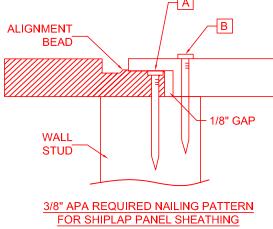


$1 \quad FOUNDATION PLAN$

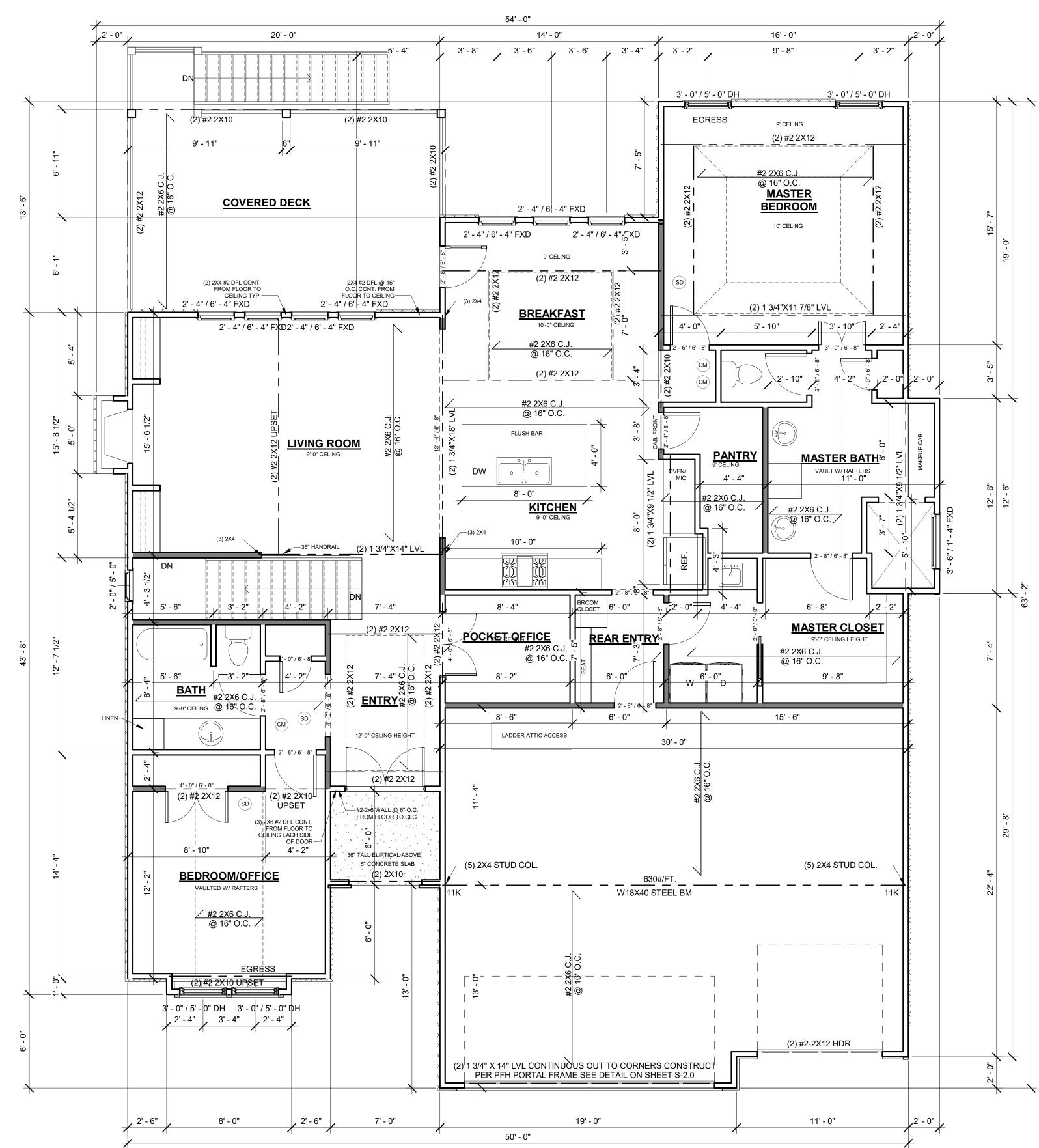




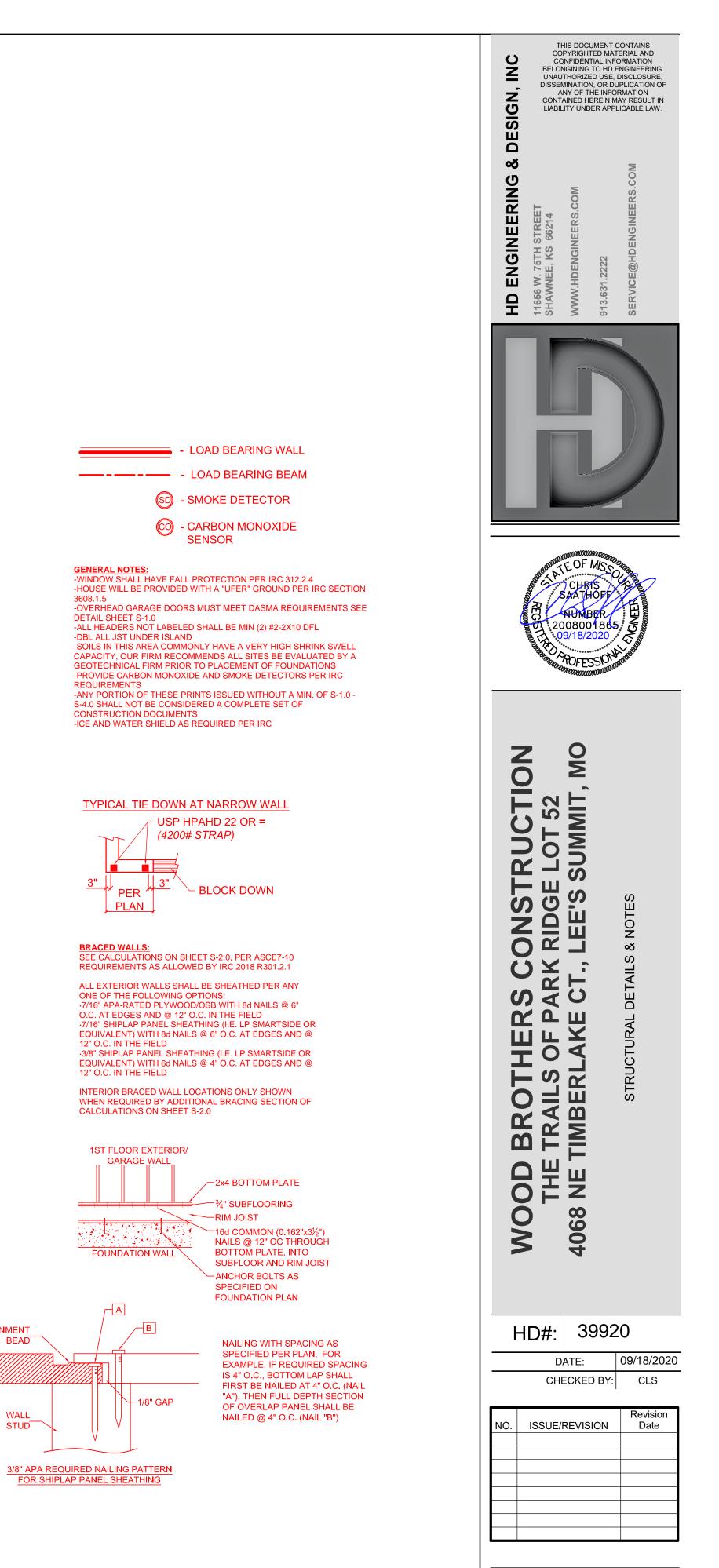
NAILING WITH SPACING AS SPECIFIED PER PLAN. FOR EXAMPLE, IF REQUIRED SPACING IS 4" O.C., BOTTOM LAP SHALL FIRST BE NAILED AT 4" O.C. (NAIL "A"), THEN FULL DEPTH SECTION OF OVERLAP PANEL SHALL BE NAILED @ 4" O.C. (NAIL "B")

PLANS DRAWN BY OTHERS

S-0.2







ALIGNMENT

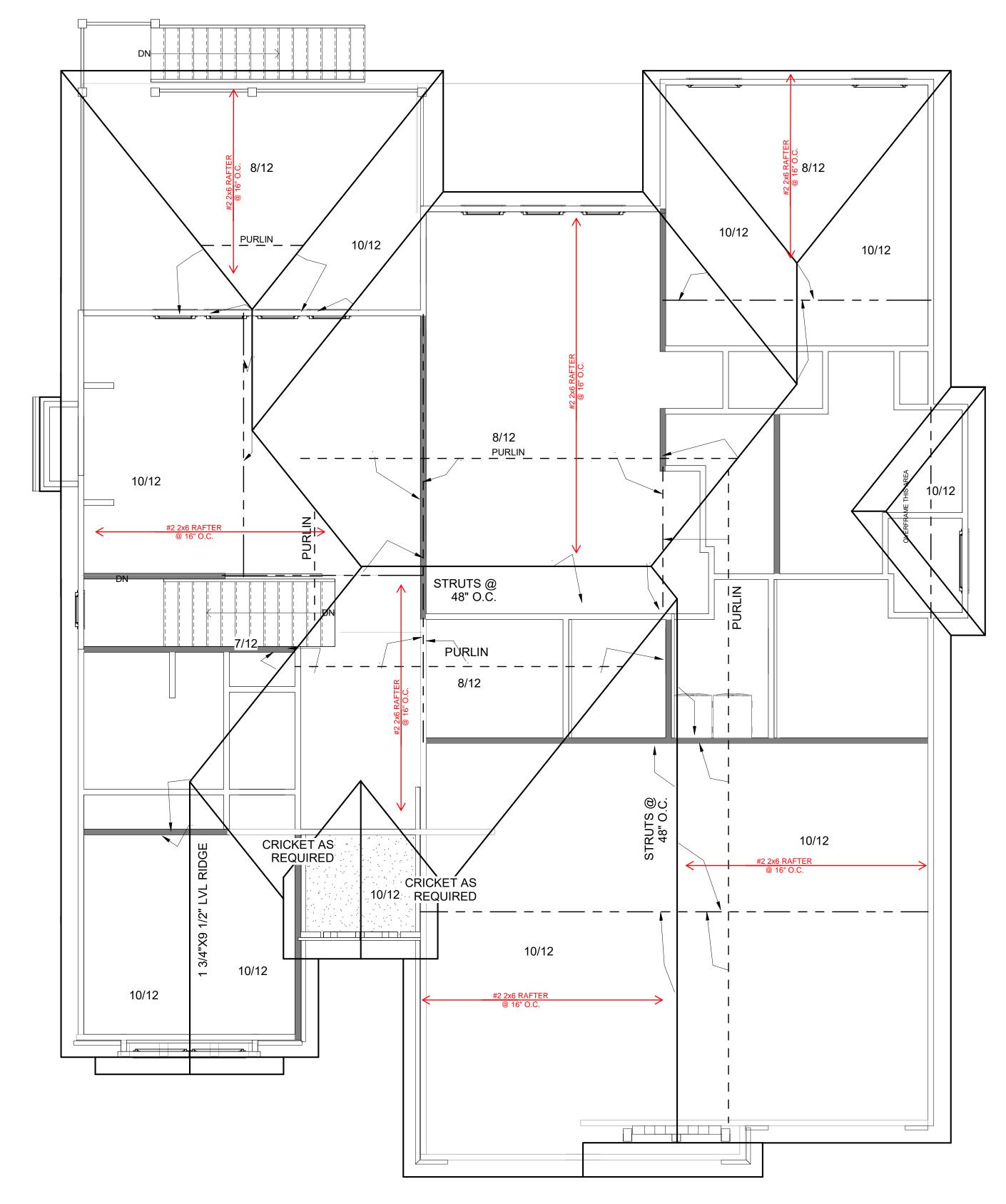
BEAD

WALL

STUD

PLANS DRAWN BY OTHERS

S-0.3



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

<u>NOTES</u>

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

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

CODE MINIMUM

RAFTERS	SPACING	MAX HORIZONTAL CLEARSPAN					
#2-2x6	@24" O.C.	11'-11"					
#2-2x6	@16" O.C.	14'-1"					
#2-2x8	@24" O.C.	15'-1"					
#2-2x8	@16" O.C.	18'-5"					
#2-2x10	@24" O.C.	18'-5"					
#2-2x10	@16" O.C.	22'-6"					
NOTE: CODE 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



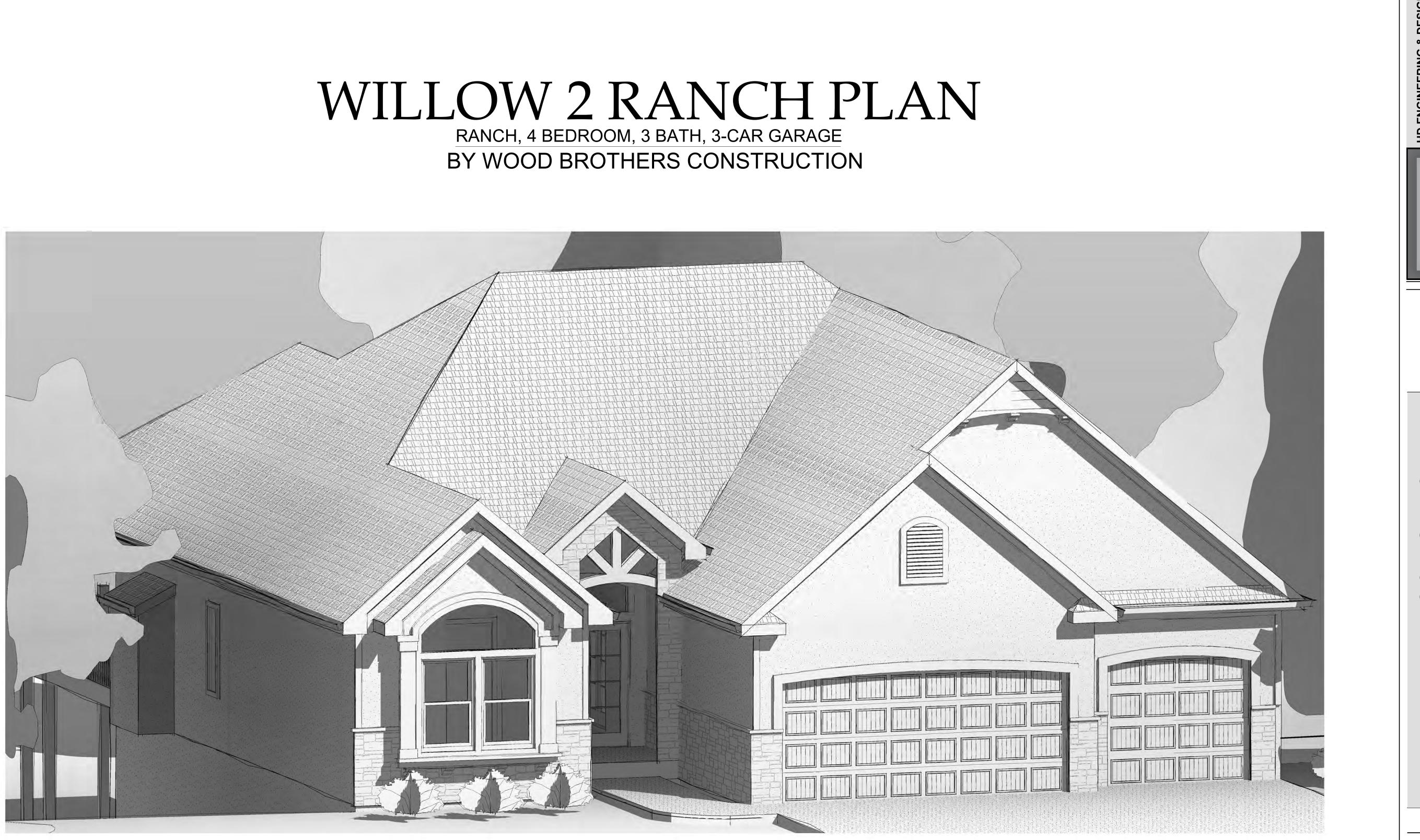


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	CHECKED BY:	CLS
NO.	ISSUE/REVISION	Revision Date

PLANS DRAWN BY OTHERS

S-0.4



1 3D VIEW

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WOOD BROTHERS CONSTRUCTION	AILS OF PARK RIDGE LOT 52	4068 NE TIMBERLAKE CT., LEE'S SUMMIT, MO		STRUCTURAL DETAILS & NOTES
H		ATE: ECKEI	O BY:	0 09/18/2020 CLS Revision Date

S-0.5

SQUARE FOOTAG	Έ
1ST FLOOR	1829 SF
Area	49 SF
COVERED DECK	257 SF
DECK	99 SF
FINISHED BASEMENT	1349 SF
FRONT STOOP	45 SF
GARAGE	646 SF
UNFINISHED BASEMENT	441 SF

ALLOWABLE LOADS FOR PNEUMATIC OR MECHANICALLY DRIVEN NAILS AND STAPLES

			PENETRATION	AL	LOWABLE LC	ADS (IN POUN	DS)	BUILDING COMPONENT	FASTEN TO	FASTEN WITH	
FASTENER DESCRIPTION	NAIL GUN NAILS/	WIRE GA.	REQUIRED INTO MAIN MEMBER FOR LATERAL	LATERAL	STRENGTH	WITHDRAWA	AL STRENGTH		RIDGE / VALLEY / HIP	TOENAIL W/ (4) 16D, FACENAIL W/ (3) 16D	
DESCRIPTION	WIRE DIA.	GA.	STRENGTH (IN.)	SP	DF/L	SP	DF/L		PLATE	TOENAIL W/ (4) 100, PACEINAIL W/ (3) 100 TOENAIL W/ (3) 100	
16 GA. STAPLE	.063	16	1	51		36	32	RAFTERS	LEDGER STRIPS SUPPORTING JOISTS OR RAFTERS	FACENAIL W/ (3) 16D	
15 GA. STAPLE	.072	15	1	64		42	37		COLLAR TIE TO RAFTERS	FACENAIL W/ (3) 10D	
14 GA. STAPLE	.080	14	1	75		46	41		TOP PLATE	TOENAIL W/ (3) 8D @ EACH END	
6d COOLER NAIL									WHERE CLG JST RUN PARALLEL TO RAFTERS FAC		
6d SINKER NAIL	.092	13	1	46		27	23	CEILING JOISTS	LAPS OVER PARTITIONS	FACENAIL W/ (3) 10D	
6d BOX NAIL									BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	TOENAIL W/ (3) 8D	
6d CASING NAIL	.099	12-1/2	1-1/8	61	55	31	24				
7d COOLER NAIL									BUILT-UP BEAMS, 2" LUMBER LAYERS, FACENAIL OPPOSITE SIDES, (2) @ EACH END PLUS	10D @ 32" OC STAGGERED, TOP & BOTTOM, OPPOSITE SIDES	
6d COMMON NAIL											
8d COOLER NAIL								BEAMS	BUILT-UP BEAMS OF ENGINEERED LUMBER, FACE NAIL OPPOSITE SIDES	(2) ROWS @ 12" OC	
8d SINKER NAIL	.113	11-1/2	1-1/4	79	72	35	28		BUILT-UP HEADER, TWO PIECES W/ 1/2" SPACER	16D @16" OC ALONG EDGES	
8d BOX NAIL									BUILT-UP HEADER, TWO PIECES, NO 1/2" SPACER	3" x 0.131" NAILS @ 12" OC ALONG EDGE	
8d CASING NAIL									BEARING	TOENAIL W/ (2) 18D @ EACH END	
6d RING SHANK NAIL										TOENAIL W/ (2) 18D @ EACH END	
d SCREW SHANK NAIL	.120	11	1-3/8	89	81	A1	32		RIM JOIST TO SILL OR TOP PLATE	NAILS @ 6" OC	
8d RING SHANK NAIL	.120		1-5/0	09	01	41	41	52	FLOOR JOISTS	JOIST TO SILL OR GIRDER	TOENAIL W/ (3) 8D
3d SCREW SHANK NAIL									JOIST TO RIM JOIST	FACENAIL W/ (3) 16D	
10d Cooler Nail									BRIDGING TO JOIST	TOENAIL W/ (2) 8D	
10d Sinker Nail	.128	10-1/2	1-1/2	89	81	36	31			TOENAIL W/ (2) 8D - ONE INTO EACH SIDE	
12d Short									I-JOIST TO BEARING PLATE	LEAST 1 1/2" FROM THE END	
10d Box Nails										FACENAIL W/ (2) 10D BOX NAILS - ONE IN	
12d Box Nails	.128	10-1/2	1-1/2	101	93	40	31		RIM JOIST TO I-JOIST	EACH FLANGE	
10d Casing Nails									SOLE PLATE TO LSL RIM BOARD	16D BOX NAILS @ 12" OC	
8d Common Nails	.131	10-1/4	1-1/2	106	97	41	32		SINGLE JOIST HANGERS *	10D FACENAILS AND TOENAILS	
16d Short	. 131	10-1/4	1-1/2	100	97	41	52		DOUBLE JOIST HANGERS *	16D FACENAILS AND TOENAILS	
12d Sinkers	.135	10	1-1/2	113	103	42	33		TOP & SOLE PLATE TO STUD	END NAIL W/ (2) 16D	
16d Box Nails	.155	10	1-1/2	115	103	42			STUD TO SOLE AND TOP PLATE	TOENAIL W/ (4) 8D	
10d Ring Shank Nails									DOUBLE TOP PLATES	FACENAIL W/ 16D @ 16" OC	
10d Screw Shank Nails	.135	10	1-5/8	113	103	46	36		DOUBLE TOP PLATE LAP SPLICE	FACENAIL W/ (8) 16D	
12d Ring Shank Nails									TOP PLATE LAPS & INTERSECTIONS	FACENAIL W/ (2) 16D	
12d Screw Shank Nails									DOUBLE STUDS	FACENAIL W/ 16D @ 24" OC	
10d Common Nails									BUILT-UP CORNER STUDS	FACENAIL W/ 16D - 2 ROWS @ 24" OC	
12d Common Nails										FACENAIL W/ (2) 16D IN EACH TOP &	
16d Sinker Nails	.148	9	1-5/8	128	118	46	36		STEEL "X" BRACING	BOTTOM PLATE & (1) 8D PER STUD	
20d Box Nails								WALLS	SOLE PLATE TO JOIST OR BLOCKING	FACENAIL W/ 16D @ 16" OC	
30d Box Nails									SOLE PLATES TO JOIST OR BLOCKING AT BRACED WALL	FACENAIL W/ (3) 16D @ 16" OC ALONG	
16d Ring Shank Nails	.148	9	1-3/4	128	118	50	40		LINES, PERPENDICULAR TO FRAMING	BRACED WALL PANEL	
16d Screw Shank Nails	. 140	3	1-0/4	120	110		- 1 0		TOP PLATE TO JOIST OR BLOCKING AT BW LINES,	TOENAIL W/ 8D @ 6" OC ALONG	
16d Common Nails	.162	8	1-3/4	154	141	50	40		PERPENDICULAR TO FRAMING	BRACED WALL PANEL	
40d Box Nails	. 102						U U		SOLE PLATES TO JOIST OR BLOCKING AT BW LINES	FACENAIL W/ (3) 16D @ 16" OC ALONG B	
20d Ring Shank Nails	.177	7	2-1/8	178	163	59	47		PARALLEL TO FRAMING, BLOCKING @ 16" OC	PANEL & AT EACH BLOCK	
20d Screw Shank Nails									TOP PLATE TO JOIST OR BLOCKING AT BW LINES,	TOENAIL W/ 8D @ 6" OC ALONG BW	
20d Sinker Nails	.177	7	2-1/8	178	163	54	43		PARALLEL TO FRAMING, BLOCKING @ 16" OC	PANEL & AT EACH BLOCK	
20d Common Nails	.148	9	2-1/8	170	166	59	47		NON-STRUCT. SIDING OVER STRUCT. SHEATHING	(1) 6D BOX NAIL IN EACH STUD	
30d Sinker Nails	. 140	9	2-1/0	170			77		FIBER CEMENT PLANK SIDING	(1) 6D GALVANIZED NAIL IN EACH STUD	
									WINDOW INSTALLATION NAILING	1 3/4" - 2" ROOFING NAILS @ 12" OC MA	

SHEATHING SCHEDULE

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

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

INSPECTOR.

EXCEPTIONS: SEALS.

FRAME FASTENING SCHEDULE

* JOIST HANGER NOTES: 1) NO JOIST HANGER NAILS ALLOWED FOR TOENAILS, 2) NO GUN NAILS OR SCREWS ALLOWED IN CONNECTORS, 3) TOENAILS SHALL ALWAYS BE A FULL 3" OR 3.5" NAIL

COLUMN CONNECTION TO STEEL BEAMS SHALL BE WITH A CLIP POST CAP WITH ALL FOUR TAB EARS BENT AROUND THE BOTTOM FLANGE OF THE BEAM. FOR A BEARING PLATE, FOUR HOLES SHALL BE DRILLED IN THE BOTTOM FLANGE OF THE STEEL BEAM TO MATCH THE HOLE PATTERN OF THE PLATE. 1/2"x2" BOLTS SHOULD THEN BE INSTALLED WITH A FLAT WASHER, LOCK WASHER, AND A NUT IN EACH OF THE HOLES. THE POST CAP MAY BE WELDED TO THE STEEL BEAM IN ACCORDANCE WITH AWS D1.1-92 AS AN ALTERNATIVE, AND WOULD NEED TO BE INSPECTED BY AN AWS-CERTIFIED

DUCT SEALING METHOD, PER IRC2018 W1103.3.2

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

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

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

DUCT TIGHTNESS SHALL BE VERIFIED BY EITHER OF THE FOLLOWING:

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

2. ROUGH-IN TEST: TOTAL AIR LEAKAGE SHALL BE LESS THAN OR EQUAL TO 4 CFM (113.3 L/MIN) PER 100FT² (9.29m²) OF CONDITIONED FLOOR AREA WHEN TESTED AT A PRESSURE DIFFERENTIAL OF 0.1 INCHES W.G. (25 Pa) ACROSS THE ENTIRE SYSTEM, INCLUDING THE MANUFACTURER'S AIR HANDLER ENCLOSURE. ALL REGISTERS SHALL BE TAPED OR OTHERWISE SEALED DURING THE TEST. IF THE AIR HANDLER IS NOT INSTALLED AT THE TIME OF THE TEST. TOTAL AIR LEAKAGE SHALL BE LESS THAN OR EQUAL TO 3 CFM (85 L/MIN) PER 100FT² (9.29m²) OF CONDITIONED FLOOR AREA. EXCEPTION: THE TOTAL LEAKAGE IS NOT REQUIRED FOR DUCTS AND AIR HANDLERS LOCATED ENTIRELY WITHIN THE BUILDING THERMAL ENVELOPE.

GENERAL NOTES

OR DEVIATIONS ARE MADE FROM THESE PLANS THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE AUTHORITY AND THE ENGINEER TO EVALUATE THE CHANGES AND MAKE ANY APPROPRIATE MODIFICATIONS TO THE PLANS. 2. WHERE DISCREPANCIES EXIST BETWEEN THE STANDARD COMMENTS, NOTES FOR THE DESIGN PROFESSIONAL OR THE CODE, THE MOST RESTRICTIVE SHALL APPLY. 3. THE CONTRACTUAL OBLIGATION OF THESE PLANS IS TO PROVIDE THE OWNER/BUILDER AND THE AHJ WITH A SET OF PLANS THAT MEET AHJ AND CODE REQUIREMENTS FOR A SINGLE SITE CONSTRUCTION PROJECT. UNLESS REQUESTED BY OUR CLIENT, CODE/AHJ MINIMUM DESIGNS WILL BE UTILIZED. ALSO, UNLESS REQUESTED BY THE OWNER, OUR FIRM CAN NOT AND WILL NOT BE AUTHORIZED TO VISIT THE SITE TO EVALUATE THE SITE OR ANY CONSTRUCTION FOR THIS PROJECT. IMPLEMENTATION OF ALTERNATES TO THE DESIGNS INCLUDING BUT NOT LIMITED TO PIER DESIGNS, FOUNDATION ALTERATIONS, OR ANY STRUCTURAL CHANGES NOT PROVIDED BY HD ENGINEERING OR A PROFESSIONAL REFERRED BY HD ENGINEERING SHALL RELEASE HD ENGINEERING FROM ALL LIABILITY ASSOCIATED WITH THIS DESIGN. 4. OUR FIRM HIGHLY RECOMMENDS THAT ANY SITE WITH GREATER THAN A 15% GRADE, ANY SITE WHERE A PREVIOUS STRUCTURE WAS LOCATED, OR ANY SITE WITH POTENTIAL FILL MATERIAL OR A POTENTIAL SOIL BEARING CAPACITY BELOW 1500 PSF SHOULD BE EVALUATED BY OUR FIRM OR AN HD ENGINEERING REFERRED GEOTECHNICAL FIRM PRIOR TO PLACING FOOTINGS. THE ATTACHED PLANS HAVE BEEN DESIGNED WITH THE UNDERSTANDING THAT OUR FIRM HAS NOT AND CAN NOT VISIT OR INSPECT THE SITE WITHOUT WRITTEN CONSENT/REQUEST OF THE OWNER/BUILDER. DUE TO THIS FACT OUR FIRM CAN ONLY DESIGN THE ATTACHED PLANS TO CERTAIN CODE REQUIREMENTS WHICH ARE DETAILED THROUGHOUT THE PLAN AND ATTACHED DETAIL SHEETS, IF THE OWNER DESIRES GREATER THAN CODE DESIGNS THAT REQUEST MUST BE MADE CLEARLY AND IN WRITING PRIOR TO ENGINEERING OF THE PLAN. 5. DUE TO THE WIDE VARIETY OF SOIL CONDITIONS IN OUR AREA AND THE WIDE VARIETY OF PLASTICITY INDEX AND SOIL BEARING CAPACITIES OUR FIRM RECOMMENDS ALL SITES BE EVALUATED BY HD ENGINEERING OR AN HD ENGINEERING REFERRED GEOTECHNICAL FIRM PRIOR TO PLACEMENT OF ANY "STANDARD" FOUNDATIONS .

FOUNDATION NOTES

REQUIREMENTS BASED ON ACTUAL SITE CONDITIONS 2. FOUNDATION WALLS SHALL BE DAMP-PROOFED PER IRC SECTION R406. 3. PROVIDE A MINIMUM 4" PERFORATED DRAIN AROUND USABLE SPACE BELOW GRADE OR OTHER EQUIVALENT MATERIALS PER IRC SECTION 405.1. THE PIPE SHALL BE COVERED WITH NOT LESS THAN 6" OF WASHED GRAVEL OR CRUSHED ROCK. THE DRAIN SHALL DAYLIGHT TO THE EXTERIOR BELOW THE FLOOR LEVEL OR TERMINATE IN A MINIMUM 20 GALLON SUMP PIT.

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

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

8. REINFORCEMENT SHALL LAP A MINIMUM OF 24"

9. INTERIOR BEARING WALLS AND COLUMNS SHALL BE ISOLATED FROM THE BASEMENT FLOOR SLAB. 10. INTERIOR NON-BEARING WALLS, OTHER THAN THOSE RESTING DIRECTLY ON THE FOOTING, SHALL BE ISOLATED FROM THE FLOOR FRAMING ABOVE BY A SEPARATION OF 1/2" 11. CONCRETE FLOOR SLABS ON GRADE, SHALL BE A MINIMUM 4" THICK OVER A MINIMUM 4" BASE OF SAND, GRAVEL, OR CRUSHED STONE, BASEMENT SLABS SHALL HAVE A MIN. 6 MIL POLYETHYLENE OR APPROVED VAPOR RETARDER WITH JOINTS LAPPED NOT LESS THAN 6" SHALL BE PLACED BETWEEN THE FLOOR SLAB AND THE BASE

COURSE

DESIGN

SPACED NOT MORE THAN 3' ON CENTER AND WITHIN 12" OF EACH END PIECE PER IRC SECTION R403.1.6. 14. FOUNDATION WINDOW WELLS FOR SECONDARY MEANS OF EGRESS SHALL PROVIDE A MINIMUM 3'X3' HORIZONTAL AREA. 15. THE BASE OF ALL FOOTING EXCAVATIONS SHOULD BE FREE OF ALL WATER AND LOOSE MATERIAL PRIOR TO PLACING CONCRETE, CONCRETE SHOULD BE PLACED AS SOON AS POSSIBLE AFTER EXCAVATING SO THAT EXCESSIVE DRYING OR DISTURBANCE OF BEARING MATERIALS DOES NOT OCCUR. SHOULD THE MATERIALS AT BEARING LEVEL BECOME EXCESSIVELY DRY OR SATURATED. WE RECOMMEND THAT THE AFFECTED MATERIAL BE REMOVED PRIOR TO PLACING CONCRETE 16. IT IS RECOMMENDED THAT ALL FOOTING EXCAVATIONS BE EVALUATED AND TESTED BY A GEOTECHNICAL ENGINEER IMMEDIATELY PRIOR TO PLACEMENT OF FOUNDATION CONCRETE. UNSUITABLE AREAS IDENTIFIED AT THIS TIME SHOULD BE CORRECTED. CORRECTIVE PROCEDURES WOULD BE DEPENDENT UPON CONDITIONS ENCOUNTERED AND MAY INCLUDE DEEPENING OF FOUNDATION ELEMENTS, OR UNDERCUTTING OF UNSUITABLE MATERIALS AND REPLACEMENT WITH ENGINEERED FILL.

STAIRWAY NOTES:

1. STAIRWAYS SHALL PROVIDE A MAXIMUM 7 3/4" RISE AND MIN. 10" RUN. 2. PROVIDE MINIMUM 36" GUARDRAILS ON THE OPEN SIDES OF RAISED FLOORS, PORCHES AND BALCONIES. MINIMUM 34" GUARDRAILS ON THE OPEN SIDES OF STAIRWAYS LOCATED MORE THAN 30" ABOVE THE FLOOR OR GRADE BELOW. GUARDRAIL ENCLOSURES SHALL HAVE INTERMEDIATE RAILS OR ORNAMENTAL PATTERNS THAT DO NOT ALLOW PASSAGE OF A SPHERE 4" IN DIAMETER

3. EACH STAIRWAY OF 3 OR MORE RISERS SHALL PROVIDE A CONTINUOUS HANDRAIL ON AT LEAST ONE SIDE BETWEEN 34" AND 38" ABOVE THE NOSING OF THE THREADS. 4. HANDRAILS SHALL HAVE A CIRCULAR CROSS-SECTION OF 1 1/4" MINIMUM TO 2" MAXIMUM OR OTHER APPROVED GRASPABLE SHAPE PER IRC SECTION R311.7.8.5 5. PROVIDE A MINIMUM 6'-8" OF HEADROOM CLEARANCE IN STAIRWAYS. 6. ENCLOSED ACCESSIBLE SPACE UNDER STAIRWAYS SHALL HAVE WALLS AND THE UNDERSIDE OF THE STAIR AND LANDING PROTECTED WITH 1/2" GYPSUM BOARD ON ENCLOSURE SIDE

7. WINDERS SHALL PROVIDE A MINIMUM TREAD OF AT LEAST 6" AT ANY POINT WITHIN CLEAR WIDTH OF STAIRS. WINDER TREAD PROPORTION TO COMPLY WITH IRCR311.7.5.2.1.

<u>GLAZING NOTES:</u>

1. GLAZING IN HAZARDOUS LOCATIONS AS IDENTIFIED IN IRC SECTION R308.4 SHALL BE OF APPROVED SAFETY GLAZING MATERIALS. GLASS IN STORM DOORS, INDIVIDUAL FIXED OR OPERABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24" ARCH OF THE DOOR IN A CLOSED POSITION AND WHOSE 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)

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

1. PLANS SHALL COMPLY WITH THE 2018 INTERNATIONAL RESIDENTIAL CODE, IECC AS ADOPTED BY AHJ, AND ALL AMENDMENTS AS ADOPTED BY THE AHJ, IF ANY CHANGES

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ONTAINED HEREIN MAY RESULT IN ILITY UNDER APPLICABLE LAW

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

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

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

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

										THE DWELLING SHALL COMPLY WITH THE FOLLOWI		NDITIONS		
ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF ^{a,b,c} FASTENER	SPACING OF FASTENERS	ITEM	DESCRIPTION OF B			NUMBER AND TYPE OF a,b,c FASTENER	EDGE	SPACING OF FASTEN	ERS MEDIATE c. e TS (INCHES)	AREA	MIN DEAD LOAD	MIN LIVE LOAD
		ROOF		WOOD S				LL SHEATHING TO FRAMING AND PARTICLEB		EATHING TO FRAMING		EXTERIOR BALCONIES	10	60
1	BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOE NAIL	4-8D BOX (2 1/2" X 0.113") 3-8D (2 1/2" X 0.113")	TOE NAIL		[SEE TA	ABLE R602.3(3) FOR WOOI	D STRUCTUR	AL PANEL EXTERIOR WALL SHEATHING TO W	ALL FRAMING]			DECKS, STAIRS	10	40
2	CEILING JOISTS TO PLATE, TOE NAIL	3-10D (3"X0.128") 3-3"X 0.131" NAILS	PER JOIST, TOE NAIL	30	3/8"-	'- 1/2"		6D COMMON (2"X 0.113" NAIL (SUBFLOOR, W/ D COMMON (2 1/2" X 0.131 NAIL (ROOF); or RSR		6	12 f	CEILING JOISTS / ATTICS NO STORAGE - SCUTTLE ACCESS ONLY ROOF SLOPE 3:12 OR LESS	10	10
3	CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (SEE SECTION R802.5.2 AND TABLE R802.52	4-10D BOX (3"X 0.128") 3-16D COMMON (3 1/2"X 0.162") 4-3"X 0.131"NAILS	FACE NAIL	31				3/8" X 0.113" NAIL (ROOF) j 3D COMMON NAIL (2 1/2" X 0.131; or RSRS-01; 2	`		12 f	CEILING JOISTS / ATTICS NO STORAGE - SCUTTLE ACCESS ONLY ROOF SLOPE OVER 3:12 CEILING JOISTS / ATTICS WITH STORAGE - DOOR	10	10
4	CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT) SEE SECTION R802.5.2 AND TABLE R802.5.2)	TABLE R802.5.2	FACE NAIL	32	1 1/8"	- 1 1/4"		0.113) NAIL ROOF 1 10D COMMON NAIL (3" X 0.148) NAIL; or 8D (2 1	1/2" X	6	12	PULL DOWN LADDER ACCESS ROOMS: NON-SLEEPING	10 10	20 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				OTHE	0.131") DEFORMED NAIL				ROOMS: SLEEPING ROOF: LIGHT ROOF COVERING	10 10	30 20
6	RAFTER OR ROOF TRUSS TO PLATE	3-16D BOX NAILS (3 1/2" X0.135") 3-10D COMMON NAILS (3" X 0.148" 4-10D BOX (3" X 0.128" 4-3" X0.131" NAILS	2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS ¹	33 1/2" S	STRUCTURAL CELLULO	SE FIBERBOARD SHEATH	HING	1/2" GALVANIZED ROOF NAIL, 7/16" HEAD DIAM OR 1 1/4" LONG 16GA. STAPLE WITH 7/16" OF CROWN	R 1"	3	6	ROOF: HEAVY ROOF COVERING / CONCRETE / TILE / SLATE GUARDRAILS, HANDRAILS	20 200# L	20 NORMAL
7	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	TOE NAIL	34 25/32" 5	STRUCTURAL CELLULO	OSE FIBERBOARD SHEATI	THING 1	3/4" GALVANIZED ROOF NAIL, 7/16" HEAD DIAM OR 1 1/2" LONG 16GA. STAPLE WITH 7/16" OR 1" CF	ROWN	3	6	HEAVY ROOF COVERING MATERIAL (TILE, CONCRETE, BE USED UNLESS 20 PSF DEAD LOAD AND HEAVY ROO ROOF PLAN. IF HEAVY ROOFING IS TO BE USED AND N PLAN NOTIFY ENGINEER PRIOR TO ANY CONSTRUCTION	OF IS NOTED	ON 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	TOENAL	35	1/2" GYPSUM	M SHEATHING ^d	1	1/2" GALVANIZED ROOF NAIL, STAPLE GALVAI 11/2" LONG; 1 1/4" SCREWS, TYPE W or S		7	7	FOUNDATION AND SITE WORK. IF THE PLAN HAS BEEN DES ROOF LOADS IT WILL BE NOTED IN THE ROOF NOTES ON TH		
		WALL		36	5/8" GYPSUN	M SHEATHING d	1	3/4" GALVANIZED ROOF NAIL; STAPLE GALVAI 1 5/8" LONG; 1 5/8" SCREWS, TYPE W or S		7	7			
8	STUD TO STUD (NOT BRACED WALL PANELS)	16D (3 1/2" X 0.162")	24" OC FACE NAIL			WOOD STRUCTURAL PA	ANELS, COMBI	INATION SUBFLOOR UNDERLAYMENT TO FRA	AMING					
		10D BOX (3" X 0.128"); OR 3" X 0.131" NAILS	16" OC FACE NAIL					6D DEFORMED (2" X 0.120") NAIL OR				<u>COLUMN SCH</u>	EDU	LE
9	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	12" OC FACE NAIL	37	3/4" AN	ND LESS		8D COMMON (2 1/2" X 0.131") NAIL		6	12	BASED ON FOOTING SIZE (ASSUME	E 1500 PSF \$	OIL)
		16D COMMON (3 1/2" X 0.162")						8D COMMON (2 1/2" X 0.131") NAIL OR	 		40			,
10	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	38	7/8"	" - 1"		8D DEFORMED (2 1/2" X 0.120") NAIL		6	12	PAD SIZE REINFORCEMENT MIN	L. COL I. TYPI	LOAD
		5-8D BOX (2 1/2" X 0.113") or 4-8D COMMON	12 OC EACH EDGE FACE NAIL	30	1 1/8"	- 1 1/4"		10D COMMON (3" X 0.148") NAIL OR		6	12	24x24x12 (4) #4 BARS E/W 3"	SCH4	0 6K
11	CONTINUOUS HEADER TO STUD	(2 1/2" X 0.131") 4-10D BOX (3" X 0.128")	TOE NAIL	59	1 1/0	- 1 1/4		8D DEFORMED (2 1/2" X 0.120") NAIL		0	12	30x30x12 (5) #4 BARS E/W 3"	SCH4	0 9.4K
		16D COMMON (3 1/2" X 0.162")	16" OC FACE NAIL	For SI: 1 inch = 25.4m	nm, 1 foot = 304.8 mm, 1 r	mile per hour = 0.447 m/s; 1	1 ksi = 6.895 MP	Pa.				36x36x12 (6) #4 BARS E/W 3"	SCH4	0 13.5K
12	TOP PLATE TO TOP PLATE	10D BOX (3" X 0.128") OR 3" X 0.131" NAILS	12" OC FACE NAIL									42x42x14 (7) #4 BARS E/W 3 1/2		
13	DOUBLE TOP PLATE SPLICE	8-16D COMMON (3 1/2" X 0.162"); or 12-16D BOX (3 1/2" X 0.135"); or 12-10D BOX (3" X 0.128"); or 12-3" X 0.131" NAILS	FACE NAIL ON EACH SIDE OF END JOINT (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)		BLE R 60	2.3(5) SIZE	<u>E, HEI</u>	GHT, AND SPACIN	NG OF	NON-BEARING WALLS		48x48x16 (8) #4 BARS E/W 3 1/2 54x54x16 (9) #4 BARS E/W 3 1/2 00x00x40 (40) #4 DADD EAM 3 1/2	2" SCH4	0 30.4K
14	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING	16D COMMON (3 1/2" X 0.162")	16" OC FACE NAIL		LATERALLY		MAXIMUM SPA	ACING MAXIMUM SPACING MAXIMU	IM SPACING	LATERALLY	LATERALLY	60x60x18 (10) #4 BARS E/W 3 1/2	2" SCH4	0 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		UNSUPPORTED WH STUD HEIGHT a		NHERE SUPPC ONE FLOOR, P		SUPPORTING DOR HEIGHT a	UNSUPPORTED STUD HEIGHT a	UNSUPPORTED S HEIGHT	STUD COLUMN CONNECTION TO STEEL BEAMS SHA	ALL BE WITH	A CLIP POST C
15	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS	3-16D BOX (3 1/2" X 0.135"); or 2-16D COMMON (3 1/2" X0.162"); or 4-3" X 0.131" NAILS	3, 2, OR 4 EACH 16" OC FACE NAIL	(IN)	(ROOF-CEILI ASSEMBLY (HABITABLE A ASSEMBLY (in	OR A ASSEMBLY OR A ATTIC HABITABLE ATTIC	nches)	(feet)	(feet)	ALL FOUR TAB EARS BENT AROUND THE BOT BEARING PLATE, FOUR HOLES SHALL BE DRIL STEEL BEAM TO MATCH THE HOLE PATTERN SHOULD THEN BE INSTALLED WITH A FLAT WA	LLED IN THE OF THE PLA ASHER, LOC	BOTTOM FLAN FE. 1/2" X 2" BC K WASHER, AN
16	TOP OR BOTTOM PLATE TO STUD	4-8D BOX (2 1/2" X 0.113"); or 3-16D BOX (3 1/2" X0.135"); or 4-8D COMMON (2 1/2" X0.131");or 4-10D BOX (3" X0.128"); or 3-3" X 0.131" NAILS	TOE NAIL				\bigcirc					EACH OF THE HOLES. THE POST CAP MAY BE ACCORDANCE WITH AWS D1.1-92 AS AN ALTE INSPECTED BY AN AWS-CERTIFIED INSPECTO	ERNATIVE, AI	
		3-16D BOX (3 1/2" X 0.135"); or 2-16D COMMON (3 1/2" X0.162"); or 3-10D BOX (3" X0.128");or 3-3" X 0.131" NAILS	END NAIL											
17	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	3-10D BOX (3" X 0.128"); or 2-16D COMMON (3 1/2" X0.162"); or 3-3" X 0.131" NAILS	FACE NAIL	2x3 ^b 2x4		 24 c	 16 c		24	10	16			
18	1" BRAVE TO EACH STUD AND PLATE	3-8D BOX (2 1/2" X 0.113"); or 2-8D COMMON (2 1/2" X0.131") or 2-10D BOX (3" X 0.128"); or 2 STAPLES 1 3/4"	FACE NAIL	3x4	10	24	24	16	24	14	24	ENGINEERED LU	JMBE	R
19	1" X 6" SHEATHING TO EACH BEARING	3-8D BOX (2 1/2" X 0.113"); or 2-8D COMMON (2 1/2" X0.131") or 2-10D BOX (3" X 0.128"); or 2 STAPLES 1" CROWN, 16GA., 1 3/4" LONG	FACE NAIL	2x5 2x6	10	24 24	24	16	24 24	20	24 24	MIN. DESIGN REQUIREMENT	тs]
20	1" X 8" AND WIDER SHEATHING TO EACH BEARING	3-8D BOX (2 1/2" X 0.113"); or 3-8D COMMON (2 1/2" X0.131") or 3-10D BOX (3" X 0.128"); or 3 STAPLES, 1" CROWN, 16GA., 1 3/4" LONG	FACE NAIL	a. LISTED HEIGHTS / ON NOT LESS THAN (UNSUPPORTED HEIG	ONE SIDE OR BRIDGING	VEEN POINTS OF LATERAL G SHALL BE INSTALLED N	NOT GREATER	LACED PERPENDICULAR TO THE PLANE OF T THAN 4 FEET APART MEASURED VERTICALLY ON 2 OF SECTION R602.3.1 OR DESIGNED IN AG	Y FROM EITHER	END OF THE STUD. INC	REASES IN	F _b (psi) E (psi) LVL 2600 1.8x10	F _v (psi) 285	
		WIDER THAN 1" X 8" 4-8D BOX (2 1/2" X 0.113"); or 3-8D COMMON (2 1/2" X0.131") or 3-10D BOX (3" X 0.128"); or 4 STAPLES, 1" CROWN, 16GA., 1 3/4" LONG		PRACTICES. b. SHALL NOT BE US c. A HABITABLE ATT	JSED IN EXTERIOR WAL	LS RTED BY 2X4 STUDS IS LIN	MITED TO A RO	OOF SPAN OF 32 FEET. WHERE THE ROOF SPA	AN EXCEEDS 3	2 FEET. THE WALL STUD	OS SHALL BE	GLULAM 2400 1.8x10	190	
		FLOOR						CCEPTED ENGINEERING PRACTICE.		,		PARALAM 2600 2.0x10	290	l
21	JOIST TO SILL, TOP PLATE OR GIRDER	4-8D BOX (2 1/2" X 0.113"); or 3-8D COMMON (2 1/2" X0.131") or 3-10D BOX (3" X 0.128"); or 3-3" X 0.131: NAILS	TOE NAIL				-	MENT EFFICIENCY				L / VAULTED CEILING		
22	RIM JOIST, BAND JOIST OR BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO)	8D BOX (2 1/2" X 0.113") 8D COMMON (2 1/2" X 0.131"); or 10D BOX(3" X0.128") or 3-3" X 0.131" NAILS	4" OC TOE NAIL 6" OC TOE NAIL	VALUES	S BY CON	<u>IPONENI,</u>	, PER	IRC2018 N1103.6. ⁴	1	<u>F</u>		SAND INSULATION SULATION REQUIRED, <u>SEE DETAIL 14/S-1.2</u>		
23	1" X 6" SUBFLOOR OR LESS TO EACH JOIST	3-8D BOX (2 1/2" X 0.113"); or 2-8D COMMON (2 1/2" X0.131") or 3-10D BOX (3" X 0.128"); or 2 STAPLES, 1" CROWN, 16GA., 1 3/4" LONG	FACE NAIL			MINIMUM (CFM)	MINIMUM EFFI CFM/WAT	T MAXIMUM (CFM)	BE	TWEEN THE TOP OF TH DTE: RAFTER SIZES SPE	IE INSULATION AND T	THE BOTTOM OF THE RAFTERS, A MINIMUM 1" AIR SPAC THE SHEATHING FOR VENTILATION (R806.3) RE THE MINIMUM REQUIRED FOR STRUCTURAL PURPOSI		PROVIDED
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	7	HRV OR ERV RANGE HOOD	ANY ANY	1.2 CFM/WA 2.8 CFM/WA	ATT ANY	IF Of	R ADEQUATE FURRING S	SHALL BE USED TO C	R MINIMUM INSULATION VALUE, RAFTER SIZES WILL NEE DBTAIN THE MINIMUM JOIST DEPTH FOR THE REQUIRED I IT SHALL BE VERIFIED THAT THE RIDGE BE A MINIMUM O	INSULATION	. IN
25	2" PLANKS (PLANK & BEAM-FLOOR AND ROOF)	3-16D BOX (3 1/2" X 0.135"); or 2-16D COMMON (3 1/2" X0.162")	AT EACH BEARING, FACE NAIL	BATHF	IN-LINE FAN ROOM UTILITY FAN	ANY 10	2.8 CFM/WA			RGER THAN THE RAFTE	VALUE 2x6	2x8 2x10	2x12	
26	BAND OR RIM JOIST TO JOIST	3-16D COMMON (3 1/2" X 0.162"); or 4-10D BOX (3" X0.128") or 4-3" X 0.131" NAILS; or 4-3" X 14GA. STAPLES, 7/16" CROWN	END NAIL		ROOM UTILITY FAN	90	2.8 CFM/WA			1" AIR SPACE (FIBERG	LASS) R-13, 3 1/		R-38, 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	MINIM VALUES BELOW ARE F	PER 2018 IECC, ACTUAL VALUES M	MAY VARY BASED ON ALTERNATE EN	FENS	STRATION VALUE PATH CHOSEN (IN JURISDITIONS WHERE ALTERNATIVE PATHS AR	SBY (ENT, PE	<u>R IRC2018 N1102.1.2</u>		
		AND: 2-20D COMMON (4" X 0.192"); or	STAGGERED ON OPPOSITE SIDES FACE NAIL AT END AND AT EACH SPLICE	FF	ENSTRATION SKYLIG	GHT GLAZED SHGC		INSULATED WOOD CEILING WOOD I	FRAMED FL	OOR BASEMENT	SLAB R-VALUE	CRAWL SPACE DUCTWORK OVER DUCTWORK (AL	LL	
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		U-FACTOR U-FACT 0.32 0.55		SULATED MET DOOR U-VALU	E		ALUE WALL R-VALUE	& DEPTH	WALL R-VALUE DOUTSIDE R-VALUE DOUTSIDE R-VALUE 10 CONTINUOUS OR 13 CAVITY 8 6	JE	
29	BRIDGING OR BLOCKING TO JOIST	2-10D BOX (3" X 0.128"): or 2-8D COMMON (2 1/2" X 0.131" or 2-3" X 0.131") NAILS	EACH END, TOE NAIL	2) RECESSED	LIGHTING SHALL BE SE	EALED TO PREVENT LEAK	KAGE BETWEE	IR BARRIER AS PER N1102.4.1 OF THE 2018 IR EN THE CONDITIONED SPACE AND UNCONDITI ED AS DUCTS SHALL BE SEALED AS PER N1103	IONED SPACE		- -			
													DETE:	

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

b. STAFLES ARE 10 GROUP WIRE AND HAVE A MUNIMUM // 10 - INCLORE TO DIAMETER OWN WHERE SPANS ARE 48 INCHES OR GREATER.
 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 DY 8-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

HEIGHT IS MORE THAN 25 FEET, UP TO 35 FEET MAXIMUM. g. FOR REGIONS HAVING BASIC WIND SPEED OF 100 MPH OR LESS, NAILS FOR ATTACHING WOOD STRUCTURAL PANEL ROOF SHEATHING TO GABLE END WALL FRAMING SHALL BE SPACED 6 INCHES ON CENTER. WHEN BASIC WIND SPEED IS GREATER THAN 100 MPH, NAILS FOR ATTACHING PANEL ROOF Generating of intermediate supports shall be speed in other for an intermediate best intermediate best intermediate supports shall be speed in other for an intermediate support shall be speed in other for an intermediate best intermediate supports shall be speed in other for an intermediate best intermediate supports shall be speed in other for an intermediate best intermediate supports shall be speed in other for an intermediate best intermediate best intermediate best intermediate supports shall be speed in other for an intermediate best intermediat J. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE, PROVIDE TWO TOE NAILS ON ONE SIDE OF THE RAFTER AND TOE NAILS FROM CEILING JOIST TO TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE. THE TOE NAIL ON THE OPPOSITE SIDE OF THE RAFTER SHALL NOT BE REQUIRED.

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

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

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

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

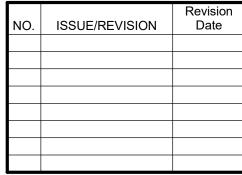
P POST CAP WITH HE BEAM. FOR A OM FLANGE OF THE 2" X 2" BOLTS HER, AND A NUT IN STEEL BEAM IN JLD NEED TO BE

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



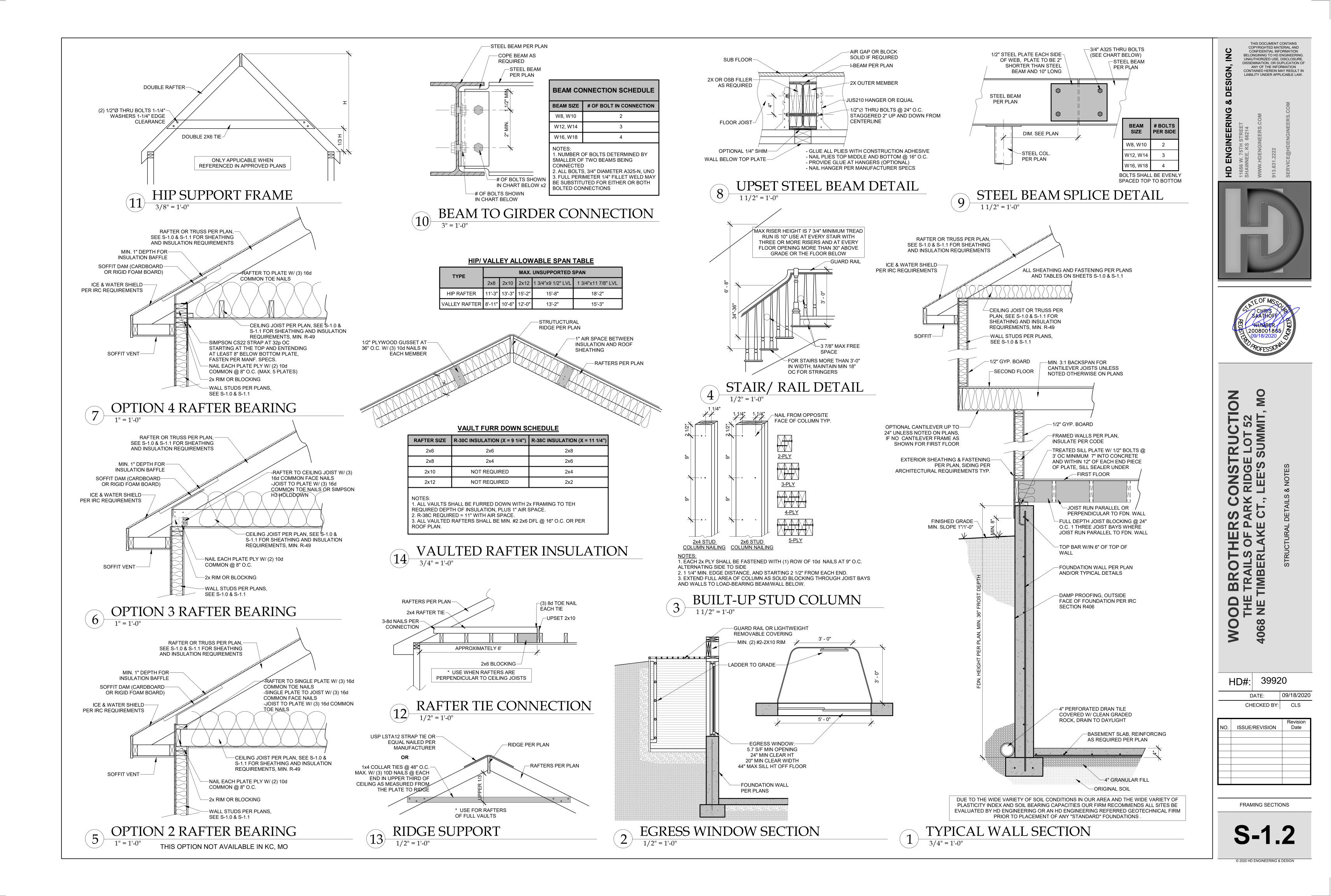


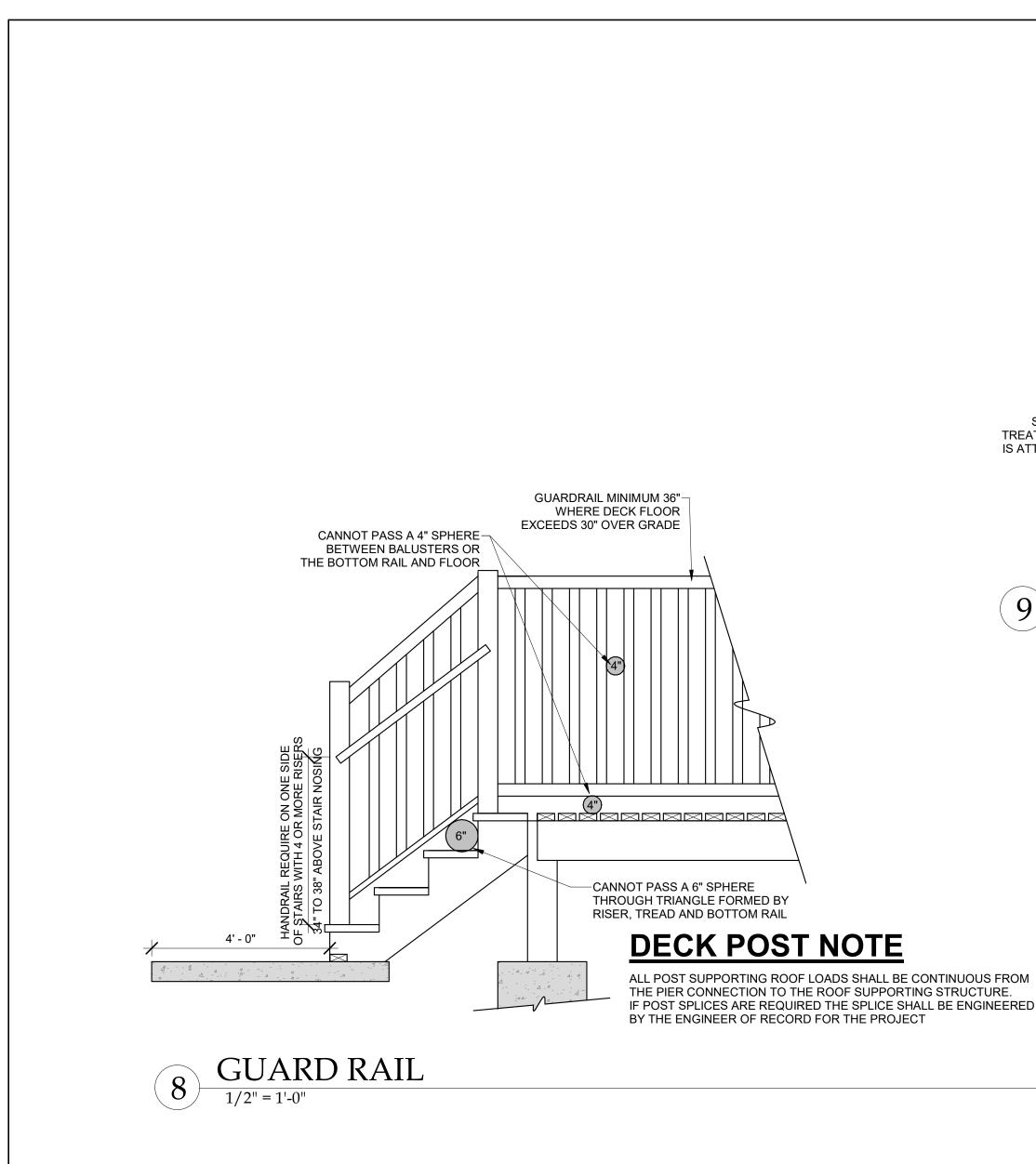
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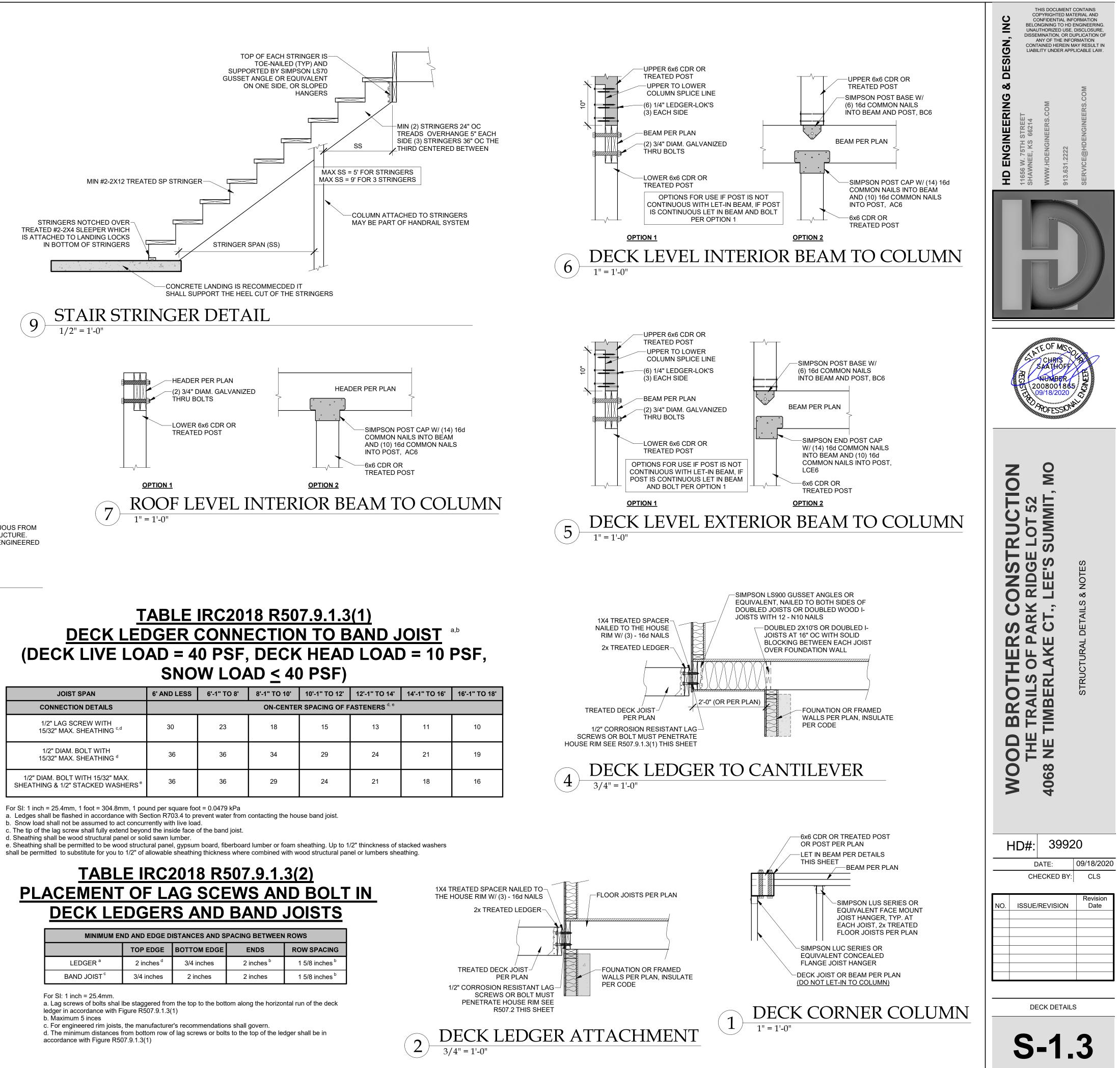


GENERAL NOTES

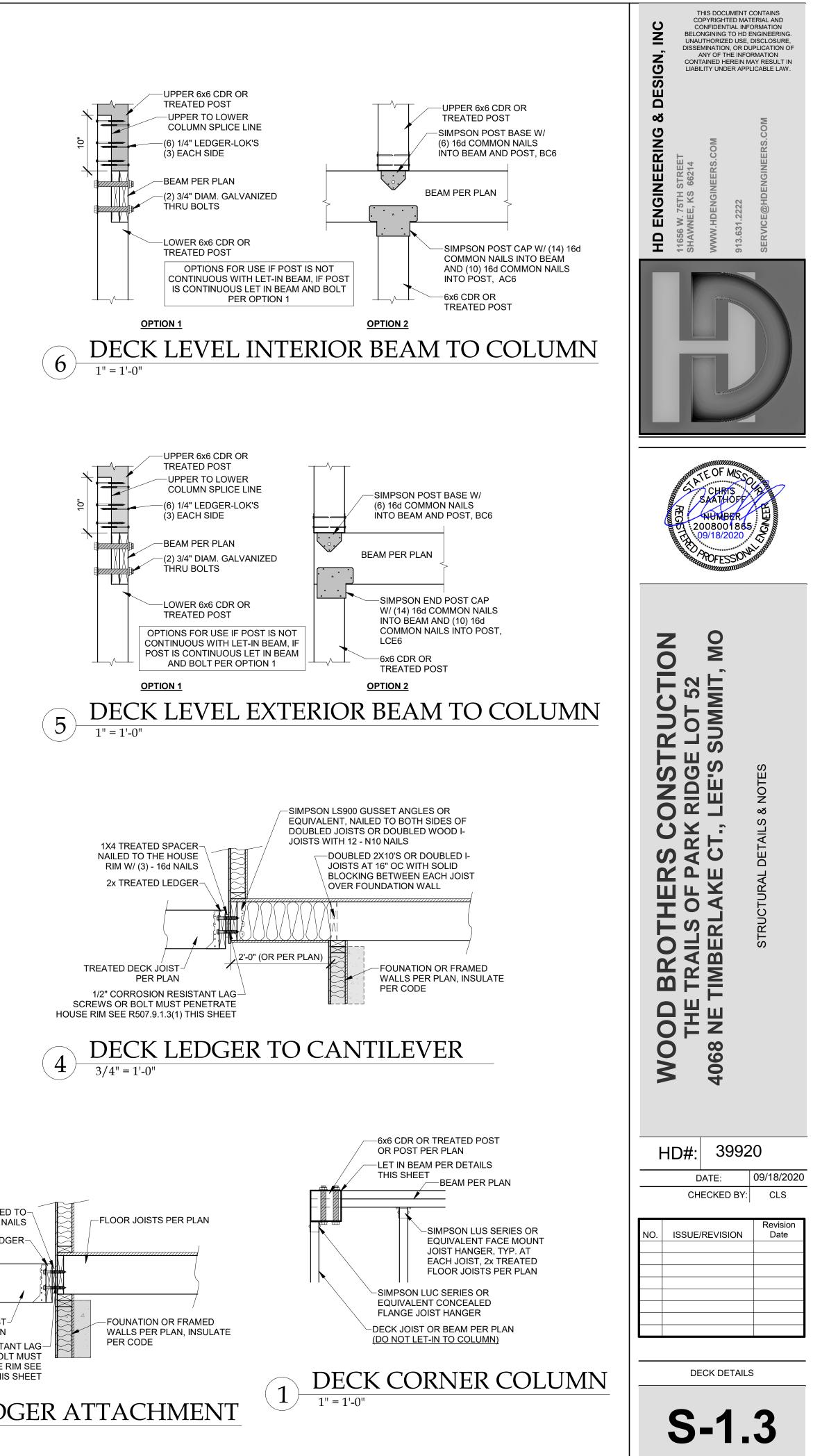




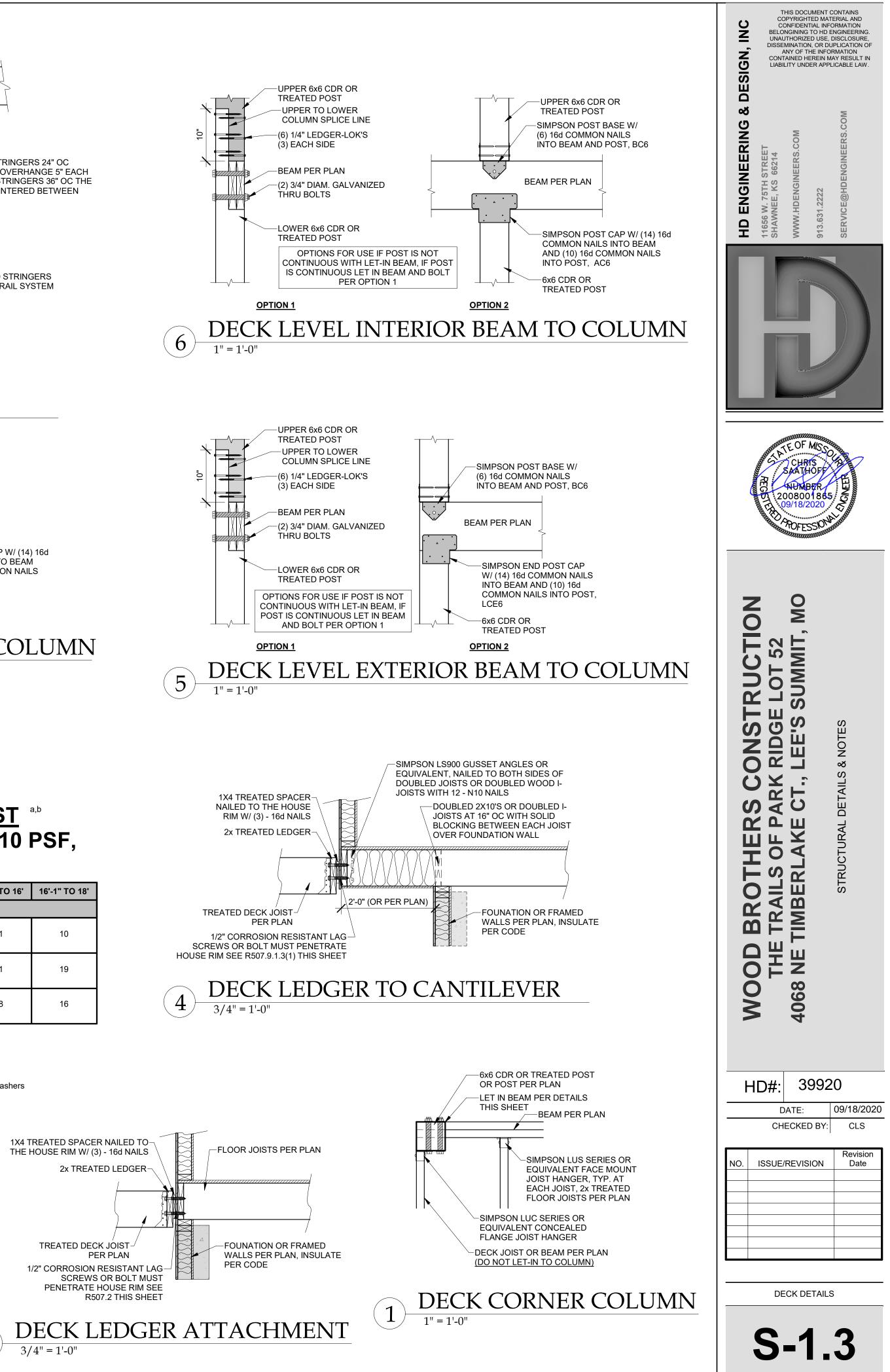




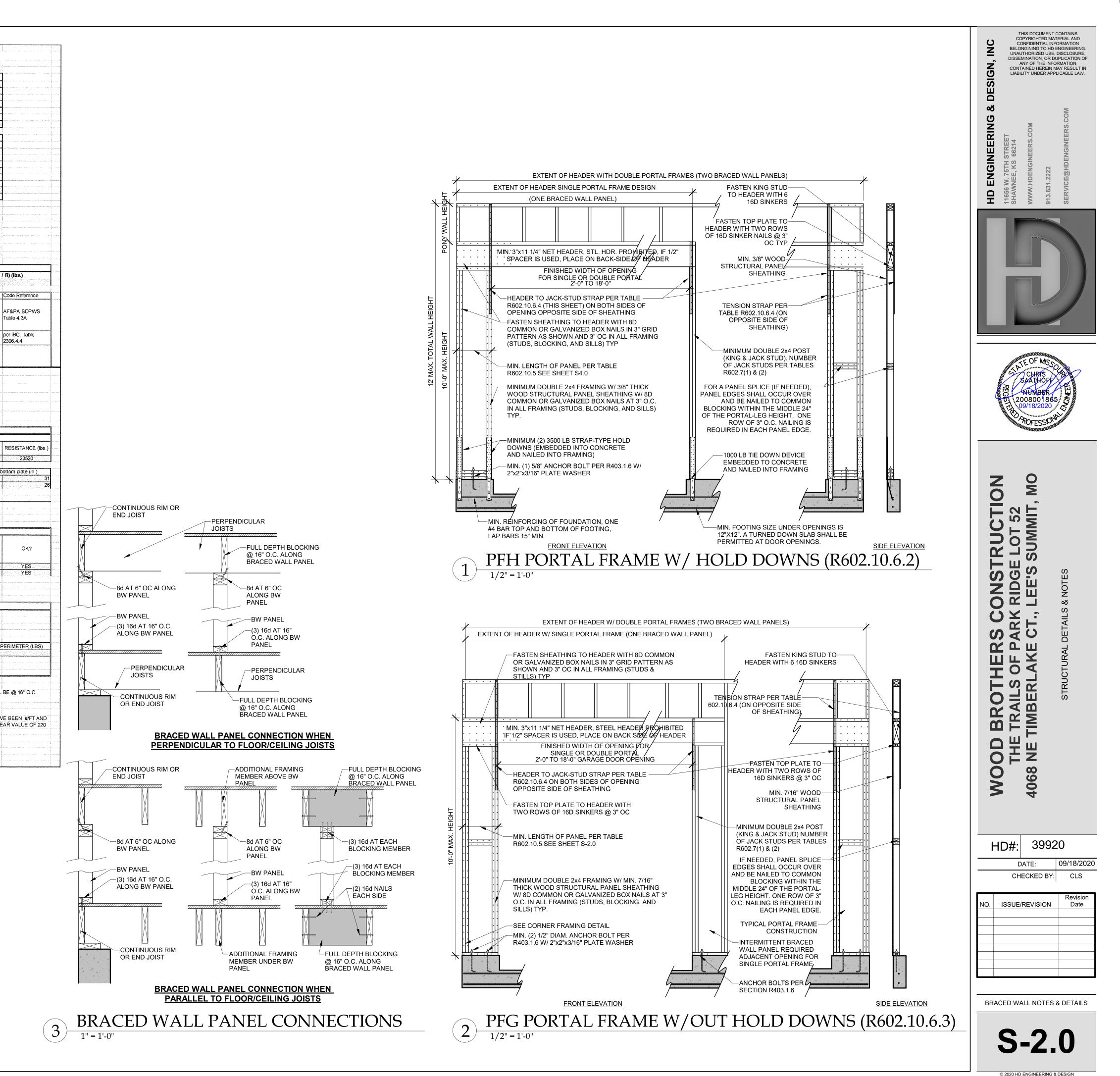
JOIST SPAN	6' AND LESS	6'-1" TO 8'	8'-1" TO 10'	10'-1" TO 12'	12'-1" TO 14'	14'-1" TO 16'	16'-1" TO 18'			
CONNECTION DETAILS	ON-CENTER SPACING OF FASTENERS ^{d, e}									
1/2" LAG SCREW WITH 15/32" MAX. SHEATHING ^{c,d}	30	23	18	15	13	11	10			
1/2" DIAM. BOLT WITH 15/32" MAX. SHEATHING ^d	36	36	34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



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



DETERMINE WEIGHT	OF HOUSE				S& WIND ANALYSIS		
	OF HOUSE:		in Martin Martin Carlos and Antonia and An		DEAD LOAD (psf)	AREA (ft ²)	CALCULATED VALUE WEIGHT (lbs.)
ROOF					10 10	3955 3855	39550 38550
FIRST FLOOR					10	3015	30150
FIRST FLOOR EXT. W	VALL DL			WALL LENGTH (ft) 256	WALL HEIGHT (ft)	WALL UNIT WT. (psf) 10	WEIGHT (lbs) 25600
FIRST FLOOR INT. PA	ARTITION WALL DL				DEAD LOAD (psf) 6	AREA (ft2) 3015	WEIGHT (lbs) 18090
	PROJ	ECTED AREAS (WIND [DESIGN PER 115 MPH	3-SECOND GUST. EXPOS	URE C AND MEAN ROOF HEIGHT <=	30 FT ASSUMED)	
·····		I-TO-BACK	T		SIDE-TO-S	IDE	
SLOPED ROOF	536	2361		SLOPED ROOF	615	LOAD 2647	
VERT. ROOF 1ST	0 731.5	0 10200	CUMULATIVE 12725	VERT. ROOF	0 814	0 11160	CUMULATIVE 13972
المراجع والمراجع والم	SLOPED ROOF	ZONE B	PRESSURE (PSI	F) - PER ASCE CH. 6 5.9	ZONE C	11.6	2a (FIG. 28.6-1, ASCE
V59	WALL/VERT, ROOF MEAN ROOF HT., h	ZONE A	17.5	17.4	ZONE D	3.4	13.3
	t wall to be sheathed, of 2 (ASCE7-10 Velocity I		والمشرك المحص كالان والمعارية والمعاد ومدارية والمحاك يشترك والمحص ومصاحبا وما مصاصبها المستويدة ستستاج والمتوأش	o walkout, enter 0 for area.	SD analysis under ASCE7-10 and IRC/I	PC 2012)	
	er en en anti-or en erre d'Alteretteren erren och an anven er			gin velocity Freshule Ibi Ac			
IST FLOOR TRIBUTAL Ss (SITE GROUND MC	en en el ser en el ser el s	SCE7 SEISMIC MAP)		· · · · · · · · · · · · · · · · · · ·	n - 1969 hand an ann an		90900 12.0%
Fa (from ASCE7 Table	11.4-1)			2	a na far sen e na den den anta anta anta an ancanan an an anna an an an an an an an an		1.8
S _{DS} (= 2/3 * S _S * F _a) R (from ASCE7 Table *	12.2-1)			א לארי קרעני איז איז איז איז איז איז איז איז איז אי	a madel on one of orreston, educes an one canadate was constituted and the second state of		0.128 6.5
				SEISMIC	SHFAR		
OCATION			· · · · · · · · · · · · · · · · · · ·			n ASCE7 (Eq. 12.8-1):	V (= 1.2 * S _D
				· · · · · · · · · · · · · · · · · · ·			2
Sheathing	g Location		ng Schedule	······································	tening Schedule	Allowa	able Shear (#/LF)
Exterior (C	Option #4)	7/16" APA Rated Ply panel sheathing, or sheathing with tig	3/8" shiplap panel	O.C. Field for 7/16" APA sheathing OR @ 4" O.C.	/8" penetration @ 6" O.C. Edges, 12" -rated plywood/OSB or shiplap panel Edges, 12" O.C. Field for 3/8" shiplap anel sheathing		220
inte	nior	1/2" Gyps	um Board		Screws @ 8" O.C. Edges, 12" O.C.		60
******		16 Ga. Simpson/USP 1	Type W/B Steel X-Brace	(3) 16d @ end stude (6)	Field & (1) 8d @ intermediate studs (per		
Inte	SUOL	(or e			cations - see detail on sheet S3)		325
					an and a start of the		
			· · · · · · · · · · · · · · · · · · ·	·····		00 F	······
EXTERIOR SHEATHIN	IG OPTION FOR FIRS	TFLOOR	4	יין איז	WIDTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.)	66.5 74	an an ann ann an ann an thur an thur ann an
· · · · · · · · · · · · · · · · · · ·					BACK WALL OF GARAGE (FT.)	22.5	1997
· · · · · · · · · · · · · · · · · · ·		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			GAR. WALL: 1=F-B, 2=S-S	2	·····
				IOR STRUCTURAL WALL L	ENGTHS (ft.) & RESISTANCES		
		SE I		RESISTANCE (lbs.)	- 	WIND	
	ERONT-TO-BACK	RESISTANCE (be)			EPONT TO BACK		
ST FLOOR	FRONT-TO-BACK 92	RESISTANCE (lbs.) 25760	SIDE-TO-SIDE	16800	FRONT-TO-BACK	RESISTANCE (lbs.)	SIDE-TO-SIDE
STFLOOR		25760	60		92	36064	60
	92	25760 ADDITIONAL RESIS SEISMIC	60 TANCE REQUIRED WIND		92 Anchor Bolt Spacing diameter (in,)	36064 (in.) 0.5	60 16d Nail Spacing rec 1st Floor F-B
IST FLOOR FRONT-TI	92 O-BACK	25760 ADDITIONAL RESIS	60 TANCE REQUIRED		92 Anchor Bolt Spacing	36064 (in.)	60 16d Nail Spacing rec
ST FLOOR FRONT-TI	92 O-BACK	25760 ADDITIONAL RESIS SEISMIC 0	60 TANCE REQUIRED WIND 0		92 Anchor Bolt Spacing diameter (in.) Shear value (per NDS)	36064 (in.) 0.5 944	60 16d Nail Spacing red 1st Floor F-B
ST FLOOR FRONT-TI	92 O-BACK	25760 ADDITIONAL RESIS SEISMIC 0	60 TANCE REQUIRED WIND 0		92 Anchor Bolt Spacing diameter (in.) Shear value (per NDS) Spacing F-B (inches)	36064 (in.) 0.5 944 210.8	60 16d Nail Spacing red 1st Floor F-B
IST FLOOR FRONT-TI	92 O-BACK	25760 ADDITIONAL RESIS SEISMIC 0	60 TANCE REQUIRED WIND 0 0	16800	92 Anchor Bolt Spacing diameter (in.) Shear value (per NDS) Spacing F-B (inches) spacing S-S (inches)	36064 (in.) 0.5 944 210.8 172.5	60 16d Nail Spacing red 1st Floor F-B
IST FLOOR IST FLOOR FRONT-TI IST FLOOR SIDE-TO-	92 O-BACK	25760 ADDITIONAL RESIS SEISMIC 0 0	60 TANCE REQUIRED WIND 0 0 0 RESISTANCE REQUI	16800	92 Anchor Bolt Spacing diameter (in.) Shear value (per NDS) Spacing F-B (inches)	36064 (in.) 0.5 944 210.8 172.5	60 16d Nail Spacing red 1st Floor F-B 1st Floor S-S
IST FLOOR FRONT-TI	92 O-BACK	25760 ADDITIONAL RESIS SEISMIC 0 0 0 0 ADDITIONAL RESISTANCE	60 TANCE REQUIRED WIND 0 0 RESISTANCE REQUI PORTAL FRAMES OR PERF. SHEAR WALL	16800 RED IN ADDITION TO RESI INTERIOR X-BRACES	92 Anchor Bolt Spacing diameter (in.) Shear value (per NDS) Spacing F-B (inches) spacing S-S (inches) ISTANCE PROVIDED BY EXTERIOR V INTERIOR WALL LENGTH W/ 1/2"	36064 (in.) 0.5 944 210.8 172.5 VALLS** INT. WALL LENGTH SHEATHED W/ OSB	60 16d Nail Spacing red 1st Floor F-B 1st Floor S-S RESISTANCE PROVIDE ADDITIONAL METHOL
ST FLOOR FRONT-TO- ST FLOOR SIDE-TO-	92 O-BACK SIDE	25760 ADDITIONAL RESIS SEISMIC 0 0 0 0 ADDITIONAL RESISTANCE REQUIRED (POUNDS)	60 TANCE REQUIRED WIND 0 0 0 RESISTANCE REQUI	16800 RED IN ADDITION TO RESI	92 Anchor Bolt Spacing diameter (in.) Shear value (per NDS) Spacing F-B (inches) spacing S-S (inches) STANCE PROVIDED BY EXTERIOR V	36064 (in.) 0.5 944 210.8 172.5 VALLS** INT. WALL LENGTH SHEATHED W/ OSB	60 16d Nail Spacing red 1st Floor F-B 1st Floor S-S RESISTANCE PROVIDE
IST FLOOR FRONT-TO IST FLOOR SIDE-TO- IST FLOOR FRONT-TO IST FLOOR FRONT-TO	92 O-BACK SIDE O-BACK SIDE	25760 ADDITIONAL RESIS SEISMIC 0 0 0 0 0 ADDITIONAL RESISTANCE REQUIRED (POUNDS) 0 0	60 TANCE REQUIRED WIND 0 0 RESISTANCE REQUI PORTAL FRAMES OR PERF. SHEAR WALL RESISTANCE	16800 RED IN ADDITION TO RES INTERIOR X-BRACES (325#/BRACE)	92 Anchor Bolt Spacing diameter (in.) Shear value (per NDS) Spacing F-B (inches) spacing S-S (inches) Stance PROVIDED BY EXTERIOR V INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.)	36064 (in.) 0.5 944 210.8 172.5 172.5 VALLS** INT. WALL LENGTH SHEATHED W/ OSB (TOTAL LENGTH, ONE	60 16d Nail Spacing red 1st Floor F-B 1st Floor S-S RESISTANCE PROVIDE ADDITIONAL METHOD
ST FLOOR FRONT-TO ST FLOOR SIDE-TO- ST FLOOR FRONT-TO ST FLOOR FRONT-TO ST FLOOR SIDE-TO- NOTES: 1) SEE ATT	92 O-BACK SIDE O-BACK SIDE ACHED CALCULATIO	25760 ADDITIONAL RESIS SEISMIC 0 0 0 0 0 ADDITIONAL RESISTANCE REQUIRED (POUNDS) 0 0 0 NS FOR PORTAL FRAM	60 TANCE REQUIRED WIND 0 0 RESISTANCE REQUI PORTAL FRAMES OR PERF. SHEAR WALL RESISTANCE E OR PERFORATED S	16800 RED IN ADDITION TO RES INTERIOR X-BRACES (325#/BRACE) HEAR WALL RESISTANCE	92 Anchor Bolt Spacing diameter (in.) Shear value (per NDS) Spacing F-B (inches) spacing S-S (inches) Stance PROVIDED BY EXTERIOR V INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.)	36064 (in.) 0.5 944 210.8 172.5 172.5 VALLS** INT. WALL LENGTH SHEATHED W/ OSB (TOTAL LENGTH, ONE SIDE, FT.)	60 16d Nail Spacing rev 1st Floor F-B 1st Floor S-S RESISTANCE PROVIDE ADDITIONAL METHOL (POUNDS) 0
ST FLOOR FRONT-TO ST FLOOR SIDE-TO- ST FLOOR FRONT-TO ST FLOOR FRONT-TO ST FLOOR SIDE-TO- NOTES: 1) SEE ATT) SEE SHEET S1 FO	92 O-BACK SIDE O-BACK SIDE ACHED CALCULATIO R INTERIOR STEEL X	25760 ADDITIONAL RESIS SEISMIC 0 0 0 0 ADDITIONAL RESISTANCE REQUIRED (POUNDS) 0 0 0 NS FOR PORTAL FRAM BRACE INSTALLATION	60 TANCE REQUIRED WIND 0 0 RESISTANCE REQUI PORTAL FRAMES OR PERF. SHEAR WALL RESISTANCE E OR PERFORATED S 3) INTERIOR WALLS S	16800 RED IN ADDITION TO RES INTERIOR X-BRACES (325#/BRACE) HEAR WALL RESISTANCE SHEATHED WITH OSB SH/	92 Anchor Bolt Spacing diameter (in.) Shear value (per NDS) Spacing F-B (inches) spacing S-S (inches) Stance PROVIDED BY EXTERIOR V INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.)	36064 (in.) 0.5 944 210.8 172.5 VALLS** INT. WALL LENGTH SHEATHED W/ OSB (TOTAL LENGTH, ONE SIDE, FT.)	60 16d Nail Spacing re 1st Floor F-B 1st Floor S-S RESISTANCE PROVIDE ADDITIONAL METHOL (POUNDS) 0
IST FLOOR FRONT-TO IST FLOOR SIDE-TO- IST FLOOR FRONT-TO IST FLOOR FRONT-TO IST FLOOR SIDE-TO- "NOTES: 1) SEE ATT 2) SEE SHEET S1 FO	92 O-BACK SIDE O-BACK SIDE ACHED CALCULATIO IR INTERIOR STEEL X OR OSB ON SAME FI	25760 ADDITIONAL RESIS SEISMIC 0 0 0 0 ADDITIONAL RESISTANCE REQUIRED (POUNDS) 0 0 NS FOR PORTAL FRAM BRACE INSTALLATION OOR (SEE TABLE ABC	60 TANCE REQUIRED WIND 0 0 RESISTANCE REQUI PORTAL FRAMES OR PERF. SHEAR WALL RESISTANCE E OR PERFORATED S 3) INTERIOR WALLS S	16800 RED IN ADDITION TO RES INTERIOR X-BRACES (325#/BRACE) HEAR WALL RESISTANCE SHEATHED WITH OSB SH/	92 Anchor Bolt Spacing diameter (in.) Shear value (per NDS) Spacing F-B (inches) spacing S-S (inches) Spacing S-S (inches) ISTANCE PROVIDED BY EXTERIOR V INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.) E CAPACITIES (IF APPLICABLE), ALL BE ATTACHED WITH SAME STAF IGHT SECTIONS OF 2'-8" OR LONGED	36064 (in.) 0.5 944 210.8 172.5 VALLS** INT. WALL LENGTH SHEATHED W/ OSB (TOTAL LENGTH, ONE SIDE, FT.)	60 16d Nail Spacing re 1st Floor F-B 1st Floor S-S RESISTANCE PROVIDE ADDITIONAL METHOL (POUNDS) 0
IST FLOOR FRONT-TO IST FLOOR SIDE-TO- IST FLOOR FRONT-TO IST FLOOR FRONT-TO IST FLOOR SIDE-TO- "NOTES: 1) SEE ATT 2) SEE SHEET S1 FO	92 O-BACK SIDE O-BACK SIDE ACHED CALCULATIO R INTERIOR STEEL X	25760 ADDITIONAL RESIS SEISMIC 0 0 0 0 0 ADDITIONAL RESISTANCE REQUIRED (POUNDS) 0 0 0 NS FOR PORTAL FRAM BRACE INSTALLATION LOOR (SEE TABLE ABC DEGREES 26.6	60 TANCE REQUIRED WIND 0 0 0 RESISTANCE REQUI PORTAL FRAMES OR PERF. SHEAR WALL RESISTANCE E OR PERFORATED S 3) INTERIOR WALLS S VE) AND ARE ONLY A	16800 RED IN ADDITION TO RES INTERIOR X-BRACES (325#/BRACE) HEAR WALL RESISTANCE BHEATHED WITH OSB SH/ PPLICABLE FOR FULL-HE	92 Anchor Bolt Spacing diameter (in.) Shear value (per NDS) Spacing F-B (inches) spacing S-S (inches) Spacing S-S (inches) ISTANCE PROVIDED BY EXTERIOR V INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.) E CAPACITIES (IF APPLICABLE), ALL BE ATTACHED WITH SAME STAF IGHT SECTIONS OF 2'-8" OR LONGEI	36064 (in.) 0.5 944 210.8 172.5 VALLS** INT. WALL LENGTH SHEATHED W/ OSB (TOTAL LENGTH, ONE SIDE, FT.)	60 16d Nail Spacing rev 1st Floor F-B 1st Floor S-S RESISTANCE PROVIDE ADDITIONAL METHOL (POUNDS) 0
IST FLOOR FRONT-TO IST FLOOR SIDE-TO- IST FLOOR FRONT-TO IST FLOOR FRONT-TO IST FLOOR SIDE-TO- "NOTES: 1) SEE ATT 2) SEE SHEET S1 FO PATTERN AS EXTERIO PATTERN AS EXTERIO ROOF PITCH (MAX)	92 O-BACK SIDE O-BACK SIDE ACHED CALCULATIO R INTERIOR STEEL X OR OSB ON SAME FI	25760 ADDITIONAL RESIS SEISMIC 0 0 0 0 ADDITIONAL RESISTANCE REQUIRED (POUNDS) 0 0 NS FOR PORTAL FRAM BRACE INSTALLATION OOR (SEE TABLE ABC DEGREES	60 TANCE REQUIRED WIND 0 0 0 RESISTANCE REQUI PORTAL FRAMES OR PERF. SHEAR WALL RESISTANCE E OR PERFORATED S 3) INTERIOR WALLS S VE) AND ARE ONLY A	16800 RED IN ADDITION TO RES INTERIOR X-BRACES (325#/BRACE) HEAR WALL RESISTANCE SHEATHED WITH OSB SH/ PPLICABLE FOR FULL-HE WIND UPLIFT	92 Anchor Bolt Spacing diameter (in.) Shear value (per NDS) Spacing F-B (inches) spacing S-S (inches) Spacing S-S (inches) ISTANCE PROVIDED BY EXTERIOR V INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.) E CAPACITIES (IF APPLICABLE), ALL BE ATTACHED WITH SAME STAF IGHT SECTIONS OF 2'-8" OR LONGEI	36064 (in.) 0.5 944 210.8 172.5 VALLS** INT. WALL LENGTH SHEATHED W/ OSB (TOTAL LENGTH, ONE SIDE, FT.)	60 16d Nail Spacing red 1st Floor F-B 1st Floor S-S RESISTANCE PROVIDE ADDITIONAL METHOD (POUNDS) 0
IST FLOOR FRONT-TO IST FLOOR SIDE-TO- IST FLOOR FRONT-TO IST FLOOR SIDE-TO- "NOTES: 1) SEE ATT 2) SEE SHEET S1 FO PATTERN AS EXTERIO	92 O-BACK SIDE O-BACK SIDE ACHED CALCULATIO R INTERIOR STEEL X OR OSB ON SAME FI X/12 6 LENGTH (FT.) 1	25760 ADDITIONAL RESIS SEISMIC 0 0 0 0 ADDITIONAL RESISTANCE REQUIRED (POUNDS) 0 0 0 NS FOR PORTAL FRAM BRACE INSTALLATION OOR (SEE TABLE ABC DEGREES 26.6 ASCE 7 PRESSURE (PSF) 16.56	60 TANCE REQUIRED WIND 0 0 RESISTANCE REQUI PORTAL FRAMES OR PERF. SHEAR WALL RESISTANCE E OR PERFORATED S 3) INTERIOR WALLS S VE) AND ARE ONLY A PITCH OF 6 OR LESS: LINEAL FT. OF OH 283	16800 RED IN ADDITION TO RES INTERIOR X-BRACES (325#/BRACE) HEAR WALL RESISTANCE SHEATHED WITH OSB SH/ PPLICABLE FOR FULL-HE WIND UPLIFT EOH -13.3, E -7.2, G -5.2 UPLIFT PER FT* (LBS) 16.56	92 Anchor Bolt Spacing diameter (in.) Shear value (per NDS) Spacing F-B (inches) spacing S-S (inches) Spacing S-S (inches) Spacing S-S (inches) Stance PROVIDED BY EXTERIOR V INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.) E CAPACITIES (IF APPLICABLE), ALL BE ATTACHED WITH SAME STAF IGHT SECTIONS OF 2'-8" OR LONGEI ANALYSIS	36064 (in.) 0.5 944 210.8 172.5 VALLS** INT. WALL LENGTH SHEATHED W/ OSB (TOTAL LENGTH, ONE SIDE, FT.)	60 16d Nail Spacing rec 1st Floor F-B 1st Floor S-S RESISTANCE PROVIDE ADDITIONAL METHOD (POUNDS) 0 0
ST FLOOR FRONT-TO ST FLOOR SIDE-TO- ST FLOOR SIDE-TO- ST FLOOR FRONT-TO ST FLOOR SIDE-TO- NOTES: 1) SEE ATT SEE SHEET S1 FO PATTERN AS EXTERN NOTES: 1) SEE ATT SEE SHEET S1 FO PATTERN AS EXTERN ROOF PITCH (MAX)	92 O-BACK SIDE O-BACK SIDE ACHED CALCULATIO R INTERIOR STEEL X OR OSB ON SAME FI X/12 6 LENGTH (FT.)	25760 ADDITIONAL RESIS SEISMIC 0 0 0 0 ADDITIONAL RESISTANCE REQUIRED (POUNDS) 0 0 0 NS FOR PORTAL FRAM BRACE INSTALLATION, OOR (SEE TABLE ABC DEGREES 26.6 ASCE 7 PRESSURE (PSF)	60 TANCE REQUIRED WIND 0 0 RESISTANCE REQUI PORTAL FRAMES OR PERF. SHEAR WALL RESISTANCE E OR PERFORATED S 3) INTERIOR WALLS S VE) AND ARE ONLY A PITCH OF 6 OR LESS: LINEAL FT. OF OH 283	16800 RED IN ADDITION TO RES INTERIOR X-BRACES (325#/BRACE) HEAR WALL RESISTANCE SHEATHED WITH OSB SH/ PPLICABLE FOR FULL-HE WIND UPLIFT EOH -13.3, E -7.2, G -5.2 UPLIFT PER FT* (LBS)	92 Anchor Bolt Spacing diameter (in.) Shear value (per NDS) Spacing F-B (inches) spacing S-S (inches) Spacing S-S (inches) ISTANCE PROVIDED BY EXTERIOR V INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.) E CAPACITIES (IF APPLICABLE), ALL BE ATTACHED WITH SAME STAF IGHT SECTIONS OF 2'-8" OR LONGEI	36064 (in.) 0.5 944 210.8 172.5 VALLS** INT. WALL LENGTH SHEATHED W/ OSB (TOTAL LENGTH, ONE SIDE, FT.)	60 16d Nail Spacing rec 1st Floor F-B 1st Floor S-S RESISTANCE PROVIDE ADDITIONAL METHOD (POUNDS) 0
ST FLOOR FRONT-TO ST FLOOR SIDE-TO- ST FLOOR SIDE-TO- ST FLOOR SIDE-TO- NOTES: 1) SEE ATT) SEE SHEET S1 FO ATTERN AS EXTERN SEE SHEET S1 FO ATTERN AS EXTERN OVERHANG MAIN ROOF** ALONG PERIMETER	92 O-BACK SIDE O-BACK SIDE ACHED CALCULATIO R INTERIOR STEEL X OR OSB ON SAME FI X/12 6 LENGTH (FT.) 1 TOTAL AREA (FT ²) 4921	25760 ADDITIONAL RESIS SEISMIC 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	60 TANCE REQUIRED WIND 0 0 0 0 0 0 0 0 0 0 0 0 0	16800 RED IN ADDITION TO RESI INTERIOR X-BRACES (325#/BRACE) HEAR WALL RESISTANCE SHEATHED WITH OSB SH/ PPLICABLE FOR FULL-HE WIND UPLIFT EOH -13.3, E -7.2, G -5.2 UPLIFT PER FT* (LBS) 16:56 PRESSURE ZN. E (PSF) 15.12 POUNDS)	92 Anchor Bolt Spacing diameter (in.) Shear value (per NDS) Spacing F-B (inches) spacing S-S (inches) STANCE PROVIDED BY EXTERIOR V INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.) E CAPACITIES (IF APPLICABLE), ALL BE ATTACHED WITH SAME STAF IGHT SECTIONS OF 2-8" OR LONGE! ANALYSIS PRESSURE ZN. G (PSF) 10.5 189.7	36064 (in.) 0.5 944 210.8 172.5 VALLS** INT. WALL LENGTH SHEATHED W/ OSB (TOTAL LENGTH, ONE SIDE, FT.) PLE/NAILING R	60 16d Nail Spacing rev 1st Floor F-B 1st Floor S-S RESISTANCE PROVIDE ADDITIONAL METHOL (POUNDS) 0 0 0 0 0
IST FLOOR FRONT-TO IST FLOOR SIDE-TO- IST FLOOR SIDE-TO- INOTES: 1) SEE ATT INOTES: 1) SE	92 O-BACK SIDE O-BACK SIDE ACHED CALCULATIO R INTERIOR STEEL X OR OSB ON SAME FI X/12 6 LENGTH (FT.) 1 TOTAL AREA (FT ²) 4921	25760 ADDITIONAL RESIS SEISMIC 0 0 0 0 0 0 NS FOR PORTAL FRAM BRACE INSTALLATION O 0 0 0 NS FOR PORTAL FRAM BRACE INSTALLATION OOR (SEE TABLE ABC DEGREES 26.6 ASCE 7 PRESSURE (PSF) 16.56 ZONE E AREA (FT ²) -654.38	60 TANCE REQUIRED WIND 0 0 0 0 0 0 0 0 0 0 0 0 0	16800 RED IN ADDITION TO RESI INTERIOR X-BRACES (325#/BRACE) HEAR WALL RESISTANCE SHEATHED WITH OSB SH/ PPLICABLE FOR FULL-HE WIND UPLIFT EOH -13.3, E -7.2, G -5.2 UPLIFT PER FT* (LBS) 16:56 PRESSURE ZN. E (PSF) 15.12 POUNDS)	92 Anchor Bolt Spacing diameter (in.) Shear value (per NDS) Spacing F-B (inches) spacing S-S (inches) STANCE PROVIDED BY EXTERIOR V INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.) E CAPACITIES (IF APPLICABLE), ALL BE ATTACHED WITH SAME STAF IGHT SECTIONS OF 2-8" OR LONGE! ANALYSIS PRESSURE ZN. G (PSF) 10.5	36064 (in.) 0.5 944 210.8 172.5 VALLS** INT. WALL LENGTH SHEATHED W/ OSB (TOTAL LENGTH, ONE SIDE, FT.) PLE/NAILING R TOTAL FORCE (LBS) 48647	60 16d Nail Spacing rev 1st Floor F-B 1st Floor S-S RESISTANCE PROVIDE ADDITIONAL METHOL (POUNDS) 0 0 0 0 0
IST FLOOR FRONT-TO IST FLOOR SIDE-TO- IST FLOOR SIDE-TO- IST FLOOR FRONT-TO IST FLOOR SIDE-TO- "NOTES: 1) SEE ATT 2) SEE SHEET S1 FO PATTERN AS EXTERIO PATTERN AS EXTERIO PATTERN AS EXTERIO MAIN ROOF** ALONG PERIMETER "INSIDE EXTERIOR W NOTE FOR CONSTRU	92 O-BACK SIDE O-BACK SIDE O-BACK SIDE ACHED CALCULATIO R INTERIOR STEEL X OR OSB ON SAME FI X/12 6 LENGTH (FT.) 1 TOTAL AREA (FT ²) 4921 VALLS	ADDITIONAL RESIS SEISMIC 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	60 TANCE REQUIRED WIND 0 0 0 0 0 0 0 0 0 0 0 0 0	16800 RED IN ADDITION TO RESI INTERIOR X-BRACES (325#/BRACE) HEAR WALL RESISTANCE SHEATHED WITH OSB SH/ PPLICABLE FOR FULL-HE WIND UPLIFT EOH -13.3, E -7.2, G -5.2 UPLIFT PER FT* (LBS) 16.56 PRESSURE ZN. E (PSF) 15.12 POUNDS) LS	92 Anchor Bolt Spacing diameter (in.) Shear value (per NDS) Spacing F-B (inches) spacing S-S (inches) STANCE PROVIDED BY EXTERIOR V INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.) E CAPACITIES (IF APPLICABLE), ALL BE ATTACHED WITH SAME STAF IGHT SECTIONS OF 2'-8" OR LONGEI ANALYSIS PRESSURE ZN. G (PSF) 10.5 189.7 251.6	36064 (in.) 0.5 944 210.8 172.5 VALLS** INT. WALL LENGTH SHEATHED W/ OSB (TOTAL LENGTH, ONE SIDE, FT.) PLE/NAILING R TOTAL FORCE (LBS) 48647 UPLIFT OK	60 16d Nail Spacing rec 1st Floor F-B 1st Floor S-S RESISTANCE PROVIDE ADDITIONAL METHOD (POUNDS) 0 0 0 1 0 0 1 1 FORCE PER LINEAL F
IST FLOOR FRONT-TO IST FLOOR SIDE-TO- IST FLOOR SIDE-TO- IST FLOOR FRONT-TO IST FLOOR SIDE-TO- INOTES: 1) SEE ATT IST FLOOR SIDE-TO- INOTES: 1) SEE ATT INOTES: 1) SE	92 O-BACK SIDE O-BACK SIDE O-BACK SIDE ACHED CALCULATIO R INTERIOR STEEL X OR OSB ON SAME FI X12 6 LENGTH (FT.) 1 TOTAL AREA (FT ²) 4921 VALLS VALLS	ADDITIONAL RESIS SEISMIC 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	60 TANCE REQUIRED WIND 0 0 0 0 0 0 0 0 0 0 0 0 0	16800 RED IN ADDITION TO RESI INTERIOR X-BRACES (325#/BRACE) HEAR WALL RESISTANCE SHEATHED WITH OSB SH/ PPLICABLE FOR FULL-HE WIND UPLIFT EOH -13.3, E -7.2, G -5.2 UPLIFT PER FT* (LBS) 16.56 PRESSURE ZN. E (PSF) 15.12 POUNDS) LS	92 Anchor Bolt Spacing diameter (in.) Shear value (per NDS) Spacing F-B (inches) spacing S-S (inches) STANCE PROVIDED BY EXTERIOR V INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.) E CAPACITIES (IF APPLICABLE), ALL BE ATTACHED WITH SAME STAF IGHT SECTIONS OF 2-8" OR LONGE! ANALYSIS PRESSURE ZN. G (PSF) 10.5 189.7	36064 (in.) 0.5 944 210.8 172.5 VALLS** INT. WALL LENGTH SHEATHED W/ OSB (TOTAL LENGTH, ONE SIDE, FT.) PLE/NAILING R TOTAL FORCE (LBS) 48647 UPLIFT OK	60 16d Nail Spacing re- 1st Floor F-B 1st Floor S-S RESISTANCE PROVIDE ADDITIONAL METHOU (POUNDS) 0 0 0 1 FORCE PER LINEAL 1 1
IST FLOOR FRONT-TO IST FLOOR SIDE-TO- IST FLOOR SIDE-TO- IST FLOOR FRONT-TO IST FLOOR SIDE-TO- "NOTES: 1) SEE ATT 2) SEE SHEET S1 FO PATTERN AS EXTERIO PATTERN AS EXTERIOR VI NOTE FOR CONSTRU MAX, UNBLOCKED, A	92 O-BACK SIDE O-BACK SIDE O-BACK SIDE ACHED CALCULATIO R INTERIOR STEEL X OR OSB ON SAME FI X/12 6 LENGTH (FT.) 1 TOTAL AREA (FT ²) 4921 VALLS VALLS VALLS	ADDITIONAL RESIS SEISMIC 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	60 TANCE REQUIRED WIND 0 0 0 0 0 0 0 0 0 0 0 0 0	16800 RED IN ADDITION TO RES INTERIOR X-BRACES (325#/BRACE) HEAR WALL RESISTANCE SHEATHED WITH OSB SH/ PPLICABLE FOR FULL-HE WIND UPLIFT EOH -13.3, E -7.2, G -5.2 UPLIFT PER FT* (LBS) 16.56 PRESSURE ZN. E (PSF) 15.12 POUNDS) LS E OF THE ABOVE TABLE	92 Anchor Bolt Spacing diameter (in,) Shear value (per NDS) Spacing F-B (inches) spacing S-S (inches) STANCE PROVIDED BY EXTERIOR V INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.) E CAPACITIES (IF APPLICABLE), ALL BE ATTACHED WITH SAME STAF- IGHT SECTIONS OF 2'-8" OR LONGER ANALYSIS PRESSURE ZN. G (PSF) 10.5 189.7 251.6 FOR SHEATHING OF THE ENTIRE ST	36064 (in.) 0.5 944 210.8 172.5 VALLS** INT. WALL LENGTH SHEATHED W/ OSB (TOTAL LENGTH, ONE SIDE, FT.) PLE/NAILING R TOTAL FORCE (LBS) 48647 UPLIFT OK RUCTURE. IN ADDITIO	60 16d Nail Spacing ree 1st Floor F-B 1st Floor S-S RESISTANCE PROVIDE ADDITIONAL METHOL (POUNDS) 0 0 0 0 0 0 0 0 0 0 0 0 0
IST FLOOR FRONT-TO IST FLOOR SIDE-TO- IST FLOOR SIDE-TO- IST FLOOR FRONT-TO IST FLOOR SIDE-TO- "NOTES: 1) SEE ATT 2) SEE SHEET S1 FO PATTERN AS EXTERIO PATTERN AS EXTERIOR VI NOTE FOR CONSTRU MAX, UNBLOCKED, A NOTE FOR DESIGN: ALL WALLS USED IN	92 O-BACK SIDE O-BACK SIDE ACHED CALCULATIO R INTERIOR STEEL X OR OSB ON SAME FI X/12 6 LENGTH (FT.) 1 TOTAL AREA (FT ²) 4921 VALLS VALLS ICTION: RUCTURAL PANEL S AND W/ SHEATHING / THE CALCULATION C	ADDITIONAL RESIS SEISMIC 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	60 TANCE REQUIRED WIND 0 0 0 0 0 0 0 0 0 0 0 0 0	16800 RED IN ADDITION TO RES INTERIOR X-BRACES (325#/BRACE) HEAR WALL RESISTANCE SHEATHED WITH OSB SH/ PPLICABLE FOR FULL-HE WIND UPLIFT EOH -13.3, E -7.2, G -5.2 UPLIFT PER FT* (LBS) 16.56 PRESSURE ZN. E (PSF) 15.12 POUNDS) LS E OF THE ABOVE TABLE HALL HAVE A MINIMUM L	92 Anchor Bolt Spacing diameter (in.) Shear value (per NDS) Spacing F-B (inches) spacing S-S (inches) Stance PROVIDED BY EXTERIOR V INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.) E CAPACITIES (IF APPLICABLE), ALL BE ATTACHED WITH SAME STAF IGHT SECTIONS OF 2'-8" OR LONGEI ANALYSIS PRESSURE ZN. G (PSF) 10.5 189.7 251.6 FOR SHEATHING OF THE ENTIRE ST ININTERRUPTED HEIGHT OF 8'-0" AN	36064 (in.) 0.5 944 210.8 172.5 VALLS** INT. WALL LENGTH SHEATHED W/ OSB (TOTAL LENGTH, ONE SIDE, FT.) PLE/NAILING R TOTAL FORCE (LBS) 48647 UPLIFT OK RUCTURE. IN ADDITIO D LENGTH OF 2-8', A	60 16d Nail Spacing ree 1st Floor F-B 1st Floor S-S RESISTANCE PROVIDE ADDITIONAL METHOL (POUNDS) 0 0 0 0 0 0 0 0 0 0 0 0 0
ST FLOOR FRONT-TO ST FLOOR SIDE-TO- ST FLOOR SIDE-TO- ST FLOOR SIDE-TO- ST FLOOR SIDE-TO- NOTES: 1) SEE ATT SEE SHEET S1 FO ATTERN AS EXTERN SEE SHEET S1 FO ATTERN AS EXTERN OVERHANG MAIN ROOF** ALONG PERIMETER "INSIDE EXTERIOR V OVERHANG MAIN ROOF** ALONG PERIMETER "INSIDE EXTERIOR V GOTE FOR CONSTRU HE CONTINUOUS ST MAX, UNBLOCKED, A IOTE FOR DESIGN: ALL WALLS USED IN NCREASED BY 40%	92 O-BACK SIDE O-BACK SIDE O-BACK SIDE ACHED CALCULATIO R INTERIOR STEEL X OR OSB ON SAME FI X/12 6 LENGTH (FT.) 1 TOTAL AREA (FT ²) 4921 VALLS ICTION: RUCTURAL PANEL S AND W/ SHEATHING / THE CALCULATION C FOR WIND LOADS, P	ADDITIONAL RESIS SEISMIC 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	60 TANCE REQUIRED WIND 0 0 0 0 0 0 0 0 0 0 0 0 0	16800 RED IN ADDITION TO RES INTERIOR X-BRACES (325#/BRACE) HEAR WALL RESISTANCE SHEATHED WITH OSB SH/ PPLICABLE FOR FULL-HE WIND UPLIFT EOH -13.3, E -7.2, G -5.2 UPLIFT PER FT* (LBS) 16.56 PRESSURE ZN. E (PSF) 15.12 POUNDS) LS E OF THE ABOVE TABLE HALL HAVE A MINIMUM L	92 Anchor Bolt Spacing diameter (in,) Shear value (per NDS) Spacing F-B (inches) spacing S-S (inches) STANCE PROVIDED BY EXTERIOR V INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.) E CAPACITIES (IF APPLICABLE), ALL BE ATTACHED WITH SAME STAF- IGHT SECTIONS OF 2'-8" OR LONGER ANALYSIS PRESSURE ZN. G (PSF) 10.5 189.7 251.6 FOR SHEATHING OF THE ENTIRE ST	36064 (in.) 0.5 944 210.8 172.5 VALLS** INT. WALL LENGTH SHEATHED W/ OSB (TOTAL LENGTH, ONE SIDE, FT.) PLE/NAILING R TOTAL FORCE (LBS) 48647 UPLIFT OK RUCTURE. IN ADDITIO D LENGTH OF 2-8', A	60 16d Nail Spacing ree 1st Floor F-B 1st Floor S-S RESISTANCE PROVIDE ADDITIONAL METHOL (POUNDS) 0 0 0 0 0 0 0 0 0 0 0 0 0
ST FLOOR FRONT-TO ST FLOOR SIDE-TO- ST FLOOR SIDE-TO- ST FLOOR SIDE-TO- ST FLOOR SIDE-TO- NOTES: 1) SEE ATT) SEE SHEET S1 FO ATTERN AS EXTERIO NOTES: 1) SEE ATT) SEE SHEET S1 FO ATTERN AS EXTERIO NOTES: 1) SEE ATT) SEE SHEET S1 FO ATTERN AS EXTERIO ATTERN AS EXTERIO NOTE FOR PITCH (MAX) OVERHANG MAIN ROOF** ALONG PERIMETER 'INSIDE EXTERIOR V OVERHANG MAIN ROOF** ALONG PERIMETER 'INSIDE EXTERIOR V OTE FOR DESIGN: LL WALLS USED IN VCREASED BY 40% WIND SHEAR VALL OTE: SOIL SITE CL	92 O-BACK SIDE O-BACK SIDE O-BACK SIDE ACHED CALCULATIO R INTERIOR STEEL X OR OSB ON SAME FI X/12 6 LENGTH (FT.) 1 TOTAL AREA (FT ²) 4921 VALLS ICTION: RUCTURAL PANEL S AND W/ SHEATHING / THE CALCULATION C FOR WIND LOADS, P JE OF 335#/FT - 40% (ASS ASSUMED TO B	ADDITIONAL RESIS SEISMIC 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	60 TANCE REQUIRED WIND 0 0 0 0 0 0 0 0 0 0 0 0 0	16800 RED IN ADDITION TO RES INTERIOR X-BRACES (325#/BRACE) HEAR WALL RESISTANCE SHEATHED WITH OSB SH/ PPLICABLE FOR FULL-HE WIND UPLIFT EOH -13.3, E -7.2, G -5.2 UPLIFT PER FT* (LBS) 16.56 PRESSURE ZN. E (PSF) 15.12 POUNDS) LS E OF THE ABOVE TABLE HALL HAVE A MINIMUM L	92 Anchor Bolt Spacing diameter (in.) Shear value (per NDS) Spacing F-B (inches) spacing S-S (inches) Stance PROVIDED BY EXTERIOR V INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.) E CAPACITIES (IF APPLICABLE), ALL BE ATTACHED WITH SAME STAF IGHT SECTIONS OF 2'-8" OR LONGEI ANALYSIS PRESSURE ZN. G (PSF) 10.5 189.7 251.6 FOR SHEATHING OF THE ENTIRE ST ININTERRUPTED HEIGHT OF 8'-0" AN	36064 (in.) 0.5 944 210.8 172.5 VALLS** INT. WALL LENGTH SHEATHED W/ OSB (TOTAL LENGTH, ONE SIDE, FT.) PLE/NAILING R TOTAL FORCE (LBS) 48647 UPLIFT OK RUCTURE. IN ADDITIO D LENGTH OF 2-8', A	60 16d Nail Spacing re 1st Floor F-B 1st Floor S-S RESISTANCE PROVIDE ADDITIONAL METHO (POUNDS) 0 0 0 0 0 0 0 0 0 0 0 0 0



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

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

INTERIOR BRACED WALLS (SEE ON THIS SHEET)

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

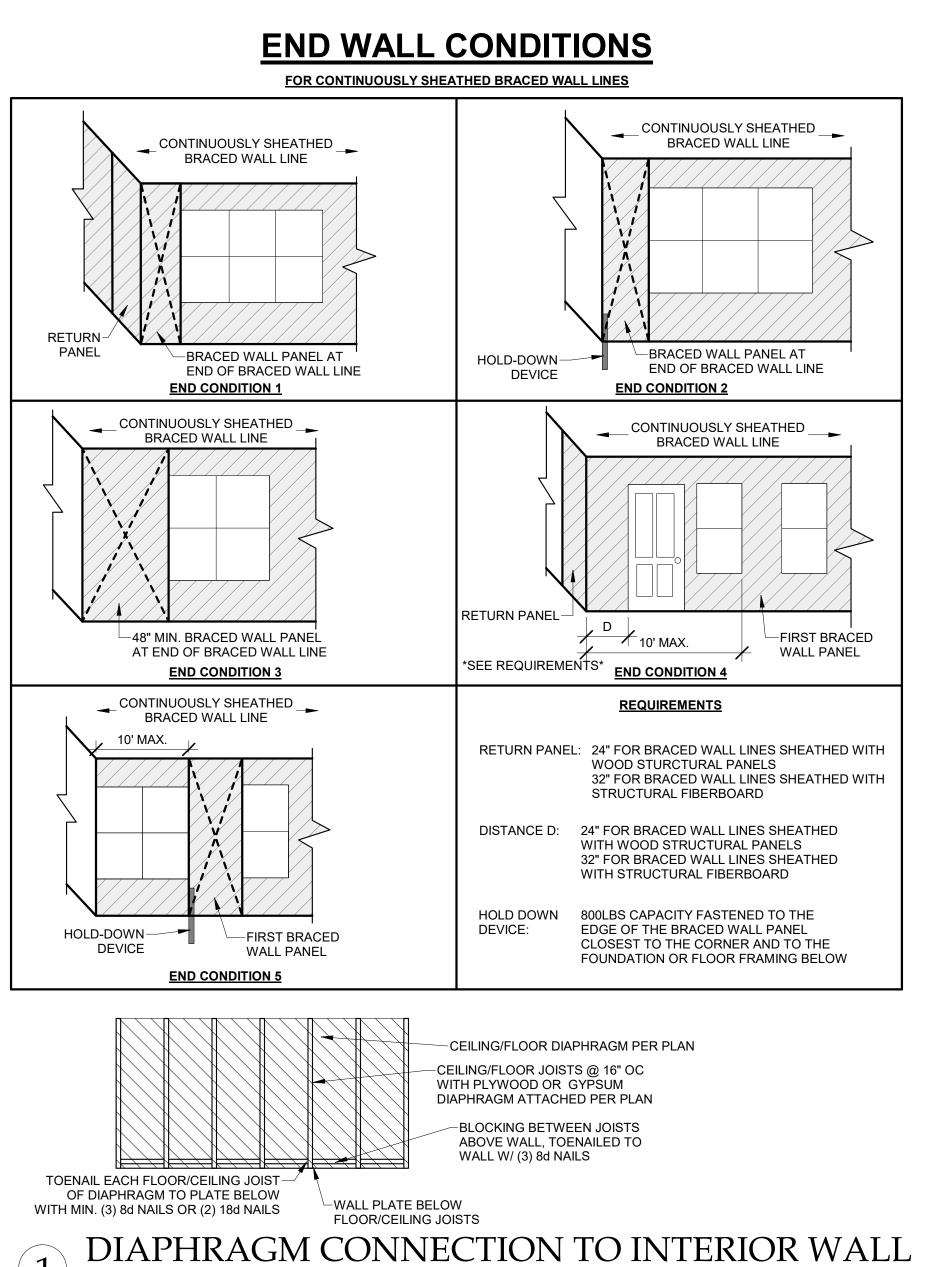
. <u>LIB METHOD:</u> 1X4 WOOD FASTENED W/ (3) 8d COMMON NAILS OR SIMPSON / USP 16 GA. TYPE WB (OR EQUIVALENT) STL. X-BRACE(S) @ 45° TO 60° ANGLES, MAXIMUM 16" O.C. STUDS FASTENED PER MANUF. SPECS.

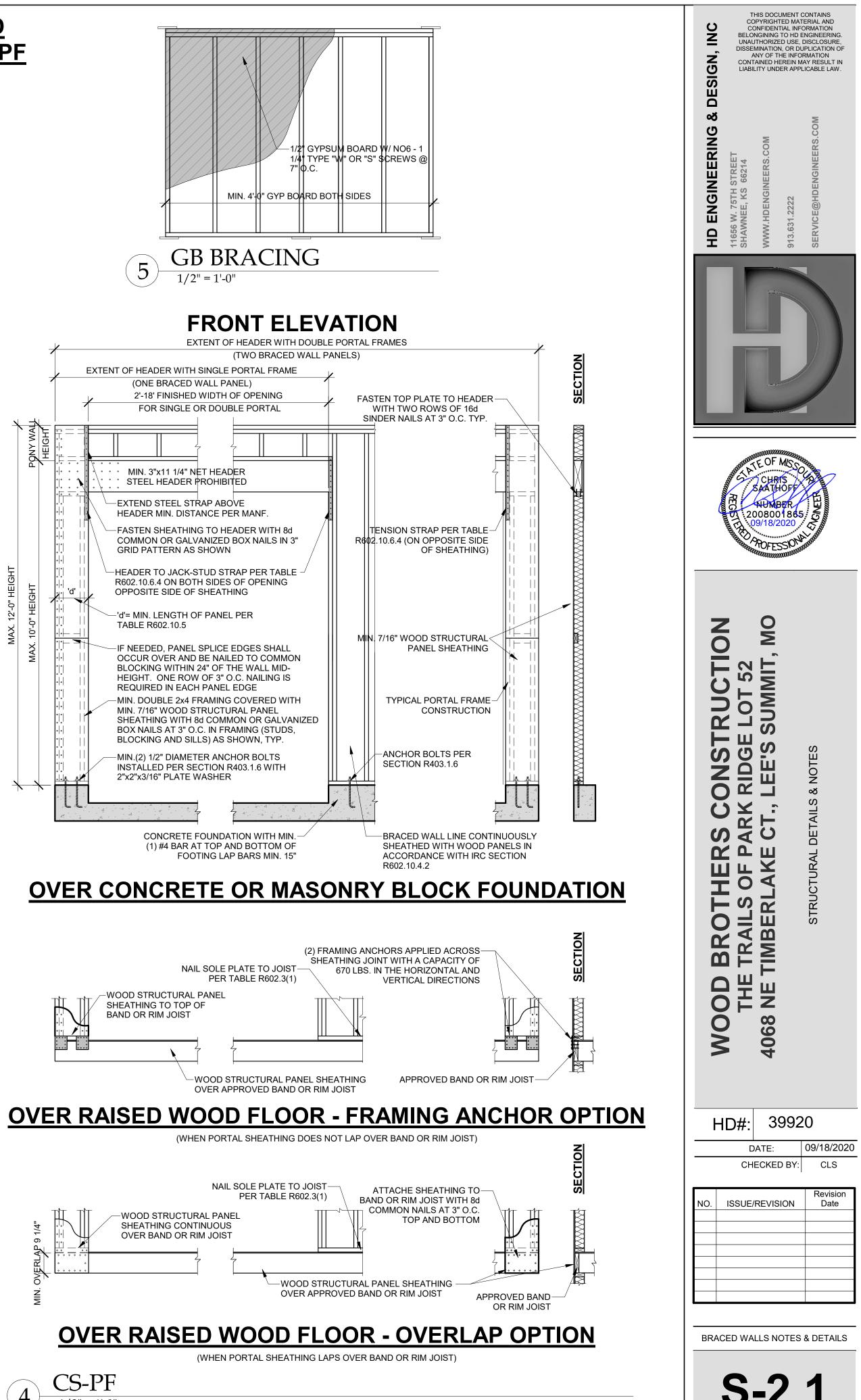


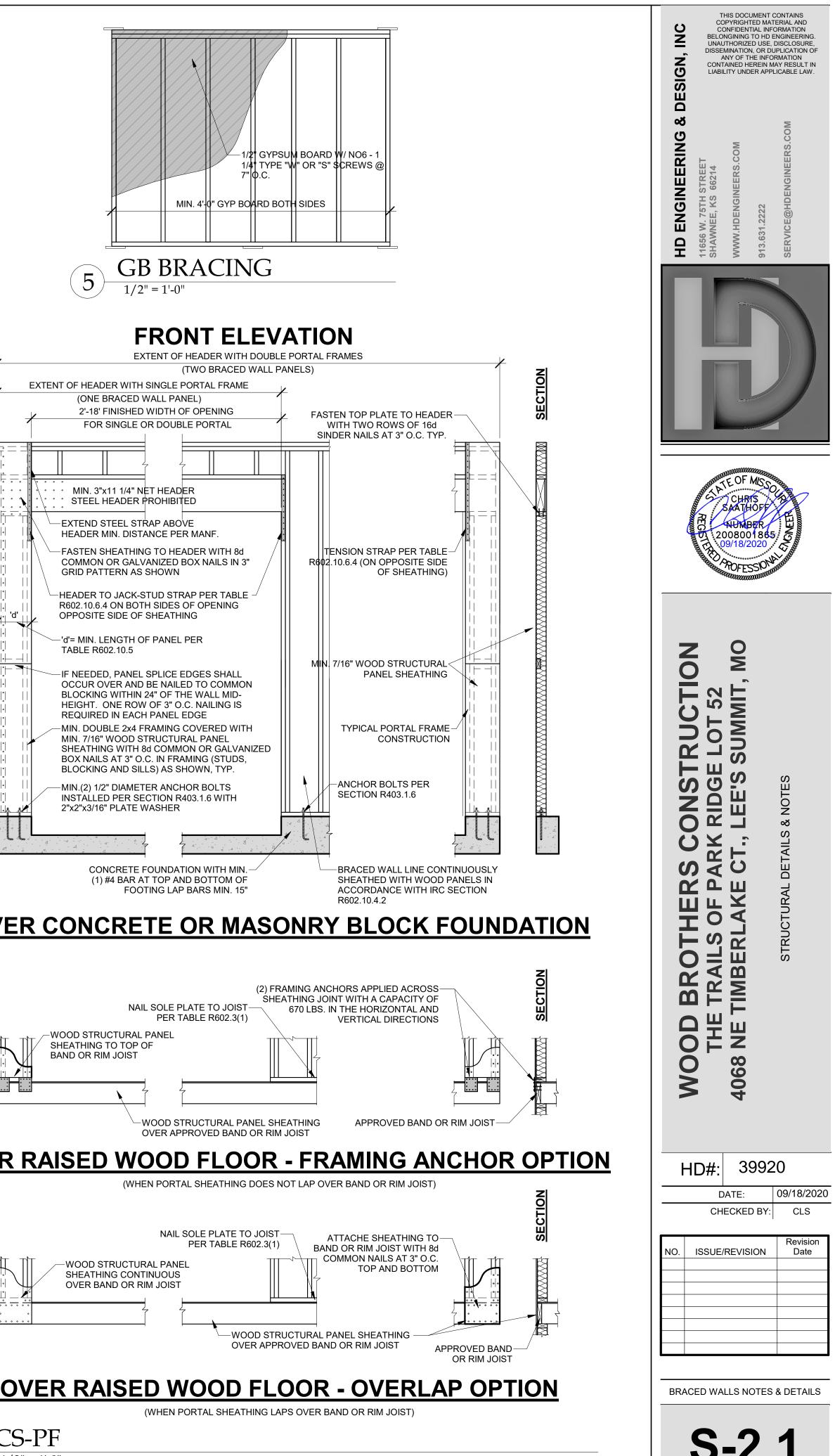
		MAX. TOTAL WALL HEIGHT (FEET)		TENSION STRAP CAPACI	TY REQUIRED (POUNDS) ^a		
MINIMUM WALL STUD FRAMING	MAX. PONY		MAX. OPENING WIDTH (FEET)	ULTIMATE DESIGN WIND SPEED V (MPH)			
NOMINAL SIZE & GRADE	WALL HEIGHT (FEET)			115	115		
				EXPOSURE B	EXPOSURE C		
	0	10	18	1,000	1,000		
		10	9	1,000	1,000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

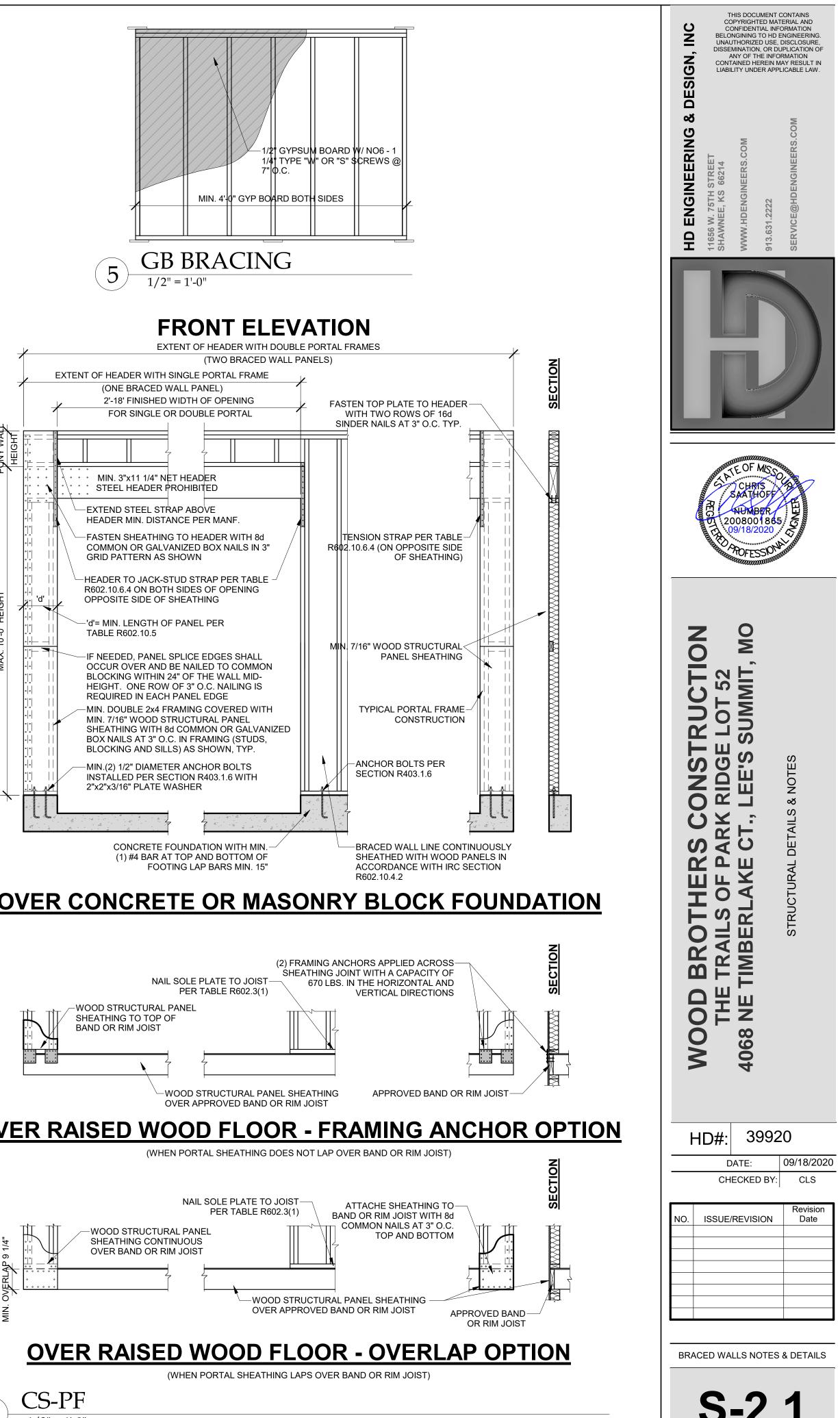
a. DR = DESIGN REQUIRED b. STRAP SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

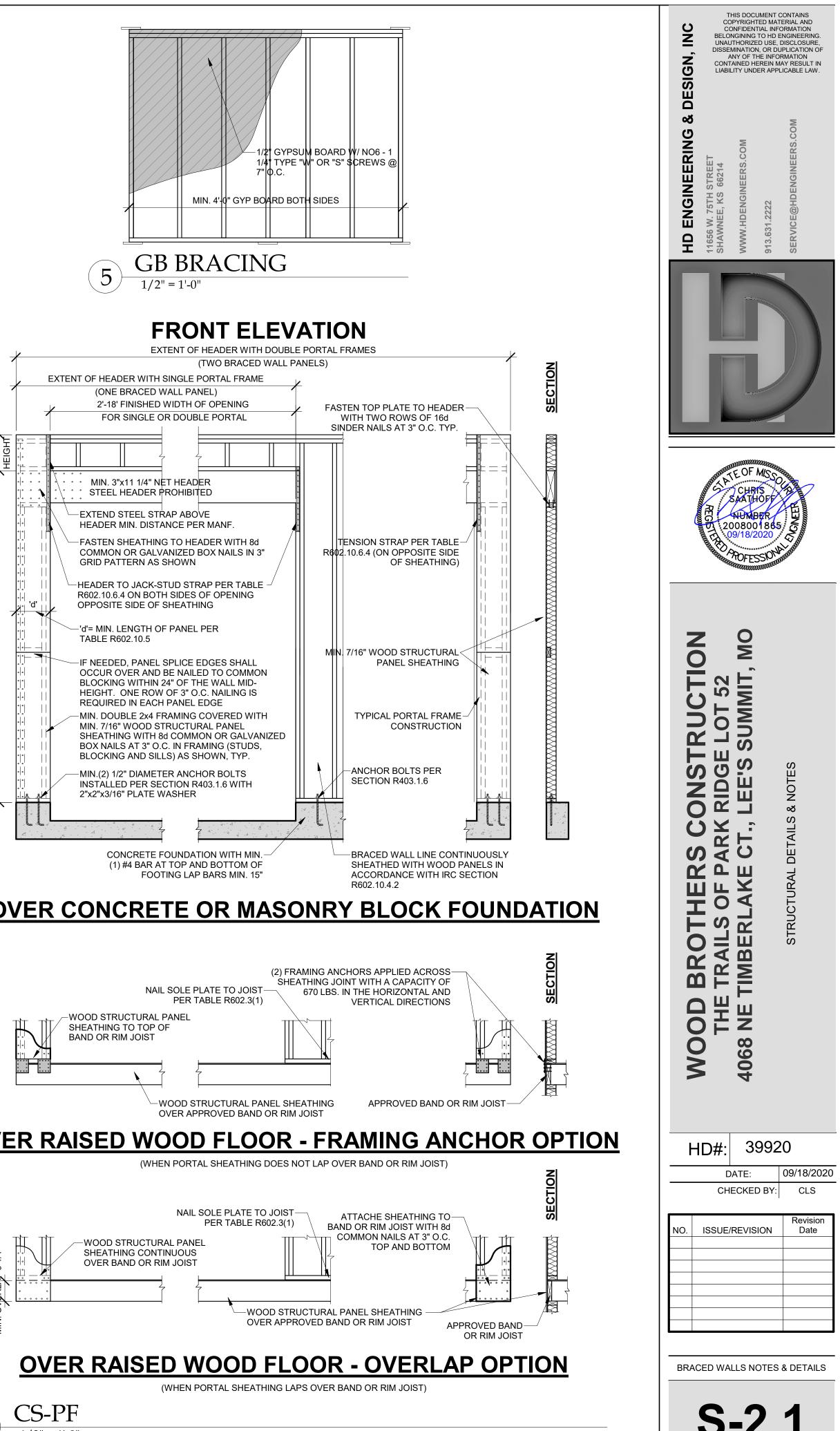
3/8" = 1'-0"

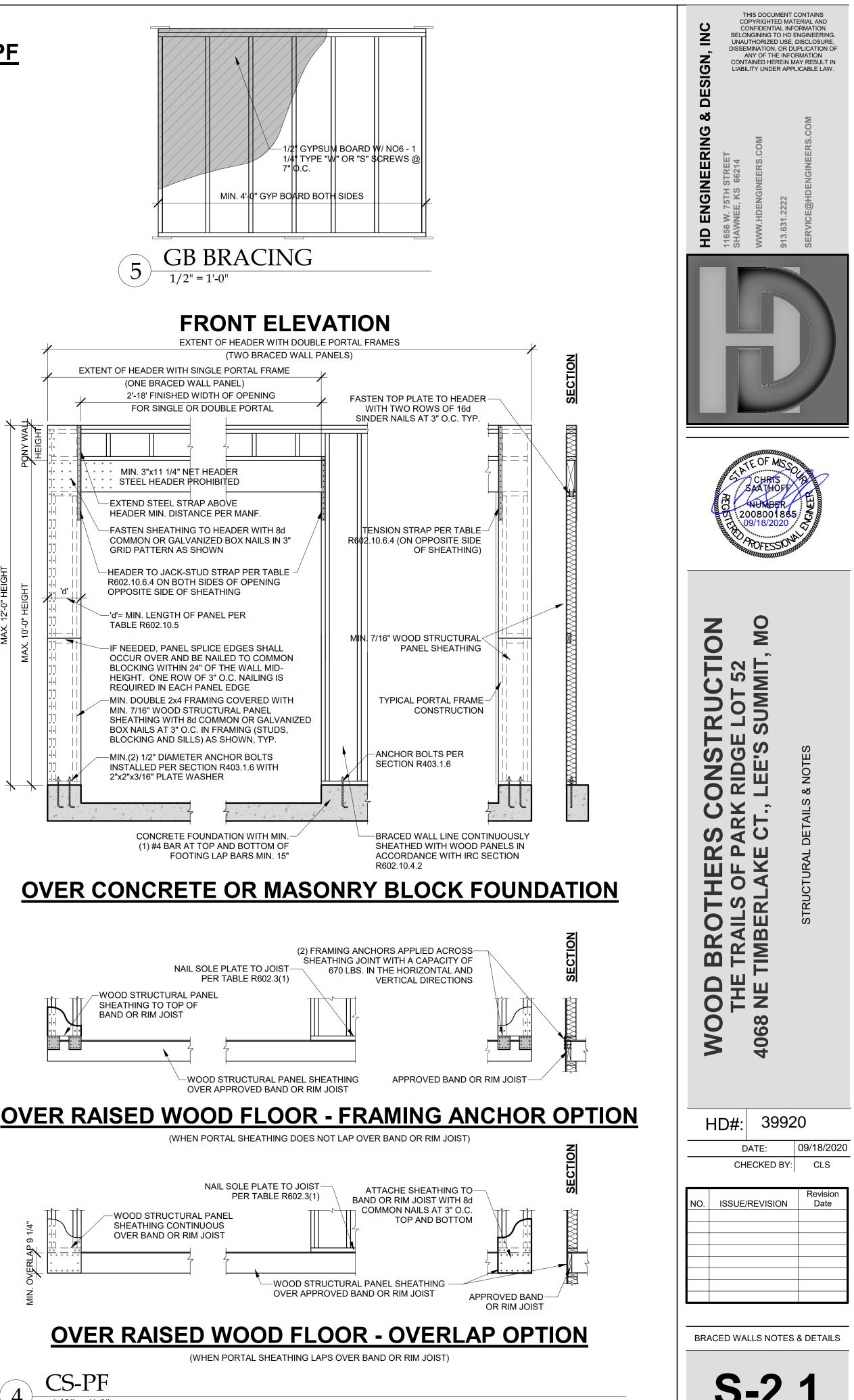


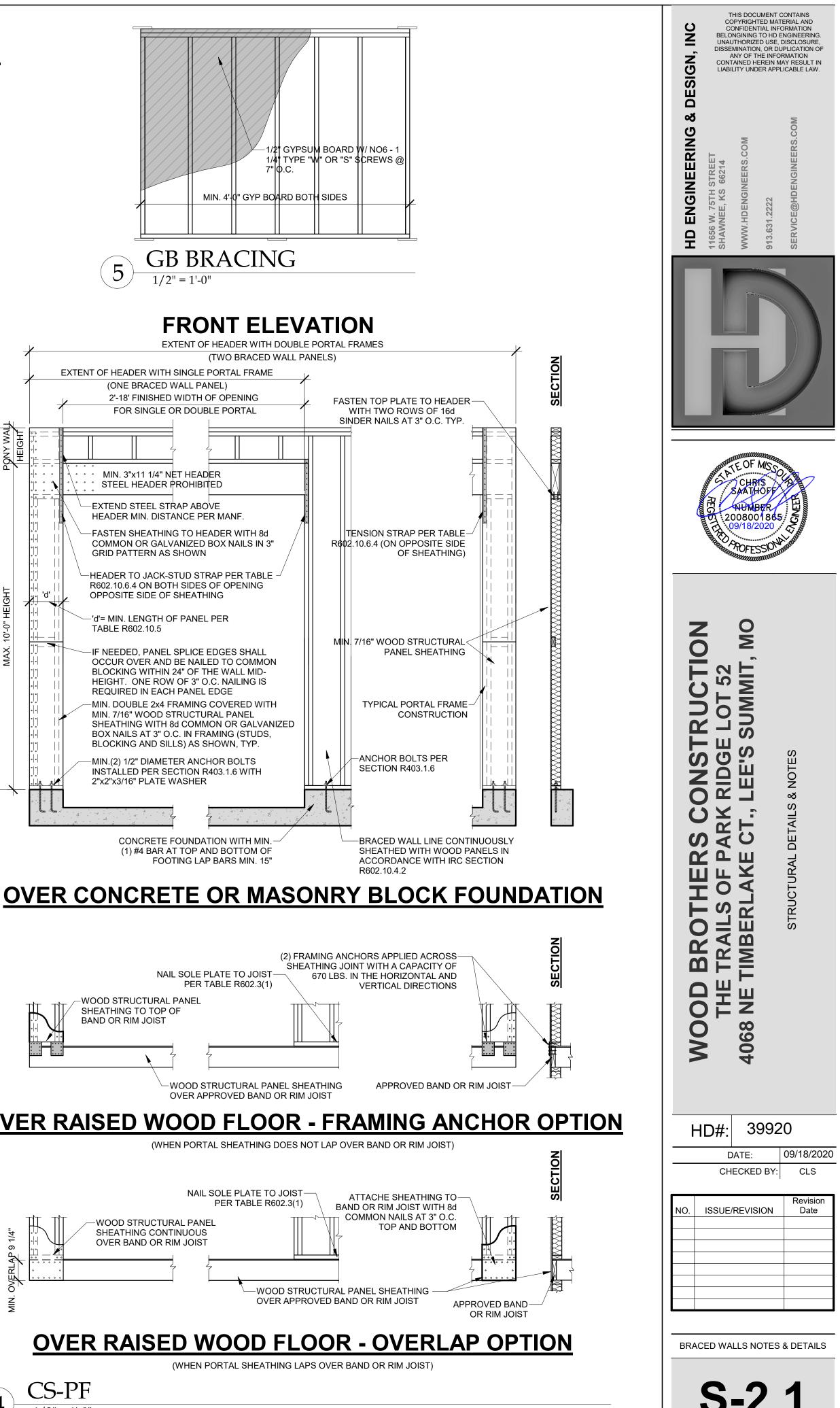






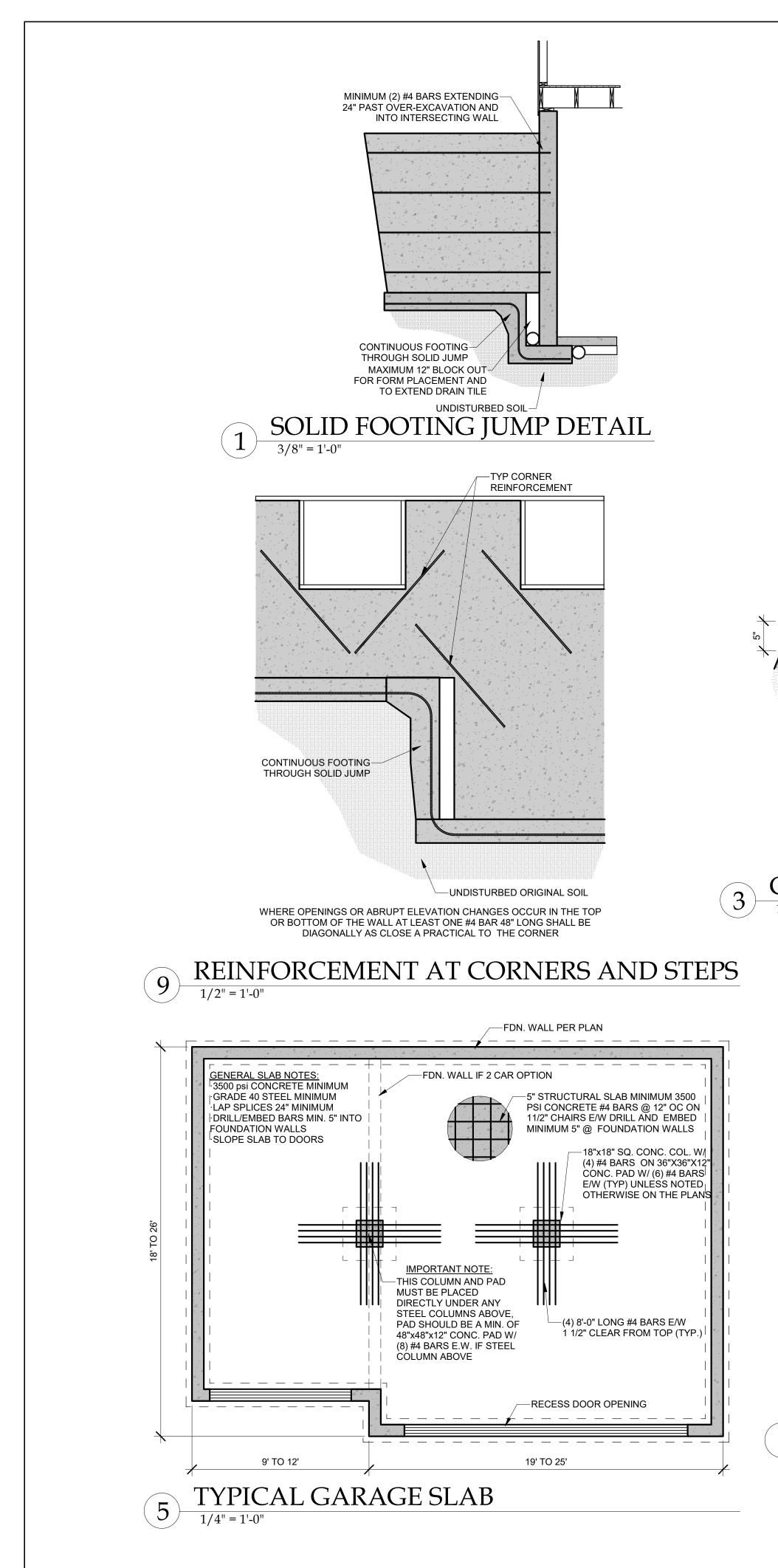


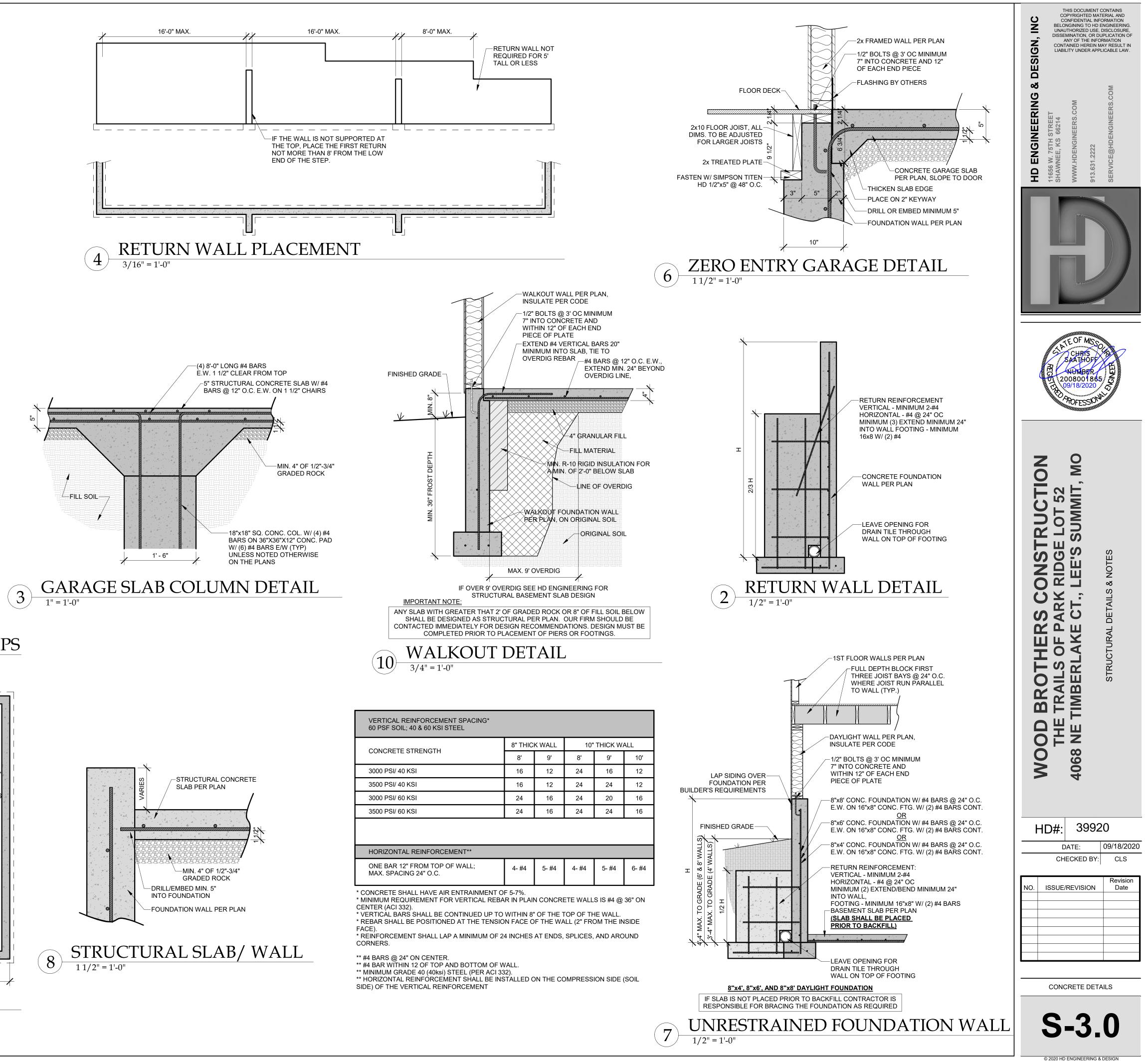






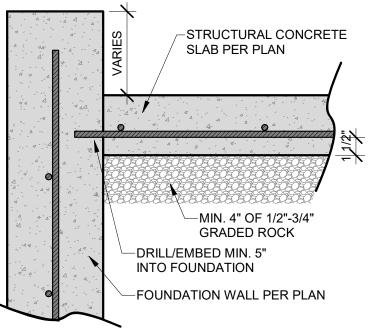
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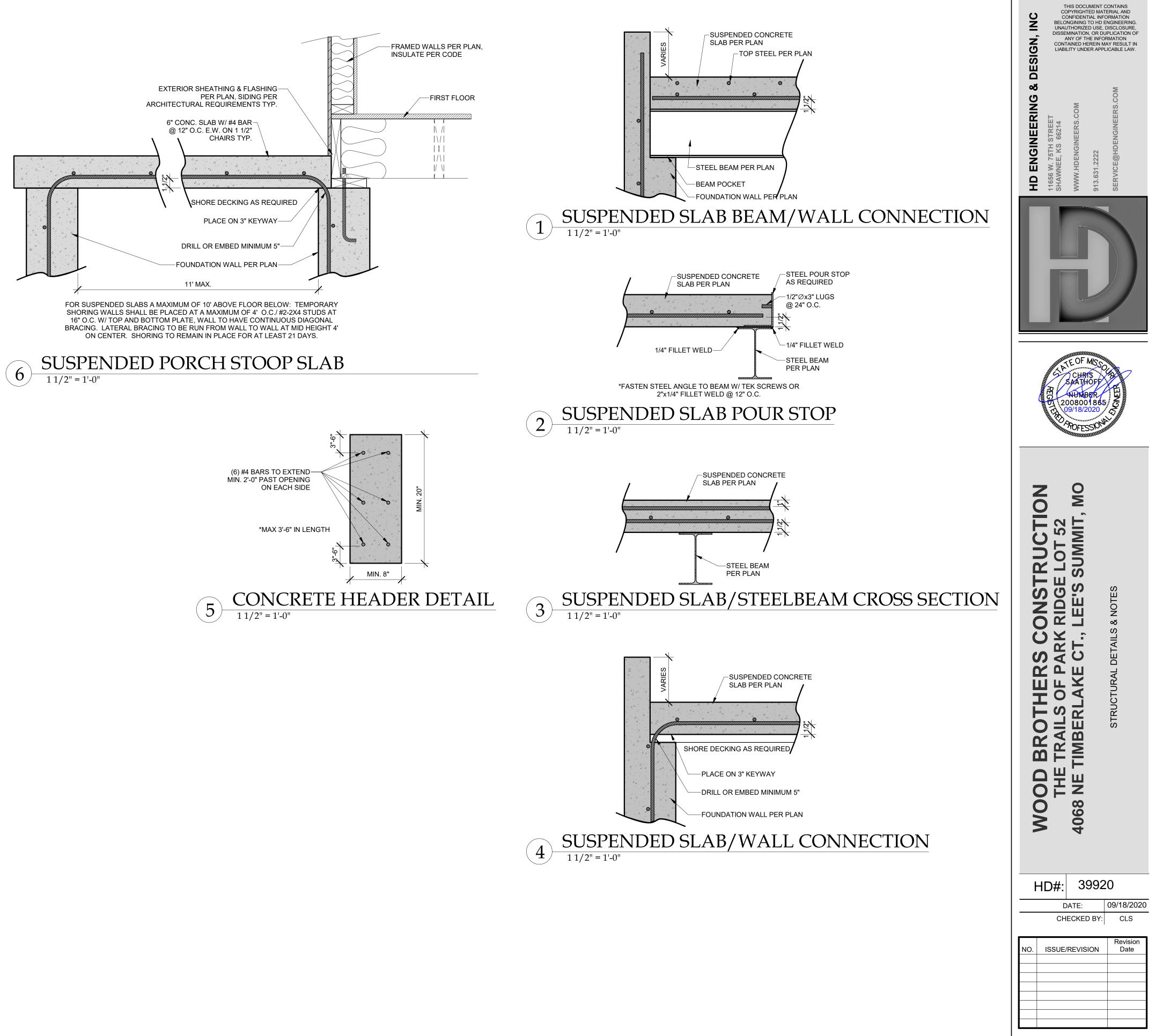
CONCRETE STRENGTH	8" THIC	K WALL	10" THICK WALL		
CONCRETE STRENGTH	8'	9'	8'	9'	10
3000 PSI/ 40 KSI	16	12	24	16	12
3500 PSI/ 40 KSI	16	12	24	24	12
3000 PSI/ 60 KSI	24	16	24	20	16
3500 PSI/ 60 KSI	24	16	24	24	16

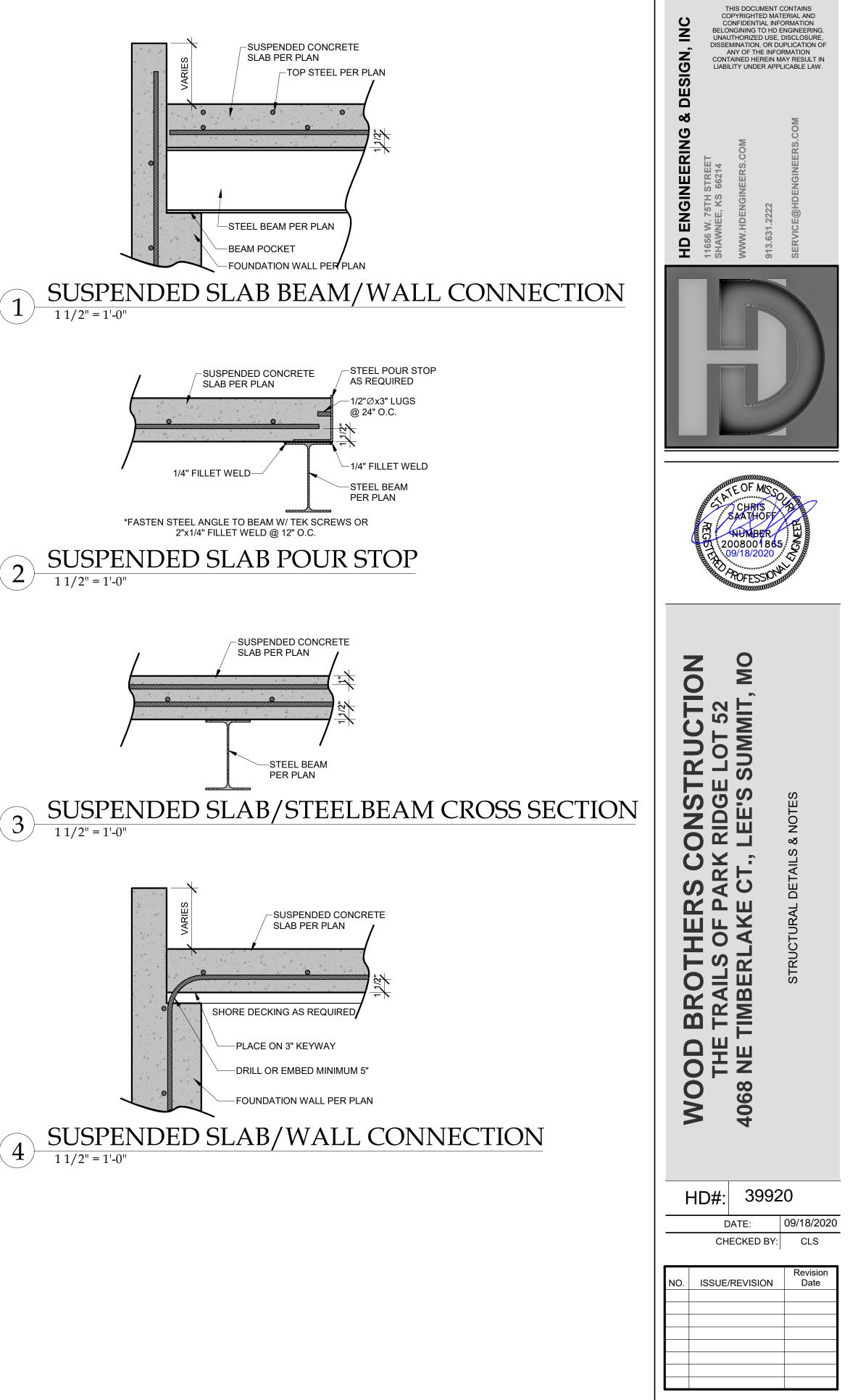
HURIZUNTAL REINFURGEMENT"					
ONE BAR 12" FROM TOP OF WALL; MAX. SPACING 24" O.C.	4- #4	5- #4	4- #4	5- #4	6- #4



(8)







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

SUSPENDED SLAB DETAILS

S-3.1



