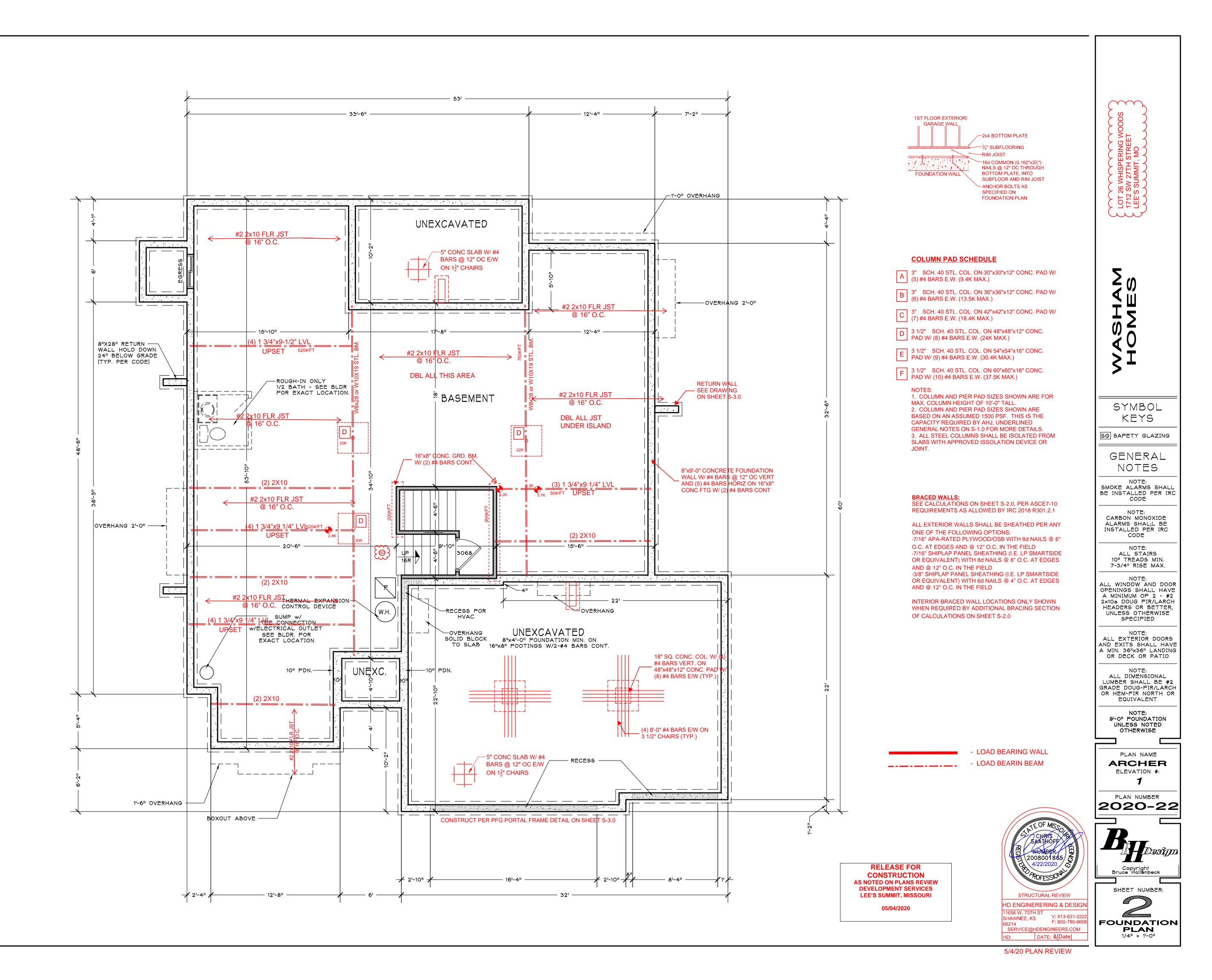
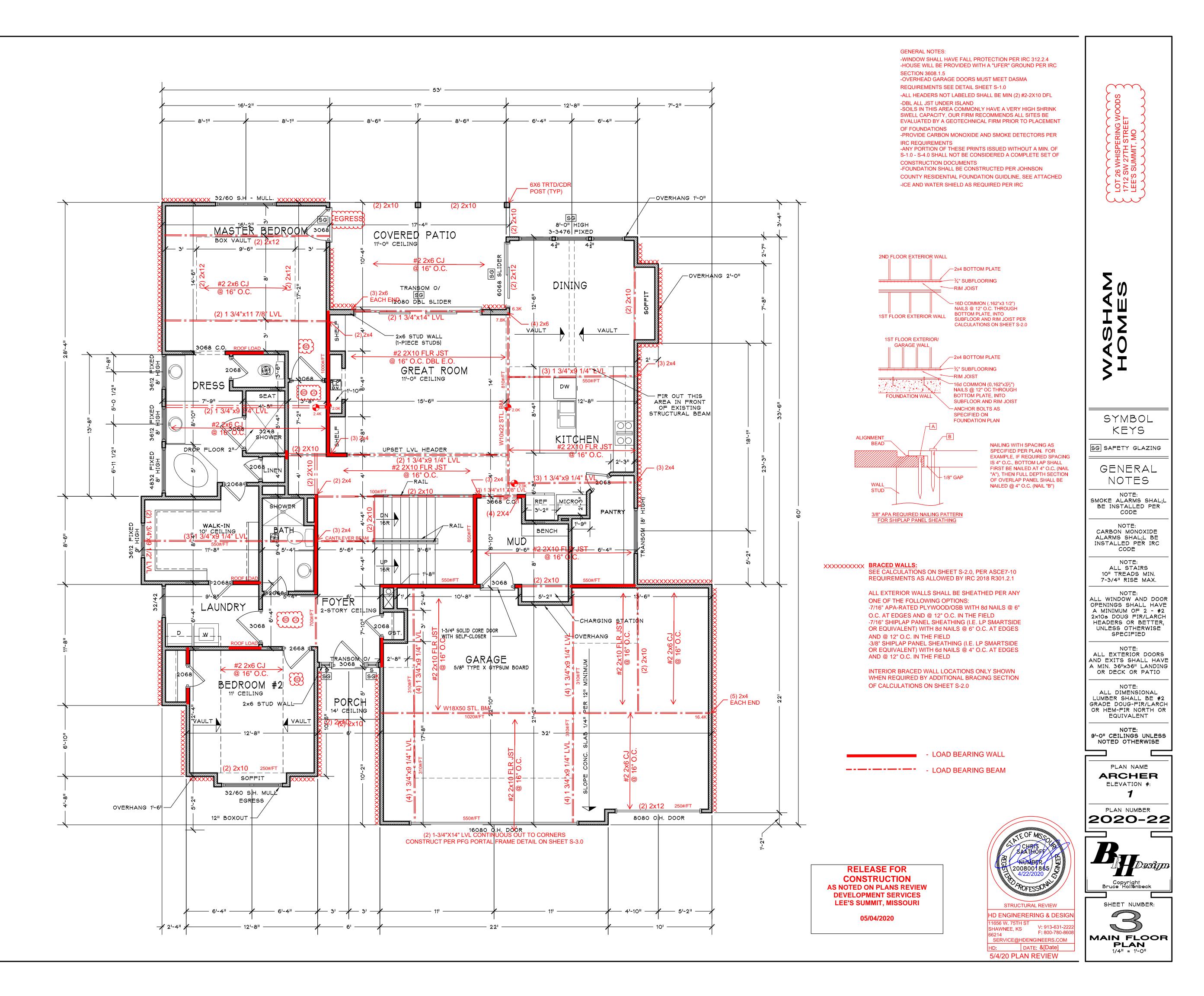


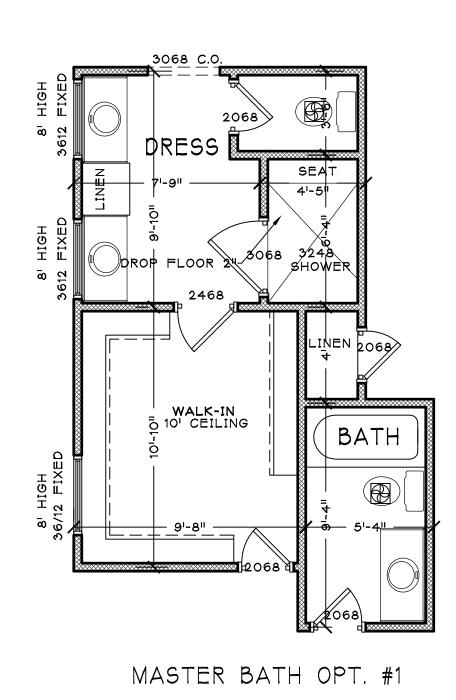
	Plan Statistics
	FINISHED: BSMT 63 MFP 1841
	UFP 1016 TOTAL FINIGHED 2926
	UNFINISHED: BSMT 1580 STORM SHELTER N/R GARAGE 703
	FRONT PORCH 30 COV, PORCH/DECK 111
	* GARAGE AUTOS 3
	* BEDROOMS 4 * HALF BATHS 0 * FULL BATHS 4 N/R - NOT REQUIRED BY CODE
	 Includes optional areas
	Σω
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	040
	MASHA HOME
	(s
	SPERING WOODS TH STREET MIT, MO
	SPERING W H STREET IT, MO
	LOT 26 V 1712 SW LEE'S SU
	متتك
	GENERAL
	NOTES
	SOFFIT VENTS: PER LOCAL CODE
	ROOF VENTS: PER LOCAL CODE
	FLASH ALL DOOR AND WINDOW HEADS.
	ALL EXTERIOR TRIM SHALL BE 2×6 UNLESS NOTED OTHERWISE
	PLAN NAME
	ARCHER ELEVATION #: 1
	PLAN NUMBER 2020-22
TEOF MS OF M	
AUMBER 2008001865 4/22/2020 STRUCTURAL REVIEW	Copyright Bruce Hollenbeck
STRUCTURAL REVIEW	SHEET NUMBER:
HD ENGINERERING & DESIGN	
SHAWNEE, KS V: 913-631-2222 66214 F: 800-780-8608 SERVICE@HDENGINEERS.COM HD: 39099 DATE: 4/22/2020	FRONT ELEV. 1/4" = 1'-0"
5/4/20 PLAN REVIEW	

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 05/04/2020



P:\2020\2020-22 WASHAM - ARCHER E1\FL00.DW

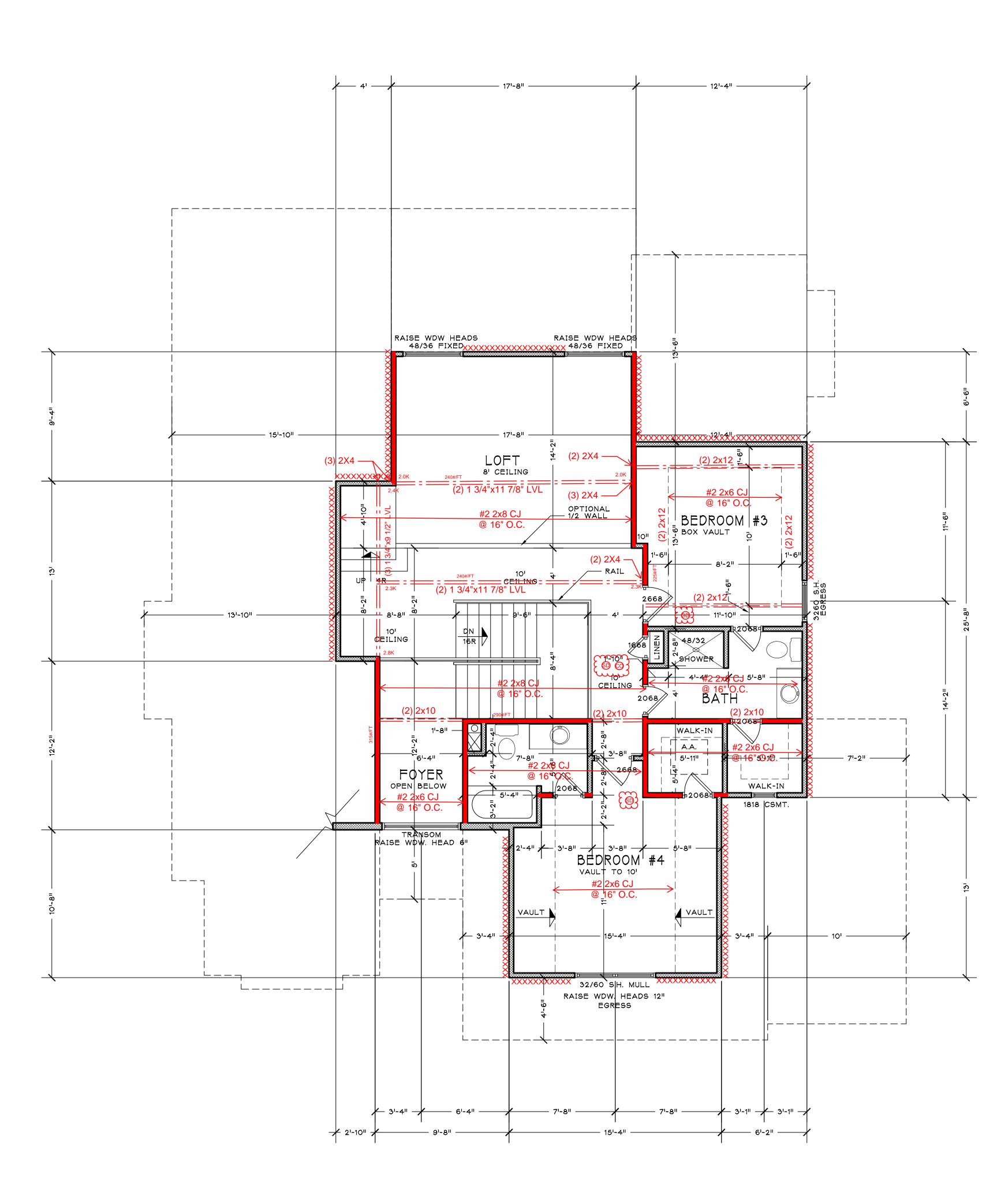


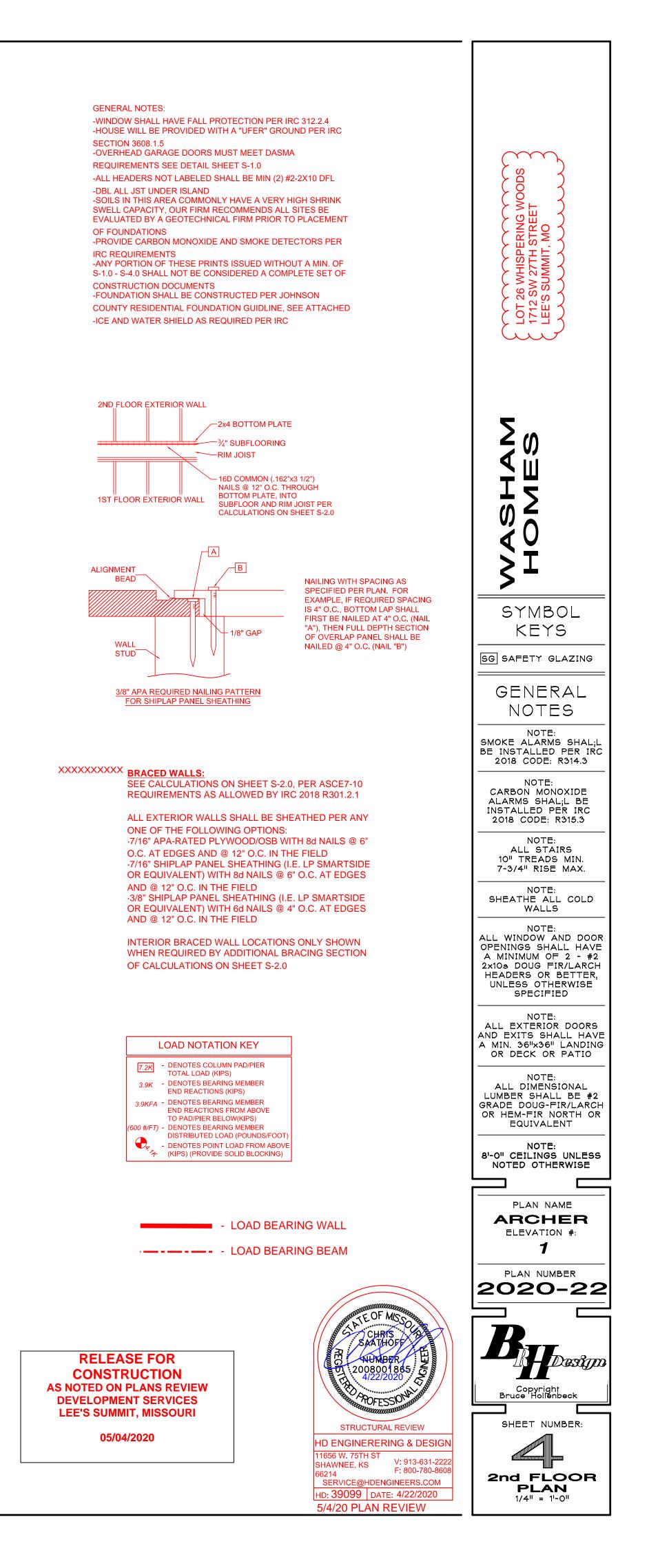


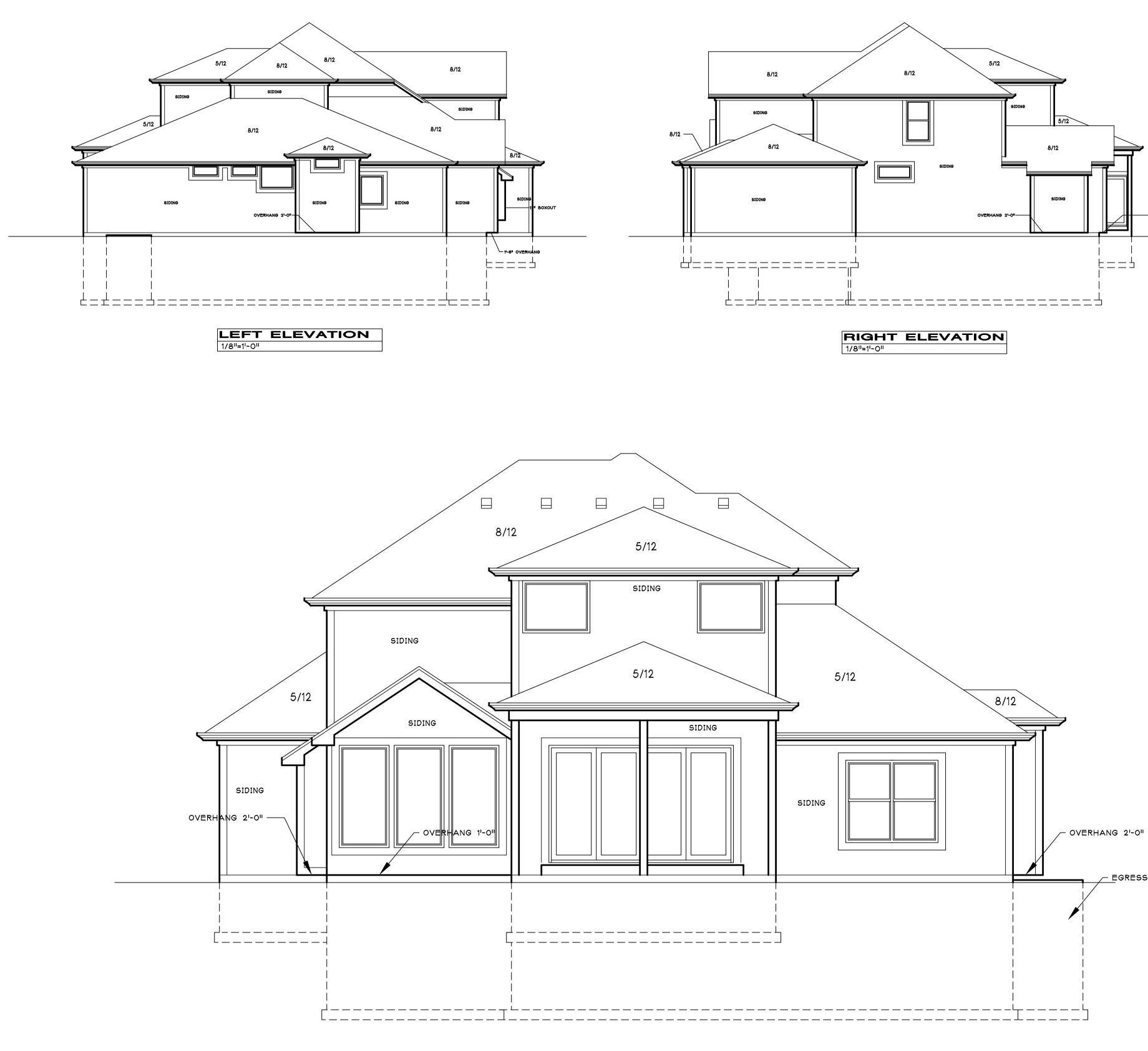
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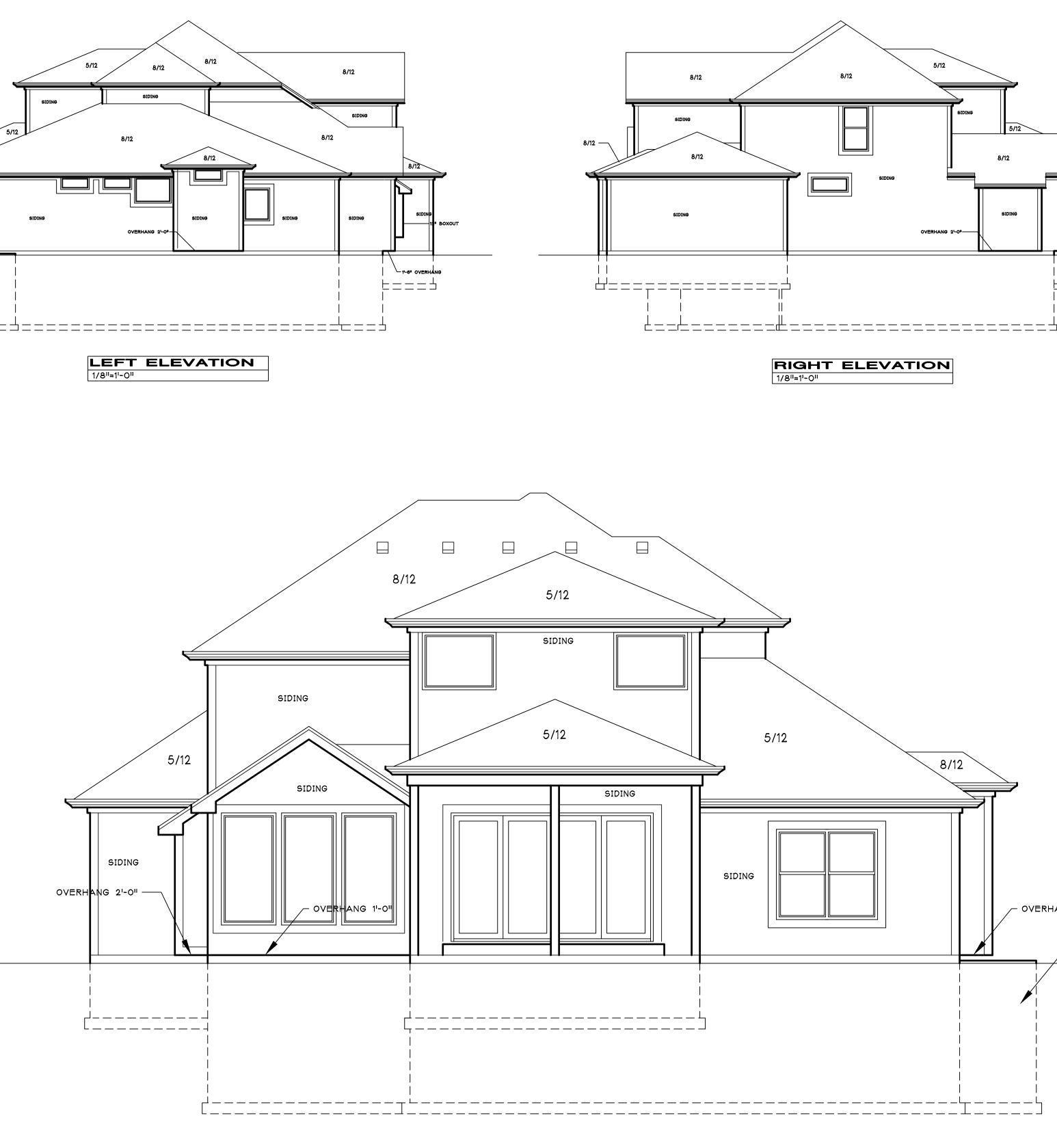
April 14, 2020





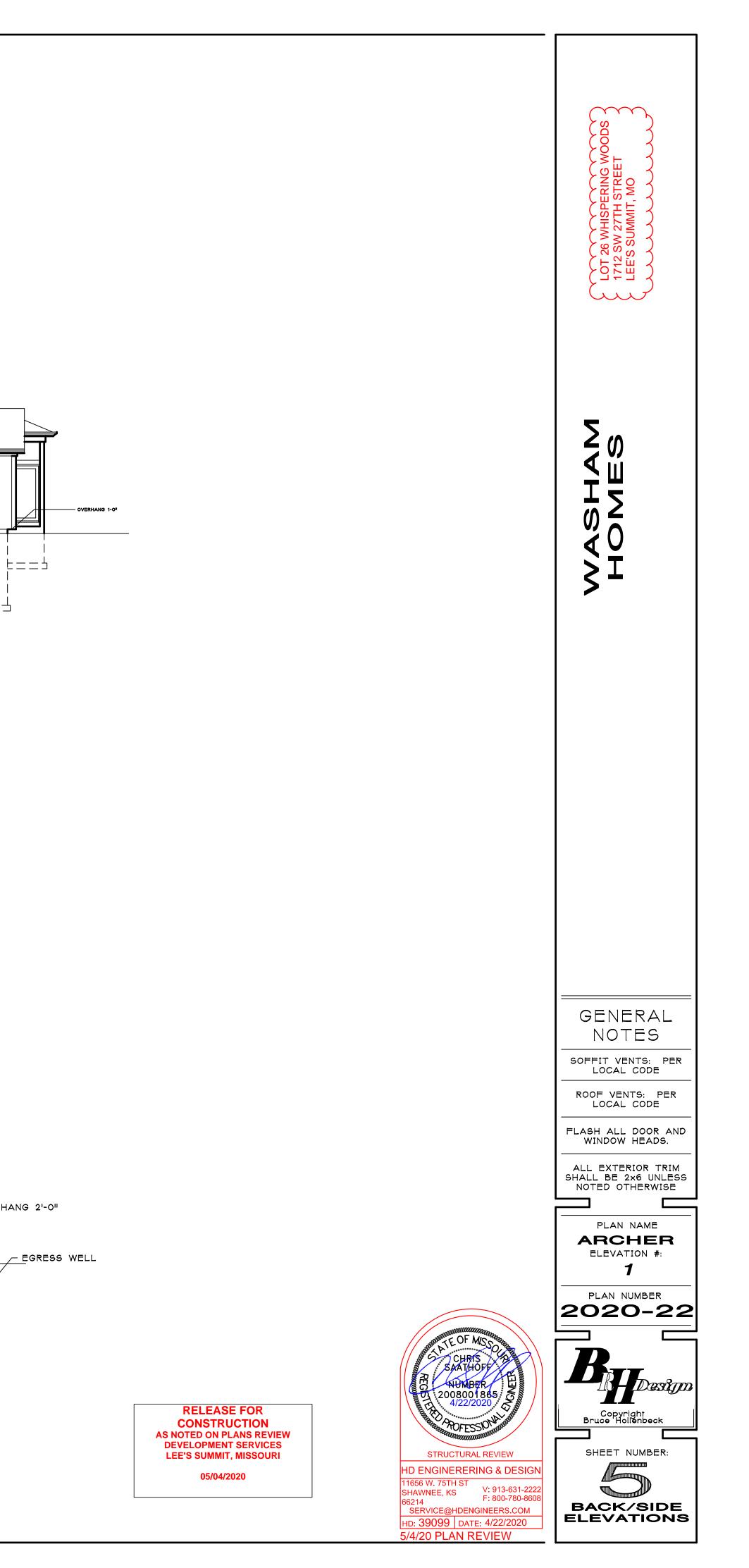




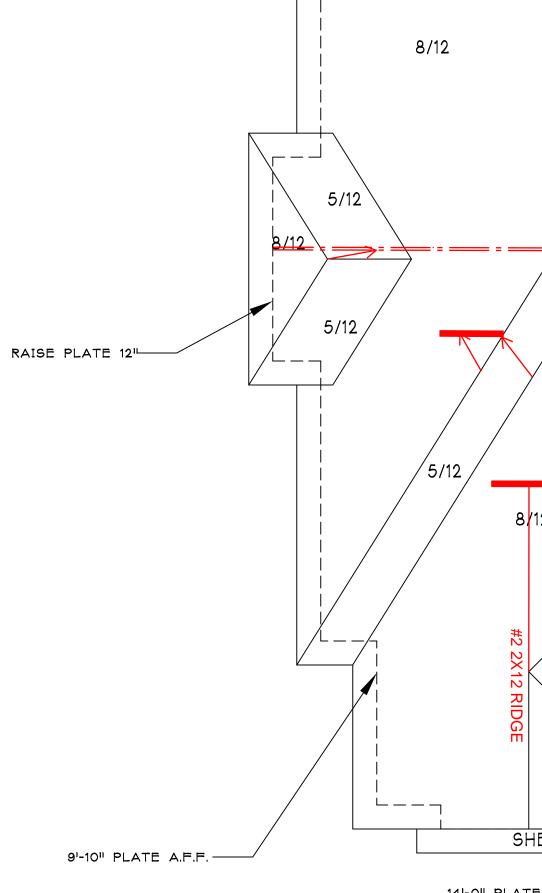


April 14, 2020

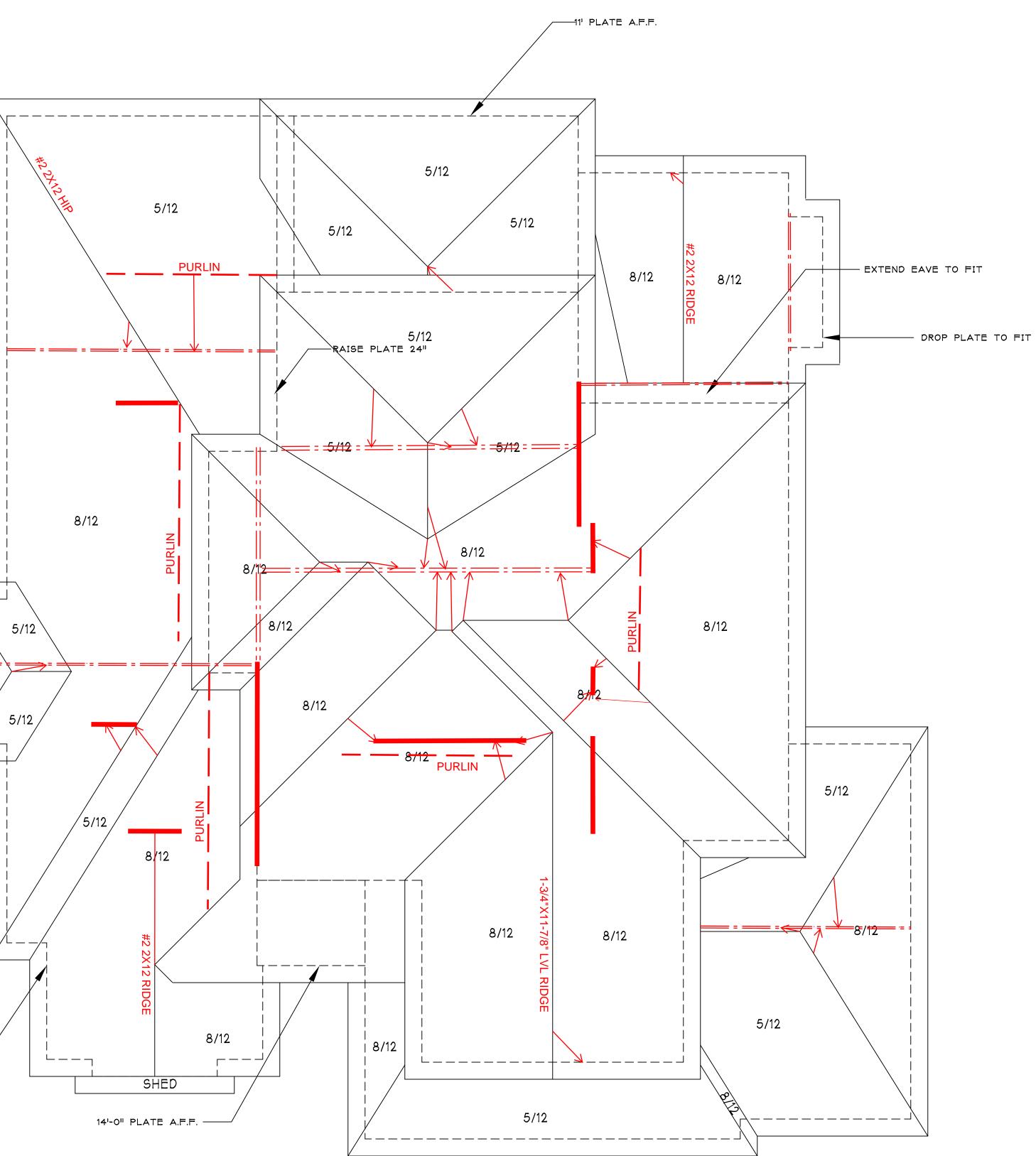
BACK ELEVATION



April 14, 2020



9'-10" PLATE A.F.F.



<u>NOTES</u>

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

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

SEE SPAN CHA	RIS BELUW	
CODE MINIMUM		
RAFTERS	SPACING	MAX HORIZONTAL CLEARSPAN
#2-2x6	@24" O.C.	11'-11"

TUTILITO	01/101110					
#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"				
DTE: CODE MINIMUM L/240 DEFLECTION						

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 (1) 2x6 & (1) 2x8 (2) 2x6 & (1) 2x8 12'-0" 20'-0" 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

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

05/04/2020



STRUCTURAL REVIEW

HD ENGINERERING & DESIGN 11656 W. 75TH ST SHAWNEE, KS 66214 V: 913-631-2222 F: 800-780-8608 66214 F: 800-780-8608 SERVICE@HDENGINEERS.COM HD: 39099 DATE: 4/22/2020

5/4/20 PLAN REVIEW

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WASHAM HOMES

GENERAL NOTES

SOFFIT VENTS: PER LOCAL CODE

ROOF VENTS: PER LOCAL CODE

COMPOSITION ROOF UNLESS NOTED OTHERWISE.

PLAN NAME ARCHER ELEVATION #: 1

PLAN NUMBER 2020-22





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

ALLOWABLE LOADS FOR PNEUMATIC OR **MECHANICALLY DRIVEN NAILS AND STAPLES**

			PENETRATION	AL	LOWABLE LO	ADS (IN POUNI	DS)
FASTENER DESCRIPTION	NAIL GUN NAILS/	WIRE GA.	REQUIRED INTO MAIN MEMBER FOR LATERAL	LATERAL	STRENGTH	WITHDRAWA	L STRENGTH
	WIRE DIA.	• <i>••••</i>	STRENGTH (IN.)	SP	DF/L	SP	DF/L
16 GA. STAPLE	.063	16	1	51		36	32
15 GA. STAPLE	.072	15	1	64		42	37
14 GA. STAPLE	.080	14	1	75		46	41
6d COOLER NAIL	.092	13	1	46		27	23
6d SINKER NAIL	.092	13	1	40		21	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	.120	11	1-3/8	89	81	41	32
8d RING SHANK NAIL	. 120		1-3/0	09	01	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							
16d Sinker Nails	.148	9	1-5/8	128	118	46	36
20d Box Nails	-			_	-		
30d Box Nails							
16d Ring Shank Nails							
16d Screw Shank Nails	.148	9	1-3/4	128	118	50	40
16d Screw Shank Nalls 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	477		0.4/0	470	400		40
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							

SHEATHING SCHEDULE

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

BUILDING COMPONENT	E MATERIAL I FASTENING						
ROOF SHEATHING	7/16" PLYWOOD	16 GA X 1 3/4" STAPLES @ 6" OC EDGES & 12" OC IN FIELD					
NOOF 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					

SEALS.

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FRAME FASTENING SCHEDULE

BUILDING COMPONENT	FASTEN TO	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					
EILING JOISTS	WHERE CLG JST RUN PARALLEL TO RAFTERS FAC	ENAIL TO RAFTERS W/ (3) 10D MINIMUM					
	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					
	BEARING	TOENAIL W/ (2) 18D @ EACH END					
	RIM JOIST TO SILL OR TOP PLATE	TOENAIL W/ 8D COMMON OR 10D BOX NAILS @ 6" OC					
LOOR 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 A 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					
	DOUBLE TOP PLATE LAP SPLICE	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	SOLE 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	1 3/4" - 2" ROOFING NAILS @ 12" OC MAX.					

* 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

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.

1. PLANS SHALL COMPLY WITH THE 2018 INTERNATIONAL RESIDENTIAL CODE, 2018 IECC, 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.

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 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

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 BOTTOM EDGE IS WITHIN 60" OF THE FLOOR, WALLS ENCLOSING STAIRWAYS AND LANDINGS WHERE THE GLAZING IS WITHIN 60" OF THE TOP OR BOTTOM OF THE STAIR, ENCLOSURES FOR SPAS, TUBS, SHOWERS AND WHIRLPOOLS, GLAZING IN FIXED OR OPERABLE PANELS EXCEEDING 9 S.F. AND WHOSE BOTTOM EDGE IS LESS THAN 18" ABOVE THE FLOOR OR WALKING SURFACE WITHIN 36" 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 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.

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 (2) 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. (SEE S-6.0 FOR MORE DETAILS)

1. ENCLOSED ATTICS SHALL HAVE CROSS VENTILATION FOR EACH SEPARATE SPACE BY VENTILATING OPENINGS PROTECTED AGAIN SEMEL OR MEAN CEBY WEAR OR SNOW. VENTILATING OPENINGS SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE MESH. WITH 1/8" TO 1/4" OPENINGS. THE TOTAL FREE FE'STALATING, ARESON 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

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GENERAL NOTES

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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

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

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

											•	THE DWE	LLING SHALL C	OMPLY WITH THE	FOLLOWING LO	AD CONDI	ITIONS
ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF a,b,c FASTENER	SPACING OF FASTENERS	ITEM	DESCRIPTION	OF BUILDING ELEMENTS		NUMBER AND TYPE FASTENER			FASTENERS INTERMEDIATE c. e UPPORTS (INCHES)		A	REA	D	EAD	MIN LIVE LOAD
		ROOF		v				ALL SHEATHING TO FRAMING AND		L SHEATHING TO FI			EXTERIOF	R BALCONIES		10	60
1	BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOE NAIL		TOE NAIL		[SE	E TABLE R602.3(3) FOR W		RAL PANEL EXTERIOR WALL SHEA		ING]		0511110		S, 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"	8	6D COMMON (2"X 0.113" NAIL (SU 8D COMMON (2 1/2" X 0.131 NAIL (RO	OOF); or RSRS-01 (2	6	12 f			S NO STORAGE - OF SLOPE 3:12 OR		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 (RC 8D COMMON NAIL (2 1/2" X 0.131; o 0.113) NAIL ROOF	r RSRS-01; 2 3/8" X	6	12 f	SCUTTL	E ACCESS ONL JOISTS / ATTIC	TTICS NO STORA Y ROOF SLOPE O S WITH STORAGE	VER 3:12	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) NA 0.131") DEFORMED N	AIL; or 8D (2 1/2" X	6	12		ROOMS: N	LADDER ACCESS		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				отні	ER WALL SHEATHING ⁹					ROOF: LIGHT	: SLEEPING ROOF COVERING		10 10	30
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 CELL	ULOSE FIBERBOARD SHE	ATHING	1 1/2" GALVANIZED ROOF NAIL, 7/16 OR 1 1/4" LONG 16GA. STAPLE V CROWN	WITH 7/16" OR 1"	3	6		CONCRETE	ROOF COVERING / TILE / SLATE .S, HANDRAILS		20 200# LL NOI	20 DRMAL
	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 CEL	LULOSE FIBERBOARD SHE	EATHING	1 3/4" GALVANIZED ROOF NAIL, 7/16 OR 1 1/2" LONG 16GA. STAPLE WITH 7/		3	6	BE USED UN ROOF PLAN	ILESS 20 PSF D . IF HEAVY RO	IATERIAL (TILE, CO DEAD LOAD AND H OFING IS TO BE US	IEAVY ROOF IS N SED AND NOT NO	IOTED ON OTED ON T	N THE
	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" GYF	PSUM SHEATHING d		1 1/2" GALVANIZED ROOF NAIL, STA 11/2" LONG; 1 1/4" SCREWS,		7	7	FOUNDATIO	N AND SITE WO	RIOR TO ANY CON ORK. IF THE PLAN OTED IN THE ROO	HAS BEEN DESI	IGNED FOF	
		WALL		36	5/8" GYF	SUM SHEATHING d		1 3/4" GALVANIZED ROOF NAIL; STA 1 5/8" LONG; 1 5/8" SCREWS,		7	7						
	STUD TO STUD (NOT BRACED WALL PANELS)	16D (3 1/2" X 0.162")	24" OC FACE NAIL					BINATION SUBFLOOR UNDERLAYN									
	``````````````````````````````````````	10D BOX (3" X 0.128"); OR 3" X 0.131" NAILS	16" OC FACE NAIL										CO	LUMN S	<u> ЗСНЕГ</u>	<u>/UL</u> F	<u>Ē</u>
	STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL 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 16" OC FACE NAIL	37	3/2	4" AND LESS		6D DEFORMED (2" X 0.120' 8D COMMON (2 1/2" X 0.13	Ś1") NAIL	6	12	_	BASED	ON FOOTING SIZE		,	 _)
0	BUILT-UP HEADER (2" TO 2" HEADER WITH 1/2" SPACER)	16D COMMON (3 1/2" X 0.162") 16D BOX (3 1/2" X 0.135")	16" OC EACH EDGE FACE NAIL 12" OC EACH EDGE FACE NAIL	38		7/8" - 1"		8D COMMON (2 1/2" X 0.131 8D DEFORMED (2 1/2" X 0.		6	12		PAD SIZE	REINFORCEMEN	MIN.	COL. TYPE	MAX. LOAD
11	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	39	1	1/8" - 1 1/4"		10D COMMON (3" X 0.148" 8D DEFORMED (2 1/2" X 0.		6	12		24x24x12 30x30x12	(4) #4 BARS E/W (5) #4 BARS E/W	/ 3"	SCH40 SCH40	6K 9.4K
2	TOP PLATE TO TOP PLATE	16D COMMON (3 1/2" X 0.162") 10D BOX (3" X 0.128") OR 3" X 0.131" NAILS	16" OC FACE NAIL 12" OC FACE NAIL		= 25.4mm, 1 foot = 304.8 m								36x36x12 42x42x14	(6) #4 BARS E/W (7) #4 BARS E/W	/ 3 1/2"	SCH40 SCH40	13.5K 18.4K
3	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)	-	BEARING WALLS		<u> </u>	IGHT, AND SP	PACING O	NON-BEARING			48x48x16 54x54x16	(8) #4 BARS E/W (9) #4 BARS E/W	/ 3 1/2"	SCH40 SCH40	24.0K 30.4K
	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING	16D COMMON (3 1/2" X 0.162")	16" OC FACE NAIL	<b></b>	LATERALLY	MAXIMUM SPACING	MAXIMUM SF	PACING MAXIMUM SPACING					60x60x18	(10) #4 BARS E/M	V 3 1/2"	SCH40	37.5K
	(NOT AT BRACED WALL PANELS	16D BOX (3 1/2" X 0.135"); OR 3" X 0.131" NAILS	12" OC FACE NAIL	STUD SIZE	UNSUPPORTED	WHERE SUPPORTING A ROOF-CEILING	WHERE SUPP ONE FLOOR,	PORTING WHERE SUPPORTING	WHERE SUPPORTIN ONE FLOOR HEIGH	IG UNSUPPORTE	D STUD UNSUPPOR	RTED STUD	UMN CONNEC	TION TO STEEL BE	EAMS SHALL BE	WITH A C	LIP POS
	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	(IN)	(feet)	ASSEMBLY OR A HABITABLE ATTIC ASSEMBLY, ONLY (inches)	ROOF-CEI ASSEMBLY HABITABLE ASSEMBLY (	ILING ROOF-CEILING OR A ASSEMBLY OR A ATTIC HABITABLE ATTIC	(inches)	(feet)	(fe	et) ALL BEA STE	FOUR TAB EAR RING PLATE, F EL BEAM TO M	RS BENT AROUND OUR HOLES SHAL IATCH THE HOLE F INSTALLED WITH	) THE BOTTOM FL LL BE DRILLED IN PATTERN OF THE	LANGE OF N THE BOT E PLATE. 1	F THE BE TTOM FL 1/2" X 2"
;	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									EAC ACC	CH OF THE HOL	ES. THE POST CA TH AWS D1.1-92 AS AWS-CERTIFIED I	AP MAY BE WELD S AN ALTERNATIV	DED TO TH	HE STEÉ
		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					+ $+$ $+$									
7	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 ^b						10	11	6					
3	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 _c 24	16 _c 24	16	24 24	14	24		ENGIN	NEERE	) LUM	BER	2
)	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 10	24 24	24 24	16	24 24	16 20	24	4		MIN. DESIGN REQI	JIREMENTS	_	-
	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		a. LISTED HE ON NOT LESS	S THAN ONE SIDE OR BRID	ETWEEN POINTS OF LATE GING SHALL BE INSTALLE	D NOT GREATE	PLACED PERPENDICULAR TO THE R THAN 4 FEET APART MEASURED	VERTICALLY FROM EIT	HER END OF THE S	TUD. INCREASES IN			F _b (psi)	E (psi) F _v ()		
0	1 X 6 AND WIDER SHEATHING TO EACH BEARING	WIDER THAN 1" X 8" 4-8D BOX (2 1/2" X 0.113"); or 3-8D COMMON (2 1/2" X0.131") or 3-10D BOX (3" X 0.128"); or 4 STAPLES, 1" CROWN, 16GA., 1 3/4" LONG	FACE NAIL	PRACTICES. b. SHALL NC	OT BE USED IN EXTERIOR	WALLS		ION 2 OF SECTION R602.3.1 OR DES					GLULAN		1.8x10 19	85 90	
		FLOOR						ACCEPTED ENGINEERING PRACTIC					PARALA	M 2600	2.0x10 29	90	
:1	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				•	MENT EFFICIE		<u>c</u>							
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	VALL	JES BY CC	MPONEN	T, PER	IRC2018 N11	<u>03.6.1</u>			NG AND			1		
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		FAN LOCATION	AIR FLOW RATE MINIMUM (CFM)	MINIMUM EF			BETWEEN THE TO	ING IS APPLIED DIRECT OP OF THE INSULATION ZES SPECIFIED ON PLA	LY TO THE BOTTOM AND THE SHEATHIN	OF THE RAFTE	ERS, A MINIMUM 1' ATION (R806.3)			OVIDED
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		HRV OR ERV RANGE HOOD	ANY ANY	1.2 CFM/W 2.8 CFM/W			BUILDER TO VERI IF FULL RAFTER D OR ADEQUATE FL		TE FOR MINIMUM INS D TO OBTAIN THE MI	SULATION VALL NIMUM JOIST D	JE, RAFTER SIZES DEPTH FOR THE RI	WILL NEED TO E	BE INCREA ATION. 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		IN-LINE FAN BATHROOM UTILITY FAN	ANY 10	2.8 CFM/W 1.4 CFM/W		-	LARGER THAN TH	E RAFTERS BEING REC		FBELOW)	2x10		x12	
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		2.8 CFM/W			1" AIR SPACE	(FIBERGLASS) R-1	13, 3 1/2" R-19, 6		DENSED R-38, 8 1/4		10 1/4"	
27	BUILT-UP GIRDERS AND BEAMS, 2-INCH LUMBER LAYERS	20D COMMON (4" X 0.192"); or 10D BOX (3" X 0.128"); or 3" X 0.131" NAILS	NAIL EACH LAYER AS FOLLOWS: 32" OC AT TIP AND BOTTOM AND STAGGERED 24" OC FACE NAIL AT TOP AND BOTTOM	MIN	NIMUM INS	ULATION	<u>&amp; FEN</u>	STRATION VA	LUES BY	COMP	<u>ONENT, F</u>	PER IRC	<u>2018  </u>	<u>N1102.1</u>	<u>.2</u>		
	,	AND: 2-20D COMMON (4" X 0.192"); or	STAGGERED ON OPPOSITE SIDES FACE NAIL AT END AND AT EACH SPLICE	<b>0</b>	FENSTRATION SK	YLIGHT GLAZED SHGC		TAL INSULATED WOOD CEILING	WOOD FRAMED	FLOOR BASE	EMENT SLAB R-VAL	UE CRAWL SPAC		RK OVER DUCT	WORK (ALL		
28	LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	3-10D BOX (3" X 0.128; or 3-3" X 0.131" NAILS 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 MAR	U-FACTOR U-F	FACTORFENSTRATION0.550.40	INSULATED ME DOOR U-VAL			R-VALUE WALL F		I WALL R-VALU	JE OUTSIDE	R-VALUE OTHEI	R-VALUE     6		
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	NOTES: 1) BUIL 2) REC	LDING THERMAL ENVELOP ESSED LIGHTING SHALL E	BE SEALED TO PREVENT L	EAKAGE BETWE	AIR BARRIER AS PER N1102.4.1 OF EEN THE CONDITIONED SPACE AND GED AS DUCTS SHALL BE SEALED A	UNCONDITIONED SPA	CE			· 1		J	AS N DE	RELEAS CONSTR NOTED ON P DEVELOPMEN LEE'S SUMMI
ALL NAILS /	ARE SMOOTH-COMMON, BOX OR DEFORMED SHANKS EXCEPT WHERE OTHERWISE STATED. NAILS L	I ISED FOR FRAMING AND SHEATHING CONNECTIONS SHALL HAVE MINIMUM AVERA	GE BENDING YIELD STRENGTHS AS SHOWN: 80 KSI FOR SHANK DIAM	,		·		REFERS TO A CERTAIN LEVEL OF D			NAME IMPLIES THESE	E PLANS REQUIRE TH	HAT THE CONT	RACTOR POSSES	SES COMPETEN		05/04/2

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 TO GAGE WIRE AND TRAVE A MINIMUM // TO - INCENT ON DIAMETER CROWN WITH AND TRAVETER OF OWN WIRE TO COMMENT.
c. NAILS SHALL BE SPACED AT NOT MORE THAN 6 INCHES ON CENTER AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES OR GREATER.
d. FOUR-FOOT BY 8-FOOT OR 4-FOOT BY 9-FOOT PANELS SHALL BE APPLIED VERTICALLY.
e. SPACING OF FASTENERS NOT INCLUDED IN THIS TABLE SHALL BE BASED ON TABLE R602.3(2).
f. 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 HEICHLIS MORE THAN 26 EFT LUB 25 EFT MAXIMUM

HEIGHT IS MORE THAN 25 FEET, UP TO 35 FEET MAXIMUM. g. FOR REGIONS HAVING BASIC WIND SPEED OF 100 MPH OR LESS, NAILS FOR ATTACHING WOOD STRUCTURAL PANEL ROOF SHEATHING TO GABLE END WALL FRAMING SHALL BE SPACED 6 INCHES ON CENTER. WHEN BASIC WIND SPEED IS GREATER THAN 100 MPH, NAILS FOR ATTACHING PANEL ROOF SHEATHING TO INTERMEDIATE SUPPORTS SHALL BE SPACED 6 INCHES ON CENTER FOR MINIMUM 48-INCH DISTANCE FROM RIDGES, EAVES AND GABLE END WALLS; AND 4 INCHES ON CENTER TO GABLE END WALL FRAMING. h. GYPSUM SHEATHING SHALL CONFORM TO ASTM C 1396 AND SHALL BE INSTALLED IN ACCORDANCE WITH GA 253. FIBERBOARD SHEATHING SHALL CONFORM TO ASTM C 208. I. SPACING OF FASTENERS ON FLOOR SHEATHING PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING AND AT ALL FLOOR PERIMETERS ON ROOF SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING. BLOCKING OF ROOF OR FLOOR SHEATHING PANEL EDGES PERPENDICULAR TO THE FRAMING MEMBERS NEED NOT BE PROVIDED EXCEPT AS REQUIRED BY OTHER PROVISIONS OF THIS CODE. FLOOR PERIMETER SHALL BE SUPPORTED BY FRAMING MEMBERS ON SOLID BLOCKING. J. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE, PROVIDE TWO TOE NAILS ON ONE SIDE OF THE RAFTER AND TOE NAILS FROM 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 05/04/2020 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

	F₀(psi)	E (psi)	F _∨ (psi)
LVL	2600	1.8x10	285
GLULAM	2400	1.8x10	190
PARALAM	2600	2.0x10	290





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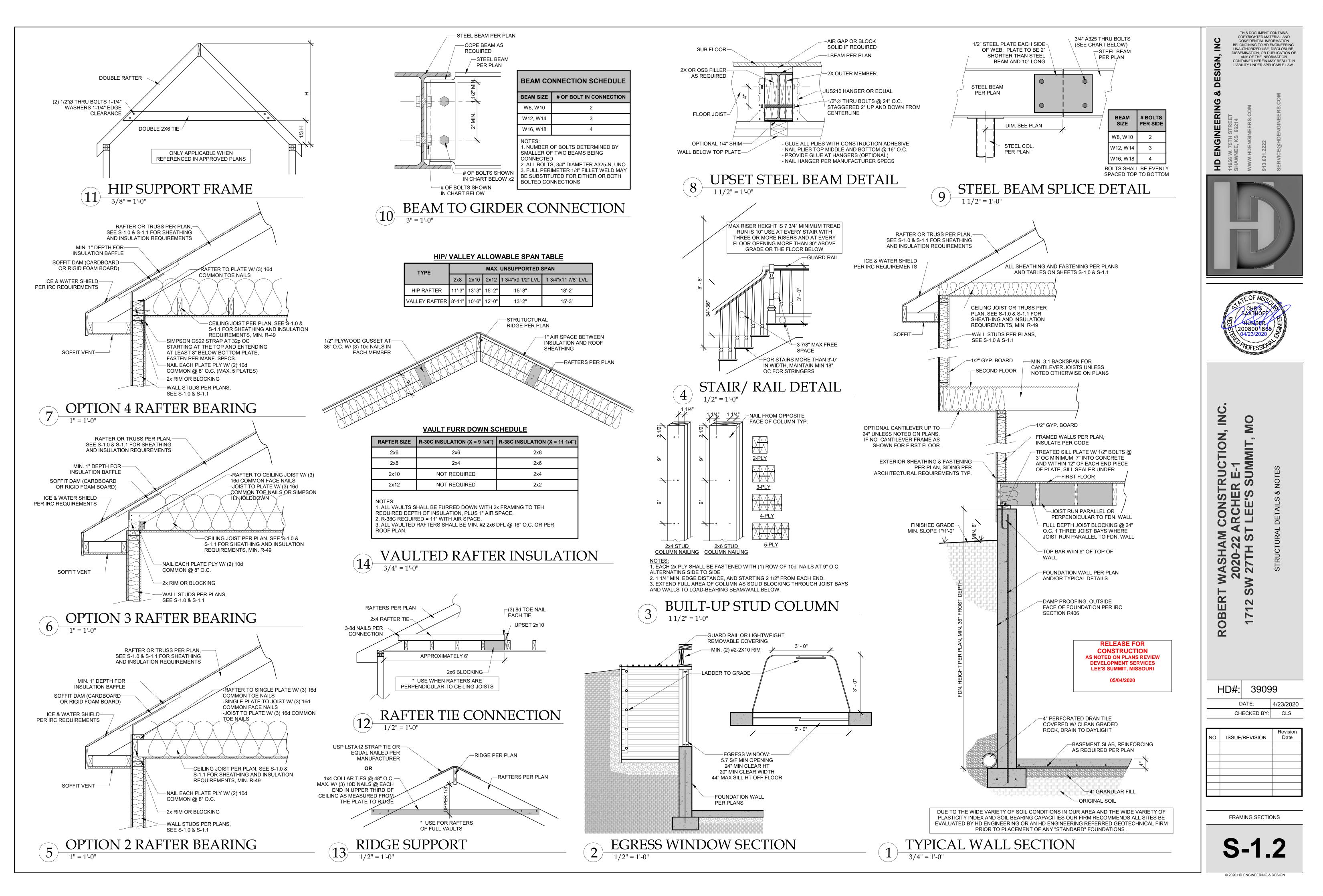
CTION, INC -1 MO MMIT ASHAM CONSTRUC 020-22 ARCHER E-1 27TH ST LEE'S SUN S 203 203 N SW N 

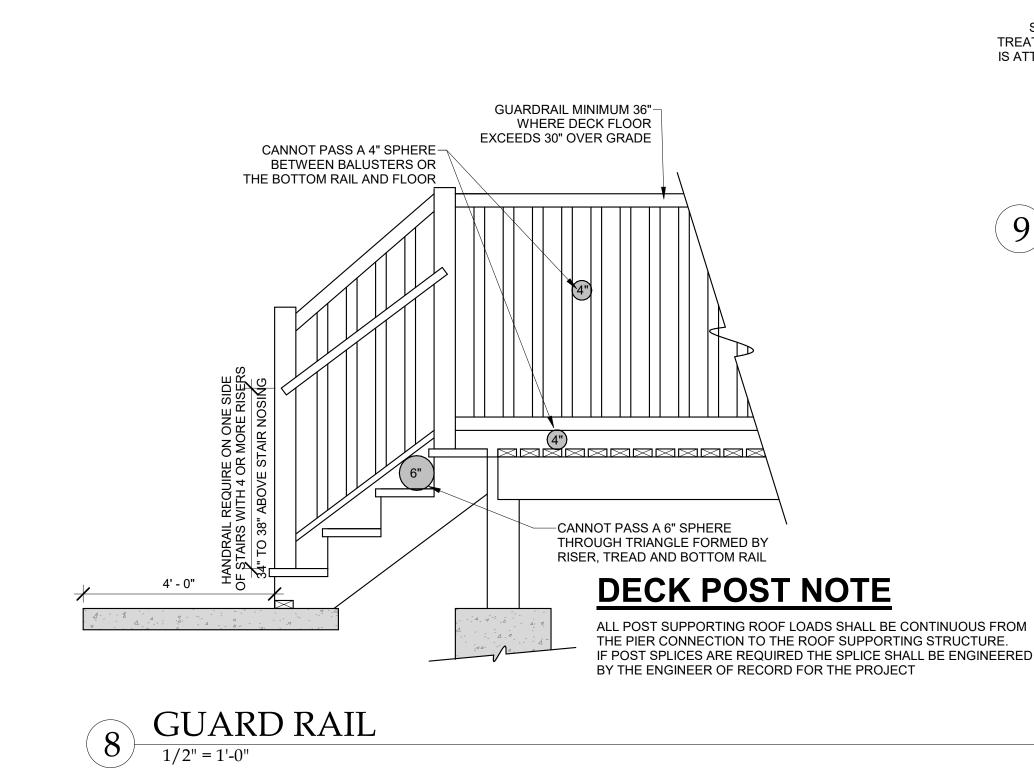
HD#:	3909	99
C	DATE:	4/23/2020
СН	ECKED BY:	CLS
ISSUE	REVISION	Revision Date
	CH	HD#: 3909 DATE: CHECKED BY: ISSUE/REVISION

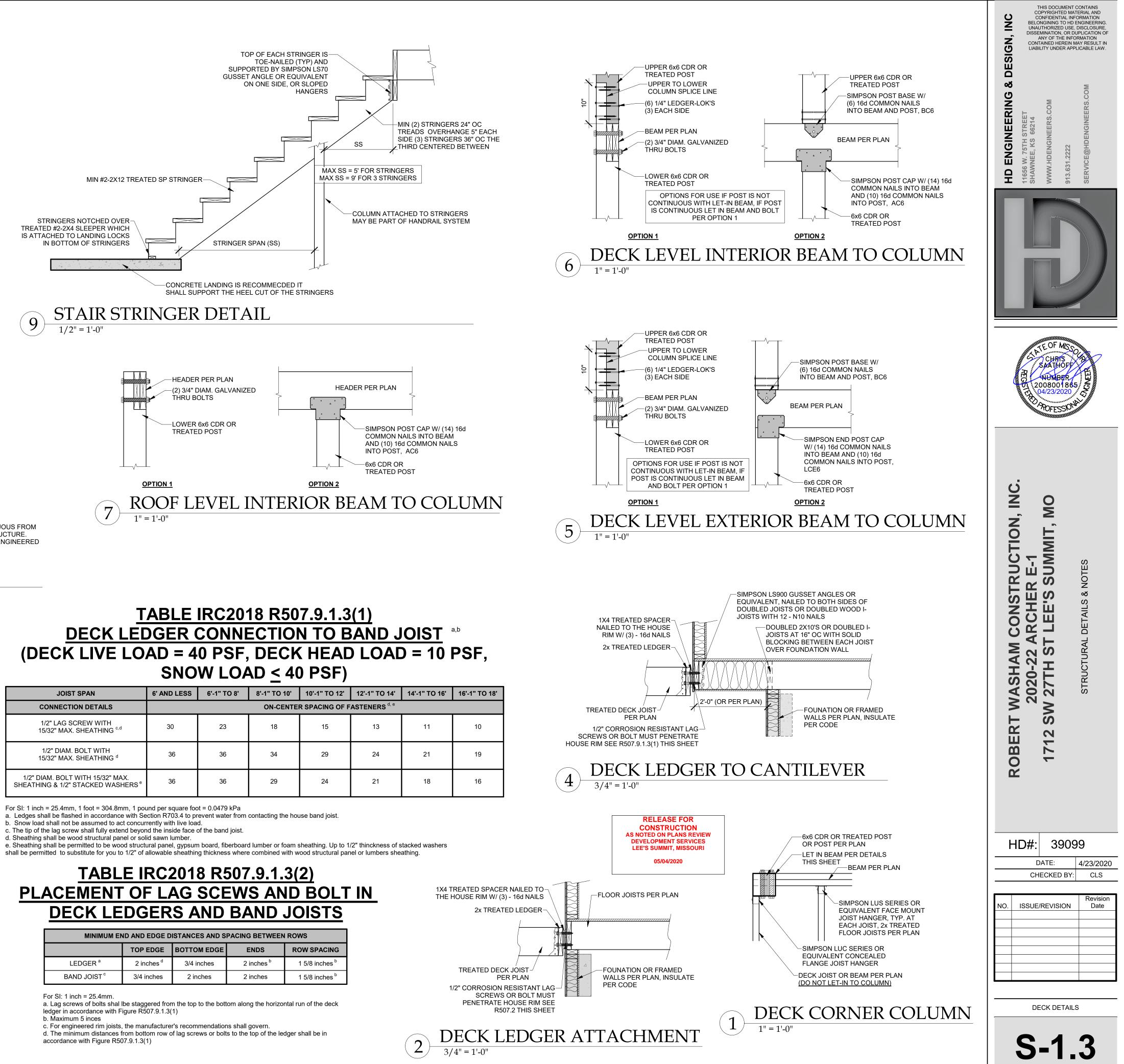
GENERAL NOTES

**S-1** 

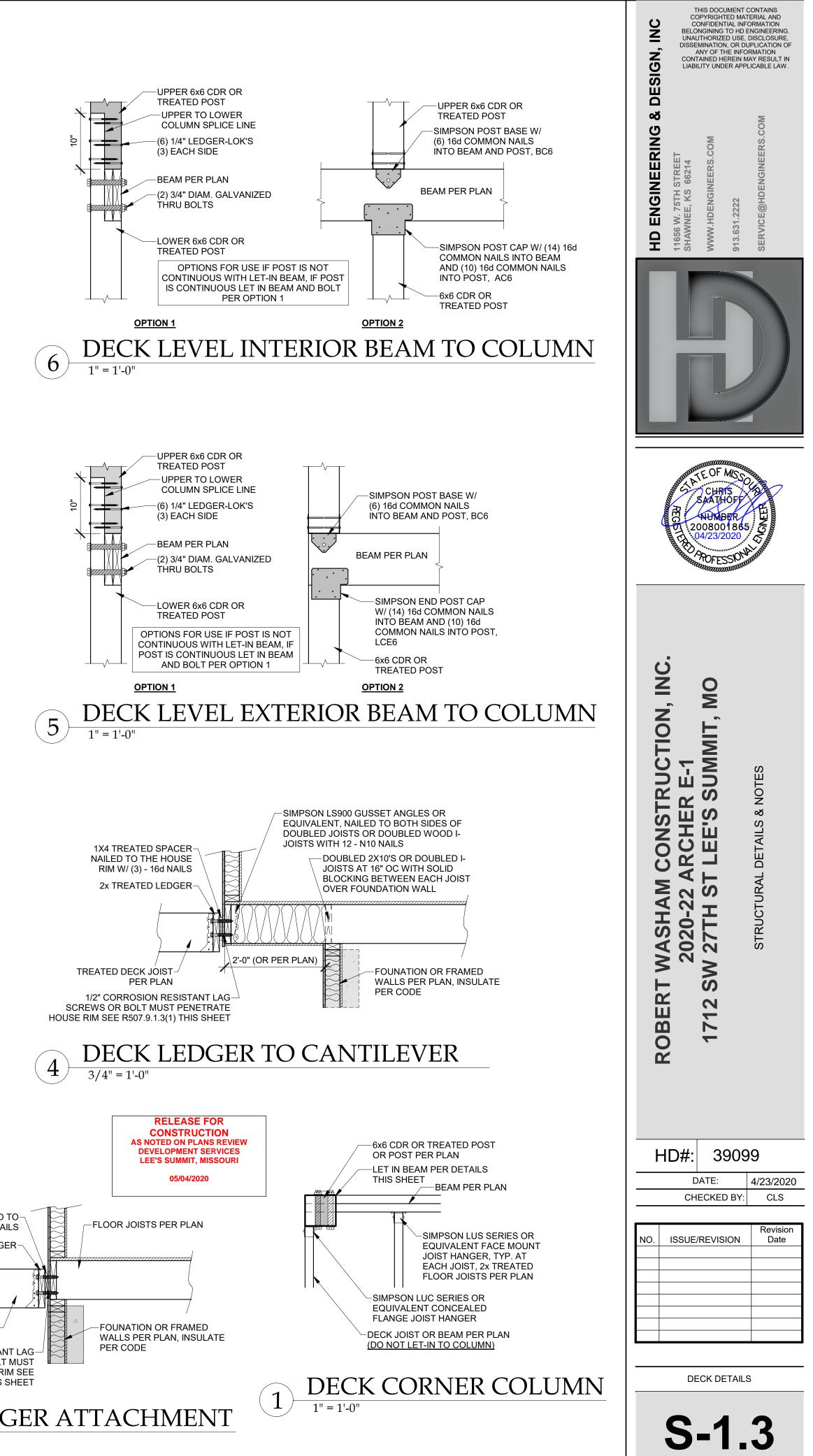
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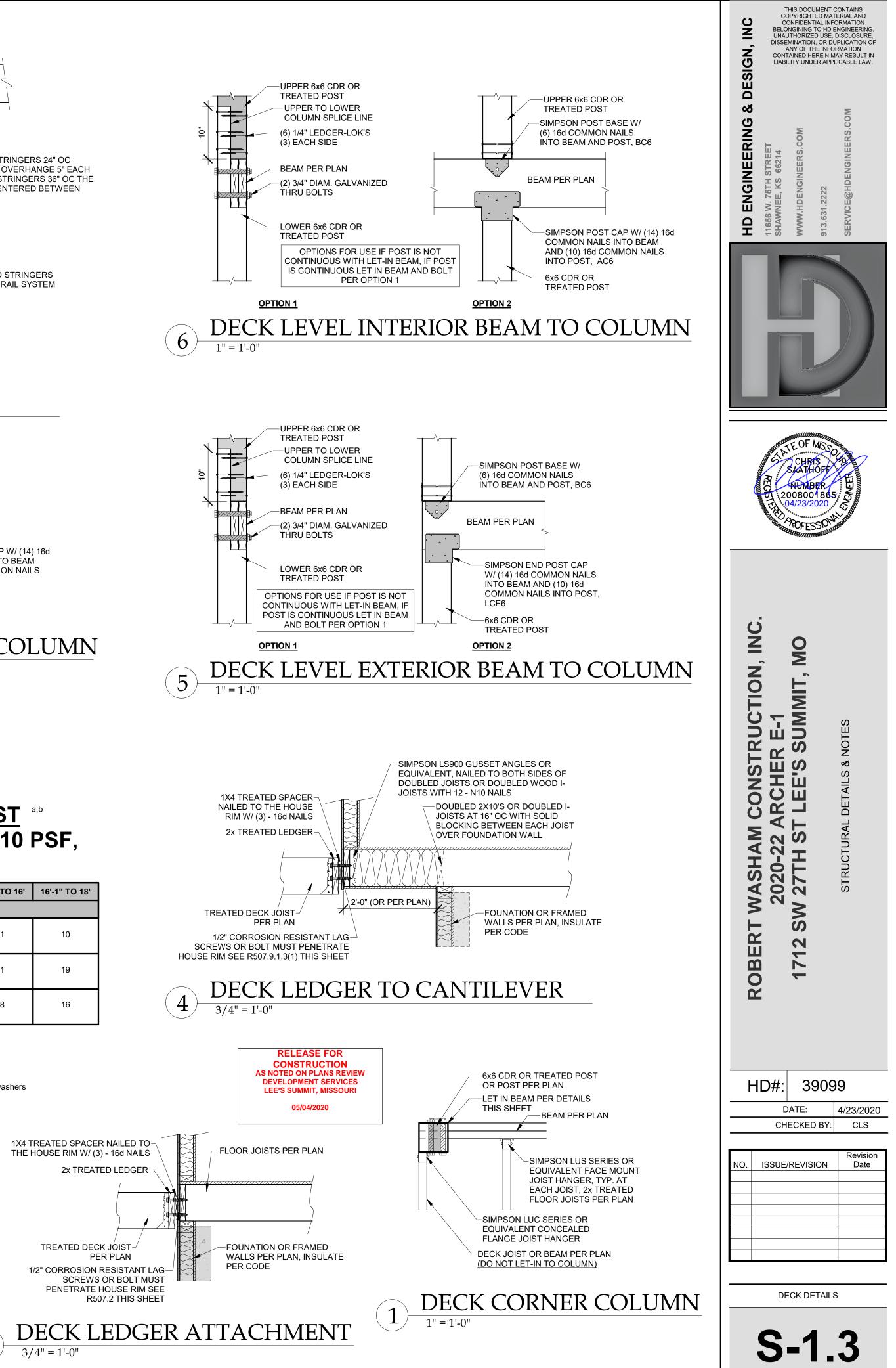


JOIST SPAN	6' AND LESS	6'-1" TO 8'	8'-1" TO 10'	10'-1" TO 12'	12'-1" TO 14'	14'-1" TO 16'	16'-1" TO 18'
CONNECTION DETAILS			ON-CENTE	R SPACING OF F	ASTENERS ^{d, e}		
1/2" LAG SCREW WITH 15/32" MAX. SHEATHING ^{c,d}	30	23	18	15	13	11	10
1/2" DIAM. BOLT WITH 15/32" MAX. SHEATHING ^d	36	36	34	29	24	21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



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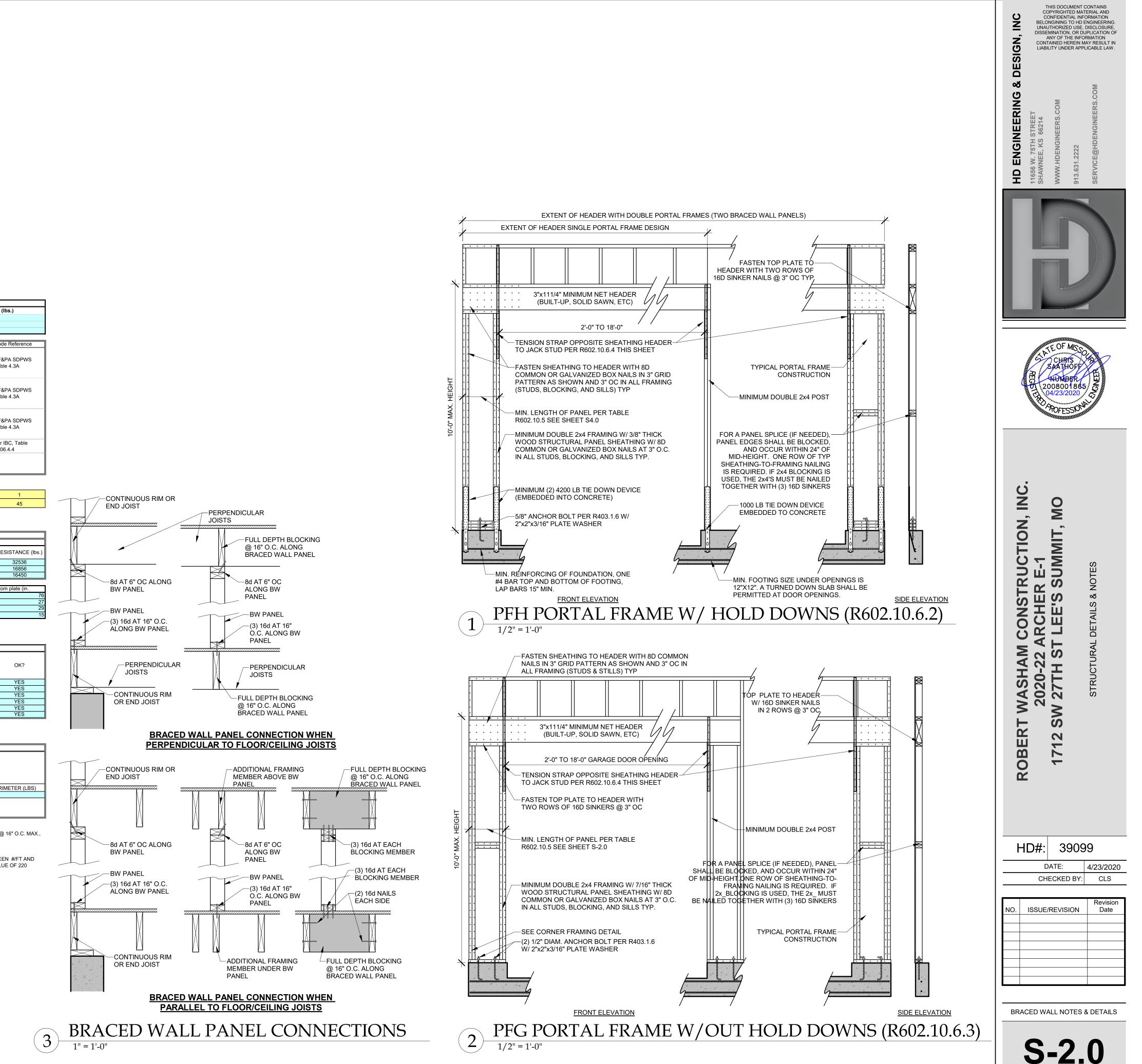
MINIMUM END AND EDGE DISTANCES AND SPACING BETWEEN ROWS						
	TOP EDGE	BOTTOM EDGE	ENDS	ROW SPACING		
LEDGER ^a	2 inches ^d	3/4 inches	2 inches ^b	1 5/8 inches ^b		
BAND JOIST °	3/4 inches	2 inches	2 inches	1 5/8 inches ^b		



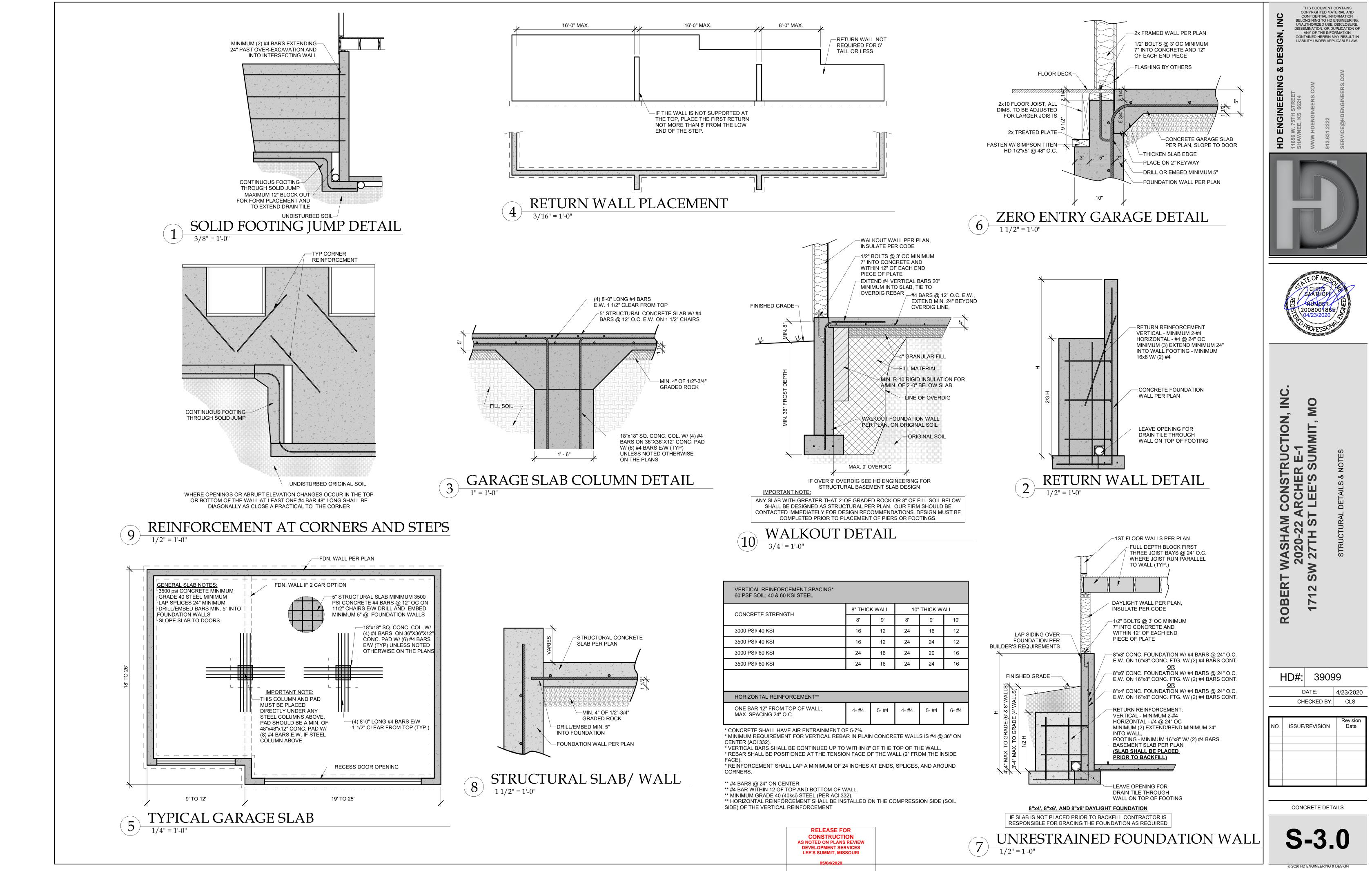
	T OF HOUSE:						INPUT CALCULATED VALUE	
DCATION DOF					DEAD LOAD (psf) 10	AREA (ft ² ) 3875	WEIGHT (lbs.) 38750	
EILING ECOND FLOOR					10 10	3764 998	37640 9980	
RST FLOOR				WALL LENGTH (ft)	10 WALL HEIGHT (ft)	1840 WALL UNIT WT. (psf)	18400 WEIGHT (lbs)	
ECOND FLOOR EX RST FLOOR EXT.				151.4 231	8 10 DEAD LOAD (psf)	8 10 AREA (ft2)	9689.6 23100 WEIGHT (lbs)	
	T. PARTITION WALL DL				6 6	998 1840	5988 11040	
		IECTED AREAS (W/IND D	ESIGN PER 115 MPH		URE C AND MEAN ROOF HEIGHT <= 3		11040	<u> </u> 
		-TO-BACK			SIDE-TO-S	,		1
SLOPED ROOF VERT. ROOF	322 84	2740 1044	CUMULATIVE	SLOPED ROOF VERT. ROOF	668 0	5605 0	CUMULATIVE	_
2ND 1ST	9 583	651 7248	4435 11683	2ND 1ST	405 687.5	5118 8427	10723 19150	
BSMT ^a	0	0	0 PRESSURE (PS	BSMT ^a F) - PER ASCE CH. 6	0	0	0	1
	SLOPED ROOF WALL/VERT. ROOF	ZONE B ZONE A	•	9.7 14.2	ZONE C ZONE D	11.3 7.7	2a (FIG. 28.6-1, ASCE7) 10.6	
		etermine tributary wind are				· · ·		]
ND FLOOR TRIBUT ST FLOOR TRIBUT ASEMENT TRIBUT	ARY WEIGHT ARY WEIGHT IOTION - %g - FROM AS e 11.4-1)		q _{z10_ASD} =0.oq _{z10} (Desi	gn Velocity Pressure for ASL	) analysis under ASCE7-10 and IRC/IBC	, 2012)	81234.8 113597.6 113597.6 12.0% 1.6 0.128 6.5	
DCATION ND FLOOR ST FLOOR				<u>SEISMIC</u>		m ASCE7 (Eq. 12.8-1):	V (= 1.2 * S _{DS} * W 1920 2684	/ R) (I
ASEMENT							2684	
Sheathi	ng Location	Min. Sheathin	•	113 Shank Diameter Nails	stening Schedule s w/ 1-3/8" penetration @ 6" O.C. Edges,		ble Shear (#/LF)	Cod
Exterior (	' <u>Option #4)</u>	7/16" APA Rated Plywoo sheathing, or 3/8" shipla tighter nail 7/16" APA Rated Plywoo	p panel sheathing with spacing	sheathing OR @ 4" O.C. p	PA-rated plywood/OSB or shiplap panel Edges, 12" O.C. Field for 3/8" shiplap anel sheathing s w/ 1-3/8" penetration @ 4" O.C. Edges,		220	AF8 Tab
Exterior <u>(</u>	' <u>Option #5)</u>	sheathing, or 3/8" shipla tighter nail	p panel sheathing with spacing	sheathing OR @ 3" O.C.	PA-rated plywood/OSB or shiplap panel Edges, 12" O.C. Field for 3/8" shiplap anel sheathing		320	AF& Tabl
	( <u>Option #6)</u>	sheathing, or 3/8" shipla tighter nail spacing and panel o	p panel sheathing with I double studs at each edge	.113 Shank Diameter Nails	s w/ 1-3/8" penetration @ 3" O.C. Edges, 12" O.C. Field		410	AF& Tabl
In	terior	1/2" Gypsu			crews @ 8" O.C. Edges, 12" O.C. Field		60	2300
In	terior	16 Ga. Simpson/USP Ty (or eq			& (1) 8d @ intermediate studs (per fications - see detail on sheet S3)		325	
	ING OPTION FOR FIRS	EMENT WALLS	4 6 EXTER SMIC	RIOR STRUCTURAL WALL	DEPTH OF 1ST STORY (FT.) BACK WALL OF GARAGE (FT.) GAR. WALL: 1=F-B, 2=S-S LENGTHS (ft.) & RESISTANCES	62.5 32 2 WIND	WIDTH OF 2ND STORY (FT.) DEPTH OF 2ND STORY (FT.)	
	FRONT-TO-BACK	RESISTANCE (lbs.)	SIDE-TO-SIDE	RESISTANCE (lbs.)	FRONT-TO-BACK	RESISTANCE (lbs.)	SIDE-TO-SIDE	RE
ND FLOOR ST FLOOR	48 126	13440 35280	83 43	23240 12040	48 126	18816 49392	83 43	
ASEMENT	0	0	25	11750	0	0	25	
		ADDITIONAL RESIST	WIND		Anchor Bolt Spacing diameter (in.)	0.5	16d Nail Spacing req'd at 2nd Floor F-B	botto
ND FLOOR FRONT	D-SIDE	0	0		Shear value (per NDS) Spacing F-B (inches)	944 193.9	2nd Floor S-S 1st Floor F-B	
ST FLOOR FRONT- ST FLOOR SIDE-TO ASEMENT FRONT-	D-SIDE	0 0 0	0 2294 0	-	spacing S-S (inches)	100.3	1st Floor S-S	
ASEMENT FROM ASEMENT SIDE-TO		0	0					
			RESISTANCE REQUI	RED IN ADDITION TO RES	ISTANCE PROVIDED BY EXTERIOR V	VALLS** INT. WALL LENGTH		 T
		RESISTANCE	PORTAL FRAMES OR PERF. SHEAR WALL	INTERIOR X-BRACES (325#/BRACE)	INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.)	SHEATHED W/ OSB	RESISTANCE PROVIDED BY ADDITIONAL METHODS	
	-ТО-ВАСК	REQUIRED (POUNDS)	RESISTANCE	(010//210102)	· · · · · · · · · · · · · · · · · · ·	SIDE, FT.)	(POUNDS)	
ND FLOOR SIDE-TO	D-SIDE	0					0	_
ST FLOOR SIDE-TO ASEMENT FRONT-		2294 0			30		2520 0	
SEE SHEET S1 FC	TACHED CALCULATIO	BRACE INSTALLATION,	3) INTERIOR WALLS S	SHEATHED WITH OSB SHA	CAPACITIES (IF APPLICABLE), LL BE ATTACHED WITH SAME STAPL SHT SECTIONS OF 2'-8" OR LONGER	E/NAILING	0	
	N// 2			WIND UPLIFT	ANALYSIS			
OOF PITCH (MAX)	X/12 8	DEGREES 33.7 ASCE 7	PITCH OF 6 OR LESS:	: EOH -13.3, E -7.2, G -5.2	]			
OVERHANG	LENGTH (FT.)	PRESSURE (PSF) -1.08	LINEAL FT. OF OH 233	UPLIFT PER FT* (LBS) -1.08				
MAIN ROOF**	TOTAL AREA (FT ² ) 3312.5		ZONE G AREA (FT ² ) 2786.74		PRESSURE ZN. G (PSF) -0.36	TOTAL FORCE (LBS) -1571	FORCE PER LINEAL FT @ -6.8	PERI
MAIN ROOF	4	TOTAL UPLIFT PER LINEAL F			-7.9	UPLIFT OK	-0.0	
LONG PERIMETER	-	RESISTANCE DUE TO DEAD	•	,	251.6			
LONG PERIMETER					FOR SHEATHING OF THE ENTIRE STR	RUCTURE. IN ADDITION	, FRAMING MEMBERS SHALL	BE @

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

05/04/2020



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

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

OCATION	T OF HOUSE:				DEAD LOAD (psf)	AREA (ft ² )	CALCULATEI WEIGHT
ROOF					10 10	3875 3764	3875 3764
ECOND FLOOR					10 10 10	998 1840	9980 1840
ECOND FLOOR EXT				WALL LENGTH (ft) 151.4		WALL UNIT WT. (psf) 8	WEIGHT 9689
RST FLOOR EXT. V				231	DEAD LOAD (psf)	10 AREA (ft2)	2310 WEIGHT
IRST FLOOR INT. P	: PARTITION WALL DL ARTITION WALL DL				6 6	998 1840	598 1104
		JECTED AREAS (WIND I -TO-BACK	DESIGN PER 115 MPH 3	3-SECOND GUST, EXPOS	URE C AND MEAN ROOF HEIGHT <= 3 SIDE-TO-S	IDE	
SLOPED ROOF	AREA 322	LOAD 2740		SLOPED ROOF	AREA 668	LOAD 5605	
VERT. ROOF 2ND 1ST	84 9 583	1044 651 7248	CUMULATIVE 4435 11683	VERT. ROOF 2ND 1ST	0 405 687.5	0 5118 8427	CUMULA 1072 1915
BSMT ^a	0	0	0	BSMT ^a	0	0	0
	SLOPED ROOF WALL/VERT. ROOF	ZONE B ZONE A		9.7 14.2	ZONE C ZONE D	11.3 7.7	2a (FIG. 28.6- 10.6
	MEAN ROOF HT., <i>h</i> t wall to be sheathed, de ² (ASCE7-10 Velocity Pr	etermine tributary wind are			I D analysis under ASCE7-10 and IRC/IBC	<b>201</b> 2)	
ND FLOOR TRIBUTA ST FLOOR TRIBUTA ASEMENT TRIBUTA $S_{S}$ (SITE GROUND MO $T_{a}$ (from ASCE7 Table $S_{DS}$ (= 2/3 * $S_{S}$ * $F_{a}$ ) R (from ASCE7 Table	ARY WEIGHT ARY WEIGHT OTION - %g - FROM AS 9 11.4-1)	SCE7 SEISMIC MAP)					8123 11355 11355 12.0 1.6 0.12 6.5
OCATION				<u>SEISMIC</u>		m ASCE7 (Eq. 12.8-1):	V (=
ND FLOOR ST FLOOR							
BASEMENT	g Location	Min. Sheathi	ng Schedule	E~	stening Schedule	٨١٩٩٩٩	ble Shear (#/LF)
	-	7/16" APA Rated Plywoo	od/OSB or shiplap panel	.113 Shank Diameter Nails	stening Schedule s w/ 1-3/8" penetration @ 6" O.C. Edges, PA-rated plywood/OSB or shiplap panel		
Exterior <u>((</u>	<u>Option #4)</u>	sheathing, or 3/8" shipla tighter na	ap panel sheathing with il spacing	sheathing OR @ 4" O.C. p	A-rated plywood/OSB or shiplap panel . Edges, 12" O.C. Field for 3/8" shiplap panel sheathing s w/ 1-3/8" penetration @ 4" O.C. Edges,		220
Exterior <u>((</u>	Option #5)	7/16" APA Rated Plywoo sheathing, or 3/8" shipla tighter na	ap panel sheathing with	12" O.C. Field for 7/16" A sheathing OR @ 3" O.C.	PA-rated plywood/OSB or shiplap panel . Edges, 12" O.C. Field for 3/8" shiplap panel sheathing		320
Exterior <u>((</u>	Option #6)	3			s w/ 1-3/8" penetration @ 3" O.C. Edges, 12" O.C. Field		410
Inte	erior	1/2" Gyps	um Board	No. 6- $1^{1}/_{4}$ " Type W or S S	Crews @ 8" O.C. Edges, 12" O.C. Field		60
Int							
III	erior		ype WB Steel X-Brace		& (1) 8d @ intermediate studs (per		325
	erior	16 Ga. Simpson/USP T (or e			& (1) 8d @ intermediate studs (per fications - see detail on sheet S3)		325
	erior NG OPTION FOR SECO	(or e				53	
XTERIOR SHEATHI	NG OPTION FOR SECO	(or each or contract of the second se	qual) 4 4		fications - see detail on sheet S3) WIDTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.)	62.5	WIDTH OF 2ND
XTERIOR SHEATHI	NG OPTION FOR SECO	(or each or contract of the second se	qual) 4		fications - see detail on sheet S3) WIDTH OF 1ST STORY (FT.)		WIDTH OF 2ND
XTERIOR SHEATHI	NG OPTION FOR SECO	(or each or each of the second	qual) 4 4 6	manufacturer speci	fications - see detail on sheet S3) WIDTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.) BACK WALL OF GARAGE (FT.)	62.5 32	WIDTH OF 2ND
XTERIOR SHEATHII XTERIOR SHEATHII	NG OPTION FOR SECO	(or each or each of the second	qual) 4 4 6 EXTER	manufacturer speci	ifications - see detail on sheet S3) WIDTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.) BACK WALL OF GARAGE (FT.) GAR. WALL: 1=F-B, 2=S-S	62.5 32 2	WIDTH OF 2ND DEPTH OF 2ND
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EXTERIOR SHEATHI	NG OPTION FOR SECO NG OPTION FOR FIRS NG OPTION FOR BASE FRONT-TO-BACK 48	(or er DND FLOOR T FLOOR EMENT WALLS RESISTANCE (Ibs.) 13440 35280 0	4 4 6 EXTER ISMIC SIDE-TO-SIDE 83 43 25	IOR STRUCTURAL WALL RESISTANCE (lbs.) 23240	fications - see detail on sheet S3) WIDTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.) BACK WALL OF GARAGE (FT.) GAR. WALL: 1=F-B, 2=S-S LENGTHS (ft.) & RESISTANCES FRONT-TO-BACK 48 126 0	62.5 32 2 WIND RESISTANCE (lbs.) 18816 49392 0	WIDTH OF 2ND DEPTH OF 2ND SIDE-TO 83 43 25
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E (PSF) -1.08 OUNDS) S E OF THE ABOVE TABLE I</td> <td>WIDTH OF 1ST STORY (FT.)         DEPTH OF 1ST STORY (FT.)         BACK WALL OF GARAGE (FT.)         GAR. WALL: 1=F-B, 2=S-S         LENGTHS (ft.) &amp; RESISTANCES         FRONT-TO-BACK         48         126         0         Anchor Bolt Spacing         diameter (in.)         Shear value (per NDS)         Spacing F-B (inches)         spacing S-S (inches)         State Value (per NDS)         Spacing S-S (inches)         STANCE PROVIDED BY EXTERIOR V         INTERIOR WALL LENGTH W/ 1/2"         GYPSUM BOARD PER TABLE (FT.)         30         30         30         30         Spacing S-S (inches)         SPACITIES (IF APPLICABLE),         LL BE ATTACHED WITH SAME STAPL         GHT SECTIONS OF 2'-8" OR LONGER         FANALYSIS         PRESSURE ZN. G (PSF)         -0.36         -7.9         251.6</td> <td>62.5 32 2 WIND RESISTANCE (lbs.) 18816 49392 0 (in.) 0.5 944 193.9 100.3 VALLS** INT. WALL LENGTH SHEATHED W/ OSB (TOTAL LENGTH, ONE SIDE, FT.) E/NAILING LE/NAILING TOTAL FORCE (LBS) -1571 UPLIFT OK CLENGTH OF 2'-8". ALL</td> <td>WIDTH OF 2ND DEPTH OF 2ND SIDE-TC 83 43 43 225 16d Nail S 2nd Flo 2nd Flo 2nd Flo 1st Floc 1st Floc 1st Floc 1st Floc 0 1st Floc 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>	IOR STRUCTURAL WALL RESISTANCE (lbs.) 23240 12040 12040 11750 RED IN ADDITION TO RES INTERIOR X-BRACES (325#/BRACE) EAR WALL RESISTANCE HEATHED WITH OSB SHA PLICABLE FOR FULL-HEIG WIND UPLIFT EOH -13.3, E -7.2, G -5.2 UPLIFT PER FT* (LBS) -1.08 PRESSURE ZN. E (PSF) -1.08 OUNDS) S E OF THE ABOVE TABLE I	WIDTH OF 1ST STORY (FT.)         DEPTH OF 1ST STORY (FT.)         BACK WALL OF GARAGE (FT.)         GAR. WALL: 1=F-B, 2=S-S         LENGTHS (ft.) & RESISTANCES         FRONT-TO-BACK         48         126         0         Anchor Bolt Spacing         diameter (in.)         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05/04/2020

