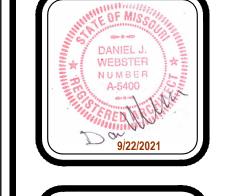


# **DRAWING INDEX**

- AO COVER SHEET
- A1 FOUNDATION PLAN
- A2 1st FLOOR PLAN
- A3 2nd FLOOR PLAN
- A4 ROOF PLAN
- A5 ELEVATIONS
- A6 ELEVATIONS
- G1 GENERAL NOTES
- **G2 GENERAL DETAILS**
- **GENERAL DETAILS**
- G4 BRACED WALL DETAILS



WISPERIN 1701



DESCRIPTION	<i>O</i> N	SYMBOL
INTERIOR LO	DAD BEARING WALL	***************************************
STONE OR B	BRICK VENEER	7/////////
JOIST SIZE A	AND DIRECTION	FJ-XX
HEADER/ BEAM	SIZE OF MEMBER PER HEADER/ BEAM SCHEDULE - NUMBER OF PLYS "U" IF UPSET —	<u> </u>
CENTERLINE		
POINT LOAD	)	●
	JINDOW FRAME SIZE IN INCHES RAL NOTES BELOW)	2941
SMOKE ALA	<b>₹</b> M	(3)

	R / BEAM SCI	CRIPPLE STUDS	TRIMMERS
A	2 × 6	1	1
B	2 × 8	1	1
S	2 x 10	1	1
Θ	2 x 12	2	1
Œ	134" x 714" L.V.L.	2	1
F	134" x 91/2" L.V.L.	2	1
G	1 <sup>3</sup> 4" x 11½" L.V.L.	2	1
$\exists$	1 <sup>3</sup> / <sub>4</sub> " × 14" L.V.L.	2	1
	134" x 16" L.V.L.	3	1
K	134" × 18" L.V.L.	3	1
	134" x 91/2" L.S.L.	1	1
M	134" x 1176" L.S.L.	2	1
I. BEAM	IS SHALL HAVE	TOTAL NUMBER OF	CRIPPLES AND

TRIMMERS UNDER EACH END. SOLID BLOCK BELOW.

	2.	FOR L.Y.L	. BEAMS	IN 2×10	FLOORS,	USE 9	1/4"	LA
--	----	-----------	---------	---------	---------	-------	------	----

FLOOR	JOIST	SCHEDULE

MARK	TYPE	SUB-TYPE	SIZE	SPACING	MAX. SPAN
- 	"I" JOIST (	(SEE NOTE)	9 1/2"	PER MAN	<i>IUFACTURER</i>
FJ-2	"I" JOIST (	(SEE NOTE)	11 7/8"	PER MAN	<i>IUFACTURER</i>
FJ-3	"I" JOIST (	(SEE NOTE)	14"	PER MAN	IUFACTURER
FJ-4	OPEN WEE	3 TRUSSES	14"	PER MAN	IUFACTURER
FJ-5	OPEN WEE	3 TRUSSES	16"	PER MAN	IUFACTURER
FJ-2Ø	LUMBER	ACQ. TREATED	2x1Ø	12" O.C.	16'-2"
FJ-21	LUMBER	ACQ. TREATED	2x1Ø	16" O.C.	14'
FJ-22	LUMBER		2x8	12" O.C.	14'-2"
FJ-23	LUMBER		2x8	16" O.C.	12'-7"
FJ-24	LUMBER		2x1Ø	12" O.C.	17'-9"
FJ-25	LUMBER		2x1Ø	16" O.C.	15'-5"
FJ-26	LUMBER		2-2x1Ø	16" O.C.	
NOTE:	DESIGN I	-JOISTS (LOAD	ED W/		IVE AND

DEAD LOAD) WITH A MAX. DEFLECTION OF L/360, EXCEPT BELOW BATHROOMS AND TILED AREAS WHERE THE DEFLECTION SHALL BE L/480 MAX.

### CONCRETE WALL SCHEDULE

MARK	CONCRET	E WALL	REINFORCING	GRADE 40
	THICKNESS	HEIGHT	VERTICAL	HORIZONTAL
<b>(</b>	8"	4' OR LESS	*4's AT 36" O.C.	2 - #4's
<b>(</b>	8"	4' TO 6'	*4's AT 36" O.C.	3 - <b>*</b> 4's
<b>\_</b>	8"	6' TO 8'	*4's AT 16" O.C.	4 - *4's
<b>②</b>	8"	8'	*4's AT 16" O.C.	4 - #4's
<b>(</b>	8"	9'	*4's AT 12" O.C.	5 - #4's
(1)	10"	4'	*4's AT 36"O.C.	2 - #4's
<b>(</b>	10"	8'	*4's AT 36" O.C.	4 - #4's
$\bigoplus$	10"	9'	*4's AT 16" O.C.	5 - #4's
$\bigcirc$	10"	10'	*4's AT 12" O.C.	6 - *4's

# COLUMN & PAD SCHEDULE

		*4 BARS REQ'D	COLUMN SIZE	MAX.
MARK	PAD SIZE	EACH WAY	(SCHEDULE 40)	LOAD
A	36"x36"x12"	6	3"	13.5 K
B	48"x48"x16"	8	3"	24.Ø K
	60"x60"x18"	100	3.5"	37.5 K
Ω	72"x72"x18"	12	5"	54.0 K
DIFR	SCHEDIII E			-

# MARK PIER DIAMETER POST (ACQ OR CEDAR UN.O.) MAX. LOAD 6x6 U.N.O. 6x6 U.N.O.

- 1. PAD AND PIER SIZES ASSUME 1500 P.S.F. SOIL
- BEARING CAPACITY. 2. 10' MAX. STEEL COLUMN HEIGHT FROM BASE PLATE TO TOP OF COLUMN. CONSULT ARCHITECT IF SITE CONDITIONS REQUIRE TALLER COLUMNS.

# **GENERAL NOTES:**

- A. EXTERIOR FRAMED WALLS ARE 2×4 STUDS AT 16"
  O.C. UNLESS NOTED OTHERWISE.
- B. FURNACE IS DIRECT VENT AND USES OUTSIDE AIR FOR COMBUSTION
- C. FOR COVERED DECK FRAMING SEE DETAIL 1/G3
- D. SEE G4 SHEET FOR LOCATION OF HOLD-DOWN TIES FOR BRACED WALL CONSTRUCTION

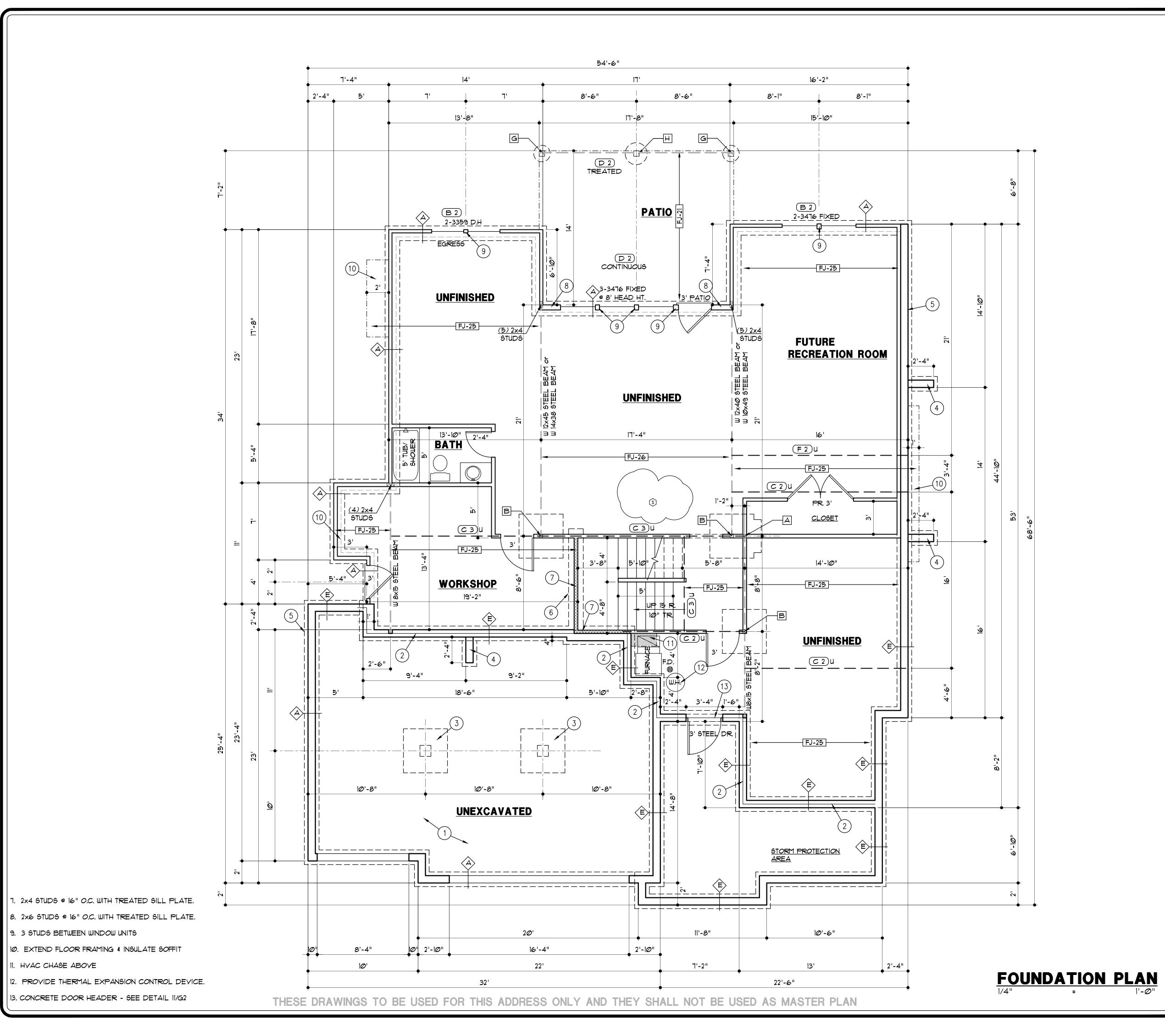
# **FOUNDATION PLAN NOTES**

SEE DETAIL 3/G2 FOR GARAGE SLAB CONSTRUCTION.

9. 3 STUDS BETWEEN WINDOW UNITS

11. HVAC CHASE ABOVE

- 2. HOLD SILL PLATE BACK SEE DETAILS 445/G2
- 3. CONCRETE PIER AND PAD SEE DETAIL 3/G2
- 4. RETURN WALL SEE DETAIL 8/G2
- 5. STEP FOUNDATION & FOOTING AS REQUIRED BY SITE
- 6. 16" WIDE X 8" DEEP CONCRETE FOOTING W/2-#4 BARS CONTINUOUS



0DS 27 WISPERIN 1701 LEE's SUI

7 35 ST.

**MES**R RD. 오 S  $\triangleleft$ **9 8**200 BL



DESCRIPTION	<del>o</del> n	SYMBOL
INTERIOR LO	PAD BEARING WALL	***************************************
STONE OR B	RICK YENEER	7/////////
JOIST SIZE A	ND DIRECTION	FJ-XX
HEADER/ BEAM	SIZE OF MEMBER PER HEADER/ BEAM SCHEDULE - NUMBER OF PLYS ————————————————————————————————————	<u>A</u> 2) U
CENTERLINE		
POINT LOAD		●
	JINDOW FRAME SIZE IN INCHES RAL NOTES BELOW)	2941
SMOKE ALAF	<del>থ</del> প	\$
SMOKE & CA	RBON MONOXIDE ALARM	(sc)

MARK	LUMBER SIZE	CRIPPLE STUDS	TRIMMERS
	2 x 6	1	1
$\widehat{\mathbb{B}}$	2 x 8	1	1
O	2 x 10	1	1
Θ	2 x 12	2	1
oxtless	134" x 714" L.V.L.	2	1
	134" x 91/2" L.V.L.	2	1
ড	1 <sup>3</sup> 4" x 11½" L.V.L.	2	1
$\left( \exists \right)$	1 <sup>3</sup> 4" × 14" L.V.L.	2	1
	134" × 16" L.V.L.	3	1
$\Theta$	134" x 18" L.V.L.	3	1
	134" x 91/2" L.S.L.	1	1
M	134" × 11%" L.S.L.	2	1

TRIMMERS UNDER EACH END. SOLID BLOCK BELOW. 2. FOR L.Y.L. BEAMS IN 2x10 FLOORS, USE 9 1/4" L.Y.L.

MARK	TYPE	SUB-TYPE	SIZE	SPACING	MAX. SPAN
FJ-1	"I" JOIST (	SEE NOTE)	9 1/2"	PER MAN	UFACTURER
FJ-2	"I" JOIST (	SEE NOTE)	11 7/8"	PER MAN	UFACTURER
FJ-3	"I" JOIST (	SEE NOTE)	14"	PER MAN	UFACTURER
FJ-4	OPEN WEE	3 TRUSSES	14"	PER MAN	UFACTURER
FJ-5	OPEN WEE	3 TRUSSES	16"	PER MAN	UFACTURER
FJ-2Ø	LUMBER	ACQ. TREATED	2x1Ø	12" O.C.	16'-2"
FJ-21	LUMBER	ACQ. TREATED	2x1Ø	16" O.C.	14'
FJ-22	LUMBER		2x8	12" O.C.	14'-2"
FJ-23	LUMBER		2x8	16" O.C.	12'-7"
FJ-24	LUMBER		2x1Ø	12" O.C.	17'-9"
FJ-25	LUMBER		2x1Ø	16" O.C.	15'-5"
FJ-26	LUMBER		2-2×10	16" O.C.	

EXCEPT BELOW BATHROOMS AND TILED AREAS WHERE THE DEFLECTION SHALL BE L/480 MAX.

CEILING	JOISTS	SCHEDUL	.E - LIVE LOAD 10 P.S.F.
MARK	SIZE	SPACING	MAXIMUM SPAN - DOUGLAS FIR *2
CJ-1	2x6	12"	19'-6"
CJ-2	2x6	16"	17'-8"
CJ-3	2x8	12"	25'-8"
CJ-4	2x8	16"	23'-Ø"
CJ-5	2x1Ø	12"	26'-Ø"
CJ-6	2x1Ø	16"	26'-Ø"
CJ-T	2x4	24"	9'-10"
CJ-8	2x6	24"	14'-1Ø"
CJ-9	2x8	24"	18'-9"
CJ-10	2×10	24"	22'-11"

SQUARE FOOTAGE TABLE				
AREA (S.F.)				
1984				
1243				
141				
3368				
7/05				
829				
1150				
227				
245				

# **GENERAL NOTES:**

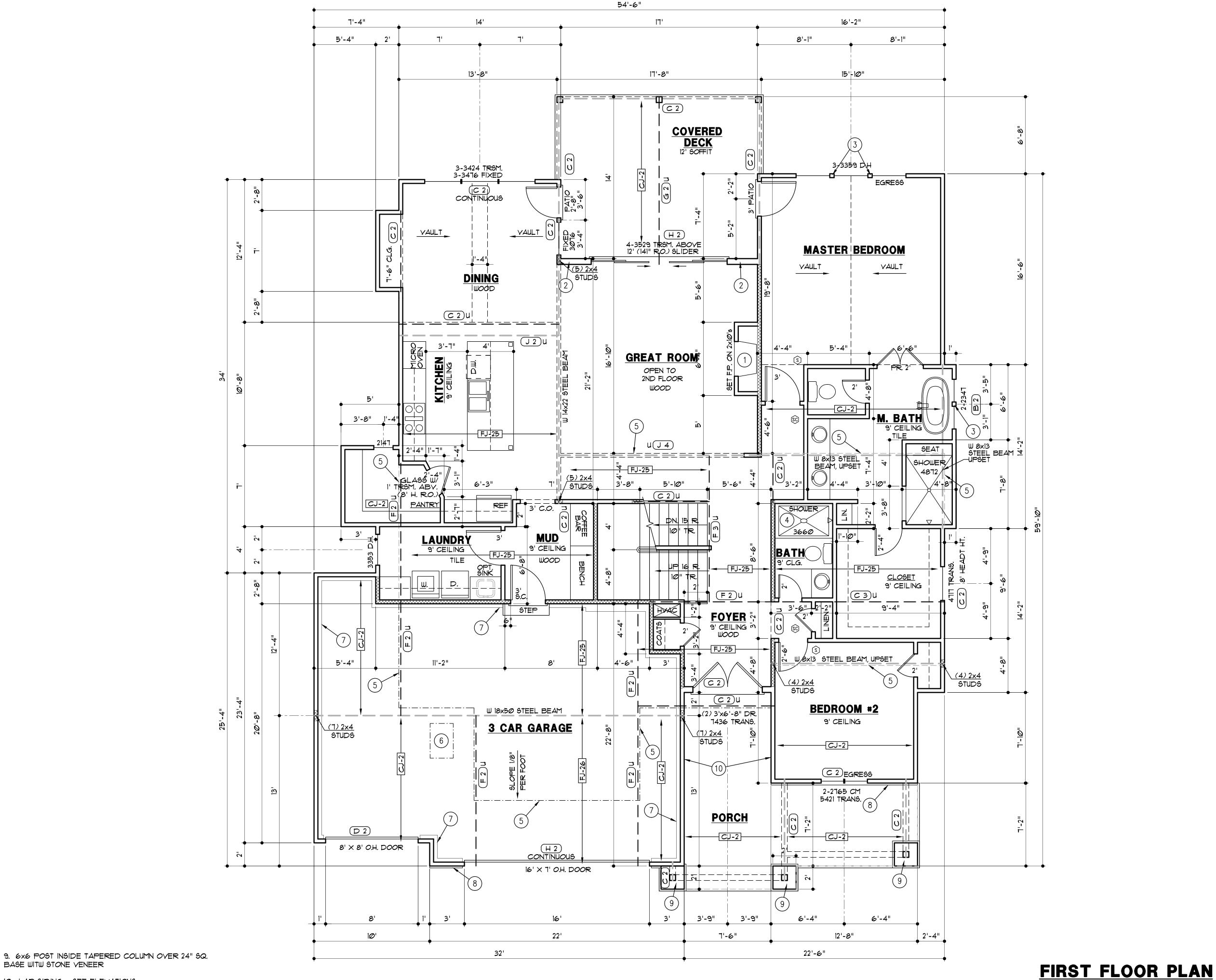
A. EXTERIOR WALLS ARE 2x4 STUDS AT 16" O.C. UNLESS OTHERWISE NOTED.

### B. SOLID BLOCKING BELOW STUDS SUPPORTING BEAMS AND HEADERS.

- C. FOR COVERED DECK FRAMING SEE DETAIL 1/G3
- D. SEE G4 SHEET FOR LOCATION OF HOLD-DOWN TIES FOR BRACED WALL CONSTRUCTION

# FLOOR PLAN NOTES

- I. 36" FIREPLACE, RAISED OFF FLOOR WITH 2x10'S
- 2. 18'-11" TALL UNINTERRUPTED WALL, 2x6 STUDS AT 12" O.C.
- 3. 3 STUDS BETWEEN WINDOWS
- 4. 36"x60" FIBERGLASS BASE WITH TILE WALLS
- 5. FLOOR LINE ABOVE
- 6. 1'-10"x3' ATTIC ACCESS
- 7. EXPOSED FOUNDATION WALL
- 8. MANUFACTURED STONE VENEER



0DS 27 WISPERIN 1701 LEE's SUN HOMES UTER RD. O 64015

35 3 T. 082

SH **R0B**2058
BLUE





10. LAP SIDING - SEE ELEVATIONS

BASE WITW STONE VENEER

THESE DRAWINGS TO BE USED FOR THIS ADDRESS ONLY AND THEY SHALL NOT BE USED AS MASTER PLAN

DESCRIPTION	<i>o</i> n	SYMBOL
INTERIOR LO	DAD BEARING WALL	***************************************
STONE OR B	RICK VENEER	711111111111
JOIST SIZE A	ND DIRECTION	FJ-XX
HEADER/ BEAM	SIZE OF MEMBER PER HEADER/ BEAM SCHEDULE - NUMBER OF PLYS "U" IF UPSET -	<u>A</u> 2) U
CENTERLINE		
POINT LOAD		•
	JINDOW FRAME SIZE IN INCHES RAL NOTES BELOW)	2941
SMOKE ALAF	<del>2</del> M	(3)
SMOKE & CA	RBON MONOXIDE ALARM	(SC)

MARK	LUMBER SIZE	CRIPPLE STUDS	TRIMMERS
A	2 x 6	1	1
B	2 x 8	1	1
(S)	2 x 10	1	1
Ф	2 x 12	2	1
E	134" x 714" L.V.L.	2	1
F	134" x 91/2" L.V.L.	2	1
G	1 <sup>3</sup> 4" × 11½" L.V.L.	2	1
H	1 <sup>3</sup> 4" × 14" L.V.L.	2	1
	134" × 16" L.V.L.	3	1
K	134" x 18" L.V.L.	3	1
	134" x 91/2" L.S.L.	1	1
(M)	134" x 111/8" L.S.L.	2	1

I. BEAMS SHALL HAVE TOTAL NUMBER OF CRIPPLES AND TRIMMERS UNDER EACH END. SOLID BLOCK BELOW.

2. FOR L.V.L. BEAMS IN 2x10 FLOORS, USE 9 1/4" L.V.L.

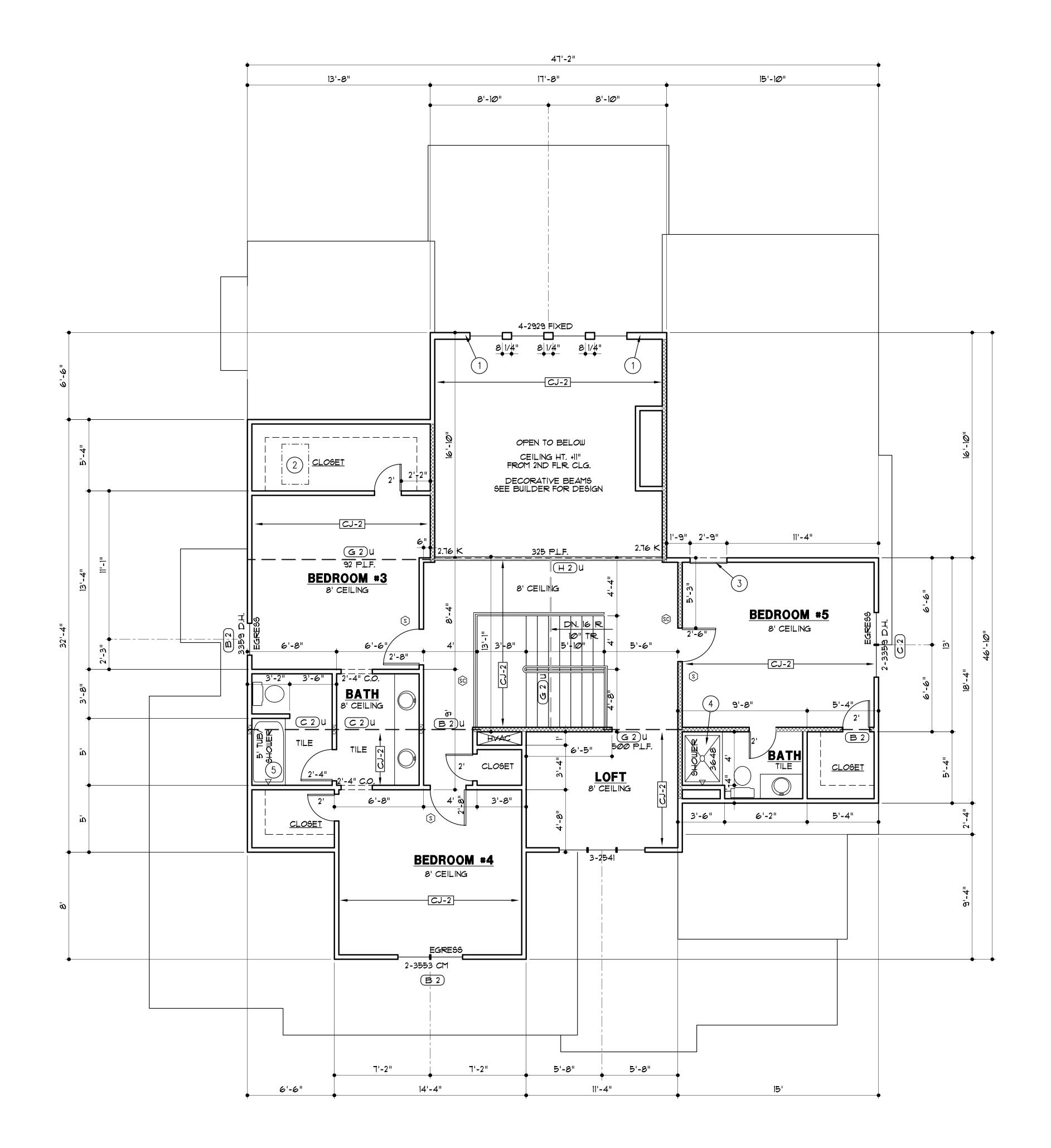
# CEILING JOISTS SCHEDULE - LIVE LOAD 10 P.S.F. MARK SIZE SPACING MAXIMUM SPAN - DOUGLAS FIR \*2 CJ-1 2x6 12" 19'-6" CJ-2 2x6 16" 17'-8" CJ-3 2x8 12" 25'-8" CJ-4 2x8 16" 23'-0" CJ-5 2x10 12" 26'-0" CJ-6 2x10 16" 26'-0" CJ-1 2x4 24" 9'-10" CJ-8 2x6 24" 14'-10" CJ-9 2x8 24" 18'-9" CJ-10 2x10 24" 22'-11"

### **GENERAL NOTES:**

- A. EXTERIOR WALLS ARE 2×4 STUDS AT 16" O.C. UNLESS OTHERWISE NOTED.
- B. SOLID BLOCKING BELOW STUDS SUPPORTING BEAMS AND HEADERS.
- C. SEE G4 SHEET FOR LOCATION OF HOLD-DOWN TIES FOR BRACED WALL CONSTRUCTION

# FLOOR PLAN NOTES

- 1. 18'-11" TALL UNINTERRUPTED WALL,  $2\times6$  STUDS AT 12" O.C.
- 2. 1'-10"x3' ATTIC ACCESS
- 3. 32"x32" ATTIC ACCESS PANEL
- 4. 36"x48" | PIECE FIBERGLASS SHOWER
- 5. TILE WALLS ABOVE TUB





LOT 35 H ST. 64082

NG WOODS SW 27'

WISPERIN 1701 LEE's SUN

HOMES OUTER RD. O 64015

**R0B**2058
BLUE

WASHAM



DESCRIPTION	SYMBOL
RIDGES AND HIPS	
VALLEYS	-
EAVES, RAKE & GABLE	
HOUSE WALLS	
PURLIN	
TOP OF PURLIN STRUT OR RIDGE POLE	0
BOT. OF PURLIN STRUT OR RIDGE POLE	
JOIST SIZE AND SPACING	RJ-X
UPLIFT VALUE	000*

ROOF F	RAFTE	R SCHEDULE			
MARK	SIZE	SPACING	MAXIMUM SPAN		
			FLAT CEILING	VAULTED CEILING	
RJ-I	2×6	12"	16'-7"	14'-9"	
RJ-2	2x6	16"	14'-4"	12'-9"	
<b>RJ-3</b>	2×6	24"	11'-9"	10'-5"	
RJ-4	2x8	12"	21'-Ø"	18'-8"	
RJ-5	2x8	16"	18'-2"	16'-2"	
RJ-6	2×8	24"	14'-10	13'-2"	
RJ-T	2×1Ø	12"	25'-8"	22'-9"	
RJ-8	2×1Ø	16"	22'-3"	19'-9"	
RJ-9	2x1Ø	24"	18'-2"	16'-1"	
RJ-10	2×12	16"	25'-9"	26'-5"	
RJ-11	2×12	24"	18'-2"	22'-10"	

## GENERAL NOTES:

A. BRACE ALL RIDGES TO BEARNG WALLS OR BEAMS BELOW, AT 4' O.C. UNLESS NOTED OTHERWISE

B. STRUTS TO BEAR ON WALLS AS INDICATED.
CONTACT ARCHITECT WITH ANY PROPOSED CHANGE
TO STRUT BEARING LOCATIONS. ARCHITECT MAY
NEED TO VERIFY THAT BEAMS BELOW NEW STRUT
LOCATION CAN SUPPORT ADDED LOADS.

C. SEE SHEET GI FOR LOAD AND DEFLECTION LIMITATIONS

D. SEE SHEET G3 FOR ROOF FRAMING DETAILS 3 \$4/G3

E. ROOFING TO BE COMPOSITION-40 YR. ON 30# FELT ON 7/16" O.S.B. SHEATHING

### ROOF PLAN NOTES

. BEARING WALL OR BEAM BELOW

2. 2x8 PURLIN WITH 2x6 "T" BRACES AT 4' O.C. TO BEARING WALL/ BEAM BELOW

3. 2x6 "T" BRACE TO BEARING WALL OR BEAM BELOW. BRACE SHALL BE CONNECTED TO STRUCTURE AT ROOF AND CEILING WITH MINIMUM (5) 16d NAILS.

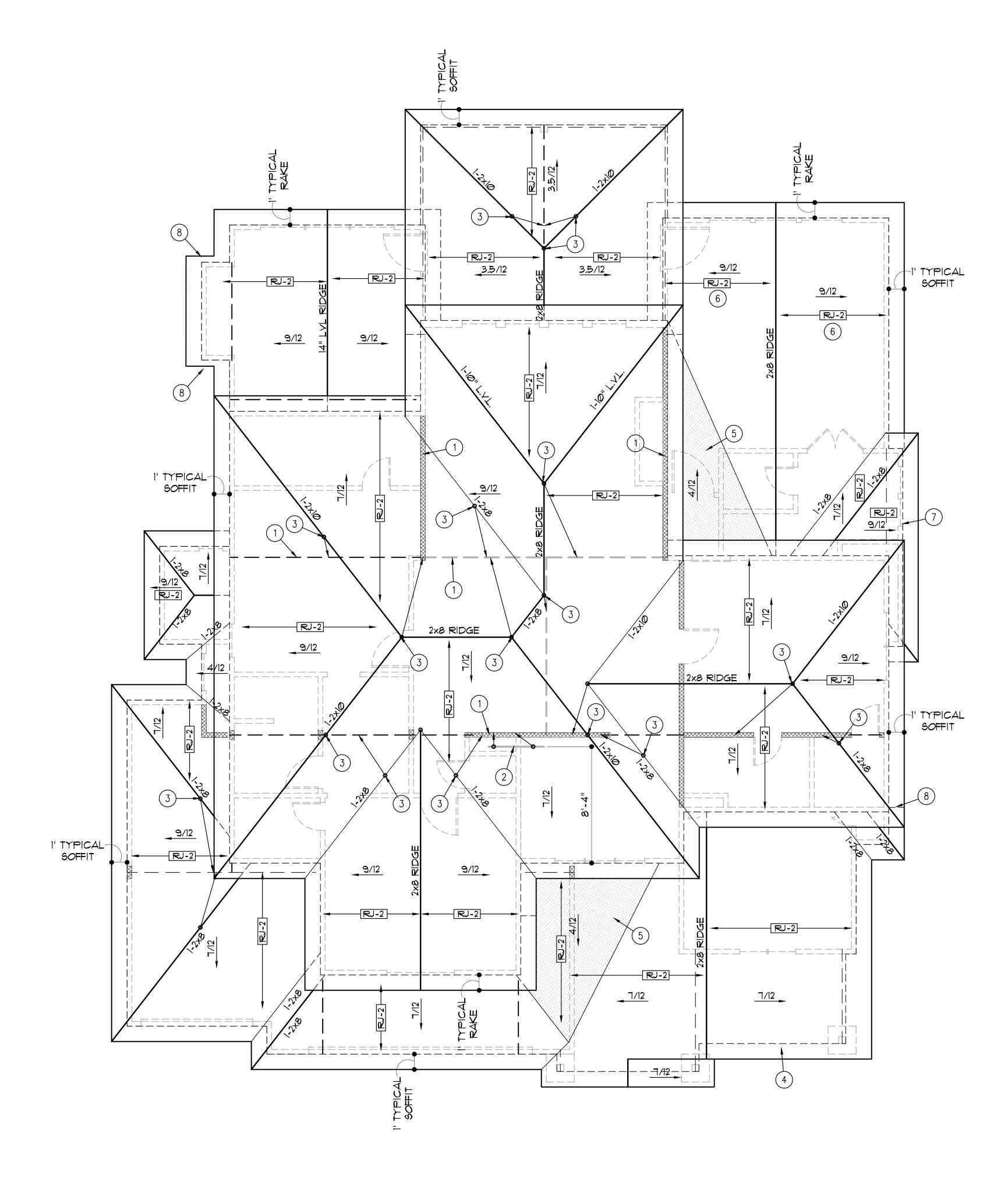
4. CORNICE RETURN

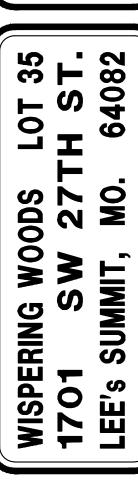
5. OVER FRAME THIS AREA

6. FURR DOWN ROOF RAFTERS TO A MINIMUM DEPTH OF  $9\frac{1}{4}$ " TO PROVIDE ROOM FOR INSULATION.

1. SET ROOF RAFTERS ON TOP OF FLOOR JOISTS

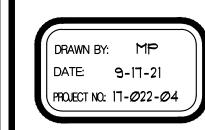
8. TIGHT BARGE SOFFIT





ROB WASHAM HOMES
2058 NW SOUTH OUTER RD.
BLUE SPRINGS, MO 64015







### **GENERAL NOTES**

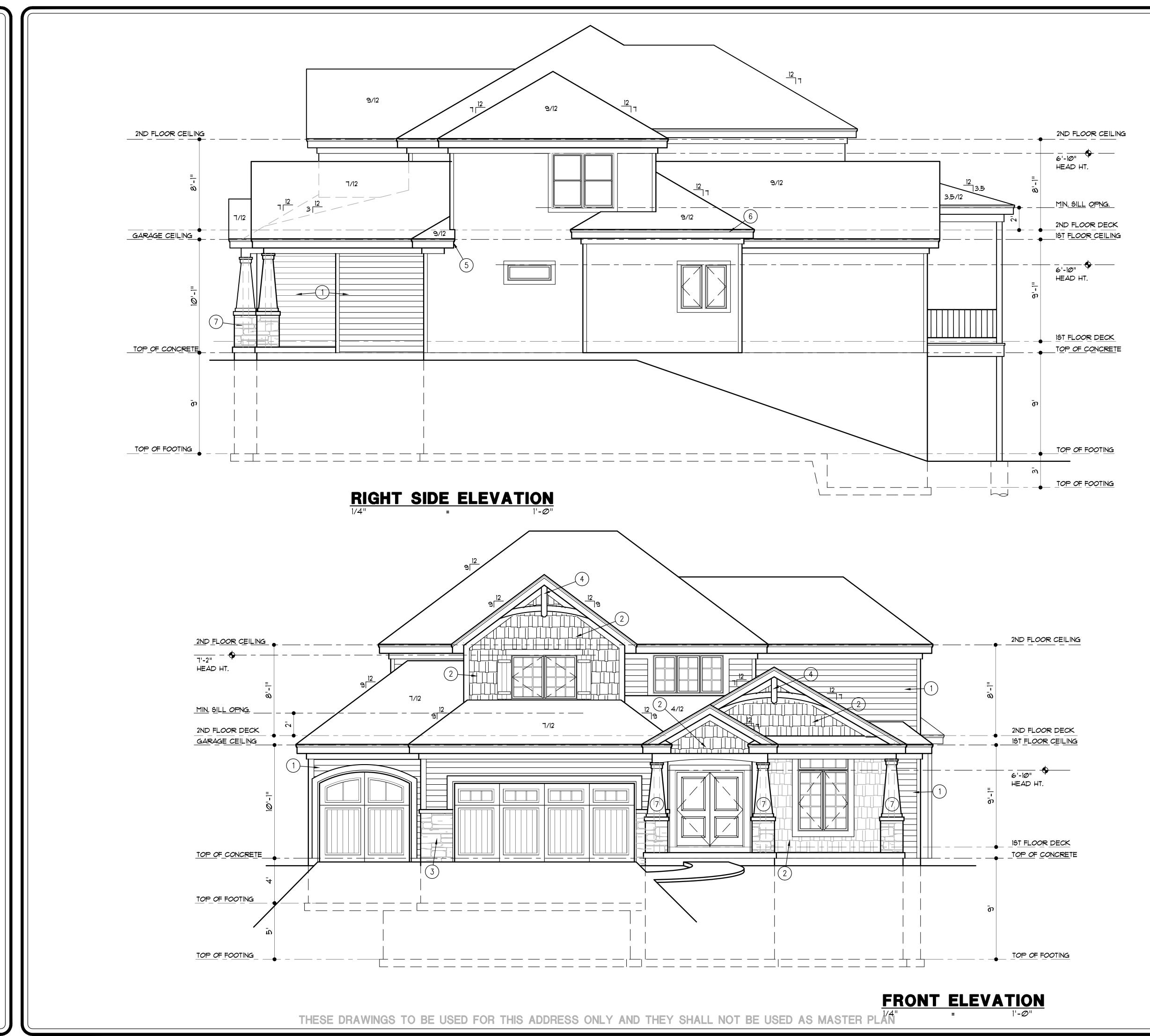
A. ROOFING TO BE COMPOSITION-40 YR. ON 30# FELT ON 7/16" O.S.B. SHEATHING

B. SIDING ON SIDES AND REAR TO BE 3/8" MIN.
STRUCTURAL WOOD PANEL SIDING, "SMART PANEL"
SIDING OR EQUAL, INSTALLED PER MANUFACTURER'S
INSTRUCTIONS. PROVIDE "Z" FLASHING BETWEEN
VERTICAL PANELS. IX4 SMART TRIM AT ALL CORNERS
AND AROUND WINDOWS.

# **ELEVATION NOTES**

1. SMART LAP SIDING WITH 6" EXPOSURE AND 5/4x6 SMART TRIM AT CORNERS, DOORS AND WINDOWS

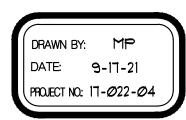
- 2. SHAKE SHINGLE SIDING
- 3. MANUFACTURED STONE WITH CAST STONE CAP
- 4. DECORATIVE GABLE TRIM
- 5. TIGHT BARGE
- 6. ROOF RAFTERS TO SET ON CEILING JOISTS
- 1. TAPERED COLUMN ON 24" SQ. BASE WITH STONE VENEER



WISPERING WOODS LOT 35 1701 SW 27TH ST. LEE's SUMMIT, MO. 64082

ROB WASHAM HOMES
2058 NW SOUTH OUTER RD
BLUE SPRINGS, MO 64015







### **GENERAL NOTES**

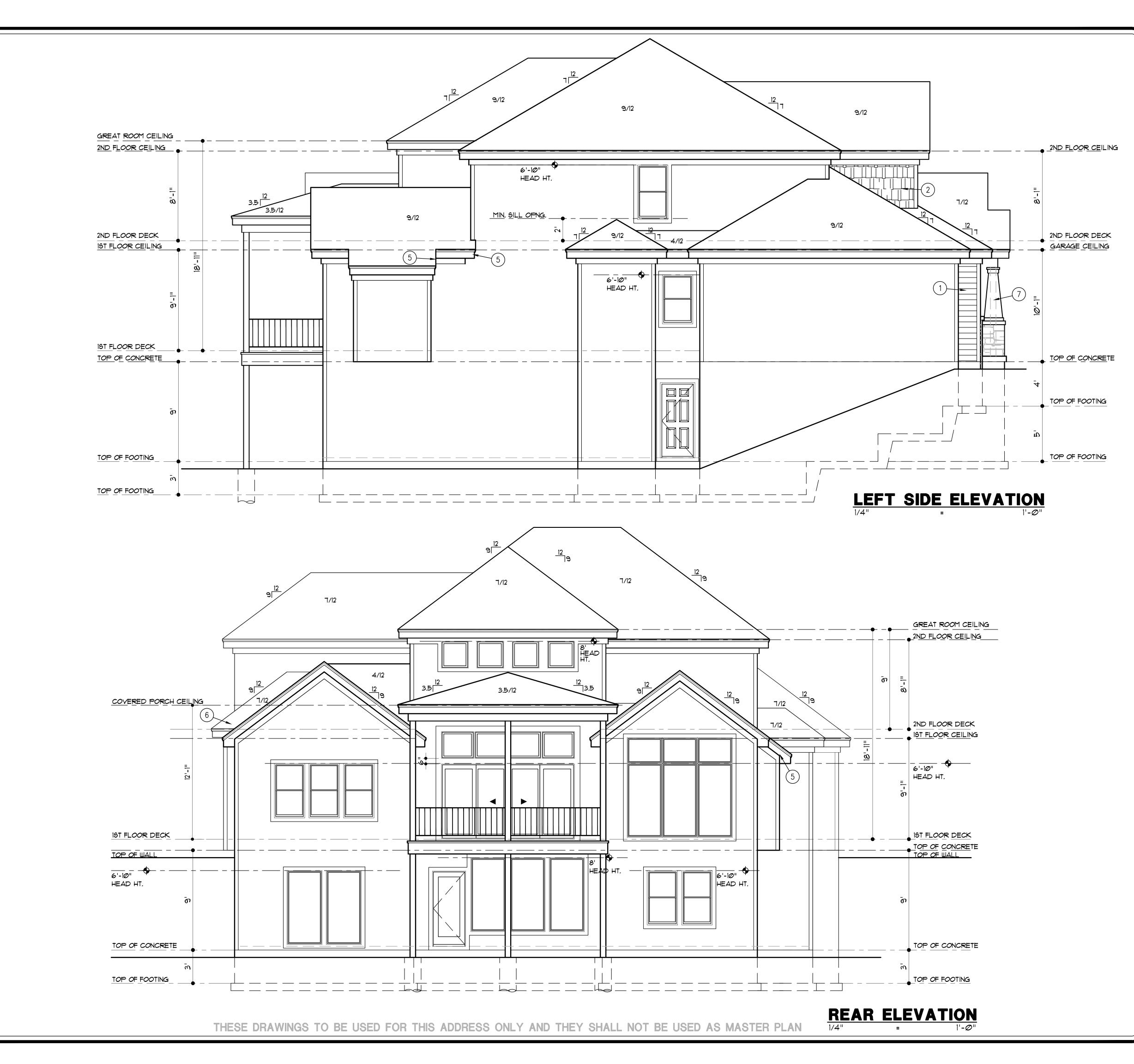
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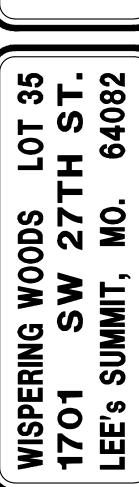
B. SIDING ON SIDES AND REAR TO BE 3/8" MIN.
STRUCTURAL WOOD PANEL SIDING, "SMART PANEL"
SIDING OR EQUAL, INSTALLED PER MANUFACTURER'S
INSTRUCTIONS. PROVIDE "Z" FLASHING BETWEEN
VERTICAL PANELS. 1x4 SMART TRIM AT ALL CORNERS
AND AROUND WINDOWS.

### **ELEVATION NOTES**

1. SMART LAP SIDING WITH 6" EXPOSURE AND 5/4x6 SMART TRIM AT CORNERS, DOORS AND WINDOWS

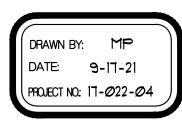
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ROB WASHAM HOMES
2058 NW SOUTH OUTER RD.
BLUE SPRINGS, MO 64015







### DISCLAIMER

THESE DRAWINGS ARE CONSIDERED A "BUILDER'S SET" AND BY BEGINNING CONSTRUCTION THE CONTRACTOR WARRANTS TO THE ARCHITECT, THAT HE HAS THE COMPETENCE AND SKILL IN CONSTRUCTION NECESSARY TO BUILD THE PROJECT WITHOUT FULL ENGINEERING AND DESIGN SERVICES. THE CONTRACTOR WILL BE REQUIRED TO ADAPT THE DRAWINGS TO ACTUAL FIELD CONDITIONS AND MAKE LOGICAL ADJUSTMENTS IN FIT, FORM, DIMENSION AND QUANTITY. IN THE EVENT, ADDITIONAL DETAIL OR GUIDANCE IS NEEDED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY WEBSTER ARCHITECTS, FAILURE TO GIVE NOTICE SHALL RELIEVE WEBSTER ARCHITECTS OF THE ALL RESPONSIBILITY FOR THE CONSEQUENCES. ALTHOUGH WEBSTER ARCHITECTS HAVE PERFORMED THEIR SERVICES WITH DUE CARE AND DILIGENCE. PERFECTION CAN'T BE GUARANTEED. IT IS UNDERSTOOD AND AGREED THAT IF WEBSTER ARCHITECTS IS NOT HIRED TO DO PROJECT OBSERVATION OR ANY OTHER CONSTRUCTION PHASE SERVICES, THAT THE CLIENT WILL PERFORM SUCH SERVICES. THE CLIENT ASSUMES ALL RESPONSIBILITY FOR INTERPRETATION OF THE CONTRACT DOCUMENTS AND FOR CONSTRUCTION OBSERVATION, AND THE CLIENT WAIVES ANY CLAIMS AGAINST WEBSTER ARCHITECTS THAT MAY BE IN ANY WAY CONNECTED THERETO, THESE DRAWINGS ARE NOT TO BE SCALED, IF A CRITICAL DIMENSION IS MISSING THE ARCHITECT SHOULD BE CONSULTED.

### **ABBREVIATIONS**

ABOVE FINISH FLOOR CHROMATED COPPER ARSENATE CONTROL JOINT CLG. CEILING C.O. CASED OPENING DRYER DOUBLE HUNG DIAMETER DOWN DISHWASHER EXPANSION JOINT EQ. EQUAL FLOOR DRAIN GAUGE OR GAGE GROUND FAULT CIRCUIT INTERRUPTER H.B. HOSE BIB HEIGHT KNEE SPACE POUND LAMINATED VENEER LUMBER MAX. MAXIMUM MINIMUM MICRO. MICROWAYE OYEN ON CENTER O.H. OVERHEAD/ OVERHANG PR PAIR RISER REFRIGERATOR ROOM ROUGH OPENING SQUARE FEET SIMILAR SQUARE SQ. TREAD TRASH COMPACTOR TELEVISION TYP. TYPICAL WASHER WALK IN CLOSET

WATER HEATER

WELDED WIRE FABRIC

W.H.

wwf.

		MIN. LOADS (P.S.F.)			
AREA	CONDITION	LIVE	DEAD		
DECKS	-	40	10		
CEILING JOISTS	NO STORAGE	10	10		
CEILING JOISTS	STORAGE ALLOWED	20	10		
FLOORS	NON-SLEEPING	40	10 (20 FOR TILED FLRS +)		
FLOORS	SLEEPING AREAS	3Ø	10 (20 FOR TILED FLRS +)		
DOOLE	WOOD OR COMPOSIT.	20	10 (20 IN LEAWOOD)		
ROOFS	TILE OR CONCRETE	2Ø	2Ø		
STAIRS	-	40	10		
HANDRAIL/ GUARDRAIL		200* IN ANY DIRECTION			

|- WIND SPEED 90 MPH (CATAGORY AS DEFINED BY R3Ø1.2.1.4)

\* TILE FLOOR LOAD BASED ON THINSET METHOD.

OPENIN	G MAXIMUM U-YALUE			
WINDOWS	)	.32		
<i>OPAQUE</i>	DOORS .	20		
GLASS D	DOORS	.35		
SKYLIGH	T .	.55		
GLAZED	FENESTRATION SHGC	.40		
BULDIN	G COMPONENT MINIMUM R-VALUE			
CEILING				
	WITH ATTIC	49		
	CATHEDRAL	3Ø		
WALL				
	EXTERIOR (CAVITY or CAVITY / CONTINUOUS)	20 or 13 + 5		
	BASEMENT ( CAVITY or EXTERIOR )	13 or 10		
	CRAWL SPACE	10/13		
FLOORS				
	SLABS FOR 2' DEPTH ON FOUNDATION)	10		
	TRENCH FOOTINGS - HEATED SLAB	15		
	TRENCH FOOTINGS	10		
	OVER UNHEATED SPACES	19		
	OVER OUTSIDE AIR	30		
DUCTS IN	UNHEATED SPACES - SUPPLY AND RETURN	8		
DUCTS IN U	NHEATED SPACES - IN FLOOR AND CEILING ASSEMBLY	6		
HOT WAT	ER SYSTEM PIPING	3		
FURNACE	(AFUE)	80% MINIMUM		
AIR CON	DITIONING (SEER)	13 MINIMUM		

### CODE COMPLIANCE

. BUILDING CONSTRUCTION: REGARDLESS OF WHAT IS SHOWN ON THE PLANS, THE BUILDING SHALL COMPLY WITH THE 2018 INTERNATIONAL RESIDENTIAL CODE AND ANY OTHER CITY REQUIREMENTS.

B. FOUNDATION WALLS ARE DESIGNED TO COMPLY WITH THE JOHNSON COUNTY FOUNDATION GUIDELINES.

C. BUILDING DESIGNED FOR SEVERE CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA OF WEATHERING CONDITIONS, MODERATE TO SEVERE TERMITE CONDITIONS, MODERATE DECAY CONDITIONS, 6 DEGREES FAHRENHEIT AND 5,333 HEATING DEGREE DAYS WINTER DESIGN TEMPERATURE CONDITIONS, 36 INCHES FROST LINE DEPTH CONDITIONS AND FLOOD HAZARDS BASED UPON THE LATEST ADOPTED F.I.RM. AND F.B.F.M. DOCUMENTS IN ACCORDANCE WITH L.B.C. ARTICLE 4-905.

A. GLASS: PROVIDE SAFETY GLAZING WHERE REQUIRED BY IRC R308 AND IN THE FOLLOWING LOCATIONS: 1. STORM DOORS, 2. INDIVIDUAL FIXED OR OPERABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24" ARC OF THE DOOR IN A CLOSED POSITION AND WHOSE BOTTOM EDGE IS WITHIN 60" OF THE FLOOR, 3, WALLS ENCLOSING STAIRWAYS AND LANDINGS WHERE THE GLAZING IS WITHIN 60" OF THE TOP OR BOTTOM OF THE STAIR, 4. ENCLOSURES FOR HOT TUBS, SAUNAS, STEAM ROOMS, SPAS, BATH TUBS, SHOWERS AND WHIRLPOOLS, 5. FIXED OR OPERABLE PANELS EXCEEDING 3 SQUARE FOOT AND WHOSE BOTTOM EDGE IS LESS THAN 18" ABOVE THE FLOOR AND WALKING SURFACE WITHIN 36"

EXTERIOR WINDOWS AND DOORS SHALL BE DESIGNED TO RESIST WIND LOADS SPECIFIED IN IRC TABLE R301.2(4)A. EXTERIOR OVERHEAD DOORS SHALL MEET D.A.S.M.A. 90 MPH REQUIREMENTS.

BEDROOM EGRESS: AT LEAST ONE WINDOW FROM EACH BEDROOM AND FROM THE BASEMENT SHALL HAVE AN OPERABLE AREA OF 5.7 SQUARE FEET WITH A MINIMUM OPERABLE HEIGHT OF 24" AND A WIDTH OF 21" AND WITH THE BOTTOM OF THE OPERABLE PORTION NO MORE THAN 44" A.F.F. WINDOWS WHOSE SILL IS 72" OR MORE ABOVE FINISHED GRADE AND WHOSE SILL IS LESS THAN 24" ABOYE FINISHED FLOOR SHALL HAYE WINDOW GUARDS OR OPENING CONTROL DEVICES WHICH RESTRICT A 4" SPHERE FROM PASSING THRU.

D. STAIRWAYS: MAXIMUM RISE 734", MINIMUM RUN 10", MINIMUM HEADROOM 6'-8", MINIMUM WIDTH 36". HANDRAILS ARE REQUIRED WHEN STAIRS HAVE 4 OR MORE RISERS. HANDRAIL TO HAVE ENDS RETURNED OR TERMINATED IN A NEWEL POST OR SAFETY TERMINAL AND PLACED MINIMUM 34", MAXIMUM 38" ABOVE TREAD NOSING. THE HAND GRIP PORTION OF HANDRAIL SHALL BE NOT LESS THAN 1-1/4" NOR MORE THAN 2 5/8" IN CROSS SECTION DIMENSION. HANDRAILS PROJECTING FROM A WALL SHALL HAVE A SPACE OF NOT LESS THAN 1-1/2" BETWEEN THE WALL AND THE HANDRAIL. INSTALL FIRE BLOCKING AT TOP AND BOTTOM OF STAIR RUN. THE CEILING AND WALLS OF USEABLE SPACE UNDER STAIRS SHALL BE SURFACED WITH 1/2" GYPSUM BOARD, TAPED AND FINISHED.

GUARDRAILS: ALL UNENCLOSED FLOOR AREAS, STAIRS AND EXTERIOR DECKS OVER 30" ABOVE GRADE SHALL HAVE 36" HIGH GUARDRAILS WITH A MAXIMUM OPENING OF 4" BETWEEN BALLUSTERS. BALLUSTERS SHALL NOT CREATE A LADDER.

. DOOR BETWEEN THE GARAGE AND DWELLING SHALL BE 1 3/8" THICK SOLID WOOD, 1 3/8" THICK MINIMUM SOLID CORE OR HONEY COMBED STEEL DOOR OR 20-MINUTE FIRE RATED, EQUIPPED WITH AUTOMATIC OR SELF-CLOSING DEVICE.

G. ATTACHED GARAGE: WALLS AND CEILING TO BE NOT LESS THAN 1/2" GYPSUM BOARD. CEILINGS AND BEAMS WITHIN THE GARAGE WILL BE COVERED WITH 5/8" TYPE "X" GYPSUM BOARD, IF SPACE ABOVE GARAGE IS LIVING SPACE.

H. BUILDER TO PROVIDE DECK OR LANDING PRIOR TO OWNER OCCUPANCY.

. CRAWL SPACE: THE MINIMUM NET AREA OF VENTILATION OPENINGS WILL NOT BE LESS THAN I SQUARE FOOT FOR EACH 150 SQUARE FEET OF UNDER-FLOOR AREA. ONE SUCH VENTILATING OPENING WILL BE WITHIN 3 FEET OF EACH CORNER. AN 18"x24" MINIMUM ACCESS OPENING. SHALL BE PROVIDED TO CRAWL SPACE.

K. ALL EXTERIOR DOORS, INCLUDING THE DOOR BETWEEN THE GARAGE AND THE HOUSE, SHALL INCORPORATE THE PHYSICAL SECURITY PROVISIONS OF SECTION MUNICIPAL CODE OF THE CITY IN WHICH THIS PROJECT IS LOCATED. FOR CITY OF RAYMORE SEE SECTION R324 "PHYSICAL SECUTITY" OF MUNICIPAL CODE. MECHANICAL, ELECTRICAL NOTES

A. SMOKE DETECTORS: INSTALL ONE IN EACH BEDROOM, OUTSIDE OF EACH BEDROOM AREA, AT LEAST ONE ON EACH STORY INCLUDING THE BASEMENT. ALL ALARMS ARE TO BE INTERCONNECTED SO THAT ACTIVATING ONE ALARM ACTIVATES THEM ALL.

B. CARBON MONOXIDE ALARMS: IN DWELLING UNITS USING FUEL-FIRED APPLIANCES OR IN DWELLING UNITS WITH ATTACHED GARAGES, INSTALL CARBON MONOXIDE ALARMS OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS .

C. GROUND FAULT CIRCUIT INTERRUPTER PROTECTION (GFCI) SHALL BE INSTALLED IN RECEPACLES IN BATHROOMS, KITCHENS, GARAGES, UNFINISHED BASEMENTS, OUTDOORS, CRAWL SPACES, AND WITHIN 6' OF ANY SINK. BATHROOM RECEPTACLES REQUIRE SEPARATE 20-AMP CIRCUIT. PROVIDE ARC-FAULT CIRCUIT INTERRUPTERS AS REQUIRED BY IRC E3902.12 OR AS REQUIRED BY MUNICIPALITY.

D. FIREPLACE: FACTORY-BUILT FIREPLACE WILL BE EQUIPPED WITH LISTED COMPONENT FOR OUTSIDE COMBUSTION AIR PER IRC 1005 AND SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS

ALL BATHROOMS TO RECEIVE EXHAUST FANS -- 50 CFM DIRECTLY TO OUTSIDE. POINT OF DISCHARGE MIN. 3' FROM ANY OPENING.

MECHANICAL, ELECTRICAL NOTES CONT

HEAT PUMP THERMOSTATS MUST PREVENT BACK-UP ELECTRIC RESISTANCE HEAT WHEN THE HEAT PUMP CAN MEET THE LOAD.

G. DUCT SEALING MUST MEET THE REQUIREMENTS OF M 1601.3.1

H. ELECTRICAL CONDUCTORS SHALL BE COPPER AND THE PANEL BOX SHOULD BE 200 AMP ANY DUCT PENETRATIONS OF THE WALLS OR CEILING

CONSTRUCTED OF 26 GAUGE SHEET METAL WITH NO

SEPERATING THE DWELLING FROM THE GARAGE SHALL BE

### CONCRETE NOTES

OPENINGS IN THE GARAGE

A. CONCRETE: ALL CONCRETE SHALL BE 5-7% AIR-ENTRAINED AND HAVE A MINIMUM COMPRESSIVE STRENGTH AS LISTED BELOW AT 28 DAYS: . BASEMENT AND INTERIOR FLOOR SLABS: 3,000 PSI (2,500 IN LENEXA)

. BASEMENT AND FOUNDATION WALLS: 3,000 PSI 3. PORCHES, CARPORT AND GARAGE FLOOR SLABS: 3,500

B. REINFORCING SHALL BE GRADE 40. SPLICES SHALL LAP 24" MIN. UNLESS NOTED OTHERWISE.

C. FOOTINGS: FOOTINGS SHALL BEAR ON UNDISTURBED SOIL AND EXTEND A MINIMUM OF 36" BELOW FINISHED GRADE. FOOTINGS UNDER FOUNDATION WALLS SHALL HAVE A MINIMUM WIDTH OF 16" AND A MINIMUM DEPTH OF 8" AND SHALL HAVE 2 \*4 BARS CONTINUOUS. TRENCH FOOTINGS SUPPORTING MORE THAN ONE FLOOR SHALL BE A MINIMUM OF 16" WIDE, FOOTINGS SHALL BE CONTINUOUS AROUND THE STRUCTURE AND FROM ONE LEVEL TO THE NEXT. MAXIMUM HORIZONTAL JUMPS FOR FOOTINGS SHALL BE 1'.

D. WALLS: HORIZONTAL BARS SHALL BE PLACED WITH THE TOP BAR WITHIN 8 INCHES OF THE TOP OF THE WALL AND OTHER BARS EQUALLY SPACED. BARS SHALL LAP A MINIMUM IS INCHES AT ENDS, SPLICES AND AROUND CORNERS, REINFORCEMENT SHALL BE CONTINUOUS AROUND WINDOWS, DOORS AND OTHER OPENINGS WITH SPLICES AS NOTED ABOVE TO MINIMIZE CRACKING AT CORNERS OF THE OPENINGS. BARS SHALL BE PLACED 2" FROM THE INSIDE FACE OF THE WALL.

E. DAMPPROOFING: DAMPROOFING REQUIRED FOR WALLS ENCLOSING BASEMENTS OR OTHER HABITABLE SPACE. A MINIMUM OF ONE COAT OF DAMPPROOFING SHALL BE APPLIED TO EXTERIOR WALL SURFACES BELOW GRADE. SEAL TIE HOLES, VOIDS AND HONEYCOMBED AREAS WITH | SEALANT BEFORE DAMPPROOFING.

F. WATERPROOFING: WATERPROOFING REQUIRED IN LIEU OF DAMPROOFING WHERE A HIGH WATER TABLE OR OTHER SEVERE WATER CONDITIONS EXIST.

G. DRAIN TILE: INSTALL CONTINUOUS 4" DRAIN TILE AROUND THE PERIMETER OF ALL FOUNDATIONS ENCLOSING HABITABLE SPACES LOCATED BELOW GRADE. INSTALL VERTICAL DRAINS TO THE PERIMETER DRAIN TILE AT ALL WINDOW WELLS. SET DRAIN TILE ON A 2" DEEP BY 12" WIDE GRAVEL BED AND COVER TILE WITH AT LEAST 6" OF COARSE, CLEAN ROCK AND A FILTER MEMBRANE MATERIAL. CONNECT THE DRAINS TO A 20-GALLON SUMP PIT OR DRAIN BY GRAVITY TO AN OUTLET WELL AWAY FROM THE HOUSE.

H. FOUNDATION ANCHORAGE: BASEMENT FOUNDATION SILL PLATES SHALL BE BOLTED TO THE FOUNDATION WITH 1/2" ANCHOR BOLTS EMBEDDED AT LEAST 1 INCHES INTO THE CONCRETE AND SPACED NOT MORE THAN 3 FEET ON CENTER AND WITHIN 12 INCHES OF THE END OF EACH PIECE.

BEAM POCKETS: RECESSED 4" INTO THE WALL. THE DEPTH AND WIDTH SHALL BE SIZED TO ACCOMMODATE THE DESIGNATED BEAM.

FLOOR SLABS: BASEMENT FLOOR SLABS SHALL BE A MINIMUM 4 INCHES THICK AND PLACED ON A 4-INCH GRAVEL BASE. THE BASEMENT FLOOR SHALL BE ISOLATED FROM COLUMN PADS, INTERIOR COLUMNS AND INTERIOR BEARING WALLS. INTERIOR COLUMNS AND BEARING WALLS SHALL BE SUPPORTED ON A SEPARATE INTERIOR FOOTING (NOT ON TOP OF THE FLOOR SLAB). THE GARAGE FLOOR SHALL SLOPE TOWARDS THE GARAGE DOORWAYS OR SLOPE TO A TRENCH OR UN-TRAPPED DRAIN THAT DISCHARGES DIRECTLY TO THE EXTERIOR ABOYE GRADE, OPTIONAL (EXCEPT IN LEAWOOD) 6 MIL. POLY VAPOR BARRIER SHOULD BE INSTALLED UNDER THE FLOOR SLAB.

# SENERAL FRAMING NOTES

A. LUMBER: LUMBER IS #2 OR BETTER DOUGLAS FIR LARCH, EXCEPT FOR DECAY RESISTANT LUMBER WHICH IS SOUTHERN YELLOW PINE #2.

B. ALL EXTERIOR FRAMING LUMBER OR LUMBER IN CONTACT WITH CONCRETE OR MASONRY SHALL BE DECAY RESISTANT

C. L.Y.L. HEADERS & BEAMS ARE TO HAVE A MIN. MODULUS OF ELASTICITY OF 1.9 imes 10 PSI.

D. FLOOR, CEILING AND ROOF OPENINGS: TRIMMER JOISTS SHALL BE DOUBLED WHEN THE HEADER IS SUPPORTED MORE THAN 3 FEET FROM THE TRIMMER JOIST BEARING. TRIMMER AND HEADER JOISTS SHALL BE DOUBLED WHEN THE SPAN OF THE HEADER EXCEEDS 4 FEET. THE ENDS OF HEADER RAFTERS MORE THAN 6 FEET LONG SHALL BE SUPPORTED BY FRAMING ANCHORS OR RAFTER HANGERS UNLESS BEARING ON A BEAM, PARTITION OR WALL.

E. FRAMING AROUND OPENINGS: TRIMMER AND HEADER JOISTS SHALL BE DOUBLED WHEN THE SPAN OF THE HEADER EXCEEDS 4' THE ENDS OF HEADER JOISTS MORE THAN 6 FEET LONG SHALL BE SUPPORTED BY FRAMING ANCHORS OR JOIST HANGERS UNLESS BEARING ON A BEAM, PARTITION, OR WALL.

FRAMING NOTES- FLOORS

BEARING: THE ENDS OF EACH JOIST SHALL NOT HAVE LESS THAN 1-1/2 INCHES OF BEARING ON WOOD OR METAL. JOISTS FRAMING INTO BEAMS SHALL BE SUPPORTED BY METAL JOIST HANGERS. JOIST FRAMING FROM OPPOSITE SIDES OF A BEAM, GIRDER OR PARTITION SHALL BE LAPPED AT LEAST 3 INCHES OR STRAPPED TOGETHER JOISTS UNDER AND PARALLEL TO BEARING PARTITIONS SHALL BE DOUBLED.

B. LATERAL SUPPORT: 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. WHERE JOISTS ARE PERPENDICULAR TO BRACED WALL LINES, PROVIDE BLOCKING UNDER AND IN-LINE WITH THE BRACED WALL

. DECKING TO BE  $^34$ " (MIN.) PLYWOOD OR ORIENTED STRAND BOARD INSTALLED PERPENDICULAR TO JOISTS.

D. TOP OF WALL SUPPORT CONNECTIONS: WHERE JOISTS RUN PARALLEL TO FOUNDATION WALLS, SOLID BLOCKING FOR A MINIMUM OF 2 JOIST SPACES SHALL BE PROVIDED AT A MAXIMUM OF 4 FEET CENTERS, AND SHALL BE SECURELY NAILED TO THE JOISTS AND FLOORING. IF DUCTS ARE INSTALLED IN THE FIRST JOIST SPACE(S), NAIL 2 BY 4'S FLAT AT 4-FOOT CENTERS WITHIN THE JOIST SPACE(S) AND THEN PROVIDE THE SOLID BLOCKING. SECURE EACH 2 BY 4 TO THE SILL PLATE WITH FOUR IOD

E. "I" JOISTS (IF USED) SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.

PROVIDE BLOCKING OR BRIDGING AT CANTILEVERS.

G. PROVIDE 1/2" DRYWALL ON CEILING OF UNFINISHED SPACES FOR FLOOR FRAMING USING "I" JOISTS OR TRUSSES.

### FRAMING NOTES - WALLS

A. SIZE, HEIGHT AND SPACING: UNLESS OTHERWISE NOTED, STUDS SHALL BE 2x4 DF#2's SPACED AT 16" O.C.

FOR EXTERIOR WALLS SUPPORTING A ROOF ONLY, 2 x 6 STUDS SPACED 16" O.C SHOULD BE USED FOR ALL WALLS 14' TO 18' TALL AND 2 x 6 STUDS SPACED 12" O.C SHOULD BE USED FOR WALLS 18' TO 20' TALL.

FOR WALLS SUPPORTING A ROOF AND A FLOOR 2 x 6 STUDS SPACED 16" O.C SHOULD BE USED FOR WALLS 12' TO 18' TALL

STUDS SHALL BE CONTINUOUS FROM SOLE PLATE TO TOP PLATE OR CEILING DIAPHRAGM, EXCEPT FOR JACK STUDS, TRIMMER OR CRIPLE STUDS.

B. ANGLES: ANGLED WALLS ARE ASSUMED TO BE 45° UNLESS OTHERWISE NOTED.

C. FRAMING DETAILS: BEARING AND EXTERIOR WALL STUDS SHALL BE CAPPED WITH DOUBLE TOP PLATES INSTALLED TO PROVIDE OVER-LAPPING AT CORNERS AND AT INTERSECTIONS WITH OTHER PARTITIONS. END JOINTS IN DOUBLE TOP PLATES SHALL BE OFFSET AT LEAST 48 INCHES.

D. OPENINGS: UNLESS OTHERWISE NOTED, ALL HEADERS ARE TO BE TYPE "A" PER THE HEADER SCHEDULE. EACH END OF A HEADER SHALL HAVE A BEARING LENGTH OF NOT LESS THAN 1-1/2 INCHES FOR THE FULL WIDTH OF THE LINTEL. PROVIDE SOLID BLOCKING BELOW ALL STUDS SUPPORTING HEADERS AND BEAMS.

- UNLESS OTHERWISE DIMENSIONED, INTERIOR DOORS AND CASED OPENINGS ARE TO BE CENTERED IN THE WALL OR 3" FROM CORNERS AS INDICATED ON THE DRAWINGS.

E. FIRE BLOCKING OF NON-COMBUSTIBLE MATERIAL SHALL BE PROVIDED IN OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS, FIREPLACES, AND LAUNDRY CHUTES AT CEILING AND FLOOR LEVEL.

F. CRIPPLE WALLS: FOUNDATION CRIPPLE WALLS SHALL BE FRAMED WITH 2 X 4 STUDS WITH A MINIMUM LENGTH OF 14" OR SHALL BE FRAMED OF SOLID BLOCKING. WHEN EXCEEDING 4' IN HEIGHT ON 2 STORY STRUCTURES, WALLS SHALL BE  $2 \times 6$  STUDS AT 16" O.C.

G. BASEMENT NONBEARING WALLS: NON-LOAD BEARING STUD WALLS EXTENDING FROM THE FLOOR SLAB TO THE STRUCTURE ABOVE SHALL BE PROVIDED WITH A MINIMUM 1-INCH EXPANSION JOINT.

H. GARAGE DOORS AND FRAMES SHALL BE DESIGNED AND INSTALLED TO MEET A 115 mph WIND LOAD. THE H-FRAME FOR ATTACHMENT OF TRACK AND COUNTER BALANCE SHALL CONSIST OF THE FOLLOWING: 2x6 YERTICAL JAMBS RUNNING FROM FLOOR TO CEILING ATTACHES WITH 3-1/4"x120 NAILS @ 7" O.C. STAGGERED WITH 7) 3-1/4"x120 NAILS THRU JAMB INTO HEADER, MINIMUM 2x8 HEADER FOR ATTACHMENT OF COUNTER BALANCE SYSTEM.

# FRAMING NOTES- DECKS

. FOR DECK LEDGER ATTACHMENT AND DECK CONSTRUCTION REFER TO IRC SECTION 507.

RAMING NOTES- CEILING

A. BLOCKING: ROOF RAFTERS AND CEILING JOISTS SHALL BE SUPPORTED LATERALLY TO PREVENT ROTATION AND LATERAL DISPLACEMENT.

B. JOISTS FRAMING INTO BEAMS SHALL BE SUPPORTED BY METAL JOIST HANGERS.

### FRAMING NOTES- ROOF

A. FRAMING: RAFTERS SHALL BE FRAMED DIRECTLY OPPOSITE EACH OTHER AT THE RIDGE. THERE SHALL BE A RIDGE BOARD AT LEAST 1-INCH NOMINAL THICKNESS AT ALL RIDGES AND NOT LESS IN DEPTH THAN THE CUT END OF THE RAFTER. AT ALL VALLEYS AND HIPS THERE SHALL BE A SINGLE VALLEY OR HIP RAFTER NOT LESS THAN 2-INCH NOMINAL THICKNESS AND NOT LESS IN DEPTH THAN THE CUT END OF THE RAFTER.

B. BRACING: ALL PURLING AND HIPS, RIDGES, AND YALLEYS SHOWN TO BE SUPPORTED SHALL BE BRACED WITH A STRUT DOWN TO A BEARING WALL (WALLS LOCATED DIRECTLY ABOVE A BEAM LINE OR CONTINUOUS FOOTING). THE MINIMUM SLOPE OF THE STRUTS SHALL NOT BE LESS THAN 45° FROM THE HORIZONTAL.

C. RAFTER TIES: RAFTERS SHALL BE NAILED TO ADJACENT CEILING JOISTS TO FORM A CONTINUOUS TIE BETWEEN EXTERIOR WALLS WHEN SUCH JOISTS ARE PARALLEL TO THE RAFTERS. WHERE NOT PARALLEL RAFTERS SHALL BE TIED TO 2"x4" MINIMUM CROSSTIES AT EACH RAFTER AND LOCATED AS CLOSE TO THE CEILING JOISTS AS POSSIBLE (RE: DETAIL 3 & 4/G3).

D. RAFTER COLLAR TIES: PROVIDE IX4 MIN. COLLAR TIES AT 48" O.C. (RE: DETAIL 3 & 4/G3). AT CATHEDRAL CEILINGS PROVIDE RIDGE STRAPS.

E. YAULTED CEILINGS: FOR RAFTERS SMALLER THAN A 2 X 10, FURRING MUST BE ADDED TO THE BOTTOM OF THE RAFTER TO OBTAIN A 9 1/4" MINIMUM DEPTH.

F. FLASH AND COUNTERFLASH ROOF RIDGES AND VALLEYS, ROOF PENETRATIONS, CHANGES IN ROOF PITCHES, RAKES, CHIMNEY BASES, WINDOW AND DOOR HEADS, ETC. TO PROVIDE WATER TIGHT CLOSURES. ALL EXPOSED FLASHING TO BE 26 GAUGE ALUMINUM. COUNTERFLASHING SHALL BE FABRICATED FROM 40\* TERNE METAL.

G. ATTIC VENTILATION: THE NET FREE VENTILATION AREA SHALL BE NOT LESS THAN 1/150 OF THE AREA OF THE SPACE VENTILATED, EXCEPT THAT THE AREA MAY BE 1/300, PROVIDED AT LEAST 50 PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATOR LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED, AT LEAST 3 FEET ABOVE EAVES OR CORNICE VENTS, WITH THE BALANCE OF THE REQUIRED VENTILATION PROVIDED BY EAVE OR CORNICE VENTS. RAFTERS SPACES ENCLOSED BY CEILINGS DIRECTLY APPLIED TO UNDERSIDE OF RAFTERS SHALL BE SIZED TO ALLOW A MINIMUM I INCH CLEAR VENTED AIR SPACE ABOVE THE INSULATION AND EACH SPACE BETWEEN JOISTS SHALL BE VENTED.

H. ROOF SHEATHING: SHALL BE INSTALLED PERPENDICULAR TO THE ROOF JOISTS AND THE ENDS SHALL BE STAGGERED.

# PREFABRICATED WOOD TRUSSES (IF USED)

A. ROOF AND FLOOR TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH TRUSS PLATE INSTITUTE (TPI) DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES AND THE NATIONAL DESIGN SPECIFICATION FOR ANSIMFOPA WOOD CONSTRUCTION. PROVIDE TEMPORARY AND PERMANENT BRACING ON ALL TRUSSES, AS REQUIRED TO PROVIDE MEMBER AND TRUSS STABILITY.

3. ROOF TRUSSES SHALL BE DESIGNED AND CONSTRUCTED FOR A MAXIMUM TOTAL LOAD DEFLECTION OF L/240, AND TO SAFELY SUPPORT THE FOLLOWING LOADS:

. TOP CHORD: a. LIVE LOAD ..... SEE GENERAL NOTES

b. DEAD LOAD ...... 15 PSF 2. BOTTOM CHORD:

3. WIND LOADS IN ACCORDANCE WITH THE APPROPRIATE BUILDING CODE. GABLED END TRUSSES SHALL HAVE VERTICAL MEMBERS SPACED AT 16" ON CENTER MAXIMUM.

ADDITIONAL OVERBUILD FRAMING TO FORM VALLEYS AND HIPS ON ROOFS. 5. TRUSSES SHALL BE DESIGNED TO SUPPORT DRIFTED SNOW LOADS IN ACCORDANCE WITH THE APPROPRIATE

4. TRUSSES SHALL ALSO BE DESIGNED TO SUPPORT

BUILDING CODE. 6. TRUSSES SHALL BE ATTACHED TO WALL ASSEMBLIES BY CONNECTIONS CAPABLE OF RESISTING UPLIFT FORCES AS SPECIFIED ON THE TRUSS DESIGN DRAWINGS PER IRC

# **ENERGY REQUIREMENTS**

TABLE R802.11.

THE BUILDING THERMAL ENEVELOPE IS REQUIRED TO BE SEALED (IRC NII02.4.1)

B. RECESSED LIGHTING SHALL BE SEALED TO PREVENT LEAKAGE BETWEEN CONDITIONED AND UNCONDITIONED

C. DUCTS, AIR HANDLERS, FILTER BOXES AND BUILDING CAVITIES USED AS DUCTS SHALL BE SEALED (IRC SECTION

D. PENETRATIONS IN AIR BARRIERS (HOUSE WRAP) SHALL BE TAPED AND SEALED AS REQUIRED BY AIR BARRIER MANUFACTURER, WINDOW/ DOOR MANUFACTURER AND ENERGY CODE.

CONNECTION	NAILS	LOCATION
JOIST TO SILL OR GIRDER	3-8d 3 - 3" × 0.131"	TOENAIL
BRIDGING TO JOIST	2-8d	TOENAIL
DINDGING TO COLOT	2 - 3" × Ø.131"	
SOLE PLATE TO JOIST OR BLOCKING	16d at 16" o.c.	FACE NAIL
	3-3" x Ø.131 at 8" o.c.	
SOLE PLATE TO JOIST / BLOCKING: AT BRACED WALL PANELS	3-160 at 16" o.c.  4 -3" x 0.131 at 16" o.c.	FACE NAIL
TOP PLATE TO STUD	2-16d	END NAIL
	3 - 3" × Ø.131"	
STUD TO SOLE PLATE	4-8d 4 - 3" x Ø.131"	TOENAIL
	2-16d	FACE NAIL
	3 - 3" × Ø.131"	
DOUBLE STUDS	16d at 24" o.c.	FACE NAIL
DOUBLE TOD BLATES	3" x Ø.131 at 8" o.c.	EACE MAIL
DOUBLE TOP PLATES	16d at 24" o.c.  3" x Ø.131 at 12" o.c.	FACE NAIL
	8-16d	LAP SPLICE
	12-3" × Ø.131	
BLOCKING BETWEEN JOISTS AND RAFTERS TO TOP PLATE	3-8d   3-3" x Ø.131 at 12" o.c.	TOENAIL
RIM JOIST TO TOP PLATE	8d at 6" o.c.	TOENAIL
	3" x Ø.131 at 6" o.c.	
TOP PLATE, LAPS AND INTERSECTIONS	2 - 16d 3 - 3" × Ø.131"	FACE NAIL
CONTINUOUS HEADER, 2 PIECES.	16d at 16" o.c.	FACE NAIL
	3" x Ø.131 at 12" o.c.	
CEILING JOISTS TO TOP PLATE	3-8d	TOENAIL
CONTINUOUS HEADER TO STUD	5 - 3" x Ø.131 4-8d	TOENAIL
SOM MAGAS FILADER TO STAD	6 - 3" x Ø.131	
CEILING JOISTS, LAPS OVER PARTITIONS		FACE NAIL
CEILING JOISTS TO PARALLEL RAFTERS/	4 - 3" x Ø.131 RE: IRC TABLE	FACE NAIL
RAFTER TIES TO RAFTERS	R802.5.1 (9)	FACE NAIL
RAFTER TO PLATE	3-8d	TOENAIL
	3 - 3" × Ø.131"	EACE MAIL
I" DIAGONAL BRACE TO EACH STUD AND PLATE	2-8d   2 - 3" × <i>0.</i> 131"	FACE NAIL
BUILT UP CORNER STUDS	16d at 24" o.c.	FACE NAIL
	3" x Ø.131" at 16" o.c.	
BUILT UP BEAMS. STAGGER NAILS OF OPPOSITE SIDES	1200 at 32" o.c.  3" x 0.131" at 24" o.c.	FACE NAIL
BUILT UP BEAMS AT ENDS AND	2-20d	FACE NAIL
SPLICES	3 - 3" × Ø.131"	
COLLAR TIE TO RAFTER	3-10d   4 - 3" × 0.131"	FACE NAIL
JACK RAFTER TO HIP	3-10d	TOE NAIL
	4 - 3" × Ø.131"	
	2-16d   3 - 3" × Ø.131"	FACE NAIL
ROOF RAFTER TO 2 × RIDGE BEAM	2-16d	TOE NAIL #
	3 - 3" × Ø.131"	FACE NAIL
JOIST TO BAND JOIST	3-16d 4 - 3" × 0.131"	FACE NAIL
LEDGER STRIP	3-16d	FACE NAIL
	4 - 3" × Ø.131"	
3/4" OR LESS WOOD STRUCTURAL	6d at 12" o.c.	INTERMEDIATE
PANEL WALL, SUBFLOOR, & ROOF SHEATHING:	6d at 6" o.c. 2 3/8" x Ø.113 AT 8" o.c.	EDGES INTERMEDIATE
	2 3/8" x Ø.113 AT 4" o.c.	
7/8" TO I" WOOD STRUCTURAL PANEL		INTERMEDIATE
WALL, SUBFLOOR, & ROOF SHEATHING:	8d at 6" o.c. 2 1/2" x Ø.131 AT 8" o.c.	EDGES INTERMEDIATE
· · · · · · · · · · · · · · · · · · ·	2 3/8" x Ø.131 AT 4" o.c.	
1/8" TO   1/4" WOOD STRUCTURAL	8d at 12" o.c.	INTERMEDIATE
PANEL WALL, SUBFLOOR, & ROOF SHEATHING	10d at 6" o.c.	EDGES
	3" x Ø.148 AT 8" o.c. 3" x Ø.148 AT 4" o.c.	INTERMEDIATE EDGES
HARDBOARD SIDING	8d at 6" o.c.	INTERMEDIATE
	8d at 12" o.c.	EDGES
1/2" GYPSUM SHEATHING	6d at 8" o.c. 6d at 4" o.c.	INTERMEDIATE EDGES
5/8" GYPSUM SHEATHING	8d at 8" o.c.	INTERMEDIATE
	8d at 4" o.c.	EDGES
WOOD I JOISTS AT EACH END AND	8d each side	FACE NAIL
BEARING POINT	İ	
NOTE:		

**FASTENING SCHEDULE** 

I. ON ½" GYPSUM SHEATHING, 1½" TYPE W OR S SCREWS MAY BE USED IN LIEU OF NAILS. ON 1/8" SHEATHING, THE SCREWS ARE TO BE 1 %" LONG. THE SPACING IS THE SAME AS THE NAILS. I

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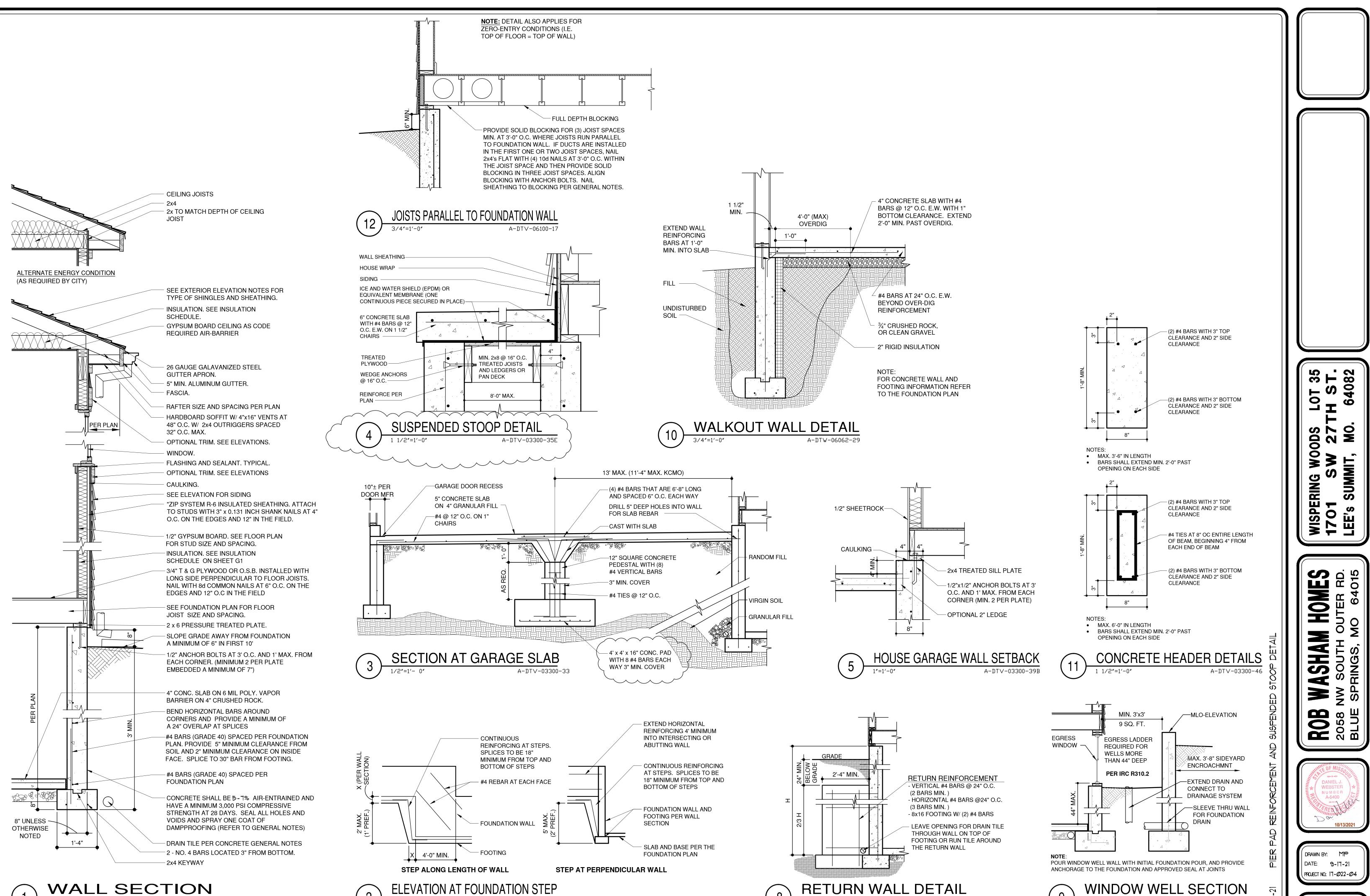
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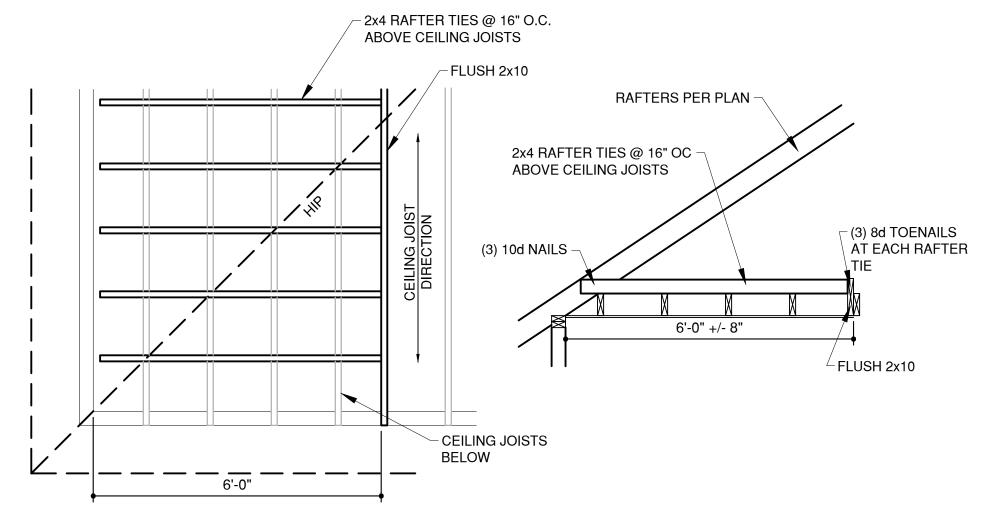
PROJECT NO: 17-022-04

A-DTW-06062-26

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

MINIMUM WALL STUD FRAMING NORMAL SIZE AND GRADE	MAXIMUM PONY WALL HEIGHT (feet)	MAXIMUM TOTAL WALL HEIGHT (feet)	MAXIMUM OPENING WIDTH (feet)	TENSION STRAP CAPACITY REQUIRED (pounds) a,b					
				ULTIMATE DESIGN WIND SPEED (mph)					
				110	115	130	110	115	130
				EXPOSURE B		EXPOSURE C			
	0	10	18	1,000	1,000	1,000	1,000	1,000	1,050
		10	9	1,000	1,000	1,000	1,000	1,000	1,750
	1		16	1,000	1,025	2,050	2,075	2,500	3,950
			18	1,200	1,275	2,375	2,400	2,850	DR
		10	9	1,000	1,000	1,475	1,500	1.875	3,125
	2		16	1,775	2,175	3,525	3,550	4,125	DR
2 x 4 NO. 2 GRADE			18	2,075	2,500	3,950	3,975	DR	DR
			9	1,150	1,500	2,650	2,675	3,175	DR
	2	12	16	2,875	3,375	DR	DR	DR	DR
			18	3,425	3,975	DR	DR	DR	DR
	4	12	9	2,275	2,750	DR	DR	DR	DR
			12	3,225	3,775	DR	DR	DR	DR
a a atur arang			9	1,000	1,000	1,700	1,700	2,025	3,050
	2	12	16	1,825	2,150	3,225	3,225	3,675	DR
			18	2,200	2,550	3,725	3,750	DR	DR
2 x 6 STUD GRADE			9	1,450	1,750	2,700	2,725	3,125	DR
	4	12	16	2,050	2,400	DR	DR	DR	DR
			18	3,50	3,800	DR	DR	DR	DR

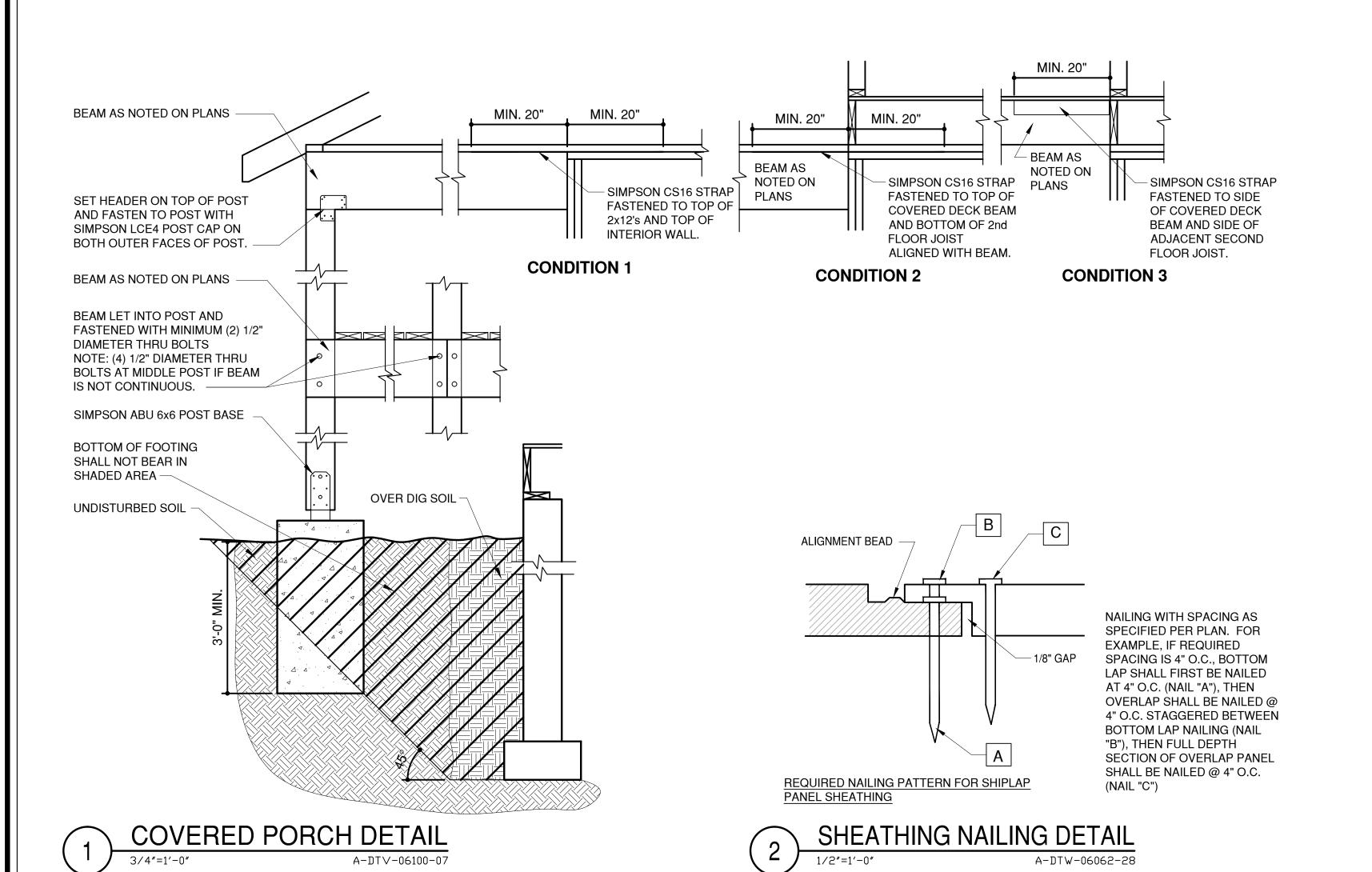
a. DR = DESIGN REQUIREDb. STRAP SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.



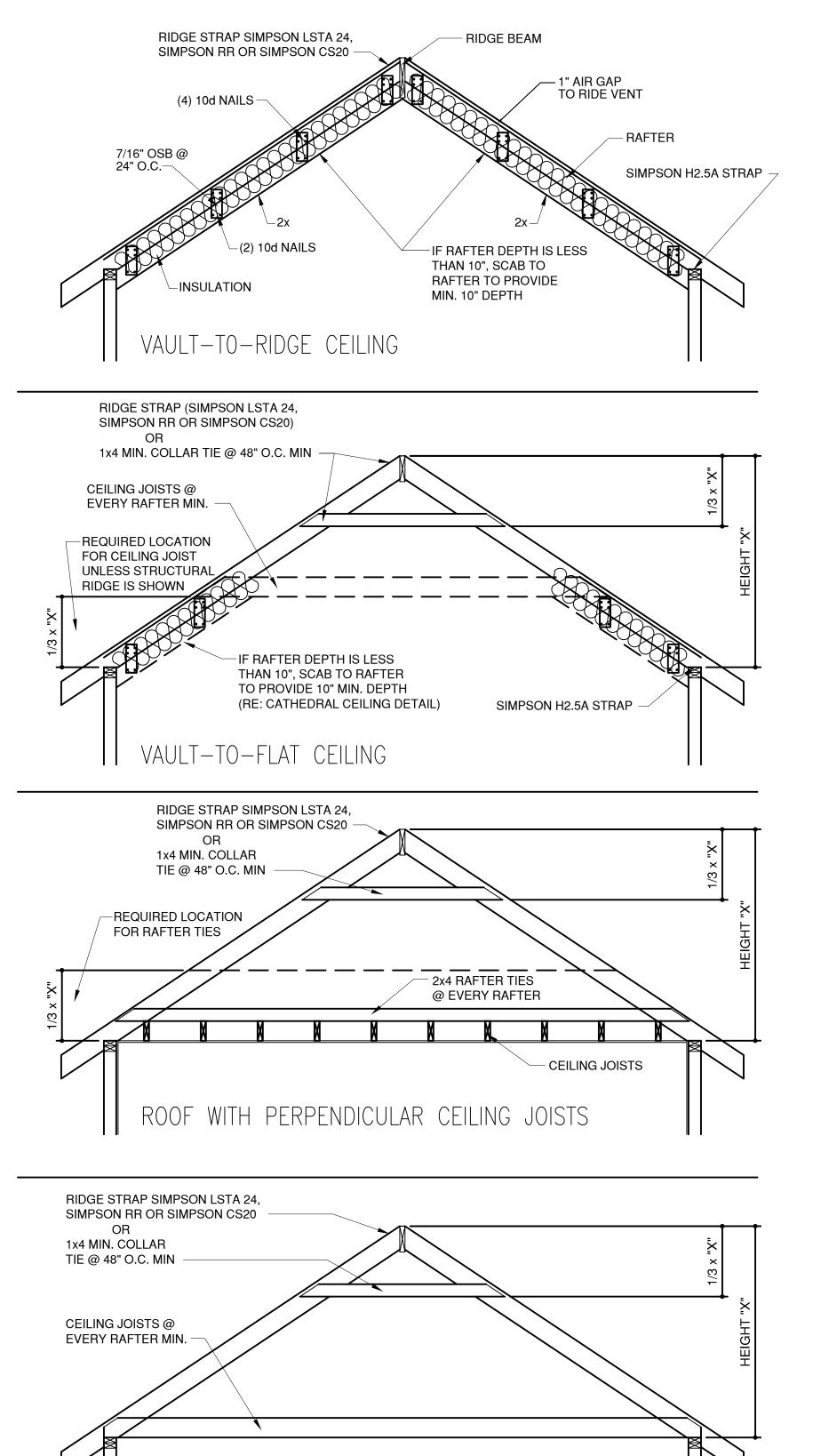
ROOF W/ PERPENDICULAR CEILING JOISTS

1/2"=1'-0"

A-DTV-06100-09



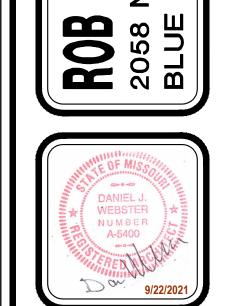
2-9-21



ROOF WITH PARALLEL CEILING JOISTS

A-DTV-06100-04

**ROOF FRAMING DETAIL** 



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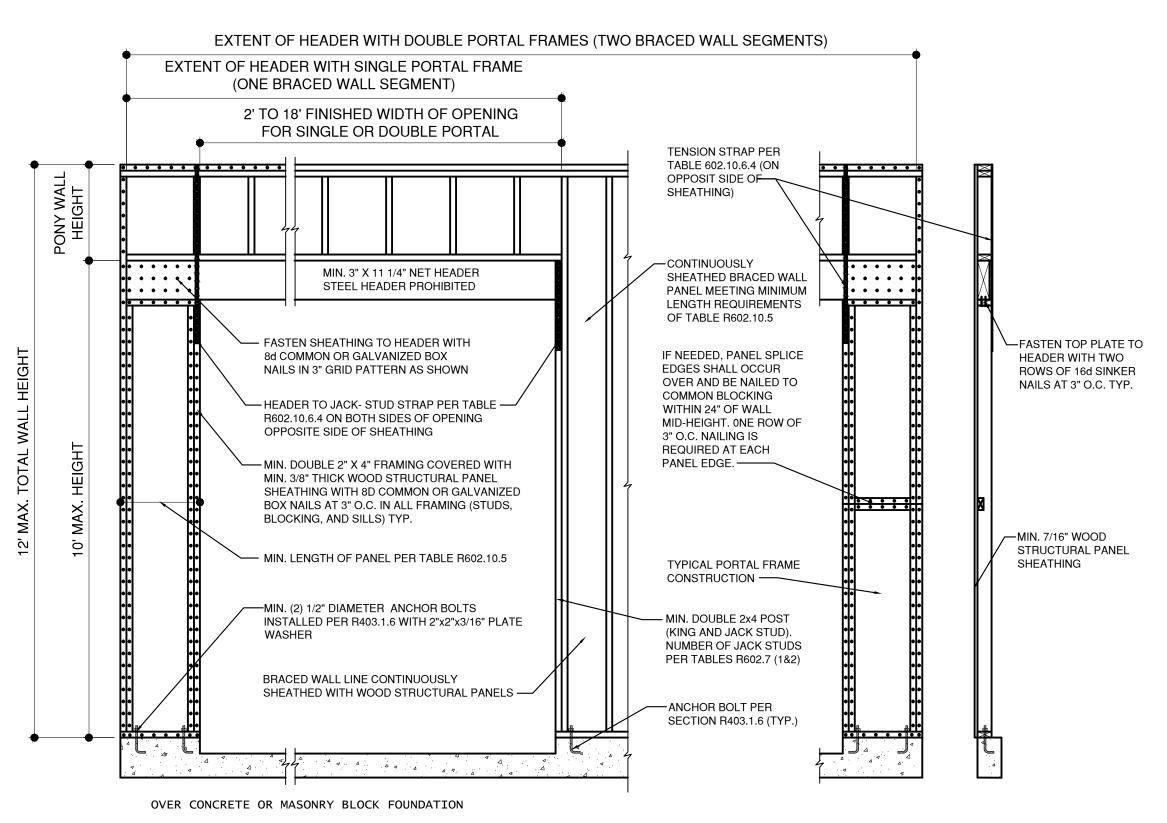
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SHEET NO.

ROOF FRAMING TO COMPLY WITH SECTIONS

R802, R802.3, R802.3.1 AND R802.11



END CONDITION 1 END CONDITION 2 BRACED WALL LINE BRACED WALL LINE END CONDITION 3 END CONDITION 4 REQUIREMENTS CONTINUOUSLY SHEATHED
BRACED WALL LINE 10' MAX. RETURN PANEL: 24" for braced wall lines sheathed with 32" for braced wall lines sheathed with structural fiberboard DISTANCE D: 24" for braced wall lines sheathed with wood structural panels structural fiberboard 800 lbs capacity fastened to the edge of the HOLD DOWN DEVICE braced wall panel closest to the corner and to the foundation or floor framing below

END CONDITION 5

BRACED WALL SCHEDULE 2-9-21 METHOD NUMBER **FASTENERS** DESCRIPTION MINIMUM LENGTH LET-IN-BRACING: METAL STRAPS TO FORM "X" OR "V" AS REQUIRED TO ALLOW BRACE TO BE CONTINUOUS FROM PLATE TO PLATE AND AT AN | PER MANUFACTURER'S REQUIREMENTS INSTALLED PER MANUFACTURED (SIMPSON: WB126C, TWB12, WB143C) (USP: RWB114, WBT12) ANGLE BETWEEN 45° TO 60° FROM HORIZONTAL 6d COMMON NAILS, WOOD STRUCTURAL PANEL- 3/8" THICK (MIN.) FOR STUDS AT 16" 6" O.C. AT EDGES AND 12" O.C. AT WSP O.C. (APA EXP. I- PLYWOOD/ O.S.B./ ETC.) INTERMEDIATES 6d COMMON NAILS, 8d COMMON NAILS -CONTINUOUS SHEATHING- WOOD STRUCTURAL PANEL: 3/8" CONTINUOUS ON ALL EXTERIOR WALLS 6" O.C. AT EDGES AND 12" O.C. AT THICK (MIN.) (APA EXP. I- PLYWOOD/ O.S.B.) INTERMEDIATES 96" IF GYP. BOARD 1 SIDE 6d NAILS OR 1-1/4" SCREWS (TYPE W OR S)- 7" 48" IF GYP. BOARD 2 SIDES (STUDS AT O.C. AT EDGES AND 7" O.C. AT INTERMEDIATES GYPSUM BOARD: 1/2" THICK MIN. 16" O.C. MAX. FOR 48" LONG PANELS) (CAN SUBSTITUTE COOLER NAILS) SEE DETAIL 1/G3 FOR MIN. WALL PORTAL FRAME GARAGE: WITH HOLD-DOWNS PER DETAIL 1/G3 PFH/PFG LENGTH PFG MIN. 7/16" PFH MIN. 3/8" SEE DETAIL 1/G3 FOR MIN. WALL PER DETAIL 1/G3 CONTINUOUS SHEATHING- PORTAL FRAME LENGTH A. SEE XXX ON BRACED WALL PLAN FOR BRACED WALL METHOD.

### FRONT ELEVATION **SECTION** ATTACH SHEATHING TO BAND OR RIM JOIST WITH NAIL SOLE PLATE TO -NAIL SOLE PLATE SHEATHING CONTINUOUS 8D COMMON NAILS AT 3" JOIST PER TABLE TO JOIST PER OVER BAND OR RIM JOIST O.C. TOP AND BOTTOM — TABLE R602.3(1) -APPROVED BAND - WOOD STRUCTURAL PANEL SHEATHING CONTINUOUS OVER BAND OR RIM JOIST -OVER RAISED WOOD FLOOR - OVERLAP OPTION (WHEN PORTAL SHEATHING LAPS OVER BAND OR RIM BOARD)

METHOD CS-PF BRACED WALL

1/2" = 1'-0"

A-DTE-06100-25 PF

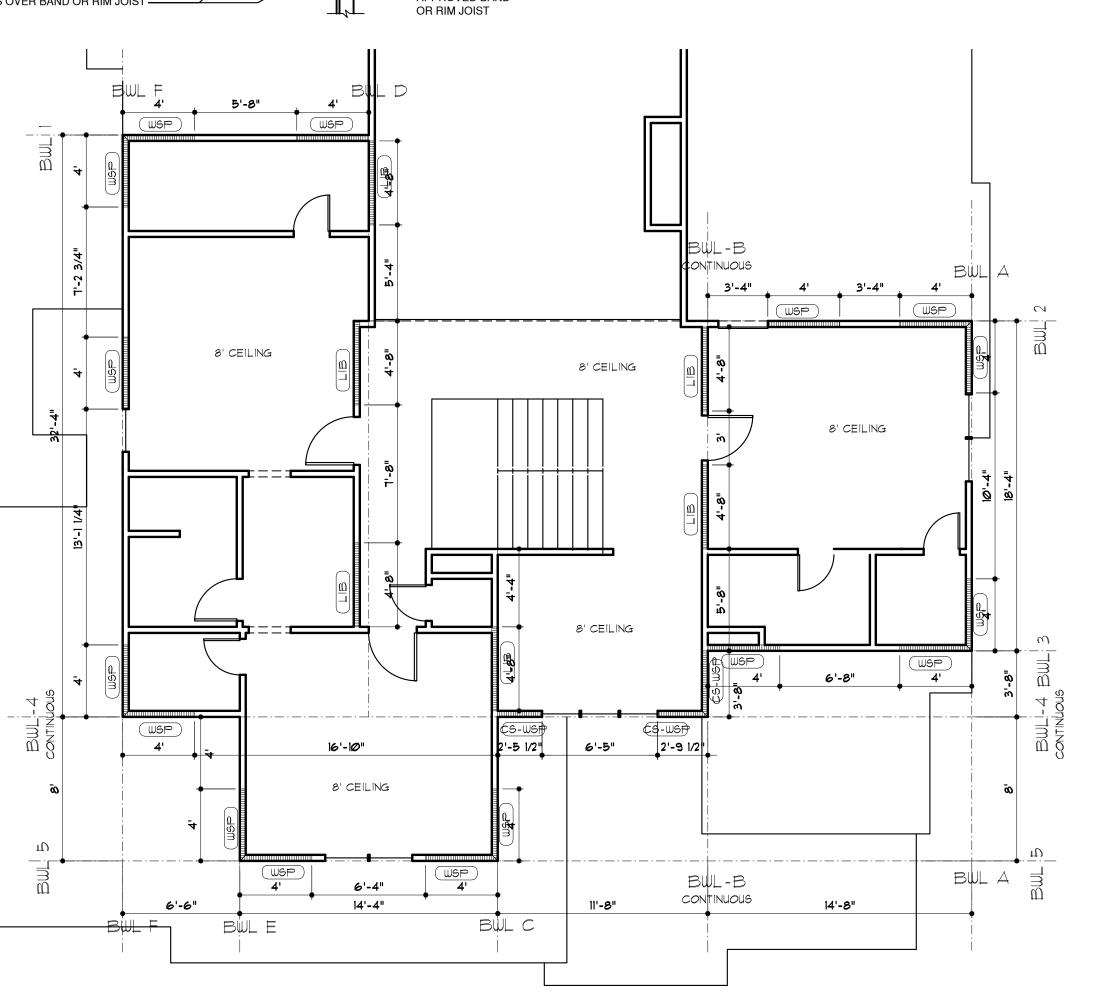
# BRACED WALL DESIGN:

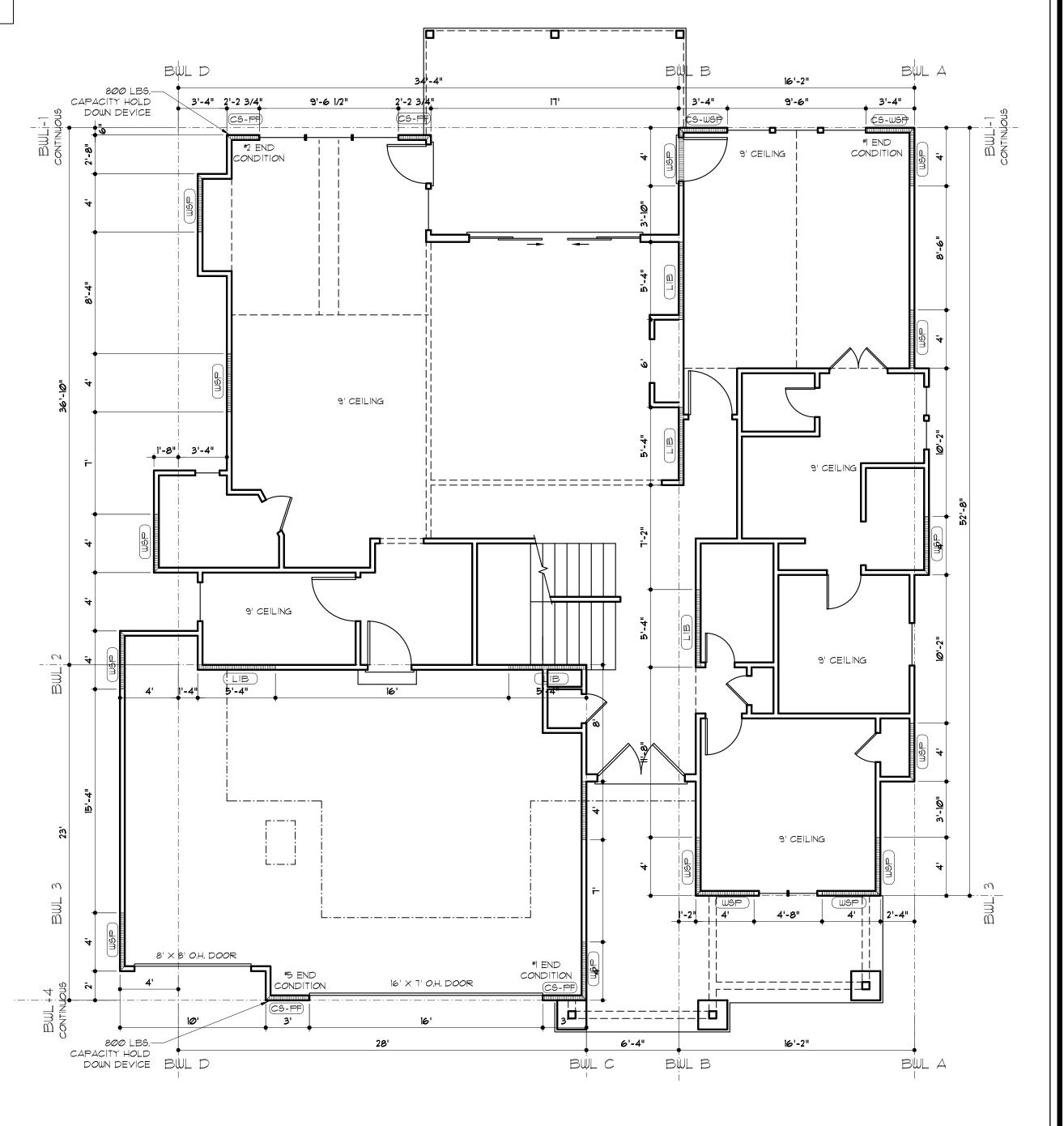
A. THE CONTINUOUSLY SHEATHED (CS-WSP) BRACED WALL METHOD HAS BEEN USED ON ALL EXTERIOR WALLS PER THE I.R.C.

B. AT EXTERIOR WALLS AND AT THE WALL BETWEEN THE GARAGE AND THE LIVING SPACE, ATTACH WALL SOLE PLATE TO ALL RIM JOISTS (THROUGH SUB-FLOOR) WITH 16d COMMON (0.162"x3 1/2") NAILS @ 12" O.C.

C. ALL EXTERIOR WALLS SHALL BE SHEATHED PER ONE OF THE FOLLOWING OPTIONS:

- 1/6" APA-RATED PLYWOOD/OSB WITH 8d NAILS @ 4" O.C. AT EDGES AND @ 12" O.C. IN THE FIELD
- 1/6" SHIPLAP PANEL SHEATHING (I.E. LP SMARTSIDE OR EQUIVALENT) WITH 8d NAILS @ 4" O.C. AT EDGES AND @ 12" O.C. IN THE FIELD PER DETAIL 2/G3
- 36" SHIPLAP PANEL SHEATHING (I.E. LP SMARTSIDE OR EQUIVALENT) WITH 6d NAILS @ 3" O.C. AT EDGES AND @ 12" O.C. IN THE FIELD PER DETAIL 2/G3





SECOND FLOOR DIAGRAM

FIRST FLOOR DIAGRAM

DANIEL J.
WEBSTER
NUMBER
A-5400
9/22/2021

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DATE: 9-17-21

PROJECT NO: 17-022-04

SHEET NO.