENT STEP. DE OF EACH SLEEPING AREA AND ON EACH FLOOR INCLUDNG BASEMENTS. ALARMS SHALL BE OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE DWELLING. C. CARBON MONOXIDE ALARMS SHALL BE INSTALLED OUTSIDE OF EACH SEPARATE SLEEPING AREA. WHERE I OR ITS ATTACHED BATHROOM, A CARBON MONOXIDE ALARM SHALL BE INSTALLED IN THE BEDROOM.	
DOORWAYS OR SLOPE TO A TRENCH OR UNTRAPPED DRAIN THAT DISCHARGES DIRECTLY TO THE EXTERIOR	
3/8" SOLID WOOD, SOLID OR HONEY-COMBED CORE STEE. DOOR NOT LESS THAN 1 3/8" THICK, OR 20 - PER IRC2018 R302.5.1 DAND INSTALLED TO MEET THE 115-MPH 3-SECOND GUST .OADING PER DASMA 108 AND ASTM E 330-96 PER	
AND INSTALLED TO MEET THE TISHIPH S-SECOND GOST COADING FER DASMA TO AND ASTMED SUBSOFT ER NO ITS ATTIC AREAS BY MINIMUM 5/8" GYPSUM BOARD APPLIED TO THE GARAGE SIDE. WHERE HABITABLE SEMBLY SHALL BE PROTECTED WITH MINIMUM 5/8" TYPE X 3YPSUM BOARD ON THE GARAGE CEILING. WHERE DLUMNS AND BEAMS SUPPORTING THE SEPARATION SHALLALSO BE PROTECTED WITH 5/8" GYPSUM BOARD	
ACK AND COUNTER BALANCE SHALL CONSIST OF THE FOLLOWING: 2x6 VERTICAL JAMBS RUNNING FROM NTERS STAGGERED WITH (7) 3 1/4"X.120" NAILS THRU THE JAMB INTO THE HEADER, MINIMUM 2X8 HEADER	
OVIDED WITH A SINGLE HEAT DETECTOR. HEAT DETECTOR SHALL BE HARDWIRED AND INTERCONNECTED OR SHALL BE LISTED FOR THE AMBIENT ENVIRONMENT AND INSTALLED PER MANF. INSTRUCTIONS.	
TABLE N1102.1.1 OR THE 2018 IECC. (SEE S-6.0 FOR MORE DETAILS)	

1. ENCLOISED 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 THANN 1/150 OF THE AREA OF SPACE VENTILATED, EXCEPT WHERE THE VENTILATORS AREA LOCATED IN THE UPPER POP

CATED IN THE	UPPER PORTION OF THE SPACE TO BE VEN	
	RELEASE FOR	
	CONSTRUCTION	
	AS NOTED ON PLANS REVIEW	
	DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	
	09/22/2020	

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GENERAL NOTES

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THIS DOCUMENT CONT

GENERAL, NOTES: 1. PLANS SHALL COMPLY WITH THE 2018 INTERNATIONAL RESIDENTIAL CODE, 2018 IECC, AND ALL AMENDMENTS AS ADO'TED BY THE AHJ. IF ANY CHANGES OR DEVIATIONS ARE MADE FROM THESE PLANS THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE AUTHORITY AND THE BIGINEER TO EVALUATE THE CHANGES AND MAKE

and a statement	FASTENER SCHEDULE		
NEM		NUMBER AND TYPE OF THE FASTENER ROOF	SPÁCING OF FASTENERS
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
2	CEILING JOISTS TO PLATE, TOE NAIL	3-10D (3"X0.128") 3-3"X 0.131" NAILS	PER JOIST, TOE NAIL
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
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
	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
	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
	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	
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
		WAIGL	
	STUD TO STUD (NOT BRACED WALL PANELS)	16D (3 1/2" X 0.162")	
	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
	CORNERS (AT BRACED WALL PANELS)	16D COMMON (3 1/2" X 0.162")	16" OC FACE NAIL
	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
		16D BOX (3 1/2" X 0.135")	12" OC EACH EDGE FACE NAIL
	CONTINUOUS HEADER TO STUD	5-8D BOX (2 1/2" X 0.113") or 4-8D COMMON (2 1/2" X 0.131") 4-10D BOX (3" X 0.128")	TOE NAIL
	TOP PLATE TO TOP PLATE	16D COMMON (3 1/2" X 0.162")	16" OC FACE NAIL
		10D BOX (3" X 0.128") OR 3" X 0.131" NAILS	12" OC FACE NAIL
	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 JOIN (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING	16D COMMON (3 1/2" X 0.162")	16" OC FACE NAIL
	(NOT AT BRACED WALL PANELS	16D BOX (3 1/2" X 0.135"); OR 3" X 0.131" NAILS	12" OC FACE NAIL
	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
	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
		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
	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
	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
	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
)	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
		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	
		FLOOR	an a
I	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
2	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
3	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
4	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
5	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
3	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
		20D COMMON (4" X 0.192"); or	NAIL EACH LAYER AS FOLLOWS: 32" OC AT TIP AND BOTTOM AND STAGGERED
7	BUILT-UP GIRDERS AND BEAMS, 2-INCH LUMBER LAYERS	10D BOX (3" X 0.128"); or 3" X 0.131" NAILS	24" OC FACE NAIL AT TOP AND BOTTON STAGGERED ON OPPOSITE SIDES
0		AND: 2-20D COMMON (4" X 0.192"); or 3-10D BOX (3" X 0.128; or 3-3" X 0.131" NAILS 4-16D BOX (3 1/2" X 0.135"): or 2 26D COMMON (3 1/2" X 0.135"): or	FACE NAIL AT END AND AT EACH SPLICE
8	LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	3-26D COMMON (3 1/2" X 0.162"); or 4-10D BOX (3" X 0.128"); or 4-3" X 0.131" NAILS 2-10D BOX (3" X 0.128"): or 2-8D COMMON	
9	BRIDGING OR BLOCKING TO JOIST	(2 1/2" X 0.131" or 2-3" X 0.131") NAILS	EACH END, TOE NAIL
NAILS	ARE SMOOTH-COMMON, BOX OR DEFORMED SHANKS EXCEPT WHERE OTHERWISE STATED. NAILS II	RED FOR EDAMING AND SHEATHING CONNECTIONS SHALL HAVE MINIMUM AVERAG	E BENDING YIELD STRENGTHS AS SHOWN 80 KSI FOR SHA

8. ALL NAILS ARE SMOOTH-COMMON, BOA OR DEFORMED SHARES EAGENT WHERE OTHER WIDE STATUS, MAILS USED FOR TRAINING AND STREAM IN SOLUTION AND STREAM IN STATUS STATUS STATUS AND STREAM IN STR

d. FOUR-FOOT BY 8-FOOT OR 4-FOOT BY 9-FOOT PANELS SHALL BE APPLIED VERTICALLY. e. SPACING OF FASTENERS NOT INCLUDED IN THIS TABLE SHALL BE BASED ON TABLE R602 3/21

IDE OF THE RAFTER SHALL NOT BE REQUIRED.

FOR REGIONS HAVING BASIC WIND SPEED OF 110 MPH OR GREATER, 8D DEFORMED (2 1/2" X 0.120) NAILS SHALL BE USED FOR ATTACHING PLYWOOD AND WOOD STRUCTURAL PANEL ROOF SHEATHING TO FRAMING WITHIN MINIMUM 48-INCHES DISTANCE FROM GABLE END WALLS, IF MEAN ROOF HEIGHT IS MORE THAN 25 FEET, UP TO 35 FEET MAXIMUM. 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 & INCHES ON CENTER. WHEN BASIC WIND SPEED IS GREATER THAN 100 MPH, NAILS FOR ATTACHING PANEL ROOF

PASTENERS NAIL
, TOE NAIL
NAIL
NAIL
ACH RAFTER
IE SIDE AND 1 TOE TE SIDE OF EACH OR TRUSS ¹
NAIL
DGE FACE NAIL
DGE FACE NAIL
NAIL
ACE NAIL
SIDE OF END JOINT SPLICE LENGTH F END JOINT)
ACE NAIL
6" OC FACE NAIL
NAIL

NAIL		

HOWN: 80 KSI FOR SHANK DIAMETER OF 0.192 INCH (20D COMMON)

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

UEM .	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF ADD FASTENIER	La Pacificie Educatione Education (INC-1-1-1),	I-HAGHENERS INHERMEDIATE • SUPPORTS (INCHES
	WOOD STRUCTURAL PANELS, SUBFLOOR, ROOF AND INTERIOR ISEE TABLE R602.3(3) FOR WOOD STRUC	WALL SHEATHING TO FRAMING! AND PARTICLEBOARD WALL SHEATHING TO WALL FRA	A second and second s second second s second second se	Contraction of the second s
30	3/8"- 1/2"	6D COMMON (2"X 0.113" NAAIL (SUBFLOOR, WALL) + 8D COMMON (2 1/2" X 0.131 NAAIL (ROOF); or RSRS-01 (2 3/8" X 0.113" NAAIL (ROOF) J	6	12 1
31	19/32" - 1"	8D COMMON NAIL (2 1/2" X 0131; or RSRS-01; 2 3/8" X 0.113) NAIL . ROOF J	6	12 r
32	1 1/8" - 1 1/4"	10D COMMON NAIL (3" X 0.1148) NAIL; or 8D (2 1/2" X 0.131") DEFORMED NAIL	6	12
	Ő	THER WALL SHEATHING		
33	1/2" STRUCTURAL CELLULOSE FIBERBOARD SHEATHING	1 1/2" GALVANIZED ROOF NAIIL, 7/16" HEAD DIAMETER, OR 1 1/4" LONG 16GA. STAPLE WITH 7/16" OR 1" CROWN	3	6
34	25/32" STRUCTURAL CELLULOSE FIBERBOARD SHEATHING	1 3/4" GALVANIZED ROOF NAIIL, 7/16" HEAD DIAMETER, OR 1 1/2" LONG 16GA. STAPLE WITH 7/16" OR 1" CROWN	3	6
35	1/2" GYPSUM SHEATHING d	1 1/2" GALVANIZED ROOF NAUL, STAPLE GALVANIZED, 11/2" LONG; 1 1/4" SCRIEWS, TYPE W or S	7	7
36	5/8" GYPSUM SHEATHING d	1 3/4" GALVANIZED ROOF NALIL; STAPLE GALVANIZED, 1 5/8" LONG; 1 5/8" SCR EWS, TYPE W or S	7	7
	WOOD STRUCTURAL PANELS	OMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING		
37	3/4" AND LESS	6D DEFORMED (2" X (0.120") NAIL OR 8D COMMON (2 1/2"" X 0.131") NAIL	6	12
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
39	1 1/8" - 1 1/4"	10D COMMON (3" X 0.148") NAIL OR 8D DEFORMED (2 1//2" X 0.120") NAIL	6	12

TABLE R 602.3(5) SIZE, HEIGHT, AND SPACING OF WOOD STUDS

	BEARING WALLS			an a		NON-BEARING WALLS	
STUD SIZE (IN)	LATERALLY UNSUPPORTED STUDHEIGHT. ((est))	MAXIMUM SPACING WHERE SUPPORTING A ROOF-CEILING ASSEMBLY OR A HABITABLE ATTIC ASSEMBLY, ONLY (inches)	MAXIMUM SPACING WHERE SUPPORTING ONE FLOOR, PLUS A ROOF-CEILING ASSEMBLY OR A HABITABLE ATTIO ASSEMBLY (Inches)	MAXIMUM SPACING WHERE SUPPORTING TWO FLOORS, PILUS A ROOF-CEILINIG ASSEMBLY OR A HABITABLE ATTIO ASSEMBLY (Incide8)	MAXIMUM SPACING WHERE SUPPORTING ONE FLOOR HEIGHTI (Inches)	LATERALLY UNSUPPORTED STUD HEIGHT ₃ (feet)	LATERALLY UNSUPPORTED STUE HEIGHT (feet)
2x3 ^b		*				10	16
2x4	10	24 _c	16 c		24	14	24
3x4	10	24	24	16	24	14	24
2x5	10	24	24		24	16	24
2x6	10	24	24	16	24	20	24

a. LISTED HEIGHTS ARE DISTANCES BETWEEN POINTS OF LATERAL SUPPORT PLACED PERPENDICULAR T(O THE PLANE OF THE WALL. BEARING WALL SHALL BE SHEATHED ON NOT LESS THAN ONE SIDE OR BRIDGING SHALL BE INSTALLED NOT GREATER THAN 4 FEET APART MEASURED VERTICALLY FROM EITHER END OF THE STUD. INCREASES IN UNSUPPORTED HEIGHT ARE PERMITTED WHERE IN COMPLIANCE WITH EXCEPTION 2 OF SECTION R602.3.1 OR DESIGNED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES. b. SHALL NOT BE USED IN EXTERIOR WALLS

c. A HABITABLE ATTIC ASSEMBLY SUPPORTED BY 2X4 STUDS IS LIMITED TO A ROOF SPAN OF 32 FEET. WHERE THE ROOF SPAN EXCEEDS 32 FEET, THE WALL STUDS SHALL BE INCREASED TO 2X6 OR THE STUDS SHALL BE DESIGNED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE.

MINIMUM MECHANICAL EQUIPMENT EFFICIENCY VALUES BY COMPONENT, PER IRC2018 Nº1103.6.1

FANLEGEATION	AIR FLOW RÂTE MINIMUM (CFM)	MINIMUM EFFICACY CFM/WATT	AIR FLOW RATTE MAXIMUM (CFIM)
HRV OR ERV	ANY	1.2 CFM/WATT	ANY
RANGE HOOD	ANY	2.8 CFM/WATT	ANY
IN-LINE FAN	ANY	2.8 CFM/WATT	ANY
BATHROOM UTILITY FAN	10	1.4 CFM/WATT	<90
BATHROOM UTILITY FAN	90	2.8 CFM/WATT	ANY

WHERE THE CEILING IS APPLIED DIRECTLY TO THE BOTTOM OF THE RAFTERS, A /IINIMUM 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 INSULA 1" AIR SPACE (FIB

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

								· · · · · · · · · · · · · · · · · · ·	and the second second				
CLIMATEZONE	FENSTRATION UIFACTOR	Sec.	GLAZED SHGC FENSTRATION	INCLI ATED METAL	INSULATED WOOD DOOR U-VALUE	CHEILING RAVALUE	WOOD FRAMED WALL R:VALUE	IFLOIDR Ravalue	BASEMENT WALL RAVALUE	SLAB R-VALUE & DEPTH		DUCTWORK OVER OUTSIDE R-VALJE	DUCTWORK (ALL OTHER) R-VALUE
4 EXCEPT MARINE	0.32	0.55	0.40	0.60	0.50	49	15	19	10 CONTINUOUS OR 13 CAVITY	R-10, 2 FT.	10 CONTINUOUS OR 13 CAVITY	8	6

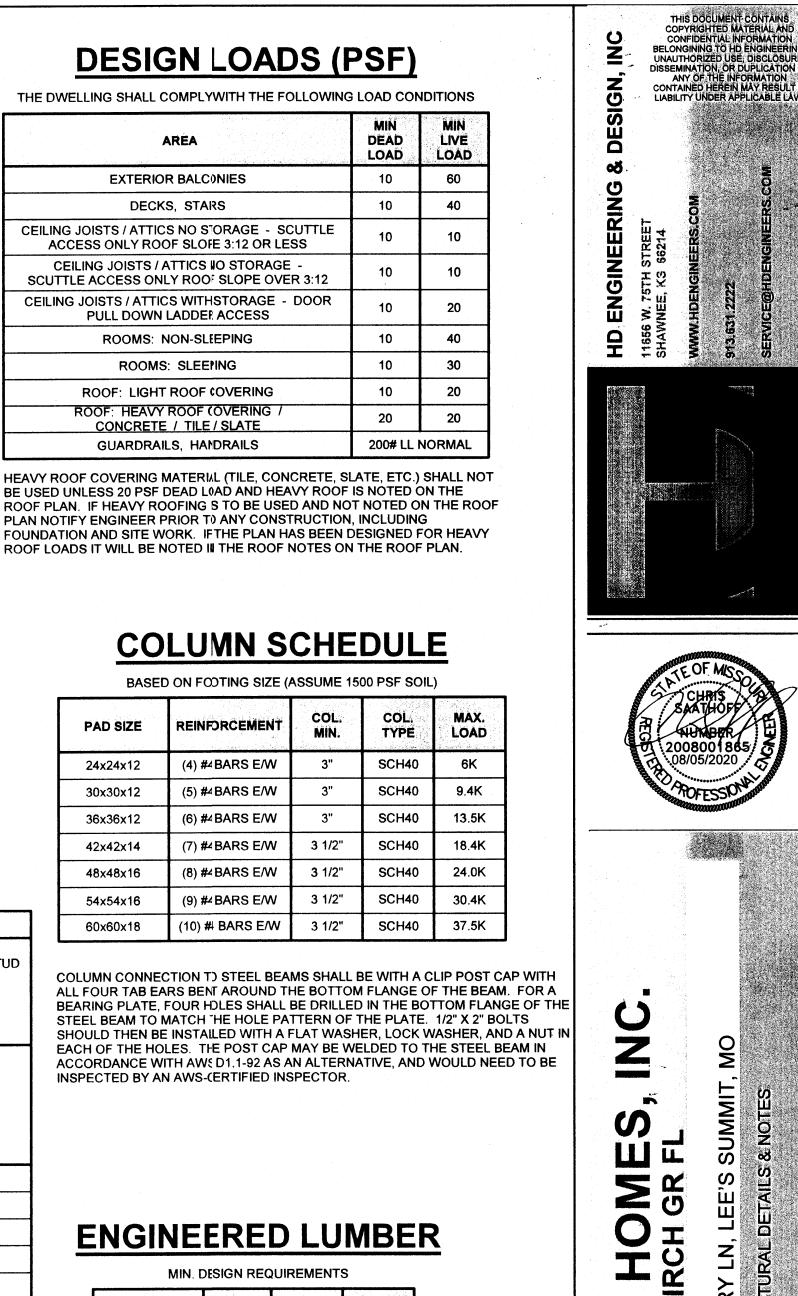
NOTES: 1) BUILDING THERMAL ENVELOPE IS REQUIRED TO BE SEALED WITH AN AIR BARRIER AS PER N1102.44.1 OF THE 2018 IRC 2) RECESSED LIGHTING SHALL BE SEALED TO PREVENT LEAKAGE BETWEEN THE CONDITIONED SPACE AND UNCONDITIONED SPACE 3) ALL DUCTS, AIR HANDLERS, FILTER BOXES, AND BUILDING CAVITIES USED AS DUCTS SHALL BE SEALED AS PER N1103.2 OF THE 2018 IRC

> 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 09/22/2020 RESIDENTIAL CONSTRUCTION AND A THOROUGH UNDERSTANDING OF THE INTERNATIONAL RESIDENTIAL CODE (IRC). THE CONTRACTOR WARRANTS TO HD ENGINEERING & DESIGN THAT HEPOSSESSES 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 HOMEOWNER 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 SOPHISTCATION. 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 THESEPLANS 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 N FIT, FORM, DIMENSION AND QUANTITY. CHANGES MADE FROM THE PLANS WITHOUT THE CONSENT OF HD ENGINEERINIG & 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 EINGINEERING & DESIGN OR À 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.

CATHEDRAL / VAULTED CEILING FRAMING AND INSULATION

MINIMUM R-38 INSULATION REQUIRED, SEE DETAIL 11/S-1.2

TION VALUE	2x6	2x8	2x'0	2x12
BERGLASS)	R-13, 3 1/2"	R-19, 6 1/4"	CONDENSEE R-38, 8 1/4"	R-38, 10 1/4"



ENGINEERED LUMBER

MIN. DESIGN REQUIREMENTS

DESIGN LOADS (PSF)

AREA

EXTERIOR BALCONIES

DECKS, STARS

CEILING JOISTS / ATTICS NO STORAGE - SCUTTLE

ACCESS ONLY ROOF SLOFE 3:12 OR LESS CEILING JOISTS / ATTICS NO STORAGE -

SCUTTLE ACCESS ONLY ROOF SLOPE OVER 3:12 CEILING JOISTS / ATTICS WITHSTORAGE - DOOR

PULL DOWN LADDER ACCESS

ROOMS: NON-SLEEPING ROOMS: SLEEPING

ROOF: LIGHT ROOF COVERING ROOF: HEAVY ROOF (OVERING

CONCRETE / TILE / SLATE GUARDRAILS, HANDRAILS

PAD SIZE

24x24x12

30x30x12

36x36x12

42x42x14

48x48x16

54x54x16

60x60x18

PLAN NOTIFY ENGINEER PRIOR TO ANY CONSTRUCTION, INCLUDING

REINFORCEMEN

4) #4 BARS E/W

5) #4 BARS E/M

6) #4 BARS E/W

7) #4 BARS E/W

8) #4 BARS E/M

9) #4 BARS E/W

10) # BARS E/W

INSPECTED BY AN AWS-CERTIFIED INSPECTOR.

COLUMN SCHEDULE

BASED ON FOOTING SIZE (ASSUME 1500 PSF SOIL)

COL.

MIN.

3"

3 1/2"

3 1/2"

3 1/2"

3 1/2"

MIN DEAD LOAD

10

10

10

10

10

10

10

10

20

COL. TYPE

SCH40

SCH40

SCH40

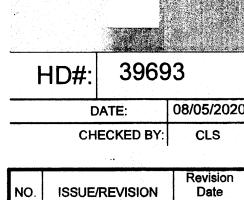
SCH40

SCH40

SCH40

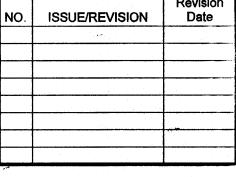
SCH40

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



PEN B

S

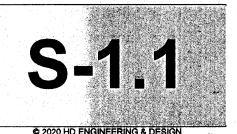


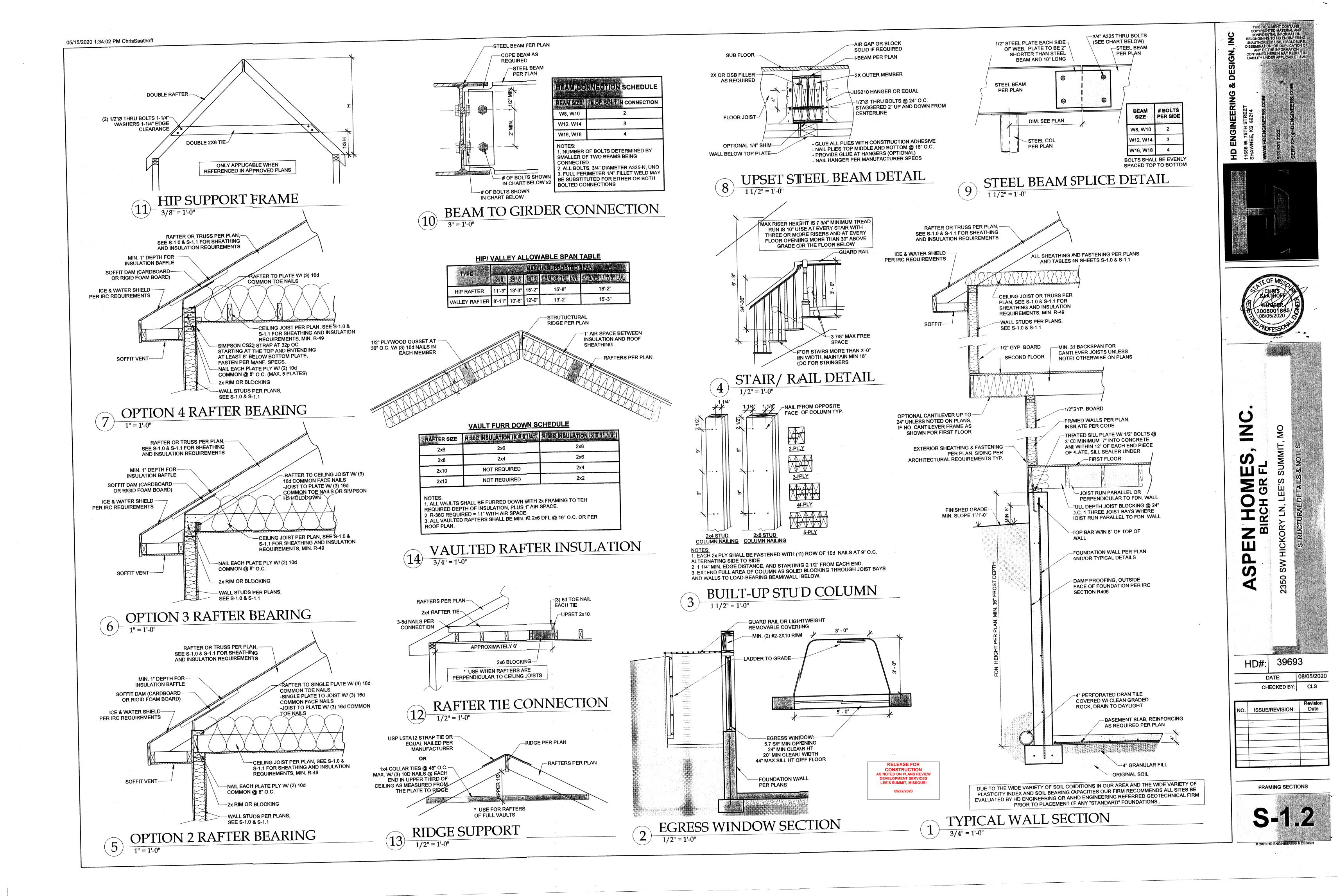
GENERAL NOTES

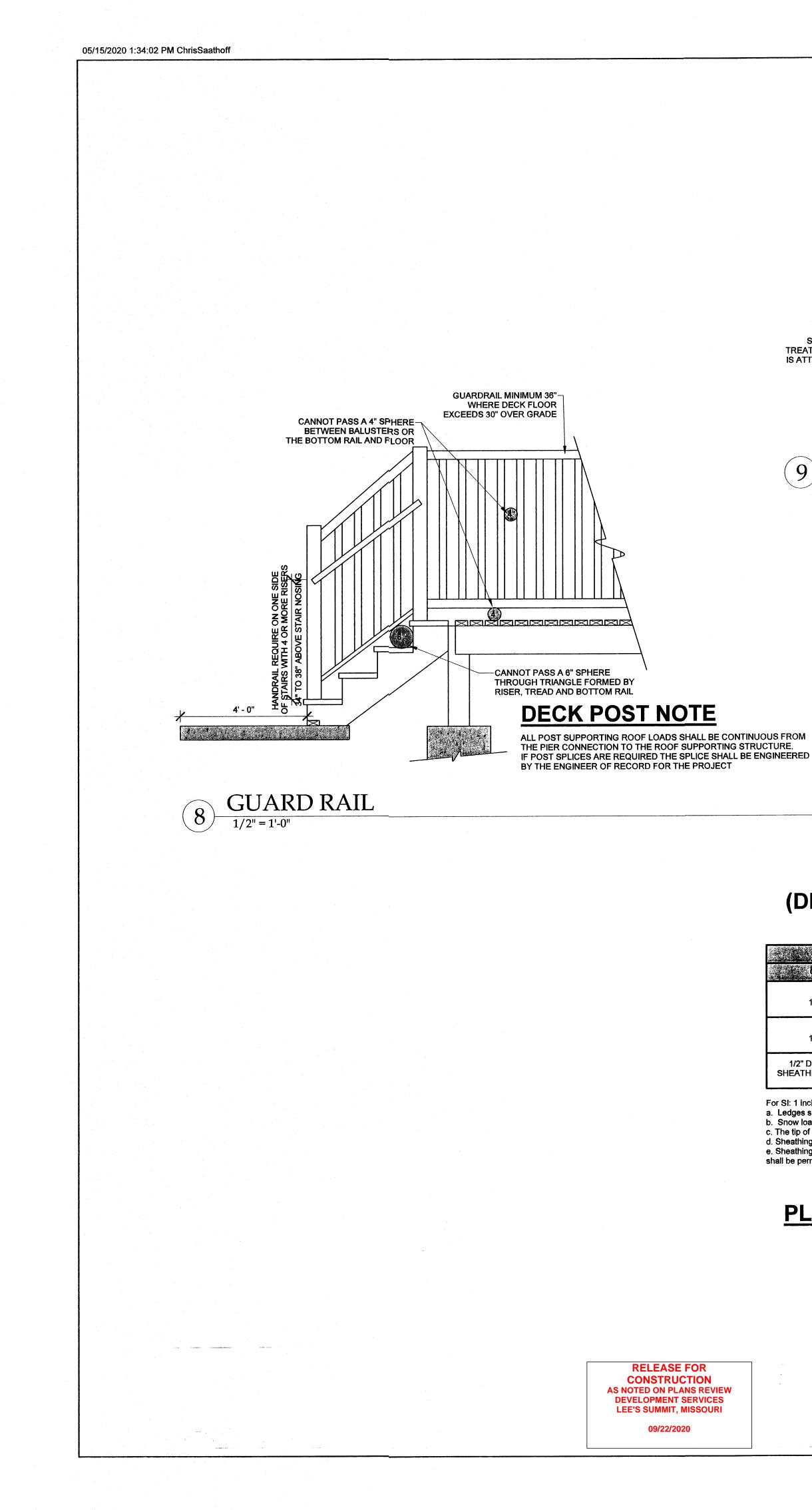
RELEASE FOR CONSTRUCTION

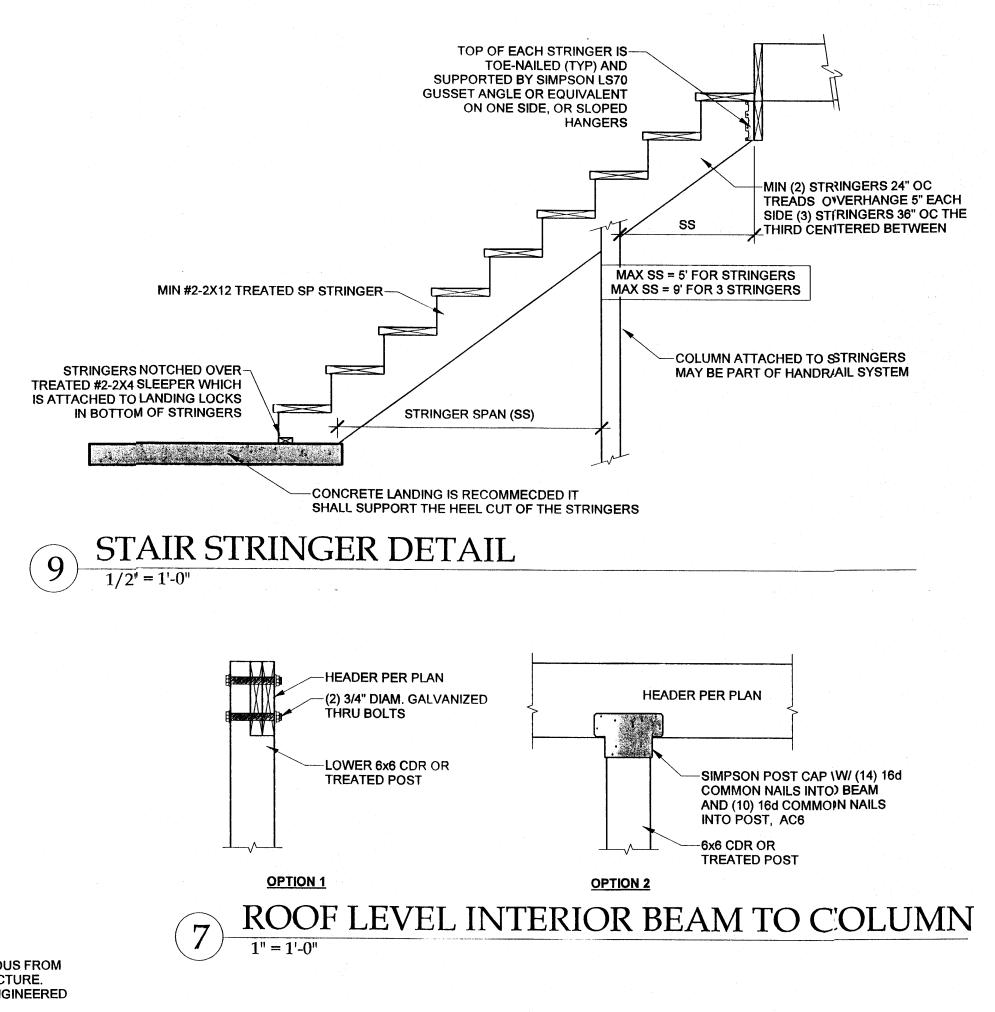
AS NOTED ON PLANS REVIEV

DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI









<u>TABLE IRC2018 R507.9.1.3(1)</u> <u>DECK LEDGER CONNECTION TO BAND JOIS</u>T ^{*.b} (DECK LIVE LOAD = 40 PSF, DECK HEAD LOAD = 10 PSF, SNOW LOAD < 40 PSF)

JOIST SPAN	e and less	6'-1" TO 8'	8'-1" TO 10'	10'-1" †0 12'	-{ 2 '-1" TO 14'	1441-1016	16'4" TO 18'
CONNECTION DETAILS			ON-CENTE	R SPACING OF F	ASTENERS ^{di S}		
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" \$TACKED WASHERS*	36	36	29	24	21	18	16

For SI: 1 inch = 25.4mm, 1 foot = 304.8mm, 1 pound per square foot = 0.0479 kPa

a. Ledges shall be flashed in accordance with Section R703.4 to prevent water from contacting the house band joist. b. Snow load shall not be assumed to act concurrently with live load.

c. The tip of the lag screw shall fully extend beyond the inside face of the band joist.

d. Sheathing shall be wood structural panel or solid sawn lumber.

e. Sheathing shall be permitted to be wood structural panel, gypsum board, fiberboard lumber or foam sheathing. Up to 1/2" thinckness of stacked wasshers shall be permitted to substitute for you to 1/2" of allowable sheathing thickness where combined with wood structural panel or lumbers sheathing.

TABLE IRC2018 R507.9.1.3(2) PLACEMENT OF LAG SCEWS AND BOLT IN **DECK LEDGERS AND BAND JOISTS**

MINIMUME	ND AND EDGE D	STANCES AND SPA	CING BETWEEN	ROWS
and States of States	TOPEDCE	BOTTOM EDGE	ENDS	ROW SPACING
LEDGER *	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

For SI: 1 inch = 25.4mm.

a. Lag screws of bolts shal lbe staggered from the top to the bottom along the horizontal run of the deck ledger in accordance with Figure R507.9.1.3(1)

b. Maximum 5 inces c. For engineered rim joists, the manufacturer's recommendations shall govern.

d. The minimum distances from bottom row of lag screws or bolts to the top of the ledger shall be in accordance with Figure R507.9.1.3(1)

THE HOUSE RIM W/ (3) - 16d NAILS 2x TREATED LEDGER

1X4 TREATED SPACER NAILED TO-

TREATED DECK JOIST-PER PLAN 1/2" CORROSION RESISTANT LAG SCREWS OR BOLT MUST PENETRATE HOUSE RIM SEE **R507.2 THIS SHEET**

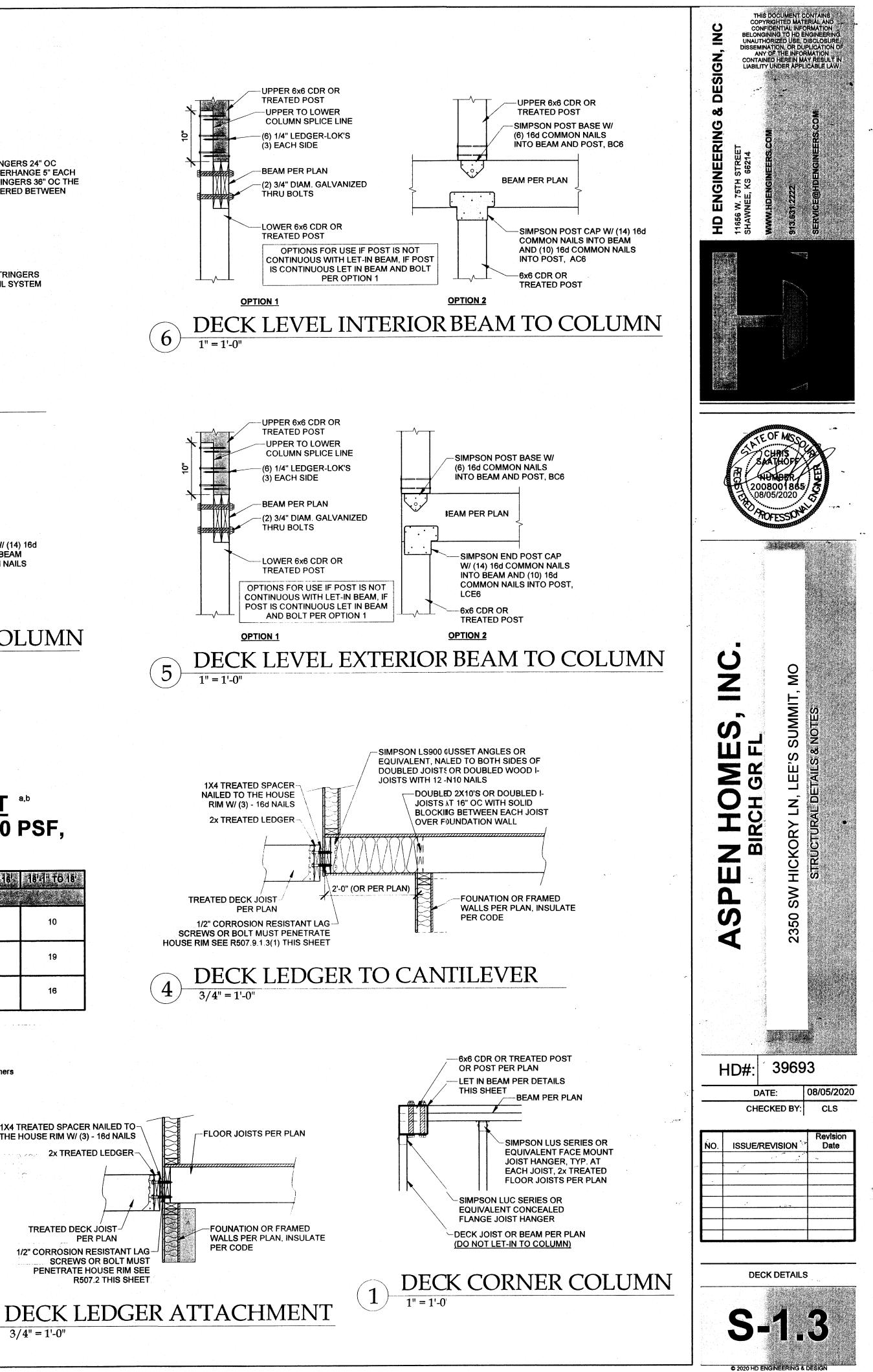
3/4'' = 1'-0''

2

(4)

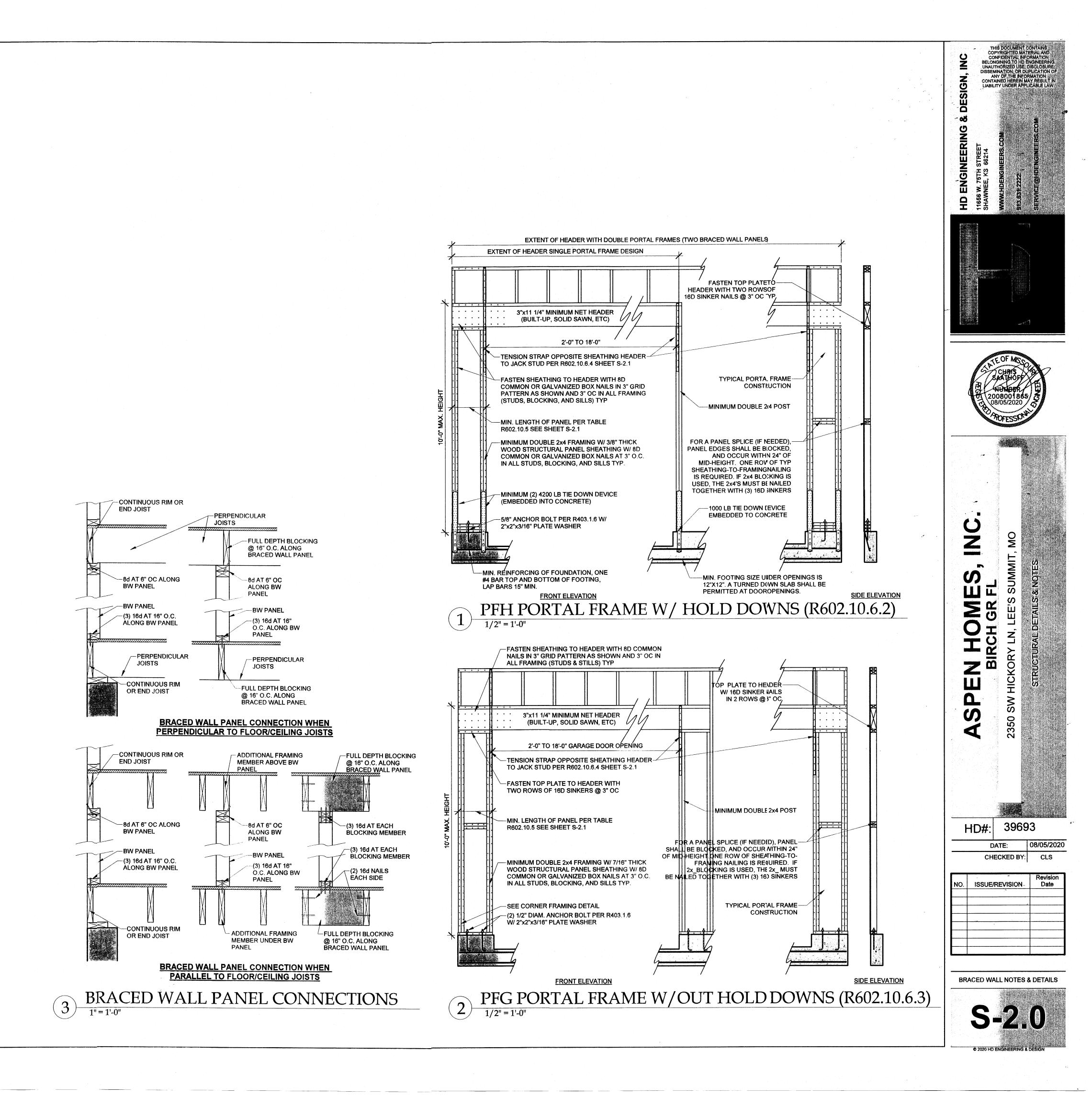
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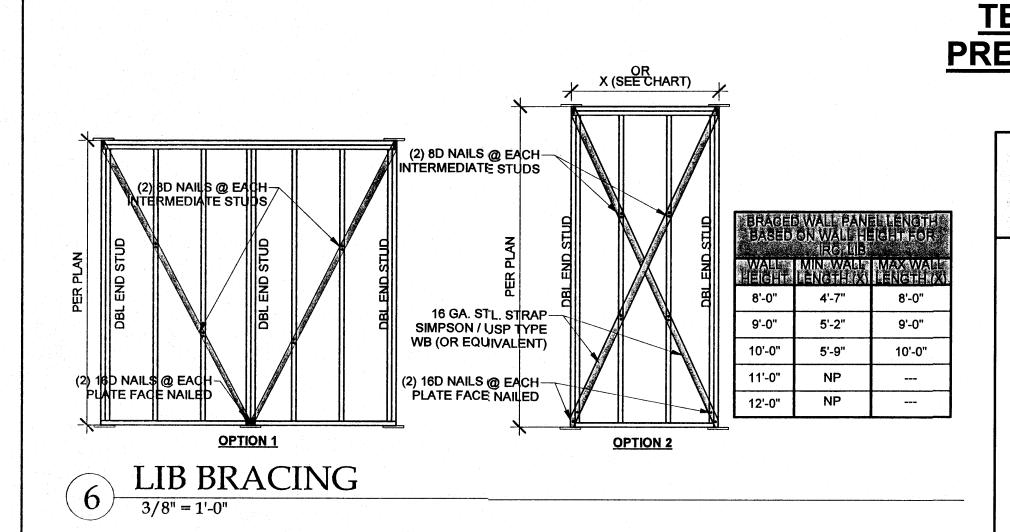
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RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

09/22/2020





FOR IRC CODE PRESCRIPTIVE METHOD TABLE R602.10.5 MINIMUM LENGTH OF BRACED WALL PANELS

					LU		
				HA Lilehili			
	imentiod) (Seenvallen; Collida)		W		thr o		CONTRIBUTING LENCTH (INCHES)
		WAREN	Mathi	kula tak	ALM-ELEN	12,6857	(Wonied)
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	55	62	69	NP	NP	ACTUAL ^b
ABW	SDC A, B, AND C ULTIMATE DESIGN WIND SPEED<140	28	32	34	38	42	
710 VV	SDC D ₀ ,D ₁ ,D ₂ ULTIMATE DESIGN WIND SPEED<140	32	32	34	NP	NP	48
PFH	SUPPORTING ROOF ONLY	16	16	16	NOTE C	NOTE C	48
ГГП	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	ACTUAL
	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	30	30	33	36	
	84	35	32	32	33	36	
	88	38	35	33	33	36	
	92	43	37	35	35	36	
CS-WSP,	96	48	41	38	36	36	
CS-SFB	100	-	44	40	38	38	ACTOAL
	104	-	49	43	40	39	
an a	108	-	54	46	43	41	
	112	-	-	50	45	43	
	116	-	-	55	48	45	
	120	-	-	60	52	48	
	124	-	-	-	56	51	
	128	-	-	-	61	54	
ana Maria	132	-	-	-	66	58	
	136	-	-	-	-	62	
	140	-	-	-	-	66	
	144	-	-	-	-	72	

a. LINEAR INTERPOLATION SHALL BE PERMITTED
b. USE THE ACTUAL LENGTH WHEN IT IS GREATER THAN OR EQUAL TO THE MINIMUM LENGTH

d. MAX. OPENING HEIGHT FOR PFH IS 10' IN ACCORDANCE WITH R602.10.6.2, WALL HEIGHT MAY BE INCREASED TO 12' WITH PONY WALL.
MAX. OPENING HEIGHT FOR PFG IS 10' IN ACCORDANCE WITH R602.10.6.3, WALL HEIGHT MAY BE INCREASED TO 12' WITH PONY WALL.
MAX. OPENING HEIGHT FOR CS-PF IS 10' IN ACCORDANCE WITH R602.10.6.4, WALL HEIGHT MAY BE INCREASED TO 12' WITH PONY WALL.

BRACED WALL PRESCRIPTIVE METHOD:

CONTINOUS EXTERIOR SHEATHING (CS-WSP) PER WSP METHOD (BELOW) UNLESS OTHERWISE NOTED ON THE PLAN

WOOD STRUCUTRAL PANEL SHEATHING WITH A THICKNESS NOT LESS THAN 3/8" WITH MINIMUM SPAN

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.

(NOTE: FRAMING MEMBERS 16" O.C. MAX, UNBLOCKED, AND W/ SHEATHING APPLIED DIRECTLY TO FRAMING

EXTERIOR BRACED WALL METHOD: (SEE ON THIS SHEET) WSP METHOD:

SPACING WITH 8d COMMON NAILS @ 6" O.C. EDGES AND 12" O.C. IN FIELD

 \times

INTERIOR BRACED WALLS (SEE ON THIS SHEET)

<u>GB METHOD:</u> 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) ÓR

LIB METHOD

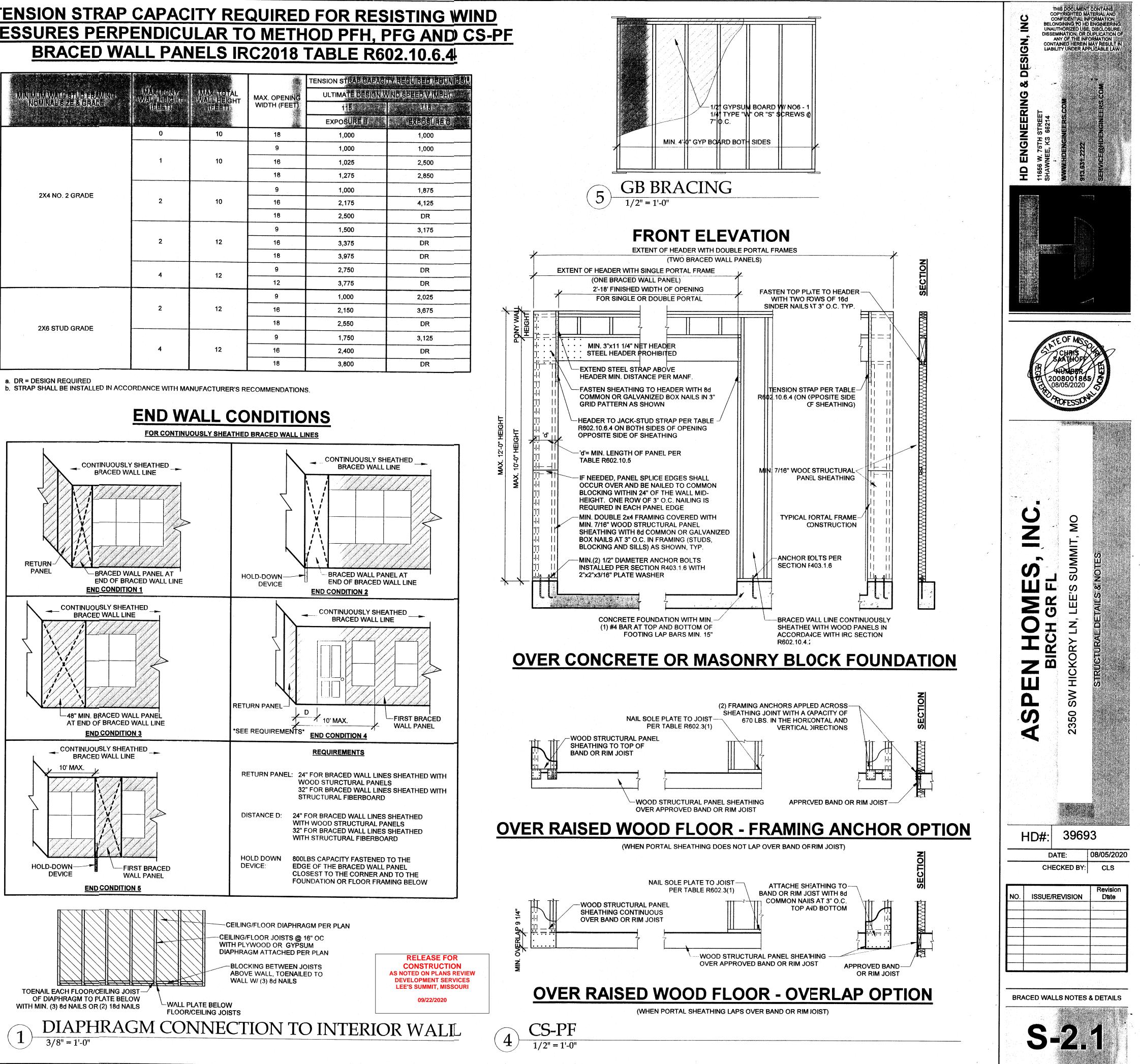
MEMBERS)

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.

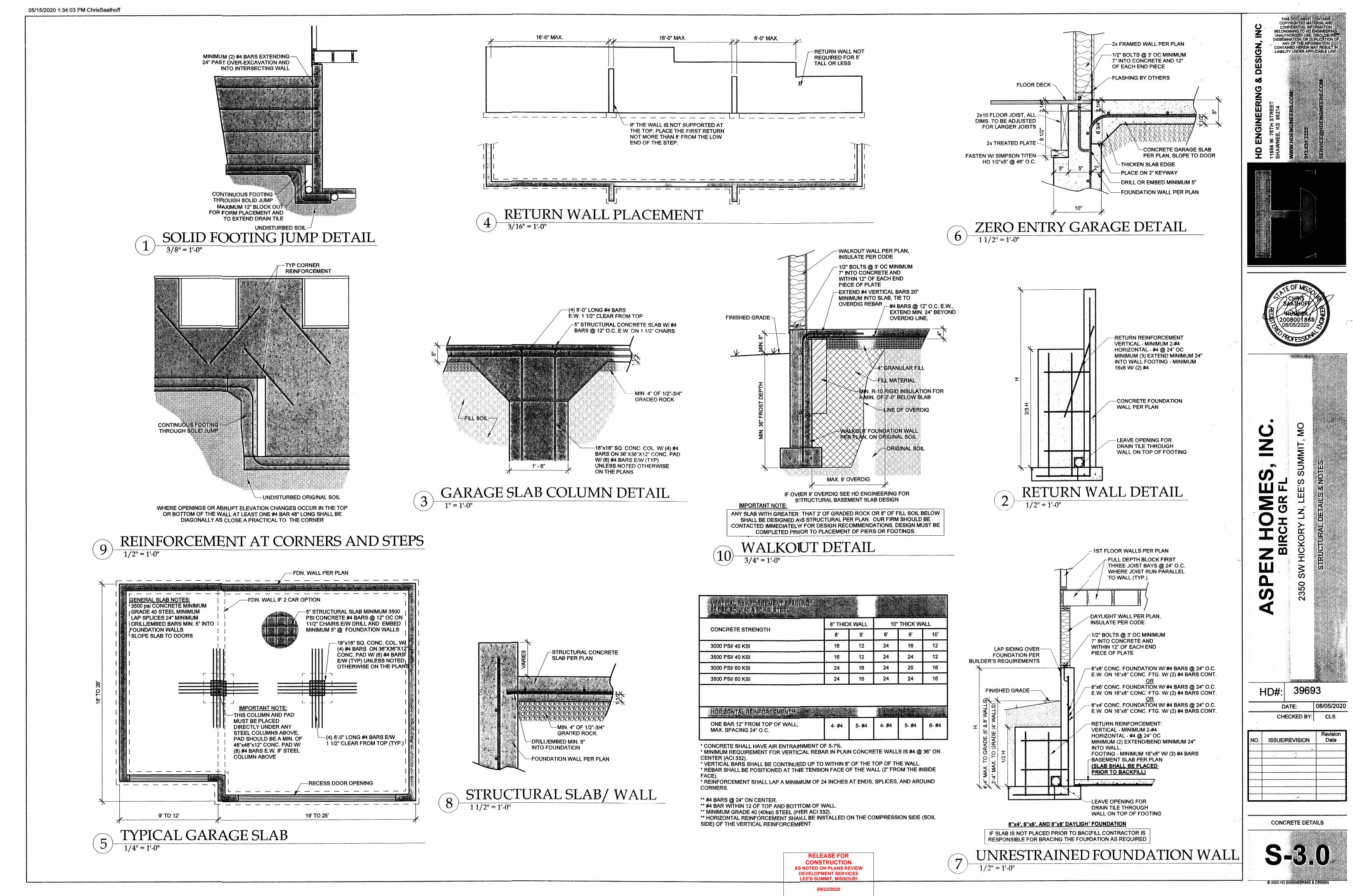
TENSION STRAP CAPACITY REQUIRED FOR RESISTING WIND PRESSURES PERPENDICULAR TO METHOD PFH, PFG AND CS-PF BRACED WALL PANELS IRC2018 TABLE R602.10.6.4

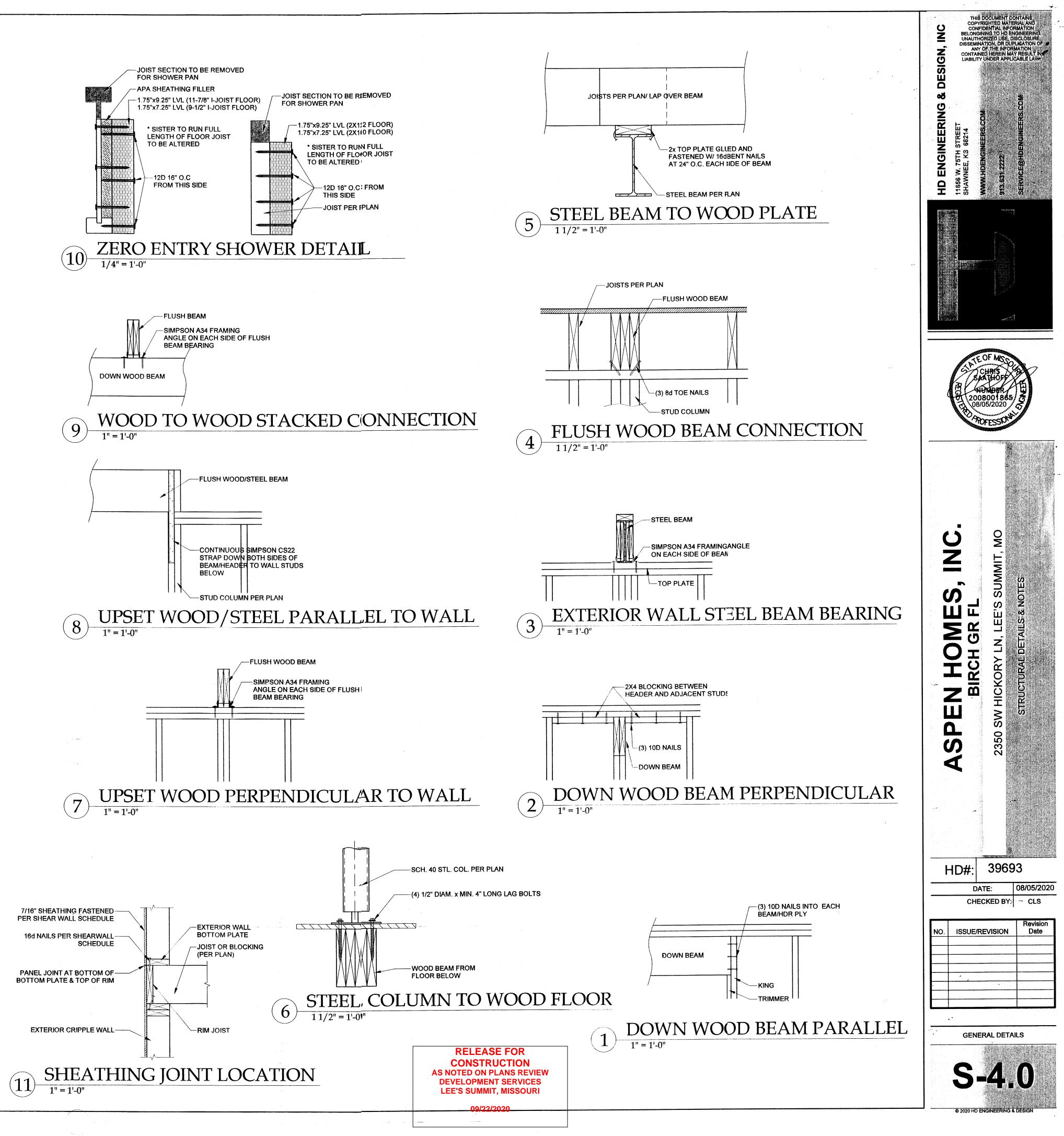
				and the second	ne allectulikiebrizciji i idstr		
MINIMUM WALLSTUD FRAMING NOMINAL SIZE & GRADE	AMAX, IPIONN AWAIGI AHEIGER (FEED)	MAX, TOTAL WALL HEIGHT (FEET)	MAX. OPENING	ULTIMATE DESIGN WIND SPEED V (MPH)			
	(deleta)	(FEET)	WIDTH (FEET)	115	118		
				EXPOSURE	EXPOSURE C		
	0	10	18	1,000	1,000		
			9	1,000	1,000		
	· 1 ·	10	16	1,025	2,500		
			18	1,275	2,850		
2X4 NO. 2 GRADE			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	3,375	DR		
			18	3,975	DR		
	4	12	9	2,750	DR		
		12	12	3,775	DR		
			9	1,000	2,025		
	2	12	16	2,150	3,675		
2X6 STUD GRADE			18	2,550	DR		
			9	1,750	3,125		
	4	12	16	2,400	DR		
			18	3,800	DR		

3,800 DR **END WALL CONDITIONS** FOR CONTINUOUSLY SHEATHED BRACED WALL LINES



C 2020 HD ENGINE





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