

INTERIOR DOOR SCHEDULE \*ALL DOORS ARE 88" HEIGHT U.N.O.-ALL DOORS REQUIRE 4" R.O.(WIDTH) & 2" R.O.(HT.) BEYOND THE SCHEDULED SIZE ① 3'-0" HC 2'-6" ATRIUM 3 3'-0" SC (1-3/8") (20 MIN) W/ CLOSER (4) 3'-0" ENTRY-THERMAL (5) 2'-0" HC (6) 3'-0" BARN SLIDER (7) 2'-6" HC (8) PR. 2'-6" HC

(9) 2'-8" HC

N.T.S.

N.T.S.

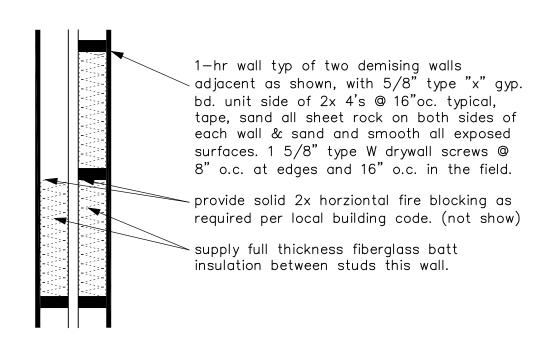
## WINDOW GENERAL NOTES

EGRESS WINDOWS SHALL COMPLY WITH SECTION 310 OF THE IRC. WINDOWS SHALL HAVE FALL PROTECTION PER IRC 312.2 WHERE NEEDED. WINDOWS, DOORS, AND OTHER GLAZING WILL COMPLY WITH THE REQUIREMENTS OF SECTION 308 OF THE IRC FOR SAFETY GLAZING.

## WINDOW THERMAL PROPERTIES

MANUFACTURER: MANUFACTURER: BUILDER'S VINYL W/ LOW-E PRODUCT LINE: U-FACTOR:

> WINDOW & DOOR SCHEDULE/INFO N.T.S.





A. R VALUES ARE MINIMUMS AND U-FACTORS ARE MAXIMUMS. B. INSULATION INSTALLED IN A CAVITY WHICH IS LESS THAN THE LABEL OR DESIGN THICKNESS OF DESIGN INSUALTION, THE INSTALLED R-VALUE SHALL NOT BE LESS

THAN SPECIFIED IN THE TABLE C. TOTAL R-VALUES OF A COMPLETE ASSEMBLY SHALL COUNT TOWARD COMPLIANCE OF THE MIN. REQUIRED PER TABLE. FOR EXAMPLE: CAVITY INSULATION + STUD + SHEATHING AND/OR GYPSUM BOARD + AIR GAP, ETC.

2018 INT. ENERGY CONSERVATION CODE (2018-CH. 11) DOORS & WINDOWS: U-0.35 MAX (HEAT GAIN MAX 0.25) SKYLIGHTS: U-0.55 MAX ATTIC CEILINGS: R-49 MIN. WOOD FRAME WALLS: 20 OR 13 + 5 MIN. FLOOR (OVER UNHEATED): R-19 MIN R-10 FOR 24" IN SLAB ON GRADE: **VAULTED CEILINGS:** R-38 (SEE DETAIL) CRAWL SPACE: BASEMENT WALLS: R-10 CONT OR R-13 CAVITY DUCTWORK: FUEL FIRED FURNACE: 90% AFUE MIN. ELECTRIC FURNACE: NO MINIMUM COOLING SYSTEM: 13 SEER MIN. WATER HEATER GAS FIRED STORAGE: 0.67 EF MIN GAS FIRED INSTANT: 0.62 EF MIN 0.97 EF MIN ELECTRIC INSTANT: 0.93 EF MIN

AN ENERGY EFFICIENT CERTIFICATE IS REQUIRED TO BE POSTED IN OR ON THE ELECTRICAL PANEL BEFORE FINAL INSPECTION. THE CERTIFICATE WILL BE PROVIDED WITH ALL NEW RESIDENTIAL PERMITS. IT IS THE PERMIT HOLDER/CONTRACTOR'S RESPONSIBILITY TO ENSURE THE CERTIFICATE HAS ACCURATE INFORMATION & IS POSTED BEFORE FINAL INSPECTION OWNER/CONTRACTOR IS RESPONSIBLE FOR MEETING THE PRESCRIPTIVE REQUIREMENTS OF IRC CHAPTER 11 UNLESS A HERS INDEX ANALYSIS FOR PERFORMANCE COMPLIANCE BASED ON THE PLANS IS SUBMITTED TO THE AHJ FOR APPROVAL

IECC ENERGY CODE COMPLIANCE



PH: (816) 380 - 5150 FAX: (816) 884 - 3250 EMAIL: MAIL@REOENGINEERING.COM

AARON D. OBERMILLER, P.E. MO-2008019580 // KS-25237 CERTIFICATION IS PROVIDED HEREON FOR STRUCTURAL ITEMS NOT OTHERWISE ADDRESSED IN THE REQUIREMENTS OF THE 2018 INTERNATIONAL RESIDENTIAL CODE. ALL CONSTRUCTION, MATERIALS, FASTENING NOT SPECIFICALLY DENOTED SHALL COMPLY WITH THE REQUIREMENTS OF THE 2018 IRC AND THEREIN REFERENCED STANDARDS. ANY REQUIRED CLARIFICATIONS OR MODIFICATIONS TO STRUCTURAL ITEMS SHALL BE APPROVED BY THE ENGINEER OF RECORD OR OTHER LICENSED PROFESSIONAL CAPABLE OF CERTIFYING COMPLIANCE WITH THE MINIMUM STANDARDS OF THE APPLICABLE CODE. ENGINEER SHALL NOT BE HELD

BUILDING AREA GROSS - PER UNIT BASEMENT/LOWER LEVEL = 705 S.F. 1ST LEVEL/MAIN FLOOR = 705 S.F. 2ND LEVEL/UPPER FLOOR = 1,010 S.F. 2-CAR GARAGE = 466 S.F.

COMBINED AREA GROSS - PER UNIT BASEMENT/LOWER LEVEL = 1,410 S.F. 1ST LEVEL/MAIN FLOOR = 1,4,10 S.F. 2ND LEVEL/UPPER FLOOR = 2,020 S.F. 2-CAR GARAGE = 932 S.F.

TOTAL GROSS LIVING AREA =2,420 S.F. TOTAL GROSS LIVING AREA = 4,840 S.F.

EXTENT/CONFIFURATION/DIMENSIONS OF THIS PAD AOR: AARON BROWN DETERMINED BY OWNER-IT IS NOT REQUIRED TO HAVE MO #: A-7215 A TRENCH/FROST FOOT'G BUT OWNER MAY ELECT 4334 QUARTER HORSE LANE BATES CITY, MO 64011 816-588-1178

> 2018 IRC CODE COMPLIANCE THESE DRAWINGS HAVE BEEN PREPARED WITH RESPECT TO COMPLIANCE OF THE 2018 IRC AND NEC 2017—ANY REFERENCE FOUND NOT CORRECTLY OR MISTANKINGLY IDENTIFIED TO THESE CODES SHOULD BE BROUGHT TO THE ATTENTION OF

THE DESIGN PROFESSIONAL

A-1215

 $\bigcirc$  $\supset S$ S -

DATE: 08-21-2025 SUBDIVISION: \_\_\_\_ PLOT #: \_\_\_\_\_\_ REVISION

DATE

ISSUED: PERMIT/CONSTRUCTION

LEE'S SUMMIT, MISSOURI 09/11/2025 2:06:04

TO HAVE IT POURED WITH ONE RESPONSIBLE FOR DRAWING ERRORS AND OMISSIONS IN PLAN OR ELEVATION OF PROVIDED PLANS. 24'-1" 24'-1" 11'-8" 12'-5" 12'-5" 11'-8" 5'-6" 2'-7" 6'-3" 6'-2" 6'-2" 6'-3" 5'-6" 3'-7" 4" (MIN) CONC. NON-STRUCT. SLAB -REINF. W/ #4'S @ 24" O.C. E.W. — 4" (MIN) CONC. NON-STRUCT. SLAB REINF. W/ #4'S @ 24" O.C. E.W. 6 x 6 TREATED POST — ∠ 6 x 6 TREATED POST 3'-3" CS-WSP 3'-3" CS-WSP |DB24-3 | D/W D/W |DB24-3 CONC. PATIO CONC. PATIO SB39-FARM SB39-FARM BWL 1 <u>BWL</u> 1 \_\_\_ · ---- · \_\_\_\_ (2) 1+3/4" x 9-1/4" LVL (2) 1-3/4" x 9-1/4" LVL (2) 12" LVL HDR. (2) 12" LVL HDR. **KITCHEN** 42" x 78" ISLAND JOIST ABOVE 2x10 JOIST D.F.L. NO. 2 @ 16" 0.0 \_ \_ \_ \_ \_ JOIST ABOVE JOIST ABOVE 2x10 JOIST D.F.L. NO. 2 @ 16" O.C. 2x10 JOIST D.F.L. NO. 2 @ 16" O.C — DUCT RUN SOFFIT ABOVE — DUCT RUN SOFFIT ABOVE LIVING ROOM LIVING ROOM ᅲᆕᆕᆕᆒ B21 DB24-3 DB24-3 B21 B21 W2442 W2142 W2142 W2442 W2442 W362432 W2142||¦ W362432 11'-8" 11'-8" DUCT RUN SOFFIT ABOVE -— DUCT RUN SOFFIT ABOVE \HANDRAIL REQ'D 1-SIDE HANDRAIL REQ'D 1-SIDE JOIST ABOVE 2x10 JOIST D.F.L. NO. 2 @ 16" 2x10 JOIST D.F.L. NO. 2 @ 16" O.C. (Opt CHASE | CHASE VSB24 VSB24 (5) HIGH SHLVS. ZERO ENTRY OR (1) STEP UP--4 CONTRACT. OPTION <sup>1</sup>3'-11" 3'-11" LINÉ OF FLOOR ABOVE 2-CAR GARAGE A105 LINE OF 2-CAR GARAGE FLOOR ABOVE || ი W10 x 26 STEEL BEAM W10 x 26 STEEL BEAM \_ LINE OF FLOOR ABOVE LINE OF FLOOR | ABOVE (2) 1-3/4" x 14" LVL OHD HDR. (2) 1-3/4" x 14" LVL OHD HDR. PFH PFH <u>16'-0"(W) x</u> 8'-0<u>" 0/H</u> <u>16'-0"(W) x</u> 8'-0"<u>0/</u>H BWL 2 (DASMA 115 MPH RATED) (DASMA 115 MPH RATED) BWL 2 20'-0" 20'-0" 24'-1" 24'-1" **BUILDING ADDRESS:** LOT 5 - SEQUOIA 229 & 231 NW ORCHARD CT.

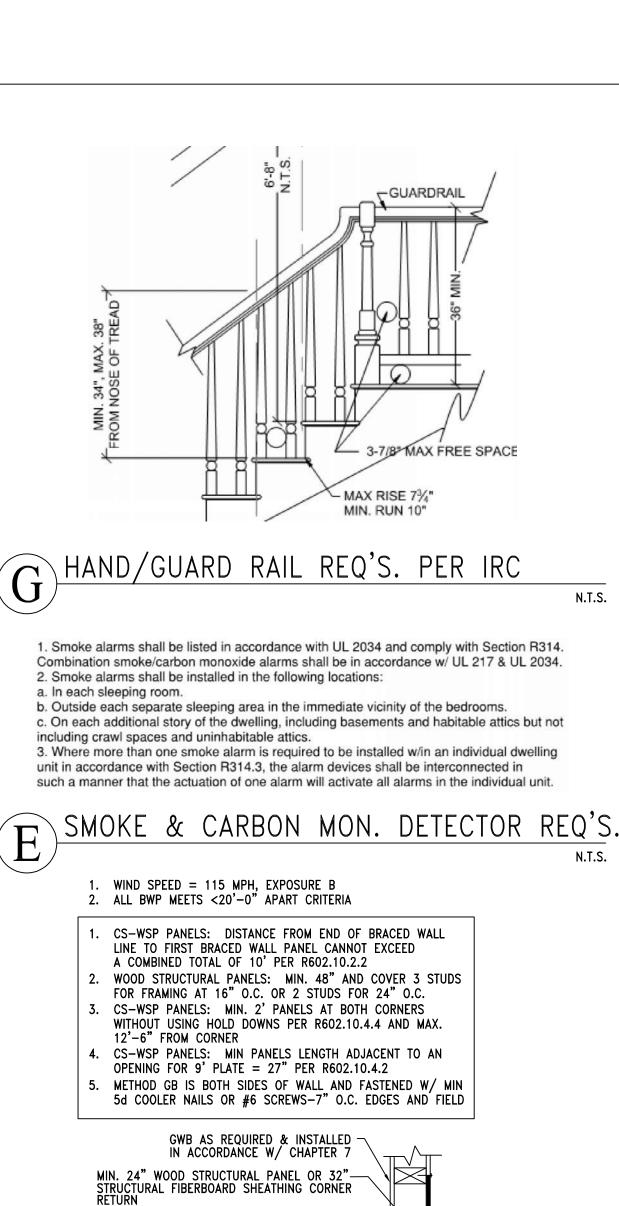
ALL INFORMATION, ANNOTATIONS, FRAMING, DIMENSIONS, ETC SHOWN ON ONE SIDE OF THE DUPLEX APPLY TO THE OTHER

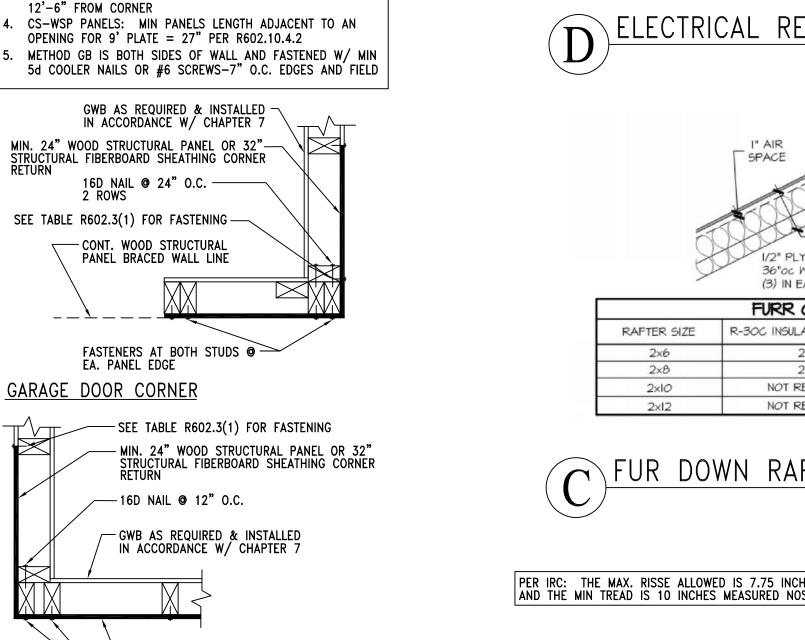
SIDE FOR INSTANCES WHERE ANY INFORMATION IS MISSING

FROM APPEARING ON BOTH SIDES OF THE DEMISING WALL

1/4" = 1'-0"

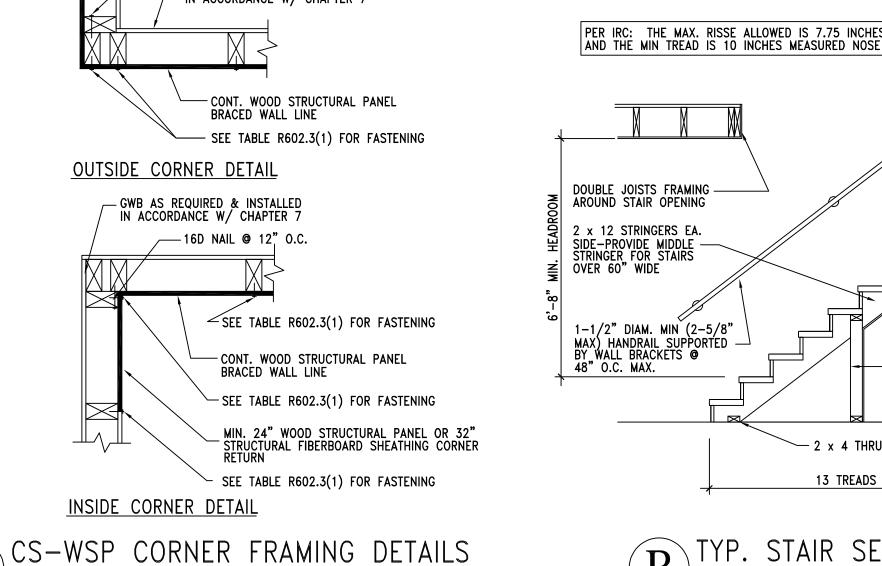
LEE'S SUMMIT, MO 64063



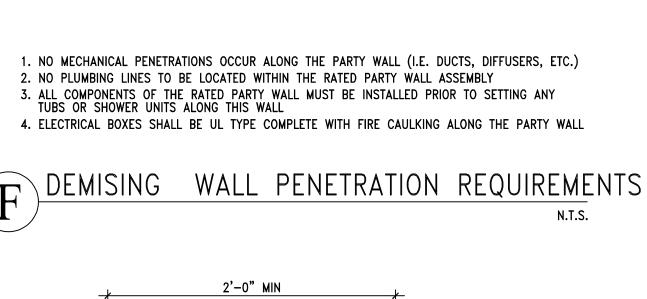


N.T.S.

N.T.S.



N.T.S.



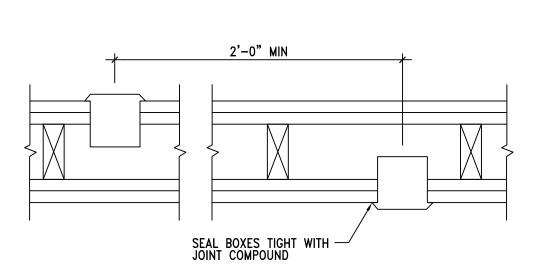
N.T.S.

N.T.S.

N.T.S.

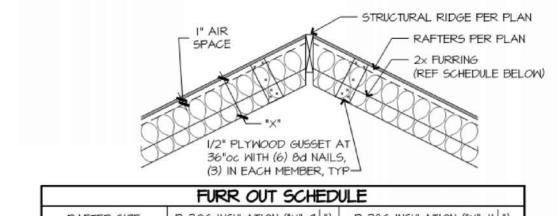
BWL 1

BWL 2



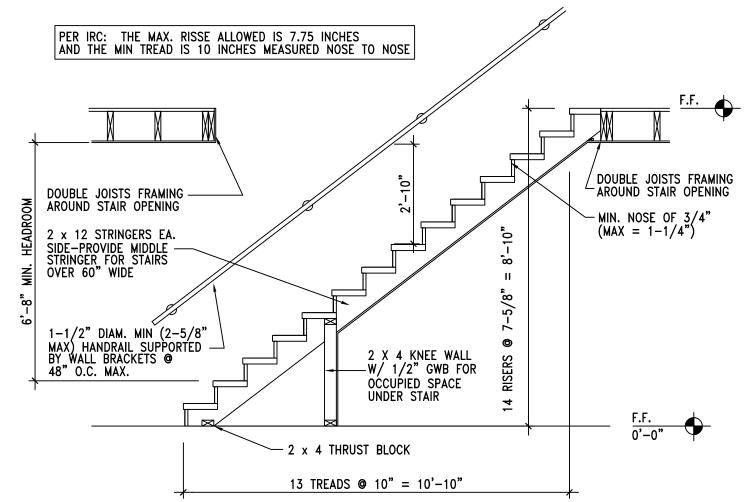
- 1. FIRESTOPPING PER DETAIL E/A8 IS REQUIRED-NO EXCEPTIONS 2. RECESSED ELECTRICAL FIXTURES INSTALLED IN THE WALL PER: A. ANY STEEL ELECTRICAL BOX NOT EXCEEDING 16 SQUARE
- INCHES IN AREA SHALL BE PERMITTED B. THE AGGREGATE AREA OF THE PERMITTED BOXES CANNOT EXCEED 100 SQUARE INCHES IN ANY 100 SQUARE FOOT
- WALL AREA 3. WHERE OUTLETS ARE INSTALLED ON OPPOSITE SIDES OF THE
- WALL, THE BOXES SHALL BE SEPARATED BY ONE OF THE FOLLOWING MEASURES:
- A. A HORIZONTAL DISTANCE NOT LESS THAN 24 INCHES
- B. HORIZONTAL DISTANCE NOT LESS THAN THE DEPTH OF THE WALL CAVITY WHERE THE CAVITY IS FILLED WITH CELLULOSE LOOSE-FILL, ROCK WOOL, OR SLAG WOOL INSULATION
- C. SOLID FIRE RETARDENT BLOCKING OR OTHER LISTED KNOWN AND TESTED FIRE RESISTANT MATERIAL
- 4. UL LISTED AND TESTED BOXES ONLY ALLOWED IN PARTY WALL
- 5. USE OF UL LISTED MEMBRANES OR PUTTY PACKS SHALL BE USED TO FILL ANY ANNULAR SPACE OR VOID IN THE RATED ASSEMBLY
- 6. PENETRATIONS BY ANY DUCTS SHALL BE EQUIPPED WITH FIRE DAMPERS IN ACCORDANCE WITH SECTION 714.1.1 OF THE IBC

# LECTRICAL RECEPT. @ DEMISING WALL N.T.S.



FURR OUT SCHEDULE			
RAFTER SIZE	R-30C INSULATION ("X"=91")	R-38C INSULATION ("X"=114")	
2×6	2x6	2×8	
2×8	2x4	2x6	
2×IO	NOT REQUIRED	2×4	
2xI2	IXI2 NOT REQUIRED NOT REQU		

# FUR DOWN RAFTER REQUIREMENTS





STRUCTURAL MEMBER REVIEW AND CERTIFICATION:



AARON D. OBERMILLER, P.E.

16'-11"

R/S

BEDROOM #3

60" F.G. TUB/SHWR.

5'-3"

3VDB26

-∀SB29

**EGRESS** 

3'-6"

MASTER BEDROOM

2×6 CJ JOIST D.F.L. NO. 2 @ 16" O.C.

24'-1"

(2) 2k10 ABOVE

LINE OF FLOOR BELOW

13'-0"

24'-1"

2×6 CJ JOIST D.F.L. NO. 2 @ 16" O.C.

(SEE FRAMING LAYOUT SHEET A6)

HANDRAIL REQ D -S DE | | |

VSB29

M. BATH

36" x 48" TILED SHWR.

4'-0" CS-WSP

ALL INFORMATION, ANNOTATIONS, FRAMING, DIMENSIONS, ETC.

SHOWN ON ONE SIDE OF THE DUPLEX APPLY TO THE OTHER

SIDE FOR INSTANCES WHERE ANY INFORMATION IS MISSING

FROM APPEARING ON BOTH SIDES OF THE DEMISING WALL

7'-2"

2×6 CJ JOIST D.F.L. NO. 2 @ 16" O.C.

(SEE FRAMING LAYOUT SHEET A6)

VSB29

VSB29

M. BATH

36" x 48" TILED SHWR.

4'-0" CS-WSP

24'-1"

16'-11"

R/S

BEDROOM #3

60" F.G. TUB/SHWR.

5'-3**"** 

3VDB26

VSB29 VSB29-

**EGRESS** 

SD CM

MASTER BEDROOM

(2) 2x10 ABOVE

LINE OF FLOOR BELOW

13'-0"

2×6 CJ JOIST D.F.L. NO. 2 @ 16" O.C.

24'-1"

5**'−**5"

CIVIL ENGINEERING CONSULTANTS 1805 WATERS ROAD, HARRISONVILLE, MISSOURI 64701 PH: (816) 380 - 5150 FAX: (816) 884 - 3250 EMAIL: MAIL@REOENGINEERING.COM MO. CERTIFICATE OF AUTHORITY #3005002187

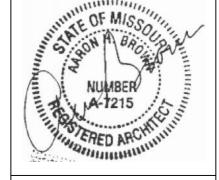
BWL 1

INTERNATIONAL RESIDENTIAL CODE, ALL CONSTRUCTION, MATERIALS, FASTENING NOT SPECIFICALLY DENOTED SHALL COMPLY WITH THE REQUIREMENTS OF THE 2018 IRC AND THEREIN REFERENCED STANDARDS. ANY REQUIRED CLARIFICATIONS OR MODIFICATIONS TO STRUCTURAL ITEMS SHALL BE APPROVED BY THE ENGINEER OF RECORD OR OTHER LICENSED PROFESSIONAL

RESPONSIBLE FOR DRAWING ERRORS AND OMISSIONS IN PLAN OR ELEVATION OF PROVIDED PLANS.

R/S\_\_\_

5'-5"



MO-2008019580 // KS-25237

CERTIFICATION IS PROVIDED HEREON FOR STRUCTURAL ITEMS NOT OTHERWISE ADDRESSED IN THE REQUIREMENTS OF THE 2018

CERTIFICATION IS PROVIDED HEREON FOR STRUCTURAL ITEMS NOT OTHERWISE ADDRESSED IN THE REQUIREMENTS OF THE 2018

CERTIFICATION IS PROVIDED HEREON FOR STRUCTURAL ITEMS NOT OTHERWISE ADDRESSED IN THE REQUIREMENTS OF THE 2018

CERTIFICATION IS PROVIDED HEREON FOR STRUCTURAL ITEMS NOT OTHERWISE ADDRESSED IN THE REQUIREMENTS OF THE 2018

CERTIFICATION IS PROVIDED HEREON FOR STRUCTURAL ITEMS NOT OTHERWISE ADDRESSED IN THE REQUIREMENTS OF THE 2018

CERTIFICATION IS PROVIDED HEREON FOR STRUCTURAL ITEMS NOT OTHERWISE ADDRESSED IN THE REQUIREMENTS OF THE 2018

CERTIFICATION IS PROVIDED HEREON FOR STRUCTURAL ITEMS NOT OTHERWISE ADDRESSED IN THE REQUIREMENTS OF THE 2018

CERTIFICATION IS PROVIDED HEREON FOR STRUCTURAL ITEMS NOT OTHERWISE ADDRESSED IN THE REQUIREMENTS OF THE 2018

CERTIFICATION IS PROVIDED HEREON FOR STRUCTURAL ITEMS NOT OTHERWISE ADDRESSED IN THE REQUIREMENTS OF THE 2018

CERTIFICATION IS PROVIDED HEREON FOR STRUCTURAL ITEMS NOT OTHERWISE ADDRESSED IN THE REQUIREMENTS OF THE 2018

CERTIFICATION IS PROVIDED HEREON FOR STRUCTURAL ITEMS NOT OTHERWISE ADDRESSED IN THE REQUIREMENTS OF THE 2018

CERTIFICATION IS PROVIDED HEREON FOR STRUCTURAL ITEMS NOT OTHERWISE ADDRESSED IN THE REQUIREMENTS OF THE 2018

CERTIFICATION IS PROVIDED HEREON FOR STRUCTURAL ITEMS NOT OTHERWISE ADDRESSED IN THE 2018

CERTIFICATION IS PROVIDED HEREON FOR STRUCTURAL ITEMS NOT OTHERWISE ADDRESSED IN THE 2018

CERTIFICATION IN TH AOR: AARON BROWN MO #: A-7215 4334 QUARTER HORSE LANE CAPABLE OF CERTIFYING COMPLIANCE WITH THE MINIMUM STANDARDS OF THE APPLICABLE CODE. ENGINEER SHALL NOT BE HELD BATES CITY, MO 64011 816-588-1178

> 2018 IRC CODE COMPLIANCE FOUND NOT CORRECTLY OR MISTANKINGLY IDENTIFIED TO

THESE DRAWINGS HAVE BEEN PREPARED WITH RESPECT TO COMPLIANCE OF THE 2018 IRC AND NEC 2017—ANY REFERENCE THESE CODES SHOULD BE BROUGHT TO THE ATTENTION OF THE DESIGN PROFESSIONAL

> $\supset \mathcal{S}$ S ~

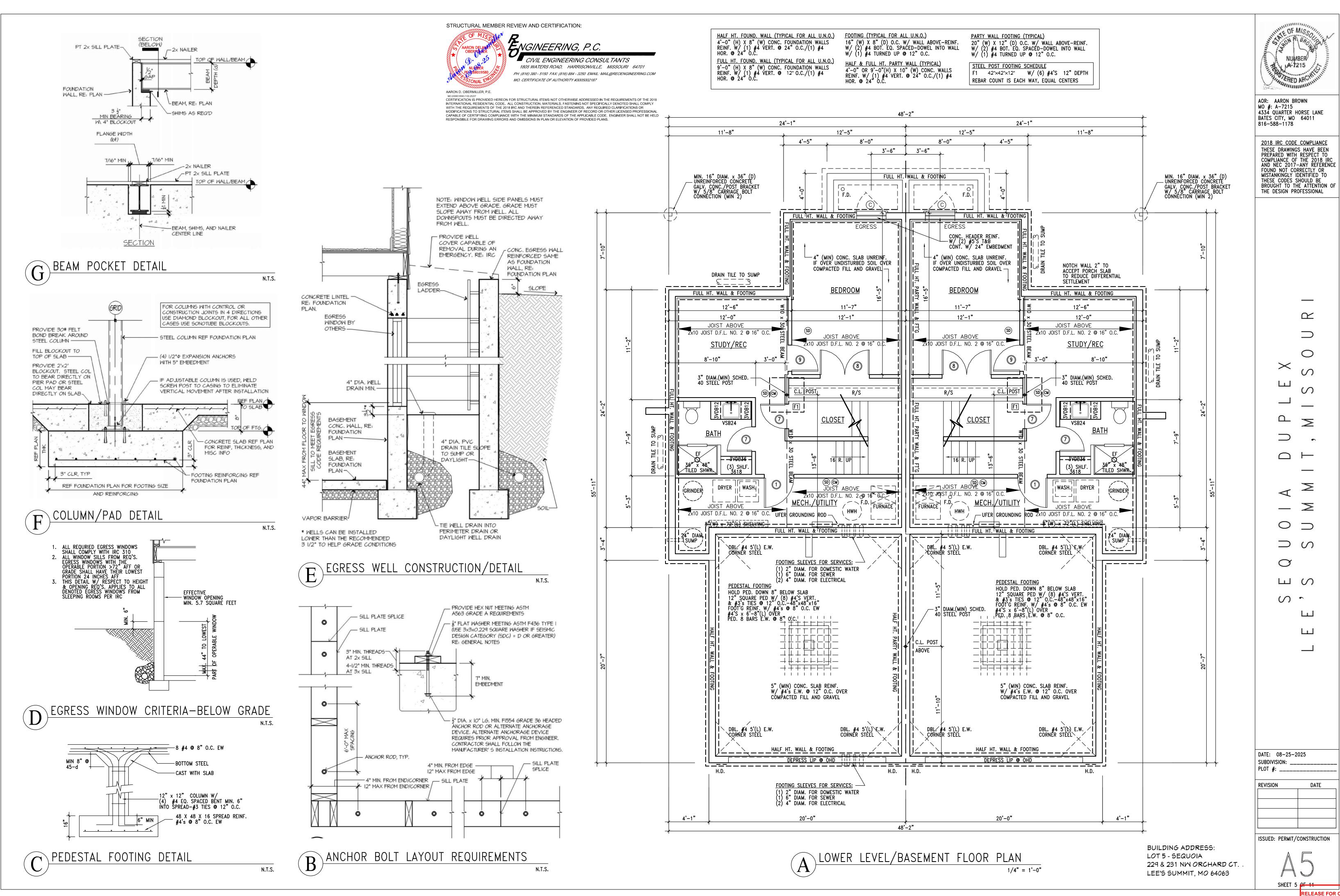
DATE: 08-25-2025 SUBDIVISION: \_\_\_\_ PLOT #: \_\_\_\_\_ REVISION DATE

ISSUED: PERMIT/CONSTRUCTION

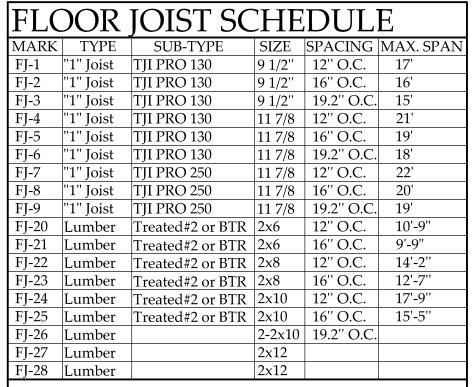
UPPER LEVEL FLOOR PLAN 1/4" = 1'-0"

BUILDING ADDRESS: LOT 5 - SEQUOIA 229 & 231 NW ORCHARD CT. LEE'S SUMMIT, MO 64063

BWL 2



RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
09/11/2025 2:06:05



Note: "1" Joists Listed Above Are Manufactured By Trus Joist Macmillan And Spans Are Based On L / 48ø Live Load Deflection

MARK	SIZE	NO. OF STUDS AT EACH END
<u>(A)</u>	2 - 2x 10's	2
$^{\circ}$	2 - 2x 10's	2
©	2 - 1 3/4" x 7 1/4" L.V.L.'S	2
D	2 - 1 3/4" x 9 1/2" L.V.L.'S	3
E	2 - 1 3/4" x 11 7/8" L.V.L.'S	3
F	2 - 1 3/4" x 14" L.V.L.'S	4
G	2 - 1 3/4" x 16" L.V.L.'S	4
$^{\oplus}$	2 - 1 3/4" x 18" L.V.L.'S	4
①	3 - 1 3/4" x 9 1/2" L.V.L.'S	4
K	3 - 1 3/4" x 11 7/8" L.V.L.'S	4
Ĺ	3 - 1 3/4" x 14" L.V.L.'S	5
$\bigcirc$	3 - 1 3/4" x 16" L.V.L.'S	5
$\bigcirc$	3 - 1 3/4" x 18" L.V.L.'S	5
P	1 - 1 3/4" x 9 1/2" L.V.L.'S	2
Q	1 - 1 3/4'' x 11 7/8'' L.V.L.'S	2

Note: "U" Indicates Header Is Upset

CEI	CEILING JOSTS SCHEDULE					
MARK	SIZE	SPACING	MAXIMUM SPAN			
CJ-1	2X6	12"	14'-10''			
CJ-2	2X6	16"	12'-10"			
CJ-3	2X8	12"	18'- 9"			
CJ-4	2X8	16"	16'- 3"			
CJ-5	2X10	12"	22'- 11"			
CJ-6	2X10	16"	19'- 10"			

RO	OF R	RAFTER S	CHEDU	JLE
MARK	SIZE	SPACING	MAXIMU	JM SPAN
			FLAT	VAULTED
			CEILING	CEILING
RJ-1	2 X 6	12"	16'-7''	16'-6''
RJ-2	2 X 6	16"	14'-4''	11'-11"
RJ-3	2 X 6	24"	11'-9"	9'-9''
RJ-4	2 X 8	12"	21'-0''	17'-5''
RJ-5	2 X 8	16"	18'-2"	15'-1''
RJ-6	2 X 8	24"	14'-10''	12'-4"
RJ-7	2 X 10	12"	25'-8''	21'-4''
RJ-8	2 X 10	16"	22'-3"	18'-5"
RJ-9	2 X 10	24''	18'-2"	15'-1''
RJ-10	2 X 12	16"	25'-9''	21'-5"
RJ-11	2 X 12	24"	18'-2"	17'-6''

All Spans Figured Using #2 Douglas Fir And Tables 2308.7.2(1) And 2308.7.2(2) Respectively Of The 2018 IBC, Where Dead Load = 10 PSF

LVL REQUIRED BEARING (PARALELL W/ BEARING WALL) MIN. 50% OF TOTAL LVL THICKNESS (I.E. 9-1/4" LVL = 4.6") 2 PLY LVL CONNECTED WITH SIMPSON ASSEMBLY A STRONG-DRIVE SCREWS (2) 1-3/4" SDS x 1/4" x 3-1/2" W/ (2) ROWS NAILING PATTERN AT 12" O.C.

LVL TO LVL BEAM CONNECTION SIMPSON STRONG TIE HUS410 OR EQ. W. LVL REQ. FASTENING

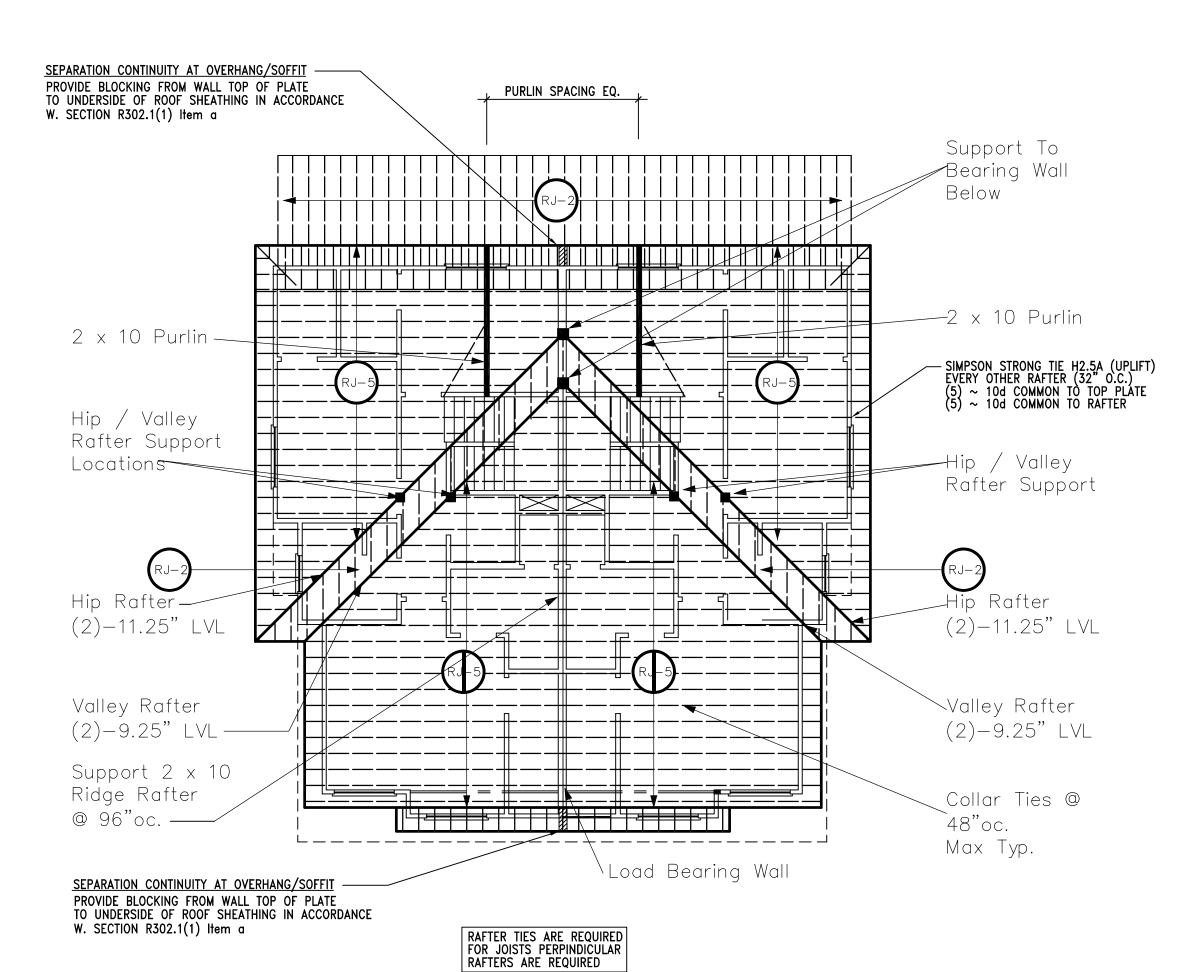
		BEA	RING WA	LL HEADERS	;	
7 7000	INTERIOR V	NALL (I FL	00R)3	EXTERIOR WALL (ROOF ONLY)		
DOUBLE TOP PLATE	SPAN	SIZE	NO. J.S.	SPAN	SIZE	NO. J.S.
FULL HIGHT	0'-0" - 4'-5"	(2) 2×8	2	0'-0" - 5'-4"	(2) 2×8	2
STUD	4'-6" - 5'-5"	(2) 2×10	2	5'-5" - 6'-6"	(2) 2×10	2
	5'-6" - 6'-3"	(2) 2xl2	2	6'-7" - 7'-6"	(2) 2xl2	2
	INTERIOR W	ALL (2 FL	00RS)3	EXTERIOR WA	LL (ROOF +	FLOOR)
T .	0'-0" - 3'-2"	(2) 2×8	2	0'-0" - 4'-6"	(2) 2x8	2
→ HEADER	3'-3" - 3'-10"	(2) 2x10	3	4'-7" - 5'-6"	(2) 2×10	2
<b>←</b> JACK	3'-11" - 4'-5"	(2) 2xl2	3	5'-7" - 6'-5"	(2) 2x12	2
STUDS				EXTERIOR WALL	_ (ROOF + 2	2 FLOORS)
(J.5.)				0'-0" - 3'-9"	(2) 2×8	2
YPICAL HEADER				3'-10" - 4'-7"	(2) 2×10	2
				4'-8" - 5'-3"	(2) 2x12	2

I. NOT FOR OPEN WEB FLOOR TRUSS SYSTEMS

2. BASED ON A MAXIMUM JOIST SPAN OF IBFT 3. HEADERS SUPPORT FLOOR LOADS ONLY, RE; PLANS OR CONTACT ENGINEER IF ROOF LOADS NEED TO BE SUPPORTED.

4. FRAMER SHOULD CONSULT IRC TABLE R502.5(I) FOR LOAD BEARING HEADERS USING 30PSF GROUND SNOW LOAD AND THE MAX, BUILDING WIDTH, FRAMER SHALL PROVIDE THE MORE STRINGENT CHOICE BETWEEN THE IRC TABLE AND THIS DETAIL 5. FRAMER SHALL CONTACT ENGINEER IF ENGINEERED LUMBER IS TO BE UTILIZED.

BEARING WALL HEADER SCHEDULE



Load Bearing Wall Typical Load Bearing Wall Typical All 2' x 3' Attic Access Load Bearing Panel, Typ. Ea. Unit Wall Typical All 

CEILING JOIST/ATTIC LOADS

PSF AND D.L. = 5 PSF

CEILING JOIST ALLOWABLE SPANS ARE BASED

ATTICS WITH NO STORAGE UTILIZING L.L. = 10

ON IRC TABLE R802.4(1) FOR UNHABITABLE

D UPPER LEVEL CEIL'G. FRAMING PLAN ROOF LEVEL FRAMING PLAN 1/8" = 1'-0"



Terrain 1.0 Thermal Factor Wind Importance Factor Exposure Seismic Use Importance Category

"1" 1.0

 $\supset \emptyset$  $\bigcirc$ 

BUILDING ADDRESS:

229 & 231 NW ORCHARD CT.

LEE'S SUMMIT, MO 64063

LOT 5 - SEQUOIA

(2) 2 x 10

AOR: AARON BROWN

816-588-1178

MO #: A-7215 4334 QUARTER HORSE LANE BATES CITY, MO 64011

2018 IRC CODE COMPLIANCE

THESE DRAWINGS HAVE BEEN

PREPARED WITH RESPECT TO COMPLIANCE OF THE 2018 IRC AND NEC 2017—ANY REFERENCE FOUND NOT CORRECTLY OR MISTANKINGLY IDENTIFIED TO

THESE CODES SHOULD BE
BROUGHT TO THE ATTENTION OF
THE DESIGN PROFESSIONAL

DATE: 08-25-2025 SUBDIVISION: \_\_\_\_ PLOT #: \_\_\_\_\_ REVISION DATE

 $\circ$ 

ISSUED: PERMIT/CONSTRUCTION

(2) 2 x 10 MODIFICATIONS TO STRUCTURAL ITEMS SHALL BE APPROVED BY THE ENGINEER OF RECORD OR OTHER LICENSED PROFESSIONAL CAPABLE OF CERTIFYING COMPLIANCE WITH THE MINIMUM STANDARDS OF THE APPLICABLE CODE. ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR DRAWING ERRORS AND OMISSIONS IN PLAN OR ELEVATION OF PROVIDED PLANS. NOTE: all wood shall be douglas fir larch #2 or better, all parallel beams shall be screwed and glued for their entire length, metal clip angles shall be provided for all roof, rafter and ridge beams, in additon metal clip angles shall be provided for all floor joists to supporting beams and stringers. LOADS & ROOF DESIGN Wind Load =115 MPH Snow Load=20 LBS Floor Loads Dead Load = 15 LBS Live Load = 40 LBS Soil Bearing Capacity Assumed To Be 2000 Snow Load Importance Factor Category "1" 1.0 Snow Exposure Factor "B" 1.0

> UPPER LEVEL FRAMING PLAN 1/8" = 1'-0"

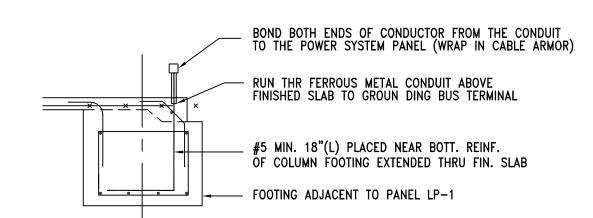
> > RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW** DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 09/11/2025 2:06:05

N.T.S.

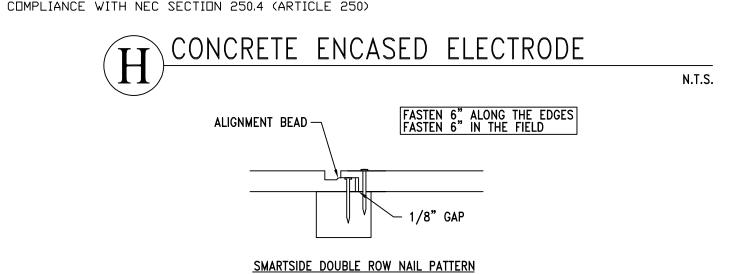
(B) MAIN LEVEL FRAMING PLAN

#####

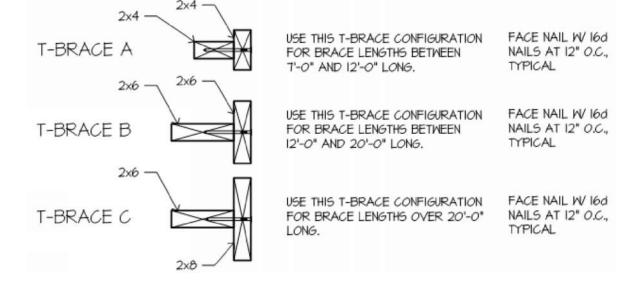
1/8" = 1'-0"



EQUIP. GROUNDING CONDUCTORS, GROUNDING ELECTRODE CONDUCTORS, & BONDING JUMPERS MUST BE TERMINATED BY EXOTHERMIC WELDING, LISTED PRESSURE CONNECTORS, LISTED CLAMPS OR OTHER LISTED FITTING. IN







	ROOF RAFTER SCHEDULE					
GRADE	MEMBER SIZE / SPACING	MAX SPAN CEILING JSTS AT TOP PLATE	MAX SPAN H <sub>C</sub> /H <sub>R</sub> =0.16	MAX SPAN H <sub>C</sub> /H <sub>R</sub> =0.20	MAX SPAN H <sub>C</sub> /H <sub>R</sub> =0.25	MAX SPAN
#2 DF/L	2x6 / 16"oc	14'-1"	12'-8"	11'-8"	10'-9"	9'-5"
#2 DF/L	2x8 / 16"oc	18'-2"	16'-4"	15'-1"	13'-9"	12'-2"
#2 DF/L	2×10 / 16"oc	22'-3"	20'-0"	18'-5"	16'-8"	14'-8"
#2 DF/L	2x12 / 16"oc	25'-9"	23'-2"	21'-4"	19'-7"	17'-3"

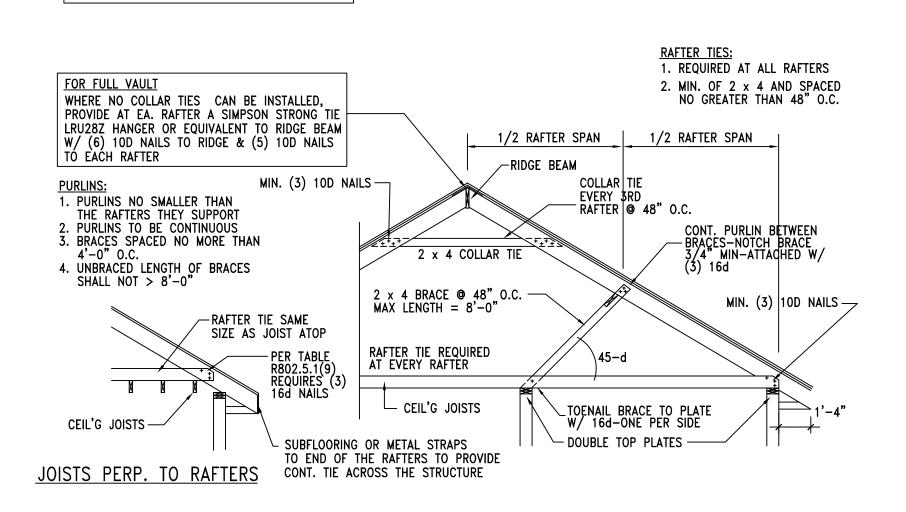
CEILING JOISTS AND RAFTER CONNECTIONS CEILING JOISTS AND RAFTERS SHALL BE TED TO ONE ANOTHER PER TABLES R602.3(1) AND R802.5.1(9) AND THE ASSEMBLY SHALL BE NAILED TO THE TOP PLATE PER R602.3(1) CEILING JOIST NOT PARALLEL TO RAFTERS USE SUBFLOORING OR METAL STRAPS ATTTACHED TO END OF THE RAFTERS TO PROVIDE A CONT. TIE ACROSS THE STRUCTURE TIE DOWN REQUIREMENTS (R802.11) FOR RAFTER SPANS OVER 20'-0" INTERPOLATING TABLE 802.11 PROVIDE RATER TIE-DOWNS CAPABLE OF RESISTING OVER 226 POUNDS AT EACH RAFTER PER TABLE R802.5.1(2) THE MAX RAFTER SPAN FOR D.F.L. 2 x 6 RAFTERS #2 GRADE = 14'-1" AND IS THE BASIS OF DESIGN FOR PURLIN PLACEMENT

**ROOF FRAMING CONNECTION TO BEAMS** WHERE LVL IS BE INSTALLED IN PLANE, PROVIDE SIMPSON STRONG TIE LRU28Z RAFTER HANGERS EA. RAFTER TO LVL. EACH END OF LVL TO BE SECURED TO SUPPORTING CONSTRUCTION WITH SST LSTA15 OR EQUIVALENT STRAP W/ 1100 LBS. CAPACITY. STRAPPING SHALL BÉ REQUIRED AT ALL NON-CONT. MEMBERS BETWEEN BEAM & TOP OF FLOOR

RAFTER/CEILING JOIST HEEL CONNECTIONS PROVIDE (5) 16D NAILS AT EACH HEEL JOINT (RAFTER-JOIST, RAFTER-TIE) CONNECTION. ÀLSO DENOTED IN DETAIL FOR TYP. ROOF/ RAFTER FRAMING. THIS MEETS/EXCEEDS TABLE 802.5.1(9) FOR ROOF SPANS UP TO 28'-0" MAX. 9/12 PITCH AND RAFTERS 16" O.C.

CEILING JOIST/ATTIC LOADS CEILING JOIST ALLOWABLE SPANS ARE BASED ON IRC TABLE R802.4(1) FOR UNHABITABLE ATTICS WITH NO STORAGE UTILIZING L.L. = 10 PSF AND D.L. = 5 PSF

ALL RIDGE BEAMS TO BE 2 x 12 OR 2 x 10 RAFTER TIES/COLLARS REQUIRED AT ALL LOCATIONS



N.T.S.

TYP. ROOF/RAFTER FRAMING

NOTCHING AND BORING CEILING AND FLOOR JOISTS

BUILDING ADDRESS: LOT 5 - SEQUOIA 229 & 231 NW ORCHARD CT LEE'S SUMMIT, MO 64063



**E**NGINEERING, P.C.

RESPONSIBLE FOR DRAWING ERRORS AND OMISSIONS IN PLAN OR ELEVATION OF PROVIDED PLANS.

FOR NOTCHES GREATER

THAN 50% OF ACTUAL

16 GA STRAP WITH (6)

16d NAILS EACH SIDE-

VERTICAL STACK

PARTITION NOTCHING REQUIREMENTS

PLATE WIDTH PROVIDE

CIVIL ENGINEERING CONSULTANTS 1805 WATERS ROAD, HARRISONVILLE, MISSOURI 64701 PH: (816) 380 - 5150 FAX: (816) 884 - 3250 EMAIL: MAIL@REOENGINEERING.COM MO. CERTIFICATE OF AUTHORITY #3005002187

- DOUBLE STUD IF BORED

AND 60% OF ACTUAL

STUD DEPTH

FIRE RATED

PLYWOOD ROOF DECKING

4'-O" FROM RATED PARTITION

(4'-6" TO EDGE OF RIDGE VENT)

-(I) LAYER 5/8"

AT CEILING

HOUR FIRE RATED

SEPARATION WALL

UL DESIGN

REFER TO SI.O

INFORMATION

TYPE "X" GYP. BD.

CONT. 2X

BLOCKING

REQ'D.)

FOR GYP. BD.

CLG. (WHERE

MOOD

HOLE IS BETWEEN 40%

N.T.S.

CANNOT BE WITHIN THE 48" RATED PLYWOOD EXTENT ABOUT THE CENTERLINE OF THE RATED

-EXTEND FIRE RATED

PROVIDE

MOISTURE RESISTANT

RATED GYP.

BD. WHERE

BATHROOMS

OCCUR

NOTE: (2) HOUR FIRE

VERTICALLY TO FULLY SEPARATE ATTIC

SPACES FROM EACH

SOFFIT OVERHANG

(INCLUDING GABLE

N.T.S.

RATED ASSEMBLY

HORIZONTALLY TO

SHALL EXTEND

SHEATHING &

SPACES).

NOTE: 5/8" TYPE "X" GYP. BD. SHALL BE

"W" OR "S"), 4"o.c. EDGE/PERIMETER AND

8"o.c. FIELD (IRC TABLE 602.3.I)

FASTENED WITH 1-5/8" STEEL SCREWS (TYPE

SHEET FOR SLAB INSIDE FACE OF

AND FOUNDATION EXTERIOR WALL

ROOF DECK

AT 24"o.c.

-R-49 ATTIC

INSULATION

-PRE-ENGINEERED

WOOD TRUSSES

SEPARATION WALL TO

UNDERSIDE ROOF DECK.

FIRE CAULK 5/8" TYPE "X"

GYP BD. TO UNDERSIDE OF

ERTIFICATION IS PROVIDED HEREON FOR STRUCTURAL ITEMS NOT OTHERWISE ADDRESSED IN THE REQUIREMENTS OF THE 2018 AOR: AARON BROWN INTERNATIONAL RESIDENTIAL CODE, ALL CONSTRUCTION, MATERIALS, FASTENING NOT SPECIFICALLY DENOTED SHALL COMPLY WITH THE REQUIREMENTS OF THE 2018 IRC AND THEREIN REFERENCED STANDARDS, ANY REQUIRED CLARIFICATIONS OR MODIFICATIONS TO STRUCTURAL ITEMS SHALL BE APPROVED BY THE ENGINEER OF RECORD OR OTHER LICENSED PROFESSIONAL MO #: A-7215 4334 QUARTER HORSE LANE CAPABLE OF CERTIFYING COMPLIANCE WITH THE MINIMUM STANDARDS OF THE APPLICABLE CODE. ENGINEER SHALL NOT BE HELD

> 2018 IRC CODE COMPLIANCE THESE DRAWINGS HAVE BEEN PREPARED WITH RESPECT TO COMPLIANCE OF THE 2018 IRC AND NEC 2017—ANY REFERENCE FOUND NOT CORRECTLY OR MISTANKINGLY IDENTIFIED TO

BATES CITY, MO 64011

816-588-1178

A-1215

THESE CODES SHOULD BE BROUGHT TO THE ATTENTION OF THE DESIGN PROFESSIONAL

 $\bigcirc$ 

S ~

DATE: 08-25-2025 SUBDIVISION: \_\_\_\_\_ PLOT #: \_\_\_\_\_ DATE

REVISION

ISSUED: PERMIT/CONSTRUCTION

NOTE: ALLOWABLE HOLES AND NOTCHES IN ENGINEERED STUDS, (LSL, ETC.) MAY DIFFER. CONSULT WITH MANUFACTURER PRIOR TO DRILLING OR CUTTING STUDS AT TALL WALLS. DOUBLE TOP PLATE -

BORED HOLE

MAXIMUM -

EXCEED 40% OF ACTUAL STUD DEPTH

DIAMETERS SHALL NOT

MIN EDGE DISTANCE -

BORED HOLES SHALL

OF NOTCH IN STUD -

NOTCH SHALL NOT EXCEED 25% OF ACTUAL STUD DEPTH -

VERTICAL WALL STUD -

NOT BE LOCATED IN THE

FOR NON-BEARING WALLS

EXCEED 60% OF ACTUAL

SHALL NOT EXCEED 40%

OF ACTUAL STUD DEPTH

STUD DEPTH AND NOTCHES

FIRE RATED

PLYWOOD ROOF DECKING

4'-O" FROM RATED PARTITION

(4'-6" TO EDGE OF RIDGE VENT)

PRE-ENGINEERED WOOD TRUSSES

(I) LAYER 5/8"

TYPE "X" GYP.

BD. AT CEILING-

FIRESTOPPING MATERIAL

(BOTH SIDES)-

CONT.

DOUBLE ROW OF WOOD STUDS

AT 16"o.c. (24"o.c. MAX.) WITH

TWO (2) LAYERS OF 5/8" TYPE

"X" GYP. BD EACH SIDE, PER

PRESSURE TREATED 2x4 SILL

APPROVED EPOXY ANCHOR

BOLT. REFER TO SI.O SHEET

WITH ANCHOR BOLT OR

PLATE, SECURE TO CONC. SLAB

FOR ADDITIONAL ANCHOR BOLT.

UL DESIGN

I" AIR SPACE-

INFORMATION

AT 24"o.c.-

R-49 ATTIC

INSULATION -

BORINGS SHALL NOT

SAME CROSS SECTION

2×4 KEY -OUTSIDE CORNER BARS SAME SIZE AND SPACING AS HORIZ. REINF. -CORNER PLAN INTERSECTION PLAN - Z BARS SAME SIZE BAR SIZE Lh AND NUMBER AS FTG. REINFORCEMENT 10" 23" REINF. -28" FOOTING STEP ELEV 42" 54"

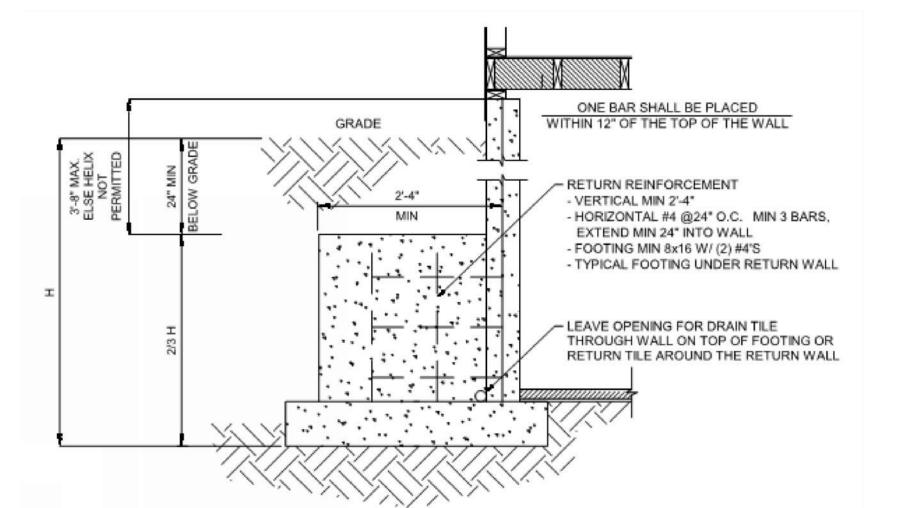
-PLACE INSIDE CORNER BAR IF INSIDE HORIZ.

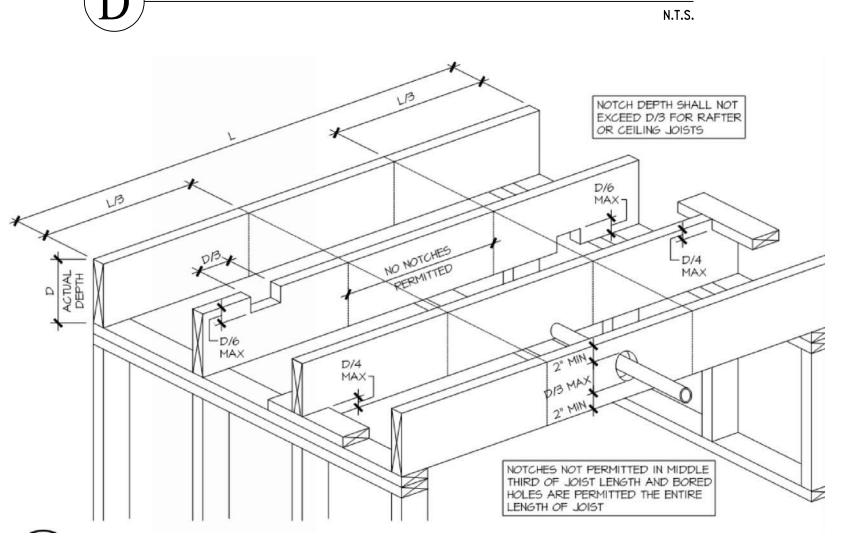
BARS DO NOT EXTEND

A MINIMUM OF Ld INTO

JOINT AREA

N.T.S.





TYP. DEADMAN DETAIL

RELEASE FOR CONSTRUCTION **AS NOTED ON PLANS REVIEW** DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 09/11/2025 2:06:05



RESPONSIBLE FOR DRAWING ERRORS AND OMISSIONS IN PLAN OR ELEVATION OF PROVIDED PLANS.

CAPABLE OF CERTIFYING COMPLIANCE WITH THE MINIMUM STANDARDS OF THE APPLICABLE CODE. ENGINEER SHALL NOT BE HELD

SECTION

N.T.S.

AARON D. OBERMILLER, P.E.

MO-2008019880 // KS-25237

CERTIFICATION IS PROVIDED HEREON FOR STRUCTURAL ITEMS NOT OTHERWISE ADDRESSED IN THE REQUIREMENTS OF THE 2018
INTERNATIONAL RESIDENTIAL CODE. ALL CONSTRUCTION, MATERIALS, FASTENING NOT SPECIFICALLY DENOTED SHALL COMPLY
WITH THE REQUIREMENTS OF THE 2018 IRC AND THEREIN REFERENCED STANDARDS. ANY REQUIRED CLARIFICATIONS OR
MODIFICATIONS TO STRUCTURAL ITEMS SHALL BE APPROVED BY THE ENGINEER OF RECORD OR OTHER LICENSED PROFESSIONAL

NUMBER AT215

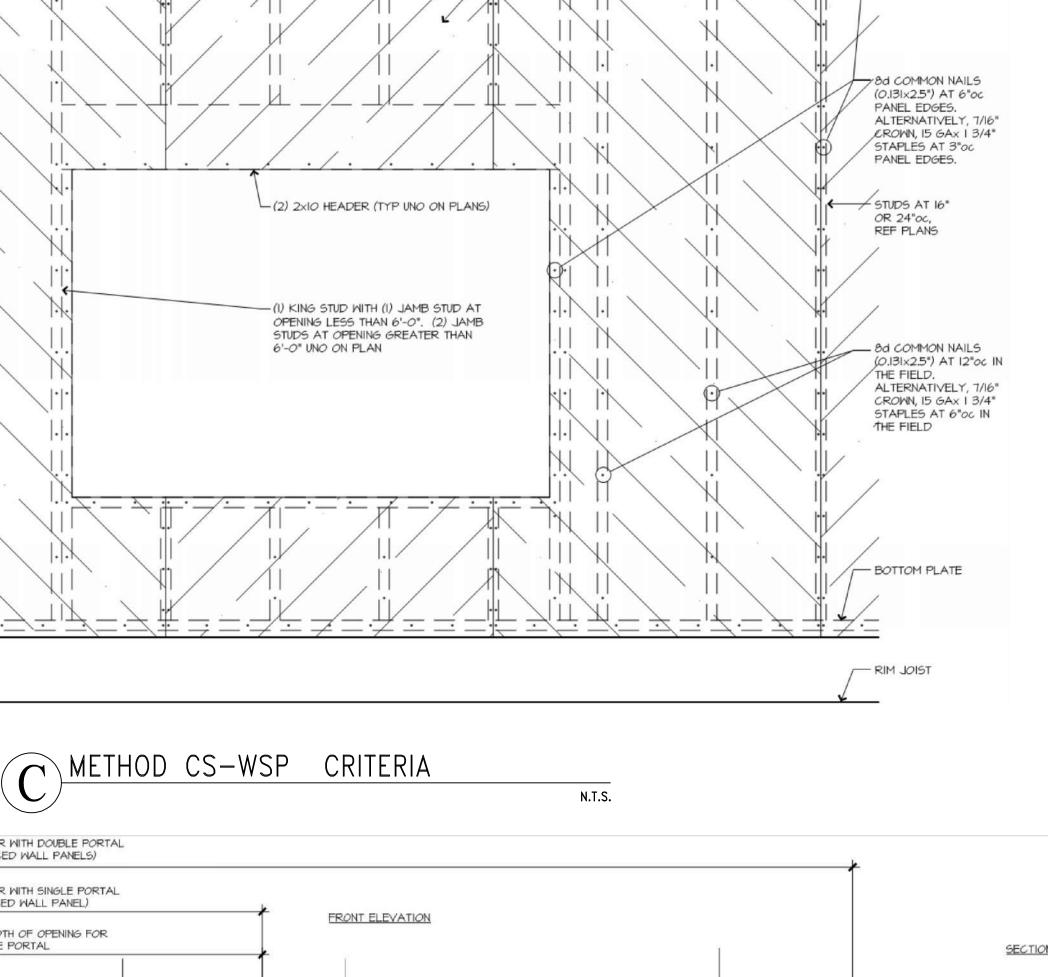
AOR: AARON BROWN

MO #: A-7215 4334 QUARTER HORSE LANE BATES CITY, MO 64011 816-588-1178

2018 IRC CODE COMPLIANCE
THESE DRAWINGS HAVE BEEN
PREPARED WITH RESPECT TO
COMPLIANCE OF THE 2018 IRC
AND NEC 2017—ANY REFERENCE
FOUND NOT CORRECTLY OR
MISTANKINGLY IDENTIFIED TO
THESE CODES SHOULD BE
BROUGHT TO THE ATTENTION OF
THE DESIGN PROFESSIONAL

BUILDING ADDRESS: LOT 5 - SEQUOIA 229 & 231 NW ORCHARD CT. LEE'S SUMMIT, MO 64063

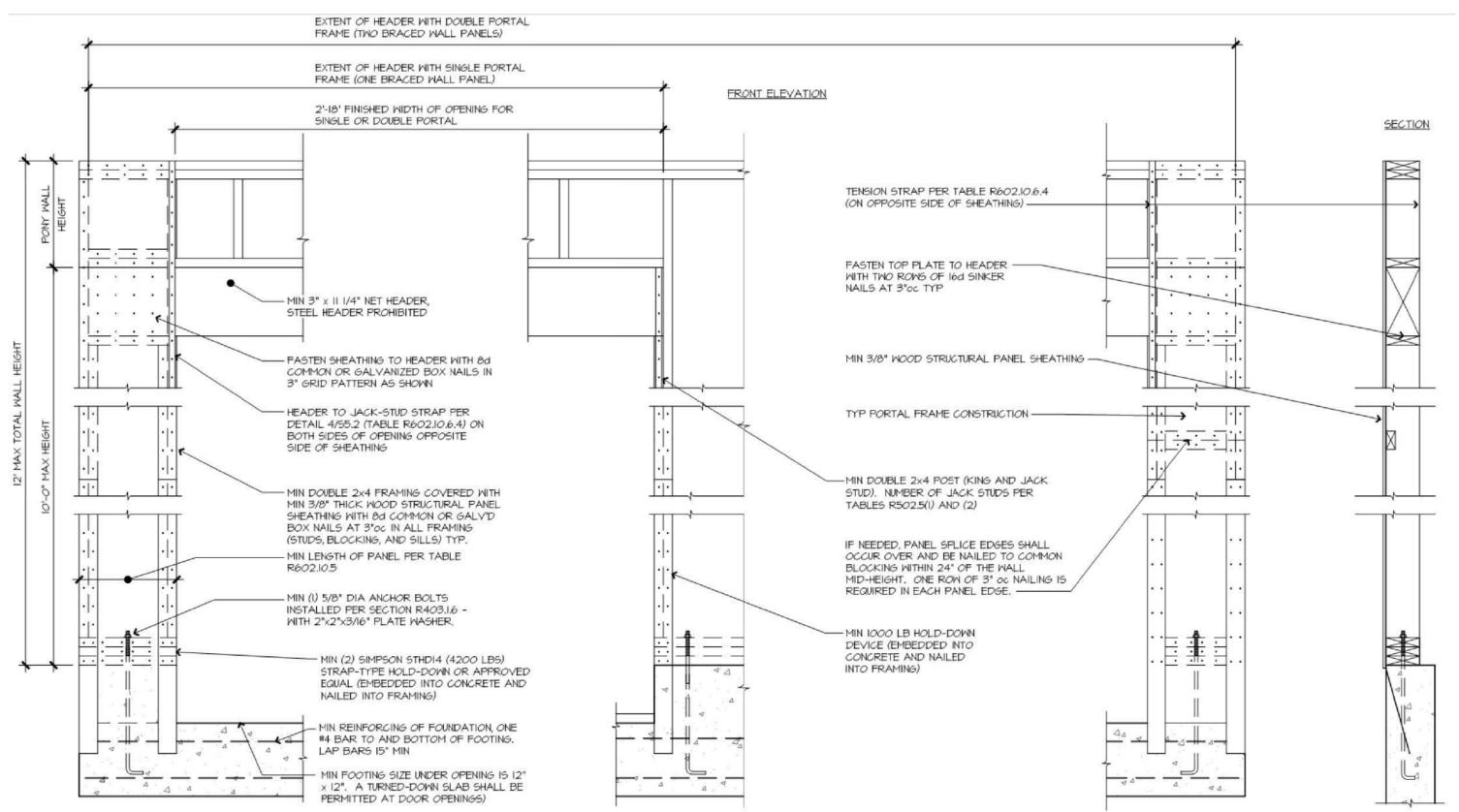
 EXTENT OF HEADER WITH DOUBLE PORTAL FRAMES (TWO BRACED WALL PANELS) -EXTENT OF HEADER WITH SINGLE PORTAL FRAME (ONE BRACED WALL PANEL) FASTEN KING STUD 2'-18' FINISHED WIDTH OF OPENING TO HEADER WITH 6 FOR SINGLE OR DOUBLE PORTAL 16D SINKERS -> TENSION STRAP PER TABLE 602.10.6.4 (ON OPPOSITE SIDE PONY WALL OF SHEATHING) -HEIGHT BRACED WALLLINE -CONTINUOUSLY SHEATHED MIN. 3'x11'/4' NET HEADER STEEL HEADER PROHIBITED 000 0 P WITH WOOD STRUCTURAL 2 IF 1/3" SPACER IS USED, PLACE ON BACK-SIDE OF HEADER PANELS IF NEEDED, PANEL - FASTEN SHEATHING TO HEADER WITH 8D SPLICE EDGES SHALL -FASTEN TOP COMMON OR GALVANIZED BOX NAILS IN 3" GRID OCCUR OVER AND BE PLATE TO PATTERN AS SHOWN NAILED TO COMMON HEADER WITH BLOCKING WITHIN THE HEADER TO JACK-STUD STRAP PER TABLE \_\_\_\_\_ MIDDLE 24" OF THE ROWS OF 16D R602.10.6.4 ON BOTH SIDES OF OPENING PORTAL- LEG HEIGHT. SINKER NAILS AT OPPOSITE SIDE OF SHEATHING ONE ROW OF 3" O.C. 3" O.C. TYP. NAILING IS REQUIRED-IN EACH PANEL EDGE. MIN. DOUBLE 2"x4" FRAMING COVERED WITH MIN. -MIN. 7/16" WOOD 7/16" THICK WOOD STRUCTURAL PANEL SHEATHING TYPICAL PORTAL STRUCTURAL WITH 8D COMMON OR GALVANIZED BOX NAILS AT FRAME CONSTRUCTION -3" O.C. IN ALL FRAMING (STUDS, SHEATHING BLOCKING, AND SILLS) TYP. -MIN. DOUBLE 2x4 POST (KING AND JACK STUD) MIN. LENGTH OF PANEL PER TABLE R602.10.5 NUMBER OF JACK STUDS PER TABLES — MIN. (2) ½ DIAMETER ANCHOR BOLTS R602.7(1) & (2) INSTALLED PER SECTION R403.1.6 WITH 2"x2"x3/16" PLATE WASHER 0000 61010 PI ,00000 OVER CONCRETE OR MASONRY BLOCK FOUNDATION -ANCHOR BOLTS PER SECTION R403.1.6 (2) FRAMING ANCHORS APPLIED ACROSS WOOD STRUCTURAL PANEL SHEATHING JOINT WITH A NAIL SOLE PLATE + SHEATHING TO TOP OF BAND TO JOIST PER CAPACITY OF 670 LBS IN PLATE TO JOIST THE HORIZONTAL AND -TABLE R602.3(1) PER TABLE VERTICAL DIRECTIONS R602.3(1) WOOD STRUCTURAL PANEL SHEATHING OVER APPROVED BAND OR RIM JOIST-OR RIM JOIST OVER RAISED WOOD FLOOR - FRAMING ANCHOR OPTION (WHERE PORTAL SHEATHING DOES NOT LAP OVER BAND OR RIM JOIST) WOOD STRUCTURAL PANEL SHEATHING TO TOP OF BAND TO JOIST PER - NAIL SOLE ATTACH SHEATHING TO -PLATE TO JOIST OR RIM JOIST BAND OR RIM JOIST WITH TABLE R602.3(1) PER TABLE 8D COMMON NAILS AT 3" . . . . . R602.3(1) O.C. TOP AND BOTTOM APPROVED BAND WOOD STRUCTURAL PANEL SHEATHING OVER APPROVED BAND OR RIM JOIST-OR RIM JOIST OVER RAISED WOOD FLOOR - OVERLAP OPTION



- 7/16" APA RATED 05B

24/16 SHEATHING FOR

BRACED WALL PANELS



B PORTAL FRAME W/ HOLD-DOWN (PFH)

- DOUBLE TOP PLATE

(WHERE PORTAL SHEATHING LAPS OVER BAND OR RIM BOARD)

FRONT ELEVATION

REVISION DATE

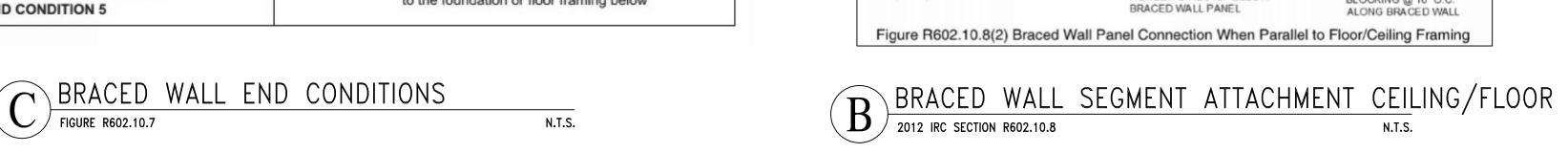
DATE: 08-25-2025

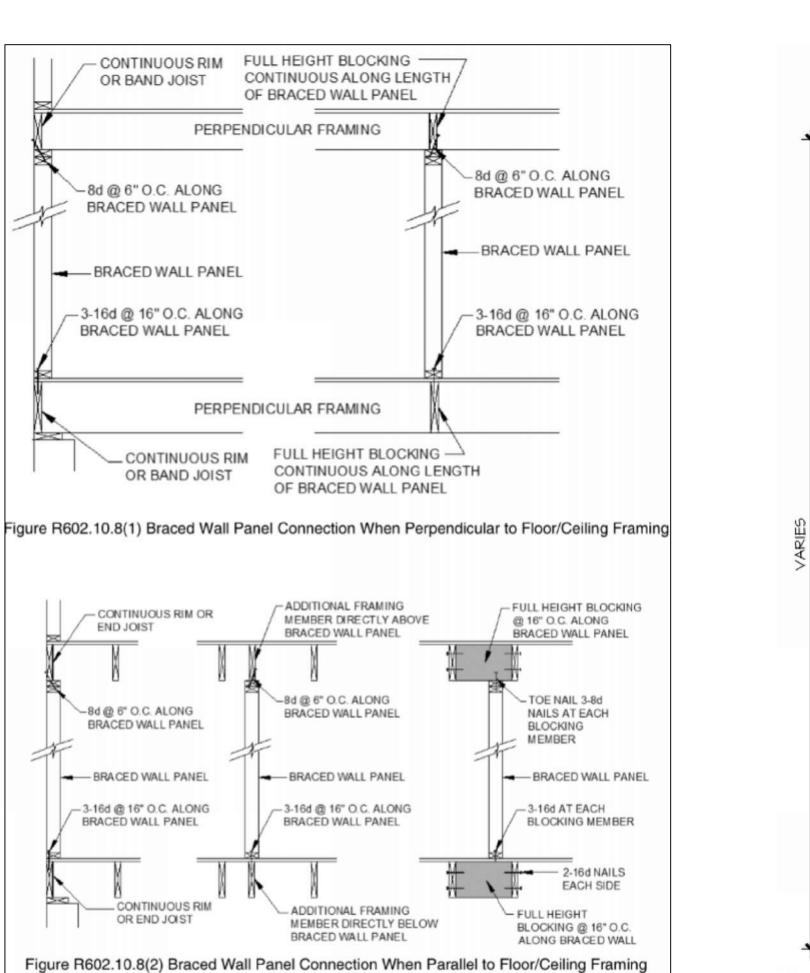
ISSUED: PERMIT/CONSTRUCTION

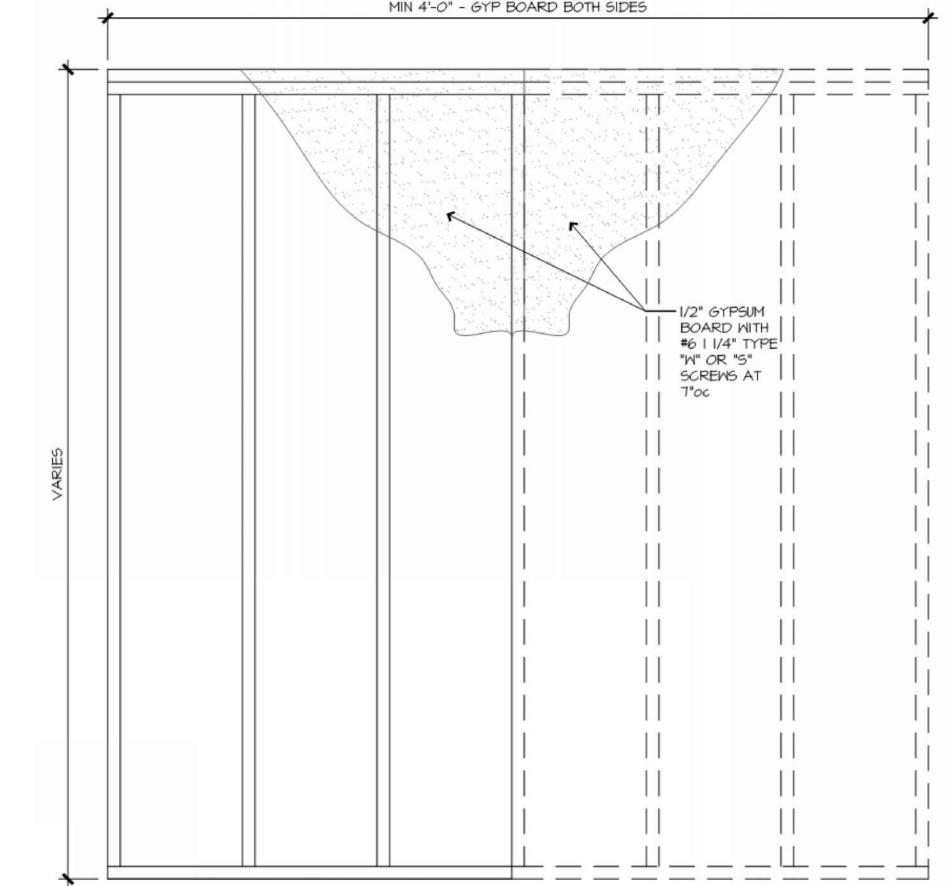


BRACED WALL LINE CONTINUOUSLY SHEATHED
BRACED WALL LINE DOWN DEVICE PANEL-BRACED WALL PANEL AT BRACED WALL PANEL AT END OF BRACED WALL LINE END OF BRACED WALL LINE END CONDITION 1 **END CONDITION 2** BRACED WALL LINE CONTINUOUSLY SHEATHED
BRACED WALL LINE RETURN-W/// PANEL - 48" MINIMUM BRACED WALL PANEL - FIRST BRACED AT END OF BRACED WALL LINE WALL PANEL \* SEE REQUIREMENTS END CONDITION 3 END CONDITION 4 BRACED WALL LINE REQUIREMENTS Return panel: 24" for braced wall lines sheathed with wood structural panels 32" for braced wall lines sheathed with structural fiberboard Distance D: 24" for braced wall lines sheathed with wood structural panels 32" for braced wall lines sheathed with structural fiberboard Hold-down 800 lbs capacity fastened to the edge of the HOLD-DOWN ──► FIRST BRACED device: braced wall panel closest to the corner and to the foundation or floor framing below **END CONDITION 5** 

FIGURE R602.10.7







A METHOD GB CRITERIA

MIN 4'-O" - GYP BOARD BOTH SIDES

AOR: AARON BROWN MO #: A-7215 4334 QUARTER HORSE LANE CAPABLE OF CERTIFYING COMPLIANCE WITH THE MINIMUM STANDARDS OF THE APPLICABLE CODE. ENGINEER SHALL NOT BE HELD BATES CITY, MO 64011 816-588-1178

STRUCTURAL MEMBER REVIEW AND CERTIFICATION:

AARON D. OBERMILLER, P.E.

ENGINEERING, P.C.

MO. CERTIFICATE OF AUTHORITY #3005002187

MO-2008019580 // KS-25237
CERTIFICATION IS PROVIDED HEREON FOR STRUCTURAL ITEMS NOT OTHERWISE ADDRESSED IN THE REQUIREMENTS OF THE 2018

INTERNATIONAL RESIDENTIAL CODE. ALL CONSTRUCTION, MATERIALS, FASTENING NOT SPECIFICALLY DENOTED SHALL COMPLY WITH THE REQUIREMENTS OF THE 2018 IRC AND THEREIN REFERENCED STANDARDS. ANY REQUIRED CLARIFICATIONS OR MODIFICATIONS TO STRUCTURAL ITEMS SHALL BE APPROVED BY THE ENGINEER OF RECORD OR OTHER LICENSED PROFESSIONAL

RESPONSIBLE FOR DRAWING ERRORS AND OMISSIONS IN PLAN OR ELEVATION OF PROVIDED PLANS.

CIVIL ENGINEERING CONSULTANTS 1805 WATERS ROAD, HARRISONVILLE, MISSOURI 64701 PH: (816) 380 - 5150 FAX: (816) 884 - 3250 EMAIL: MAIL@REOENGINEERING.COM

> BUILDING ADDRESS: LOT 5 - SEQUOIA

> > N.T.S.

229 & 231 NW ORCHARD CT. LEE'S SUMMIT, MO 64063

2018 IRC CODE COMPLIANCE THESE DRAWINGS HAVE BEEN PREPARED WITH RESPECT TO COMPLIANCE OF THE 2018 IRC AND NEC 2017—ANY REFERENCE FOUND NOT CORRECTLY OR MISTANKINGLY IDENTIFIED TO THESE CODES SHOULD BE BROUGHT TO THE ATTENTION OF THE DESIGN PROFESSIONAL

DATE: 08-25-2025 SUBDIVISION: \_\_\_\_\_ | PLOT #: \_\_\_\_\_\_

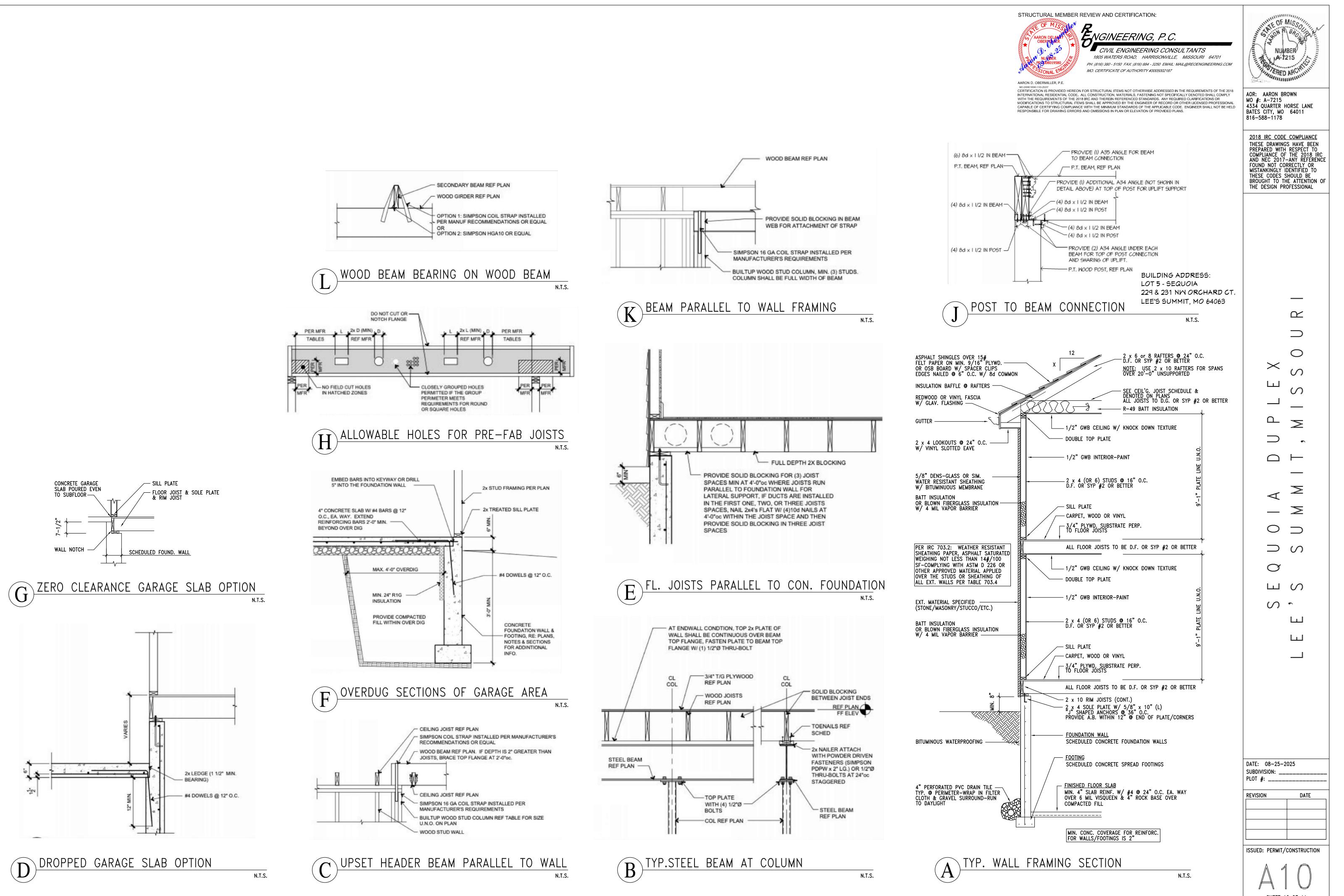
 $\circ$ 

REVISION DATE

ISSUED: PERMIT/CONSTRUCTION



LEE'S SUMMIT, MISSOURI 09/11/2025 2:06:05



RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
09/11/2025 2:06:05

#### GENERAL CONTRACTOR RESPONSIBILITIES

- 1. TEMPORARY STABILITY, INCLUDING GROUND SUPPORTS FOR ALL STRUCTRAL FRAMING SHALL BE THE RESPONSIBILITY OF THE FRAMING SUB AND THE GC PER THE KNOWN INDUSTRY BEST PRACTICES AND STANDARDS OF CARE AND/OR PER SPECIFIC INFORMATON ON THE DRAWINGS OR PER MANUFACTURER'S RECOMMENDATIONS.
- ALL WINDOWS & DOORS FLASHED INCLUDING ONES THAT FALL WITHIN STUCCO AREAS CAULK ALL WINDOWS AND DOORS WHILE BEING SET
- . TAPE ALL WINDOW PERIMETERS (SILL, JAMB, HEAD)
- ALL EXTERIOR MAIN LEVEL DOORS NOT INLCUDING PATIO DOORS TO BE SET 3/4" OFF THE SUB FLOORING TO ACCOMMODATE FLOOR FINISHES
- 6. ALL EXTERIOR DOORS WITH BRICK MOULD ATTACHED W/ FLUSH CASING NAILS
- ALL NAILS TO BE PULLED FROM STEEL BEAM TOP AND BOTOM PLATES B. USE STEEL SHIMS ONLY WHEN BEAM SHIMMING IS REQUIRED AT FOUNDATION . OVER DRIVEN SIDING NAILS WILL BE CAULKED FLUSH BY THE FRAMER
- 10. ALL PLUGS IN FULL VIEW GLASS DOOR MOLDINGS WILL BE INSTALLED BY THE FRAMER 11. WHEN COVERED PORCH ROOFS ARE REQUIRED, THE FRAMER WILL INSTALL POSTS DOWN TO PIERS PROVIDED BY THE BUILDER, DECK RIMS & JOISTS ONLY WILL ALSO
- BE INSTALLED 12. WHEN A NON-COVERED DECK IS REQUIRED, THE FRAMER WILL INSTALL POSTS THE
- BUILDER PROVIDED PIERS, DECK RIMS AND JOISTS ONLY WILL ALSO BE INSTALLED 13. ALL SUBFLOOR WILL BE SCREWED DOWN BY FRAMER W/ BUILDER PROVIDED SCREWS
- 14. ALL TRASH FROM THE PROCESS FROM FRAMING WILL BE CLEANED UP ON A DAILY BASIS BY FRAMER. COLLECT TRASH IN TWO PILES. AT THE COMPLETION OF
- FRAMING, FLOORS TO BE SWEPT BY FRAMER AND SITE COMPLETELY CLEANED
- 15. ALL PORCH POSTS WILL BE BUILT AND INSTALLED BY THE FRAMER 16. ALL SHUTTERS AND BRACKETS TO BE INSTALLED BY THE FRAMER
- 17. ALL KNEE WALLS IN ATTIC THAT HAVE EXPOSED BATT INSULATION WILL REQUIRE OSB TO BE NAILED TO THE ATTIC SIDE. INSULATION MUST BE ENCASED ON ALL SIX SIDES 18. BEHIND WHIRLPOOL TUBS WILL BE REQUIRED TO BE PRE-INSULATED BY THE INSULATION
- SUBCONTRACTOR AND THEN OSB INSTALLED OVER BY THE FRAMER BEFORE THE TUB DECK IS BUILT AND TUB INSTALLED
- 19. PUNCH LIST WIL BE COMPLETED BY THE FRAMER TO MEET BUILDERS LEVEL OF QUALITY AND EXPECTATIONS 20. IF ANY CONFUSION ON MEASUREMENTS OR INFO PROVIDED IN THE PLANS, THE FRAMER
- WILL CONSULT W/ THE PROJECT SUPERINTENDENT OR ARCHITECT BEFORE WORK IS PERFORMED AND ACCEPTED.
- 21. GC IS RESPONSIBLE FOR COORDINATING THE ROUGH-IN EXTERIOR WINDOW AND DOOR OPENINGS PROVIDED BY THE SUPPLIER WITH THE FRAMING SUBCONTRACTOR 22. GC IS RESPONSIBLE THE CONCRETE SUBCONTRACTOR HAS LAID OUT THE FOUNDATION PER THE PLAN DIMENSIONS AND ANGLES AND THAT ALL FOUNDATIONS ARE TRUE IN GEOMETRY WITH RESPECT TO DIMENSIONAL CONTROL, DICTATED ANGLES, AND THAT ALL
- WALLS/FOUNDATIONS ARE TRUE, SQUARE, PERPENDICULAR TO THE DRAWING INFO. 23. GC IS RESPONSIBLE FOR MISC. CAULKING NOT SPECIFICALLY ATTRIBUTED TO SPECIFI SUBCONTRACTORS SCOPE SUCH AS BUT NOT LIMITED TO SILL PLATES TO SLABS, TU<code>B</code> & SHOWER UNITS & OTHER PLUMBING FIXTURES, EXTERIOR WINDOWS AND DOORS, CEIL'G
- GYP. BD. AND WALL PLATES, THRESHOLDS, ETC. GENERAL CONTRACTOR DESIGN ASSIST RESPONSIBILITIES
- 1. COORDINATE WITH HOMEOWNER ALL MILLWORK AND CASEWORK GOODS TO ENSURE PROPER COORDINATION AND INSTALLATION TO ACCOMMODATE APPLIANCES, SINKS AND OTHER
- SPECIALTY ITEMS. 2. GC SHALL EMPLOY A QUALIFIED HVAC CONTRACTOR THAT WILL DESIGN THE MOST EFFICIENT HEATING AND COOLING SYSTEM PER THE OWNER'S DIRECTION. HVAC SUBCONTRACTOR SHALL DEVELOP THE UNIT LOCATIONS, DUCTWORK PATHWAYS, CONTROLS, ACCESS, ETC. OF THE COMPLETE SYSTEM WITH APPROVAL OF THE HOMEOWNER. DUCTWORK SHALL NOT BE EXPOSED UNLESS SPECIFICALLY NOTED BY THE HOMEOWNER. EXPOSED DUCTWORK SHALL UTILIZE ROUND SPIRAL DUCT WITH CONTROLLABLE DISCHARGE DAMPERS.
- GC SHALL EMPLOY A QUALIFIED ELECTRICIAN THAT WILL DESIGN THE ELECTRICAL POWER & LIGHTING SYSTEM PER THE OWNER'S DIRECTION. SERVICE ENTRY LOCATION AND LOGISTICS WORKING WITH THE ENERGY SUPPLIER SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL SUB. ELECTRICAL SUB SHALL HOLD A WALK-THROUGH WITH THE HOMEOWNER AFTER FRAMING ROUGH-IN AND PRIOR TO ELECTRICAL ROUGH-IN TO LOCATE ALL RECEPTACLES, LIGHTS, SWITCHES AND OTHER ITEMS.
- GC SHALL COORDINATE EXTERIOR MEP ITEMS WITH THE HOMEOWNER SUCH AS EXTERIOR RECEPTACLES, HOSE BIBS AND HVAC UNIT PLACEMENT. CONCRETE PADS SHALL BE PROVIDED FOR ALL OUTSIDE CONDENSER UNITS THAT EXTENDS MIN. 12" PAST THE EXTENTS OF THE 5. GC OR HIS APPOINTED STEEL SUPPLIER SUB SHALL PROVIDE AN ENGINEERING CHECK ON THE
- STRUCTURAL STEEL MEMBERS (BEAMS, COLUMNS, BASE PLATES, CONNECTIONS, ETC.) THAT ARE ON THE DRAWINGS. THE RESPONSIBILITY OF THE FINAL STRUCTURAL MEMBERS USED IN THE PROJECT IS THE STEEL SUB CONTRACTORS AND GC.
- GENERAL WOOD FRAMING, FLOORS AND ROOF NOTES
- 1. ALL STRUCTURAL LUMBER (RAFTERS, CEILING JOISTS, FLOOR JOISTS, PURLINS, HEADERS AND STUD WALL FRAMING) SHALL BE DOUGLAS FIR #2 GRADE OR BETTER U.N.O. ON DRAWINGS ALL LOADBEARING STUDS CAN ALSO BE SPRUCË-PINE-FIR STUD GRADE OR #2 EXCEPT FOR BUILT-UP COLUMNS OVER 10'-0" HIGH WHICH SHALL UTILIZE STRUCTURAL SELECT GRADE.
- PROVIDE SEASONED LUMBER WITH 19% MAXIMUM MOISTURE CONTENT AT TIME OF DRESSING. RIPPING OF STRUCTURAL NOMINAL LUMBER FOR LOAD BEARING/CARRYING IS NOT ALLOWED. 3. ALL SAWN LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED OR NATURALLY RESISTANT LUMBER SUCH AS WESTERN CEDAR. FASTNERS AND FRAMING ACCESSORIES FOR TREATED LUMBER SHALL BE HOT DIPPED GALV.
- PER ASTM A153 OR A658. 4. ALL NAILING NOT INDICATED ON DRAWINGS SHALL CONFORM TO THE NAILING SCHEDULE OF
- THE BUILDING CODE. ALL NAILS SHALL BE BOX NAILS, U.N.O. 5. ALL EXTERIOR FASTNERS, NAILS, SCREWS, BOLTS, WASHERS, NUTS AND METAL ACCESSORIES SUCH AS BASE SHOES, POST CAPS, ETC. SHALL BE COATED, PLATED OR OTHERWISE
- PROTECTED AGAINST CORROSION, RUST AND DETERIORATION. PREFABRICATED WOOD I-JOISTS SHALL MEET THE PROVISIONS OF ASTMD5055, AHSI/AWC/ WFCM 2012 AND THE CURRENT BUILDING CODE. I-JOISTS MUST BE INSTALLED PER THE MANUFACTURER'S INSTALLATION GUIDELINES OR PER DRAWING FROM A CERTIFIED ENGINEER.
- LAMINATED VENEER LUMBER, STRAND LUMBER PRODUCTS, ETC. SHALL BE OF THE DIMENSION NOTED ON THE DRAWINGS AND HAVE THE FOLLOWING PROPERTIES:
  - Fb = 2,600 psiFc = 2,310 psi (PARALLEL)
  - Fc = 750 psi (PERPINDICULAR)
  - Fv = 285 psi $E = 1.9 \times 10 \text{ psi}$
- 8. ALL MULTIPLE LVL MEMBERS SHALL BE NAILED TOGETHER WITH TWO (2) ROWS (T & B) 16d NAILS AT 12" O.C. OVER THE FULL LENGTH OF THE MEMBERS. ENDS OF ALL LYL HEADERS SHALL BE SUPPORTED BY TWO (2) JACK/TRIMMER STUDS MINIMUM PER MANUFACTURERS. FOR CONTINUOUS LVL MEMBERS FIVE (5) STUDS (7-1/2" BEARING) MIN SHALL BE REQUIRED UNLESS THE BEARING STUD PACK IS SHOWN OTHER IN DRAWINGS.
- 9. ALL SHEATHING PANELS SHALL BE IDENTIFIED WITH THE APPROPRIATE GRADE TRADEMARK OF THE AMERICAN PLYWOOD ASSOC. (APA) AND SHALL MEET THE PRODUCTS REQ'D PSI SHEATHING PANELS SHALL BE SET WITH FACE GRAIN PERPENDICULAR TO THE SUPPORTING MEMBERS AND STAGGERED ENDS AT 4'-0".
- 10. SOLID BLOCKING BETWEEN FLOOR JOISTS SHALL BE INSTALLED AT BEAM AND HEADER LOCATIONS, AT WALLS SUPPORTING CANTILEVERS AND BELOW POINT LOADS. ALL SOLID BLOCKING AND RIM JOIST MATERIAL SHALL BE 2x OR TIMBERSTRTAND OR APPROVED EQUAL 11. ALL FLOOR AND CEILING JOISTS THAT BUTT INTO THE SIDE OF A HEADER OR BEAM SHALL
- BE ANCHORED TO THE MEMBER WITH STANDARD JOIST HANGERS, U.N.O. 12. ALL RIDGE AND VALLEY POINTS IN A HIP ROOF (IF APPLICABLE) OR VALLEYS IN A GABLE ROOF (IF APPLICABLE) SHALL BE BRACED TO A ROOF BEARING WALL OR HEADER BELOW W/
- A 2 x 4 "T BRACE", U.N.O. ON DRAWINGS 13. ALL SUPPORTS FOR RAFTERS AND PURLINS, U.N.O. ON DRAWINGS, SHALL BEAR ON LOAD-BEARING WALLS LOCATED IN PROXIMITY DIRECTLY BELOW A BEAM LOAD BEARING LINE OR OR SPECIFIC LOAD BEARING CONDITION. ALL CONCENTRATED LOADS SHALL BE CARRIED THROUGH THE FLOOR SYSTEM THICKNESS WITH SOLID BLOCKING TO TRANSFER THE LOAD.

14. ALL LARGE AND ANTICIPATED HEAVY MILLWORK (INCLUDING STONE COUNTERTOPS) SHALL BE

ACCOUNTED FOR IN THE FRAMING SCHEME. ANY DEVIATIONS OF THE CASEGOODS BY THE OWNER FROM THE DRAWINGS SHALL BE SUBMITTED BACK TO THE ARCHITECT FOR APPROVAL OR REVISIONS TO THE FLOOR JOIST AND/OR OTHER LOAD BEARING ADJUSTMENTS. 14. ALL LARGE AND ANTICIPATED HEAVY MILLWORK (INCLUDING STONE COUNTERTOPS) SHALL BE ACCOUNTED FOR IN THE FRAMING SCHEME. ANY DEVIATIONS OF THE CASEGOODS BY THE

OWNER FROM THE DRAWINGS SHALL BE SUBMITTED BACK TO THE ARCHITECT FOR APPROVAL

- OR REVISIONS TO THE FLOOR JOIST AND/OR OTHER LOAD BEARING ADJUSTMENTS. 15. ROOF SHEATHING TO BE 7/16" OSB NAILED W/ 8D ❷ 6" O.C. PANEL INDEX 24/0; PROVIDE CLIPS AT UNSUPPORTED PANEL EDGES. SHEATHING LAID PERPENDICULAR TO EAVE LINE & STAGGERED. SECURE SHEATHING W/ 8d COMMON NAILS TO RAFTERS WITH 6" ON CENTER NAILING PATTERN AT ROOF EDGES
- 16. EXT. WALL STUDS & LOAD BEARING WALLS TO BE CONTINUOUS FROM FLOOR TO ROOF/CLG. DIAPHRAGM PER IRC 602.3
- 17. HEADERS: PROVIDE SPECIFIED LUMBER (SIZE AND QUANTITY) PER ATTACHED HEADER SCHEDULE, U.N.O.—CONSTRUCT HEADERS W/ 7/16" OSB BETWEEN W/ (2) ROWS OF 16D @ 16" O.C.
- 18. RAFTERS/JOISTS SHALL BEAR ON DOUBLE PLATE IN ALIGNMENT WITH WALL FRAMING STUDS 19. SILL PLATES SHALL BEAR MINIMUM 6" ABOVE FINISHED GRADE

#### GENERAL CONCRETE & FOUNDATION NOTES

- 1. ALL FOOTINGS AND PIERS SHALL BEAR CONSISTENTLY ON ORIGINAL AND UNDISTURBED SOIL AND SHALL BE CAPABLE OF SUPPORTING 1,500 PSF WITHOUT UNDUE SETTLEMENT OR HEAVING. IF FILL IS UTILIZED IT SHALL BE "STRUCTURAL SOIL" GRADE, COMPACTED AND TESTED AND APPROVED BY A LICENSE GEOTECHNICAL/STRUCTURAL ENGINEER.
- 2. ALL CONCRETE AND REINFORCING SHALL TO CONFORM TO THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTES "STANDARD BUILDING CODE REQUIREMENTS OF REINFORCED CONCRETE (ACI 318). "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301) AND "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION" (ACI 302) AND THE "RESIDENTIAL CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI 332)
- 3. THE CONCRETE FOR THE FOOTINGS AND FOUNDATION WALLS SHALL HAVE A MINIMUM 28-DAY STRENGTH OF 3,000 PSI WITH A MAXIMUM SLUMP OF 4". THE CONCRETE FOR THE FLOOR SLABS SHALL HAVE A MINIMUM 29-DAY STRENGTH OF 4,000 PSI WITH A MAXIMUM SLUMP OF 4". ANY CONCRETE EXPOSED TO WEATHER SHALL HAVE A 6%  $\pm$ /-1% AIR ENTRAINMENT.
- 4. NO WATER SHALL BE ADDED TO THE CONCRETE MIX AT THE SITE
- . THE USE OF FLY ASH OR ALUMINUM MIXTURE IS FORBIDDEN 6. REINFORCING SHALL COMPLY WITH THE FOLLOWING:
  - A. REINFORCING STEEL #5 OR LARGER, ASTM A615, GRADE 60
  - B. REINFORCING STEEL #3 OR #4, ASTM A615, GRADE 40 WELDED WIRE FABRIC, ASTMA185, COLD DRAWN WIRE
- WIRE TIE ALL BARS, NO WELDING OF REINFORCING IS ALLOWED 7. WHERE NOT SPECIFICALLY SCHEDULED, ALL REINFORCING SHALL BE CONTINUOUS AND LAPPED A MINIMUM OF 48 BAR DIAMETERS. WWF SHALL OVERLAP MINIMUM OF 6"
  - A. EARTH FORMED = 3"

8. STANDARD CONCRETE COVERAGE IS AS FOLLOWS:

- B. WALLS AND SLABS NOT EXPOSED TO EARTH = 3/4" C. WALLS AND SLABS EXPOSED TO EARTH = 2"
- D. ANY OTHER SITUATION = 2"
- 9. NO EXTERIOR WALL FOOTING SHALL BE LESS THAN 36" TO THE BOTTOM OF THE FOOTING MEASURED FROM THE POINT OF FINAL EXCAVATION OR NATURAL GRADE
- 10. AT CORNERS OF ALL WALLS AND FOOTINGS. SUPPLY CORNER BARS 4'-0" LONG (2'-0" IN EACH DIRECTION) IN WALL AND/OR FOOTING MATCHING SIZE AND SPACING OF HORIZONTAL BARS. WHERE THERE ARE NO VERTICAL BARS IN FACE OF WALL SUPPLY (3) #4 SUPPORT BARS FOR THE CORNER BARS.
- 11. FOOTINGS SHALL BE POURED CONTINUOUS, INCLUDING JUMPS 12. PROVIDE CONTROL AND EXPANSION JOINTS FOR SALBS ON GRADE PER DRAWINGS
- 13. FOUNDATION WALLS SHALL BE BACKFILLED WITH GRANULAR OR CLEAN LEAN CLAY, LOW VOLUME (LOW EXPANSION) CHANGE MATERIAL. BACKFILLING SHALL NOT OCCUR SOONER THAN 7 DAYS AFTER FOUNDATION WALL CONCRETE HAS BEEN CAST. FOUNDATION WALLS SHALL BE BRACED PRIOR TO BACKFILLING AND ALL DEADMEN PLACED.
- 14. DURING HOT WEATHER (80 DEGREES AND ABOVE) COMPLY WITH RECOMMENDATIONS OF ACI-305. DURING COLD WEATHER (40 DEGREES AND BELOW) COMPLY WITH THE RECOMMENDATIONS OF ACI-306.
- 15. PROVIDE ANCHOR BOLTS IN ACCORDANCE W/ ASTM A307 AND PER THE DETAIL ON DRAWINGS 16. ANCHOR PRESSURE TREATED PLATE ■ INT. BEARING WALLS W/ 1/2" x 4-1/2 HILTI WEDGE
- BOLTS @ 72" O.C. MAX. 12' FROM ENDS 17. INSTALL HOLDOWN BOLT ANCHORAGE AS INDICATED ON PLAN
- 18. PROVIDE BITUMINOUS DAMP-PROOFING AT FOUNDATION WALLS
- **EROSION CONTROL**
- 1. EROSION CONTROL MEASURES SHALL BE IN PLACE & IN GOOD WORKING ORDER AT ALL TIMES DURING INSPECTIONS. IN THE EVENT THAT THEY ARE NOT, THE INSPECTOR MAY CANCEL THE INSPECTION UNTIL SUCH TIME THE EROSION CONTROL MEASURES ARE IN PLACE. A FINE, RE-INSPECTION FEE & STOP-WORK ORDER MAY BE ISSUED IF EROSION CONTROL IS NOT ADDRESSED. MINIMUMS INCLUDE:
  - SILT FENCE OR STRAW WATTLE AROUND ALL DISTURBED SOIL, SHALL BE IN PLACE BEFORE ANY EXCAVATION BEGINS TEMPORARY GRAVEL CONSTRUCTION ENTRANCE. THIS ENTRANCE
  - VEHICLES INTO & OUT OF THE SITE STREETS SHALL BE MAINTAINED FREE OF ALL SOIL & GRAVEL

SHOULD BE THE ONLY ENTRANCE & EXIT USED FOR

#### IN A BROOM CLEAN CONDITION AT ALL TIMES ELECTRICAL SYSTEMS NOTES

- . PROVIDE UFER GROUND ENCASED IN CONCRETE FOOTING IN ACCORDANCE WITH IRC 3608.1
- . ALL ELECTRICAL CONDUCTORS SHALL BE COPPER 3. RECEPT. IN THE FOLLOWING LOCATIONS SHALL BE GFCI PROTECTED:
- BEDROOM, KITCHEN (W/IN 6 FEET OF SINK), GARAGE, SHED, EXTERIOR, UNFINISHED BASEMENT & HEATED FLOORS
- 4. ALL BRANCH CIRCUITS THAT SUPPLY 120-V, SINGLE PHASE, 15 & 20 AMP OUTLETS TO BE INSTALLED IN:
- FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, REC ROOMS, CLOSETS, HALLWAYS & SIM. ROOMS SHALL BE PROTECTED BY A COMBINATION TYPE ARC-FAULT CIRCUIT INTERRUPTER INSTALLED TO PROVIDE PROTECTION OF THE

DEDICATED FOR THE APPLIANCE SERVED & UNDER CONDITIONS

- BRANCH CIRCUIT 5. ALL 15 & 20-A RECEPT. SHALL BE LISTED TAMPER-RESISTANT. EXCEPTION IS RECEPTACLES
- IN THE FOLLOWING LOCATIONS SHALL NOT BE REQUIERD TAMPER-RESISTANT: 1. RECEPTACLES LOCATED MORE THAN 5.5 FEET AFF 2. WHERE SUCH RECEPTACLES ARE LOCATED IN SPACES
- OF NORMAL USE, THE APPLIANCES ARE NOT EASILY MOVED. APPLIANCES TO BE CORD-N-PLUG CONNECTED TO RECEPT. 6. RECEPTACLE OUTLETS-SPACINGS-RECEPTACLES SHALL BE INSTALLED SO THAT NO POINT IS
- MEASURED HOR. ALONG THE FLOOR OF ANY WALL SPACE MORE THAN 6-FEET FROM RECEPT. 7. TAMPER RESISTANT RECEPTACLES SHALL BE LOCATED NO MORE THAN 5.5-FEET AFF 8. ARC-FAULT CIRCUIT INTERUPTER PROTECTION: BRANCH CIRCUITS THAT SUPPLY 12-VOLT,
- SINGLE PHASE, 15 AND 20-AMPERE OUTLETS INSTALLED IN KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS AND SIMILAR ROOMS/AREAS SHALL BE PROTECTED 9. LOCATION OF GROUND FAULT CIRCUIT INTERUPTERS: GROUND FAULT CIRCUIT PROTECTORS
- SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION. BATHROOMS (125-VOLT, 15 & 20-AMPERES) OUTDOOR RECEPTACLES (125-VOLT, 15 & 20-AMPERES) UNFINISHED BASEMENT RECEPTACLES (125-VOLT, 15 & 20-AMPERES) KITCHEN (125 VOLT, 15 & 20-AMPERES)

## MECHANICAL SYSTEMS

- 1. FURNACE & WATER HEATER SHALL BE ON 18" PLATFORMS IF PLACED IN A GARAGE OR ROOM W/ DIRECT ACCESS TO A GARAGE 2. PROVIDE MIN. 78% AFUE FOR WEATHERIZED GAS HEATING EQUIP. 80% NON-WEATHERIZED
- 3. PROVIDE MIN. 13 SEER FOR AIR CONDITIONING EQUIPMENT

SINK (125 VOLT, 15 & 20-AMPERES)

- 4. SUPPLY AND RETURN DUCTS SHALL BE INSULATED TO MIN. R-8 5. MECHAINCAL VENTILATION, RECIRCULATION OF AIR-EXHAUST AIR FROM BATHROOMS & TOILET ROOMS SHALL NOT BE RECIRCULATED WITHIN A RESIDENCE OR CIRCULATED TO ANOTHER DWELLING UNIT & SHALL BE EXHAUSTED DIRECTLY TO THE OUTDOORS. EXHAUST AIR FROM BATHROOMS, TOILET ROOMS & KITCHENS SHALL NOT DISCHARGE INTO AN ATTIC, CRAWL
- SPACE OR OTHER AREA INSIDE THE BUILDING. 6. MECHANICAL VENTILATION, LOCAL EXHAUST RATES-BATHROOMS, TOILET ROOMS MECHANICAL EXHAUST CAPACITY OF 50 CFM INTERMITTENT OR 20 CFM CONTINUOUS

#### 20 CFM CONTINUOUS LIGHT AND VENTILATION:

- 1. PROVIDE STAIRWAY ILLUMINATION PER R303.7.9 2. GABLE VENT & MUSHROOM VENTS TO PROVIDE A MIN. OF 10 S.F. NET-FREE OF ATTIC VENT. 3. FURNACES ENCLOSED IN A ROOM LESS THAN 100 S.F. SHALL BE PROVIDED W/ A MEANS OF COMBUSTION MAKE-UP AIR AS DETERMINED/CALCULATED BY MECHANICAL CONTRACTOR
- 4. VENTILATE KITCHENS AND LAUNDRY ROOMS PER R303.3 5. PROVIDE MIN. 16" x 10" SOFFIT VENTS ALONG EAVE SPACED EVENELY W/ NO MORE THAN

## UNSUITABLE FILL OR SOIL CONDITIONS LESS THAN DESIGNED

- 1. ANY FOOTING, SLAB OR OTHER LOAD BEARING CONDITION IDENTIFIED ON THESE DRAWINGS THAT DOES NOT BEAR ON UNDISTURBED/ORIGINAL/VIRGIN SOIL OR ROCK OR SIMILAR SHALL VOID THIS DESIGN AND THE RESPONSIBILITY OF THE DESIGN PROFESSIONAL FROM ANY
- SUBSEQUENT AND RELATED STRUCTURAL AND/OR SLAB FAILURES 2. IT IS THE OWNER AND/OR CONTRACTOR'S RESPONSIBILITY TO BRING TO THE ATTENTION OF THE DESIGN PROFESSIONAL ANY DISCOVERIES OF UNKNOWN GEO-TECHNICAL CONDITIONS THAT WOULD NEGATE THE INTENDED DESIGN PARAMETERS OF 1,500 PSI SUITABLE BEARING CONDITIONS FROM BEING ACHIEVED.

### GYPSUM BOARD:

- 1. G.B. APPLIED TO CEILING SHALL BE 16" WHEN FRAMING MEMBERS ARE 16" O.C. OR 5/8" WHEN MEMBERS ARE 24" O.C. OR USE 1/2" SAG-RESISTANT GYPSUM CEILING BOARD
- CODE REQUIREMENTS FOR DOORS AND WINDOWS: 1. ALL GLAZING WITHIN 12" OF THE FINISHED FLOOR, ADJACENT TO DOORS <24" AND WITHIN DOORS, ABOVE BATHTUBS TO BE SAFETY TYPE GLASS AND LABELED SUCH & IN COMPLIANCE
- W/ SECTION 308 OF THE IRC 2. SHOWER DOORS SHALL BE SAFETY GLAZING. HINGED SHWR, DRS. SHALL SWING OUTWARD
- 1. GARAGE SEPARATION WALL TO BE 1-HR CONST. W/ MIN. 5/8" TYPE X GWB, EXTEND TO BOTT. OF ROOF. DOOR TO BE 20-MIN RATED, 1-3/8" SOLID CORE & EQUIPPED WITH A
- CLOSER & LATCH 2. 15 & 20-AMP RECEPTACLES SHALL HAVE GFCI PROTECTION
- 3. TYPE-X 5/8" GB REQUIRED ON GARAGE CEILING BELOW LIVING AREAS
- STEEL COLUMNS & OTHER BASEMENT/FOUNDATION NOTES
- 1. ALL STEEL PIPE COLUMNS TO BE 3" (OR 3-1/2")SCHEDULE 40 GRADE 2. ALL STEEL POSTS ARE 3" OR 3-1/2" DIAM. SCHEDULE 40 U.N.O.
- 3. STEEL SUPPLIER/INSTALLER SHALL PROVIDE A PROPER BEARING PLATE FOR ANY STEEL BEAM TO BEAR ON WOOD STUD PACKS SO THAT THE WEIGHT IS EVENLY DISTRIBUTED ON THE PACK
- PHYSICAL SECURITY ORDINANCE 1. OWNER/BUILDER IS RESPONSIBLE FOR COMPLIANCE OF PHYSICAL SECURITY ORDINANCE FOR THEIR LOCAL JURISDICTION

## PROJECT SPECIFIC SPECIFICATIONS

- 1. ALL FINISHED FLOOR SLABS SHALL POWER POWER SCREEDED AND HAND TRIMMED WITH A STEEL TROWEL, SMOOTH FINISH
- 2. ALL WINDOWS SHALL BE TRIPLE PANE, WIND BORNE DEBRIS RESISTANT TO 115 MPH GUST THERMALLY BROKEN FRAMES W/ LOW-E GLASS. METAL, VINYL OR WOOD FRAME TYPE SHALL BE A DECISION BY THE HOMEOWNER WITH COST COMPARISONS PROVIDED BY THE GC
- 3. ALL INTERIOR AND EXTERIOR DOOR STYLES, ACCESSORIES, TRIM, ETC. SHALL BE SELECTED SELECTED BY THE HOMEOWNER WITH COST COMPARISON INFORMATION PROVIDED BY THE GC 4. INSULATION VALUES, THICKNESSES AND/OR TYPES SHOWN ON THE DRAWINGS ARE THE CODE MINIMUM. THE OWNER MAY ELECT TO EXCEED THESE VALUES AT HIS DISCRETION. COST
- COMPARISON INFORMATION SHALL BE PROVIDED TO THE OWNER. 5. UTILIZE CONTINUOUS RIDGE VENTS IN ALL AREA WHERE FULL VAULTING OF THE INTERIOR
- SPACE BELOW IS NOT USED. 6. ALL INTERIOR FINISHES ARE SELECTED BY THE OWNER INCLUDING BUT NOT LIMITED TO:
  - A. PAINTING B. FLOORING
  - BASE
  - CEILINGS MILLWORK/CASE GOODS INCLUDING COUNTERTOPS
  - APPLIANCES G. DOOR AND WINDOW STYLES INCLUDING ACTION AND TRIM AND HARDWARE
  - H. PLUMBING FIXTURES INCLUDING FAUCETS AND ACCESSORIES J. MISC. TRIMWORK, FIREPLACE MANTELS, HEARTHS, ETC.
- 7. SMARTSIDE FIBER CEMENT SIDING BASIS OF DESIGN IS 76 SERIES SMART LOCK CEDAR TEXTURE. 7.84-INCH WIDTH x .375-INCH THICKNESS, PRIMED FINISH
- 8. SMARTSIDE CEDAR TEXTURE SHAKE SIDING BASIS OF DESIGN, 11.69-INCH WIDTH X .375-INCH THICKNESS, PRIMED FINISH
- 9. SMARTSIDE TRIMS AND FASCIA BASIS OF DESIGN IS 440 SERIES CEDAR TEXTURED,
- SPECIFIED WIDTHS PER DRAWINGS x .625-INCH THICKNESS, PRIMED 10. SMARTSIDE SOFFIT BOARD BASIS OF DESIGN IS 38 SERIES TEXTURED SURFACE, 23.94 INCH WIDTH x .315-INCH THICKNESS, PRIMED
- 11. ASPHALT COMPOSITION SHINGLES BASIS OF DESIGN IS CERTAINTEED, LANDMARK SERIES, COLOR DETERMINED BY OWNER, 228-POUNDS PER SQUARE, MINIMUM 15-YEAR WARRANTY

## DRAWING COORDINATION & DESIGN INTENT & REVISIONS

K. LIGHT FIXTURE SELECTIONS

- 1. NOTIFY ARCHITECT IF ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE LAYOUT OF WORK INCLUDING FOUNDATIONS. FRAMING, STRUCTURAL MEMBERS, ETC. THE BUILDER ASSUMES RESPONSIBILITY FOR PROCEEDING WITHOUT NOTIFYING THE ARCHITECT FOR ALL CONSTRUCTIBLE ELEMENTS IF THE DESIGN INTENT OF THE DRAWINGS CANNOT BE MET OR KNOWINGLY PROCEEDS WITH KNOWLEDGE THAT CERTAIN ASPECTS OF THE DRAWINGS ARE NOT
- FULLY COORDINATED, DIMENSIONED OR IN ERROR. 2. IF ANY DISCREPANCIES, AMBIGUITIES OR IRREGULARITIES ARE FOUND IN THE DESIGN DOCUMENTS THE "DESIGN INTENT" SHALL GOVERN—CONTRACTOR SHALL NOT DEVIATE FROM THE DESIGN
- INTENT WITHOUT THE EXPRESS CONSENT OF THE OWNER 3. ANY SUBSTITUTION TO A SCHEDULED MEMBER AND/OR SYSTEM OF FRAMING MADE BY THE
- OWNER AND/OR CONTRACTOR SHALL HOLD HARMLESS THE DESIGN PROFESSIONAL UNLESS EXPRESSLY GRANTED AND APPROVED PERMISSION FOR SUCH CHANGE BY THE ARCHITECT 4. IF ANY REVISIONS TO THE PLANS ARE REQUIRED DUE TO FIELD COORDINATION OR CHANGES OR EXCLUSIONS/ERRORS OR OMISSIONS BY THE CONTRACTOR, THE ARCHITECT WILL ATTEMPT TO MODIFY THE DRAWINGS IN ACCORDANCE WITH THOSE CHANGES BUT WILL NOT BE HELD RESPONSIBLE FOR ANY RELATED ISSUES THAT MAY OCCUR DUE TO DESIGN REVISIONS THAT
- ARE DOCUMENTED TO ATTEMPT TO REMEDY CONTRACTOR/INSTALLATION RELATED ISSUES ARCHITECT WILL ABSORB COST OF REVISIONS FOR ANY PERMIT REVIEW ISSUES THAT ARE CONSIDERED NORMALLY RELATED TO INDUSTRY STANDARDS FOR CONSTRUCTION DOCUMENTS AND SHOULD HAVE BEEN INCLUDED IN THE ORIGINAL PERMIT DRAWINGS. REVISIONS REQUESTED BY THE OWNER/CONTRACTOR OR REVISIONS NEEDED AS A RESULT OF FIELD INSTALLATION. CONTRACTOR ERRORS AND OMISSIONS, ETC. THE ARCHITECT IS ENTITLED TO COMPENSATION

# FRAME FASTENING SCHEDULE

BUILDING COMPONENT	FASTEN TO	FASTEN WITH		
	RIDGE / VALLEY / HIP	TOENAIL W/ (4) 16D, FACENAIL W/ (3) 1		
DASTERO	PLATE	TOENAIL W/ (3) 10D		
RAFTERS	LEDGER STRIPS SUPPORTING JOISTS OR RAFTERS	FACENAIL W/ (3) 16D		
	COLLAR TIE TO RAFTERS	FACENAIL W/ (3) 10D		
	TOP PLATE	TOENAIL W/ (3) 8D @ EACH END		
	WHERE CLG JST RUN PARALLEL TO RAFTERS FAC	ENAIL TO RAFTERS W/ (3) 10D MINIMUM		
CEILING JOISTS	LAPS OVER PARTITIONS	FACENAIL W/ (3) 10D		
	BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	TOENAIL W/ (3) 8D		
	BUILT-UP BEAMS, 2" LUMBER LAYERS, FACENAIL OPPOSITE SIDES, (2) @ EACH END PLUS	10D @ 32" OC STAGGERED, TOP & BOTTOM, OPPOSITE SIDES		
BEAMS	BUILT-UP BEAMS OF ENGINEERED LUMBER, FACE NAIL OPPOSITE SIDES	(2) ROWS @ 12" OC		
	BUILT-UP HEADER, TWO PIECES W/ 1/2" SPACER	16D @16" OC ALONG EDGES		
	BUILT-UP HEADER, TWO PIECES, NO 1/2" SPACER	3" x 0.131" NAILS @ 12" OC ALONG EDG		
	BEARING	TOENAIL W/ (2) 18D @ EACH END		
	RIM JOIST TO SILL OR TOP PLATE	TOENAIL W/ 8D COMMON OR 10D BO NAILS @ 6" OC		
FLOOR JOISTS	JOIST TO SILL OR GIRDER	TOENAIL W/ (3) 8D		
	JOIST TO RIM JOIST	FACENAIL W/ (3) 16D		
	BRIDGING TO JOIST	TOENAIL W/ (2) 8D		
	I-JOIST TO BEARING PLATE	TOENAIL W/ (2) 8D - ONE INTO EACH SID LEAST 1 1/2" FROM THE END		
	RIM JOIST TO I-JOIST	FACENAIL W/ (2) 10D BOX NAILS - ONE I 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" O		
	STEEL "X" BRACING	FACENAIL W/ (2) 16D IN EACH TOP 8 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 ALON 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 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 STU		
	WINDOW INSTALLATION NAILING	1 3/4" - 2" ROOFING NAILS @ 12" OC M.		

BUILDING ADDRESS: LOT 5 - SEQUOIA 229 & 231 NW ORCHARD CT. LEE'S SUMMIT, MO 64063

STRUCTURAL MEMBER REVIEW AND CERTIFICATION:

CIVIL ENGINEERING CONSULTANTS 1805 WATERS ROAD, HARRISONVILLE, MISSOURI 64701 PH: (816) 380 - 5150 FAX: (816) 884 - 3250 EMAIL: MAIL@REOENGINEERING.COM MO. CERTIFICATE OF AUTHORITY #3005002187

AARON D. OBERMILLER, P.E. SERTIFICATION IS PROVIDED HEREON FOR STRUCTURAL ITEMS NOT OTHERWISE ADDRESSED IN THE REQUIREMENTS OF THE 2018 INTERNATIONAL RESIDENTIAL CODE. ALL CONSTRUCTION, MATERIALS, FASTENING NOT SPECIFICALLY DENOTED SHALL COMPLY MODIFICATIONS TO STRUCTURAL ITEMS SHALL BE APPROVED BY THE ENGINEER OF RECORD OR OTHER LICENSED PROFESSIONA CAPABLE OF CERTIFYING COMPLIANCE WITH THE MINIMUM STANDARDS OF THE APPLICABLE CODE. ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR DRAWING ERRORS AND OMISSIONS IN PLAN OR ELEVATION OF PROVIDED PLANS. A-1215

AOR: AARON BROWN MO #: A-7215 4334 QUARTER HORSE LANE BATES CITY, MO 64011 816-588-1178

2018 IRC CODE COMPLIANCE THESE DRAWINGS HAVE BEEN PREPARED WITH RESPECT TO COMPLIANCE OF THE 2018 IRC AND NEC 2017—ANY REFERENCE FOUND NOT CORRECTLY OR MISTANKINGLY IDENTIFIED TO THESE CODES SHOULD BE BROUGHT TO THE ATTENTION OF THE DESIGN PROFESSIONAL

DATE: 08-25-2025 SUBDIVISION: \_\_\_\_\_ , PLOT #: \_\_\_\_\_\_

REVISION DATE

ISSUED: PERMIT/CONSTRUCTION

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 09/11/2025 2:06:05