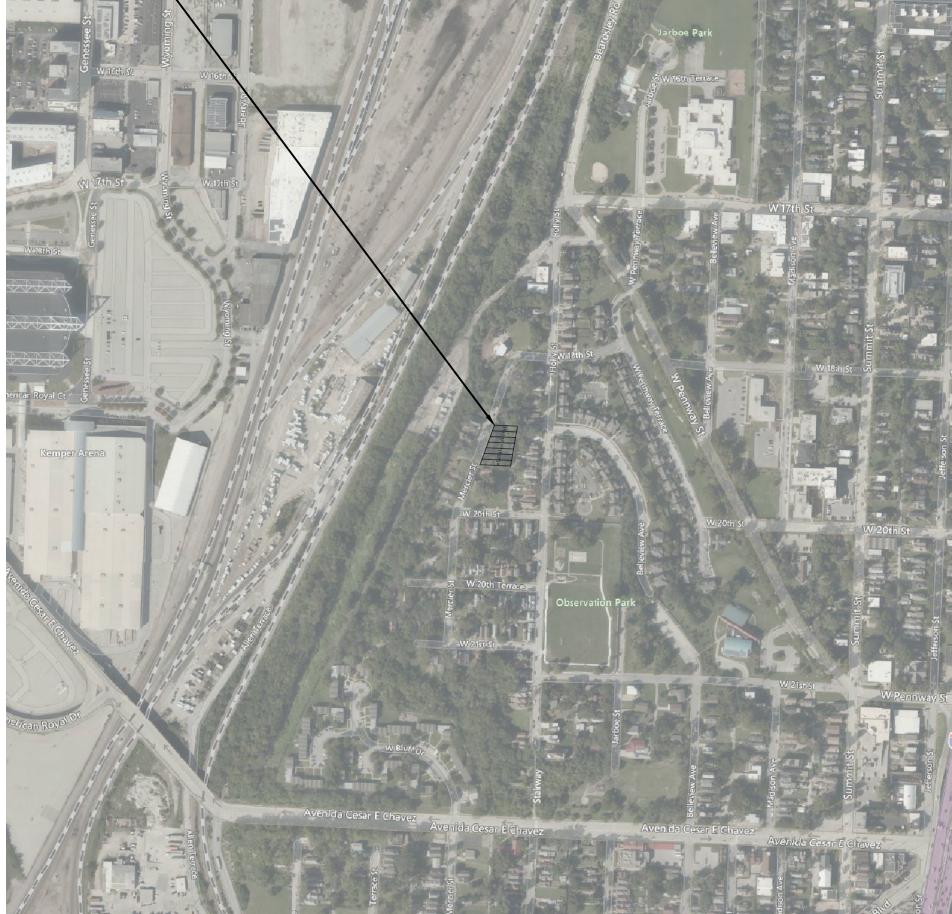
18TH & MERCIER LAMBIE PROPERTY DEVELOPMENT PLAN & PRELIMINARY PLAT

SECTION 07, TOWNSHIP 49N, RANGE 33W IN KANSAS CITY, JACKSON COUNTY, MO

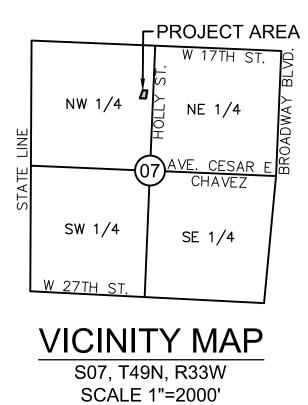
PROJECT TEAM CONTACT LIST

1301 BURLINGTON, SUITE 100 NORTH KANSAS CITY, MO 64116 CONTACT: CHRIS HOLMQUIST PHONE: 816.361.1177 EMAIL: CHOLMQUIST@OLSSON.COM



PROPERTY DESCRIPTION:

LOTS 99, 100, 101, 102, 103, 104, 105, BLOCK 3, RESURVEY OF WHIPPLE'S SECOND ADDITION, A SUBDIVISION IN KANSAS CITY, JACKSON COUNTY, MISSOURI, ACCORDING TO THE RECORDED PLAT THEREOF.



THIS PLAN **APPROVED** BY ORDINANCE No. 210455 July 15, 2021

INDEX OF SHEETS

ITTLE STILLT	100
EXISTING CONDITIONS	C1
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DETAILS	G2
BRACED WALL DETAILS	G3
NEIGHBORHOOD SKETCH RENDERING	

THE PURPOSE OF THIS PLAN IS TO REPLAT EXISTING LOTS WITHIN THE RESURVEY OF WHIPPLES 2ND WITHIN THE R-6 DISTRICT. NO NEW PUBLIC INFRASTRUCTURE IMPROVEMENTS, BUILDING SETBACKS, OR LOTS ARE PROPOSED WITH THIS PLAN.

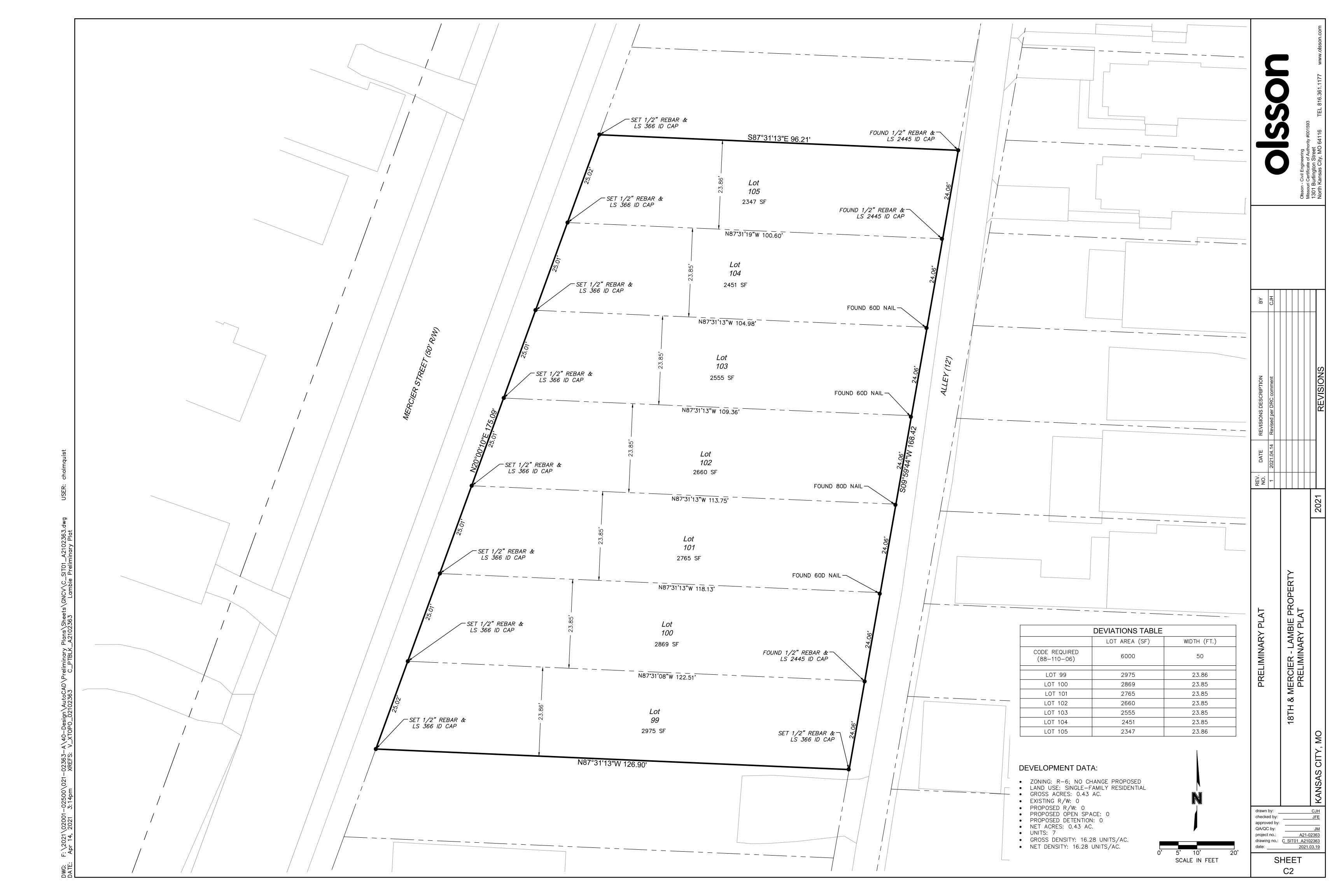
DEVIATIONS ARE REQUESTED FOR R-6 DISTRICT LOT WIDTH AND LOT AREA STANDARDS. R-6 STANDARDS REQUIRE 50' MINIMUM LOT WIDTH AND 6000 SQUARE FEET MINIMUM LOT AREA. SEE DEVIATIONS TABLE ON SHEET C2 FOR MORE INFORMATION.

QA/QC by: project no.: A21-02363 drawing no.: C TTL01 A2102363 date: 2021.03.19

SHEET

DATE:







SHEET NO. AO

DESCRIPTI	O N	SYMBOL
INTERIOR LO	DAD BEARING WALL	<u></u>
STONE OR E	BRICK VENEER	<u>'''''''''''</u>
JOIST SIZE A	AND DIRECTION	FJ-XX
HEADER/ BEAM	SIZE OF MEMBER PER HEADER/ BEAM SCHEDULE - NUMBER OF PLYS	(A 2) U
CENTERLINE		
POINT LOAD)	•
	JINDOW FRAME SIZE IN INCHES RAL NOTES BELOW)	⊐ 2941 ⊏
SMOKE ALA	RM	(\$)
SMOKE & CA	ARBON MONOXIDE ALARM	ÍSCI

HEADE	HEADER / BEAM SCHEDULE					
MARK	LUMBER SIZE	MARK	L.Y.L. SIZE			
A	2 x 6	Œ	1 ³ 4" × 7 ¹ 4"			
B	2 x 8	(H)	134" x 91/2" (NOTE 3)			
C	2 × 10	G	1 ³ 4" x 11 ⁷ 6"			
Ð	2 x 12	E	1 ³ 4" × 14"			
		9	1 ³ 4" × 16"			
		K	1 ³ 4" x 18"			

ALL HEADERS IN EXTERIOR AND IN INTERIOR LOAD BEARING WALLS ARE TO BE TYPE "C 2" UN.O. 2. HEADERS SHALL HAVE 1 KING AND 1 TRIMMER STUD U.N.O. BEAMS SHALL HAVE 2 BEARING STUDS BELOW EACH END U.N.O. SOLID BLOCKING BELOW. 3. FOR L.V.L. BEAMS IN 2x10 FLOORS, USE 9 1/4" L.V.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-18	LUMBER		2x12	16" O.C.	
FJ-19	LUMBER		2x12	24" O.C.	
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 1-JOISTS (LOADED W/ TOTAL LIVE AND DEAD LOAD) WITH A MAX. DEFLECTION OF L/360, EXCEPT BELOW BATHROOMS AND TILED AREAS					

MARK	CONCRET	E WALL	REINFORCING	GRADE 40
	THICKNESS	HEIGHT	VERTICAL	HORIZONTAL
\Diamond	8"	4' OR LESS	*4's AT 36" O.C.	2 - #4's
♦	8"	4' TO 6'	*4's AT 36" O.C.	3 - *4's
	8"	6' TO 8'	*4's AT 16" O.C.	4 - * 4's
♦	8"	8'	*4's AT 16" O.C.	4 - * 4's
€>	8"	9'	*4's AT 12" O.C.	5 - *4's
₹>	10"	4'	*4's AT 36"O.C.	2 - #4's
Ġ	10"	8'	*4's AT 36" O.C.	4 - * 4's
(10"	9'	*4's AT 16" O.C.	5 - *4's
\bigcirc	10"	10'	*4's AT 12" O.C.	6 - #4's

WHERE THE DEFLECTION SHALL BE L/480 MAX.

GENERAL NOTES:

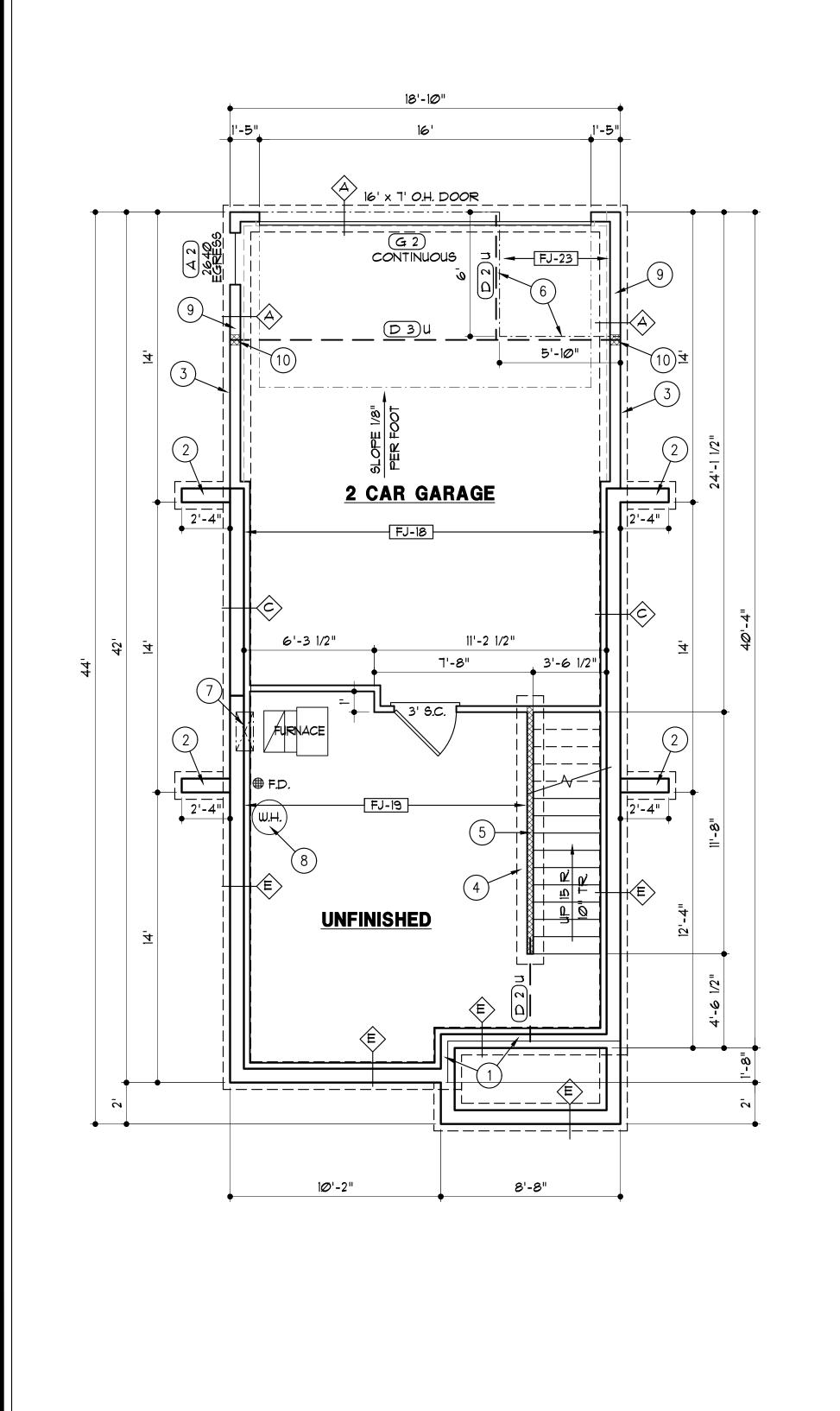
A. EXTERIOR FRAMED WALLS ARE 2×6 STUDS AT 16"
O.C. UNLESS NOTED OTHERWISE.

B. INSTALL 1/2" ANCHOR BOLTS WITH 7" MIN. EMBEDMENT AT 3'-0" O.C. MAX. WHERE THE CONC. WALL IS FULL HEIGHT AND 6'-0" O.C. MAX. WHERE THE WALL IS PARTIAL HEIGHT OR AT WALK-OUT CONDITIONS AND WITHIN 6"-12" OF THE END OF THE SILL PLATE.

C. FOR DECK (OR COVERED DECK) FRAMING - SEE DETAIL 1/G3

FOUNDATION PLAN NOTES

- CONCRETE PORCH SET BACK SEE DETAIL 4/G2
- 2. RETURN WALL SEE DETAIL 8/G2
- 3. STEP FOUNDATION & FOOTING AS REQUIRED BY SITE
- 4. 16" WIDE \times 8" DEEP CONCRETE FOOTING W/2-#4 BARS CONTINUOUS
- 5. 2x4 STUDS @ 16" O.C. WITH TREATED SILL PLATE.
- 6. EDGE OF WALL LINE ABOVE
- 7. HYAC CHASE ABOVE
- 8. PROVIDE THERMAL EXPANSION CONTROL DEVICE.
- 9. 2x6 STUDS @ 16" O.C. WITH TREATED SILL PLATE.
- 10. (4) STUDS FOR BEARING



SQUARE FOOTAGE TABLE				
LOCATION	AREA (S.F.)			
FIRST FLOOR	739			
SECOND FLOOR	731			
TOTAL	1470			
GARAGE	442			
BASEMENT (UNFINISHED)	333			
DECK	35			

GENERAL NOTES:

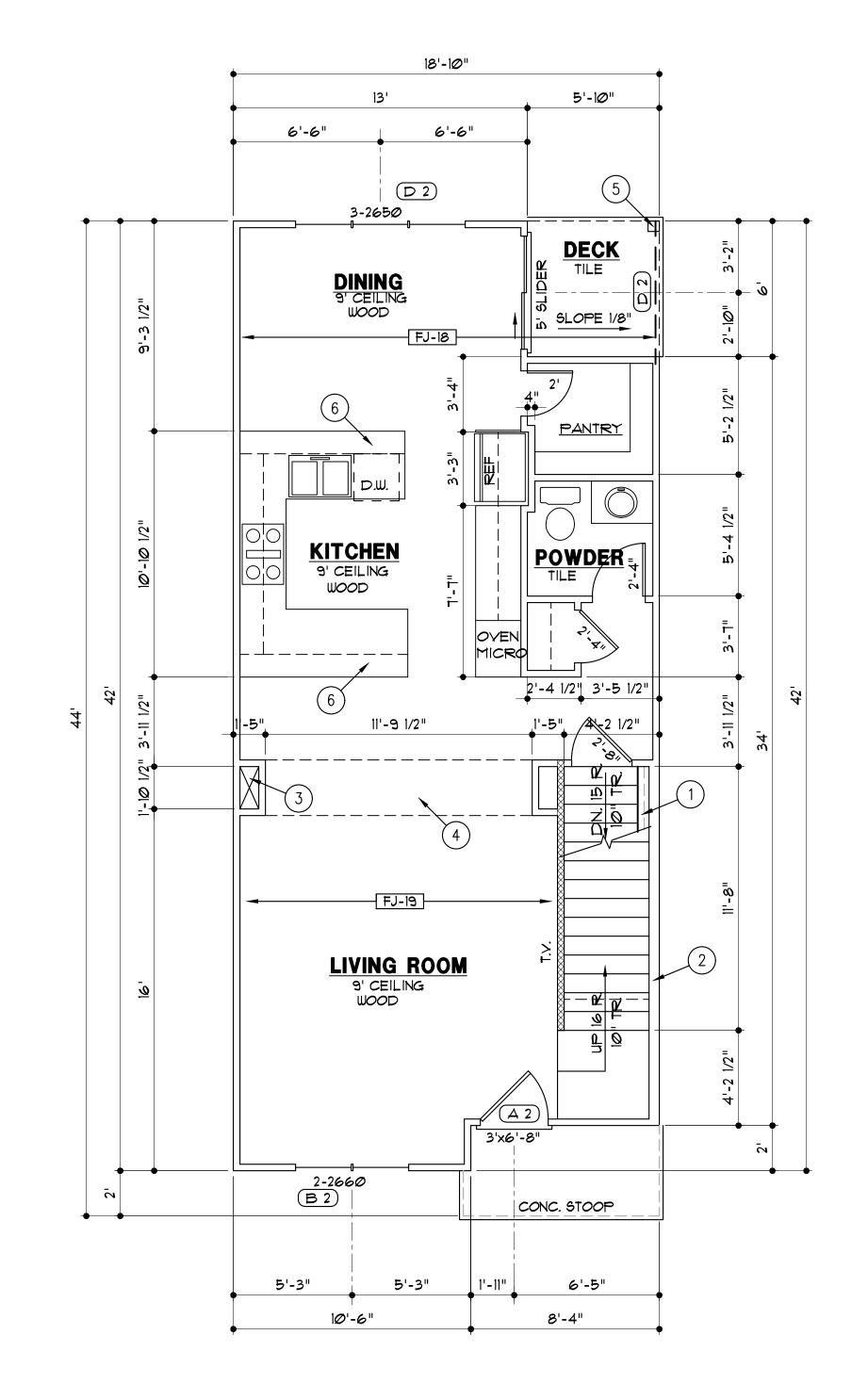
A. WINDOW SIZES SHOWN ARE APPROXIMATE. THE BUILDER SHALL SELECT WINDOWS TO MEET BUILDING CODE REQUIREMENTS AND TO FIT IN THE AVAILABLE SPACE. OVERALL ROUGH OPENINGS FOR MULLED UNITS WILL VARY BY WINDOW/ DOOR MANUFACTURER. SEE GENERAL NOTES ON SHEET GI FOR ADDITIONAL WINDOW REQUIREMENTS.

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

C. FOR COVERED DECK FRAMING - SEE DETAIL 5/G2

FLOOR PLAN NOTES

- 1. 4" FINISH WALL
- 2. 18'-2" TALL UNINTERUPTED STAIRWELL WALL, 2x6 STUDS AT 12" O.C.
- 3. HYAC CHASE
- 4. DROP CEILING 8"
- 5. 6x6 CEDAR POST
- 6. 12" OVERHANG ON COUNTERTOP. NO WALL CABINETS.



至 CUSTOM

^A1]

1st FLOOR PLAN

FOUNDATION PLAN

DESCRIPTION	ON	SYMBOL
INTERIOR LO	AD BEARING WALL	<u></u>
STONE OR B	RICK VENEER	7//////////////////////////////////////
JOIST SIZE A	ND DIRECTION	[FJ-XX]
HEADER/ BEAM	SIZE OF MEMBER PER HEADER/ BEAM SCHEDULE - NUMBER OF PLYS ————————————————————————————————————	<u> </u>
CENTERLINE		
POINT LOAD		•
	JINDOW FRAME SIZE IN INCHES RAL NOTES BELOW)	⊐ 2941 ⊏
SMOKE ALAF	ষ্প	\$
SMOKE & CA	RBON MONOXIDE ALARM	(SC)

HEADE	HEADER / BEAM SCHEDULE					
MARK	LUMBER SIZE	MARK	L.Y.L. SIZE			
A	2 x 6	E	1 ³ 4" × 7 ¹ 4"			
B	2 x 8	(H)	134" x 91/2" (NOTE 3)			
C	2 x 1Ø	G	1 ³ 4" x 11 ⁷ 8"			
Ф	2 x 12	\equiv	1 ³ / ₄ " × 14"			
		L	1 ³ 4" × 16"			
		K	1 ³ 4" x 18"			

ALL HEADERS IN EXTERIOR AND IN INTERIOR LOAD BEARING WALLS ARE TO BE TYPE "C 2" U.N.O. . HEADERS SHALL HAVE I KING AND I TRIMMER STUD U.N.O. BEAMS SHALL HAVE 2 BEARING STUDS BELOW EACH END U.N.O. SOLID BLOCKING BELOW. 3. FOR L.V.L. BEAMS IN 2x10 FLOORS, USE 9 1/4" L.V.L.

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"	NA
CJ-6	2x1Ø	16"	NA
CJ-T	2×4	24"	9'-10"
CJ-8	2x6	24"	14'-10"
CJ-9	2x8	24"	18'-9"
CJ-10	2x1Ø	24"	22'-11"

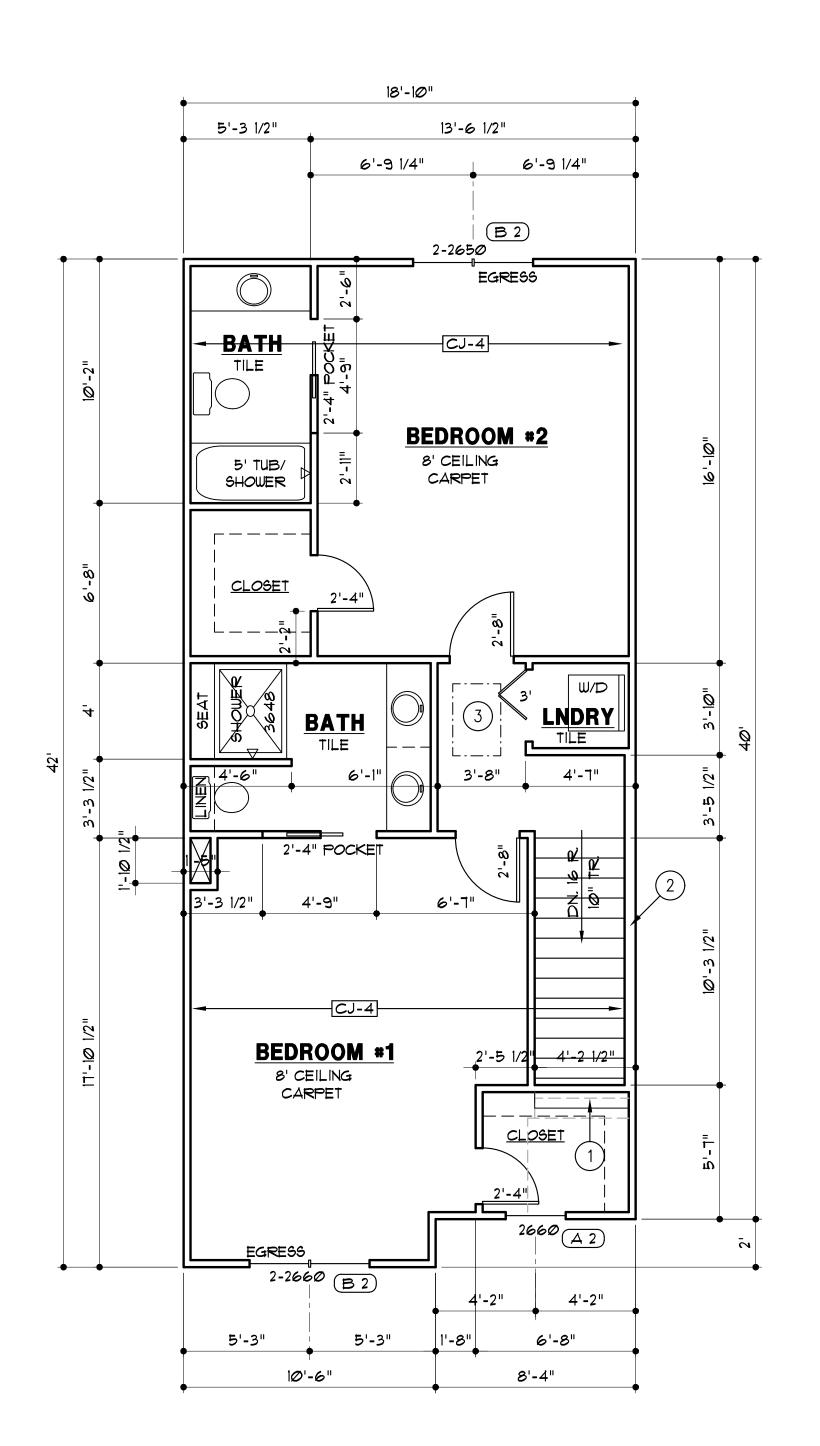
GENERAL NOTES:

A. WINDOW SIZES SHOWN ARE APPROXIMATE. THE BUILDER SHALL SELECT WINDOWS TO MEET BUILDING CODE REQUIREMENTS AND TO FIT IN THE AVAILABLE SPACE. OVERALL ROUGH OPENINGS FOR MULLED UNITS WILL VARY BY WINDOW/ DOOR MANUFACTURER. SEE GENERAL NOTES ON SHEET GI FOR ADDITIONAL WINDOW REQUIREMENTS.

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

FLOOR PLAN NOTES

- CLIP FLOOR FOR STAIR HEADROOM
- 2. 18'-2" TALL UNINTERUPTED STAIRWELL WALL, 2x6 STUDS AT 12" O.C.
- 3. 1'-10"x3' ATTIC ACCESS



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

OOF RAFTER SCHEDULE					
MARK	SIZE	SPACING	MAXIMUM S	PAN	
			FLAT CEILING	YAULTED CEILING	
ر - ا	2x6	12"	16'-7"	14'-9"	
₹ J-2	2×6	16"	14'-4"	12'-9"	
₹J-3	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	2x8	24"	14'-10	13'-2"	
ZJ-T	2x1Ø	12"	25'-8"	22'-9"	
RJ-8	2×1Ø	16"	22'-3"	19'-9"	
શ-૭	2×1Ø	24"	18'-2"	16'-1"	
RJ-10	2×12	16"	25'-9"	26'-5"	
ર્ય-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. NET ROOF UPLIFT = 15.4 PSF (WIND) -10 PSF (DEAD) = 5.4 PSF

D. PURLIN STRUT AND RIDGE POLES TO BE STRAPPED WITH SIMPSON CSIG STRAP AT TOP (FASTENED TO RIDGE/HIP/VALLEY) AND BOTTOM (FASTENED TO BEAM/WALL) UNLESS NOTED OTHERWISE (RE:DETAIL 11/63.4 AND 12/63.4).

E. FASTEN BOTTOM OF ALL HIPS & VALLEYS AT WALL WITH SIMPSON HTZ STRAP

F. FASTEN BOTTOM OF A RAFTERS TO WALL TOP PLATE WITH MIN. (3) 10d TOENAILS.

G. ALL HIP/VALLEY/RIDGE INTERSECTION POINTS SHALL BE BRACED TO BEARING BEAM OR WALL.

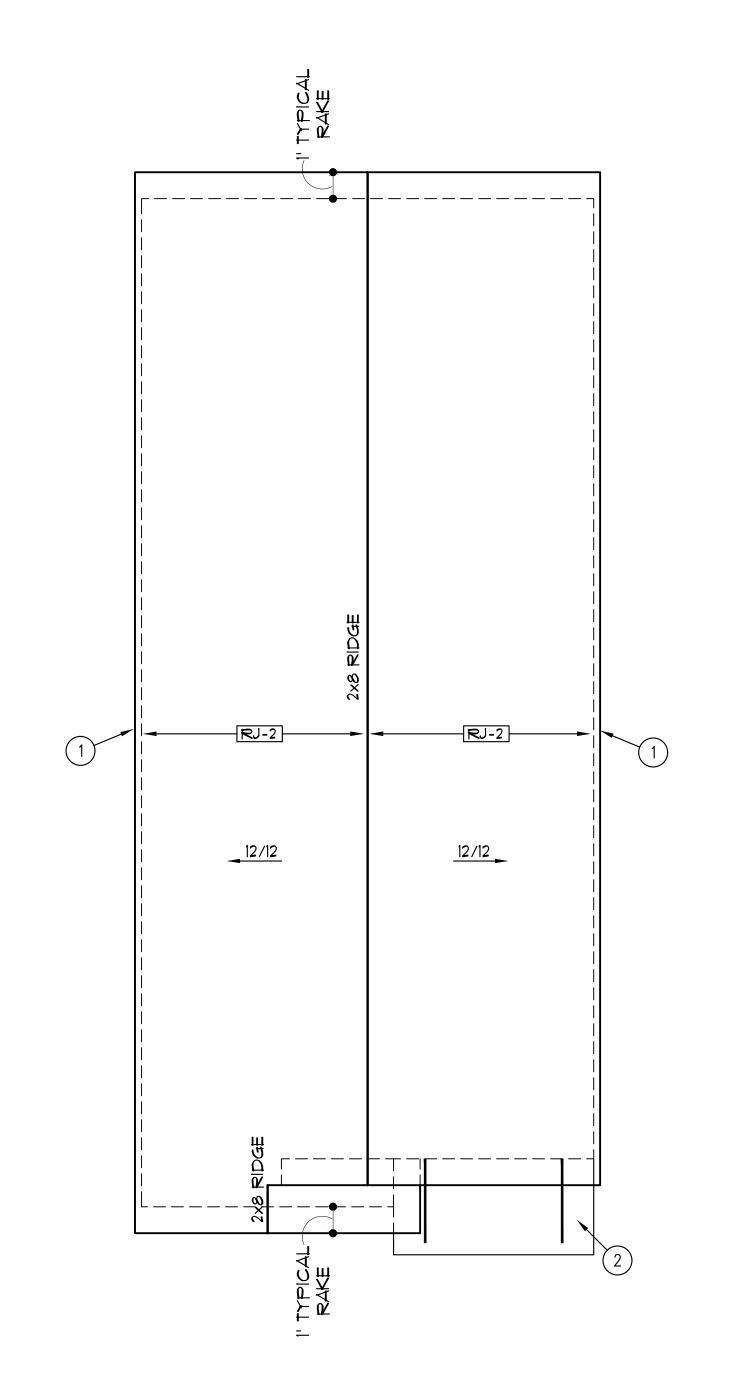
H. FASTEN RAFTERS AT 4'-0" O.C. MAX. TO WALL TOP PLATE WITH SIMPSON H2.5 HURRICANE CLIPS. A MINIMUM OF TWO HURRICANE CLIPS SHALL BE INSTALLED UNDER EACH SHEET OF ROOF SHEATHING.

I. ALL HIPS, VALLEYS AND RIDGES HAVE BEEN SIZED AS STRUCTURAL BEAMS TO SUPPORT ANY GRAVITY AND WIND LOADS IMPOSED UPON THEM. THEREFORE, NEED FOR HEEL JOINT CONNECTIONS (TABLE R802.51(9)) IS ELIMINATED.

J. WHERE CEILING JOISTS AND RAFTERS ARE FRAMED PERPENDICULAR TO EACH OTHER, FRAME PER DETAIL 10 OR 11/G2.

ROOF PLAN NOTES

- . TIGHT BARGE SOFFIT
- 2. METAL AWNING SEE DETAIL 2/A3



ROOF PLAN1/4" = 1'-0"

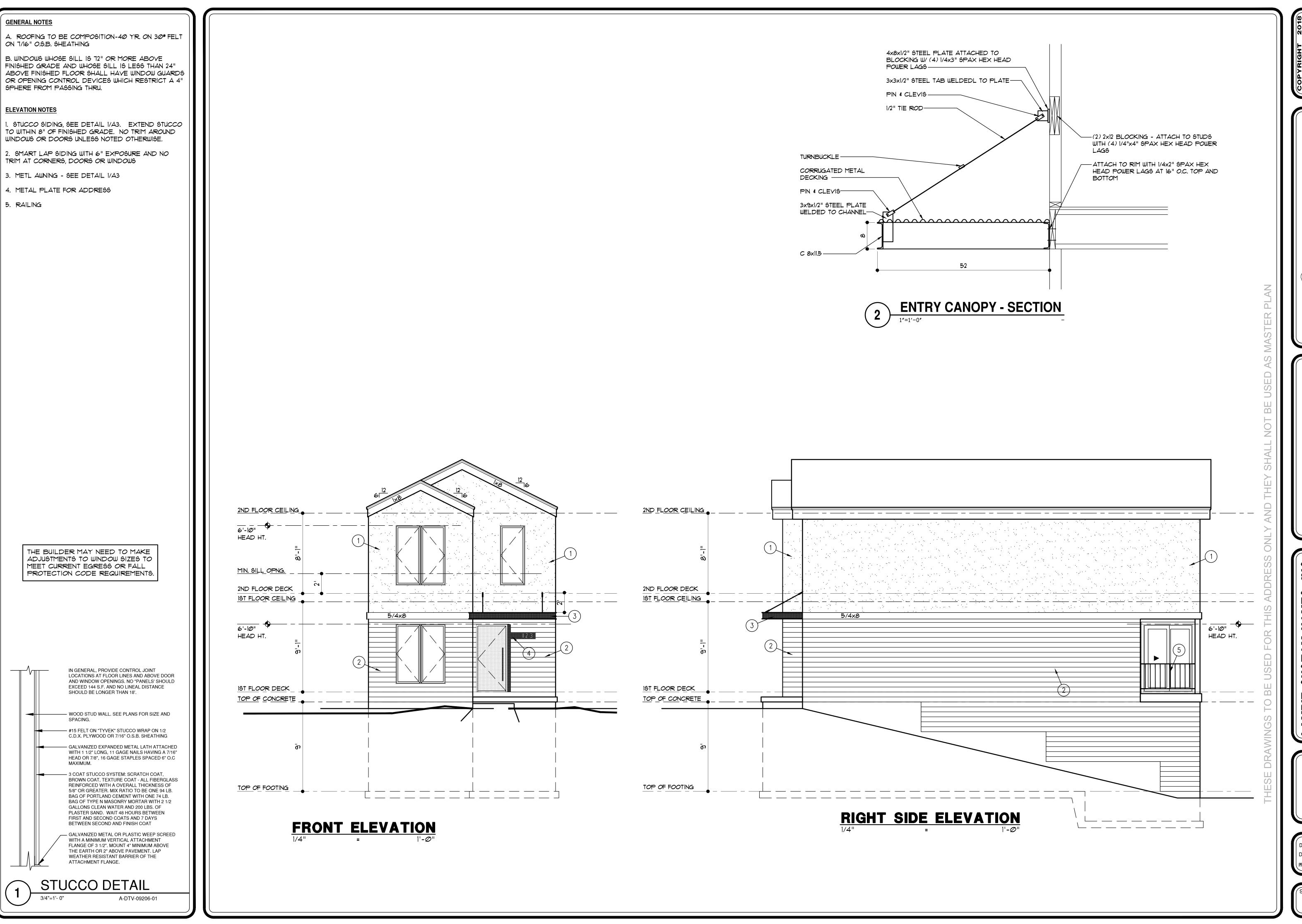


呈 CUSTON 151st ST.

PROJECT NO: 18-019-01



SECOND FLOOR PLAN



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BIDDING AND CONSTRUCTION
OF THIS SPECIFIC PROJECT.

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E CUSTOM HOMES, INC. 151st ST. • 913-897-0040
AND PARK, KS 66221

RAWN BY: MP, MS
ATE: 5/1/18
ROJECT NO: 18-019-01

SHEET NO.

GENERAL NOTES

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

B. WINDOWS WHOSE SILL IS 72" OR MORE ABOVE FINISHED GRADE AND WHOSE SILL IS LESS THAN 24" ABOYE FINISHED FLOOR SHALL HAVE WINDOW GUARDS OR OPENING CONTROL DEVICES WHICH RESTRICT A 4" SPHERE FROM PASSING THRU.

ELEVATION NOTES

. STUCCO SIDING, SEE DETAIL 1/A3. EXTEND STUCCO TO WITHIN 8" OF FINISHED GRADE. NO TRIM AROUND WINDOWS OR DOORS UNLESS NOTED OTHERWISE.

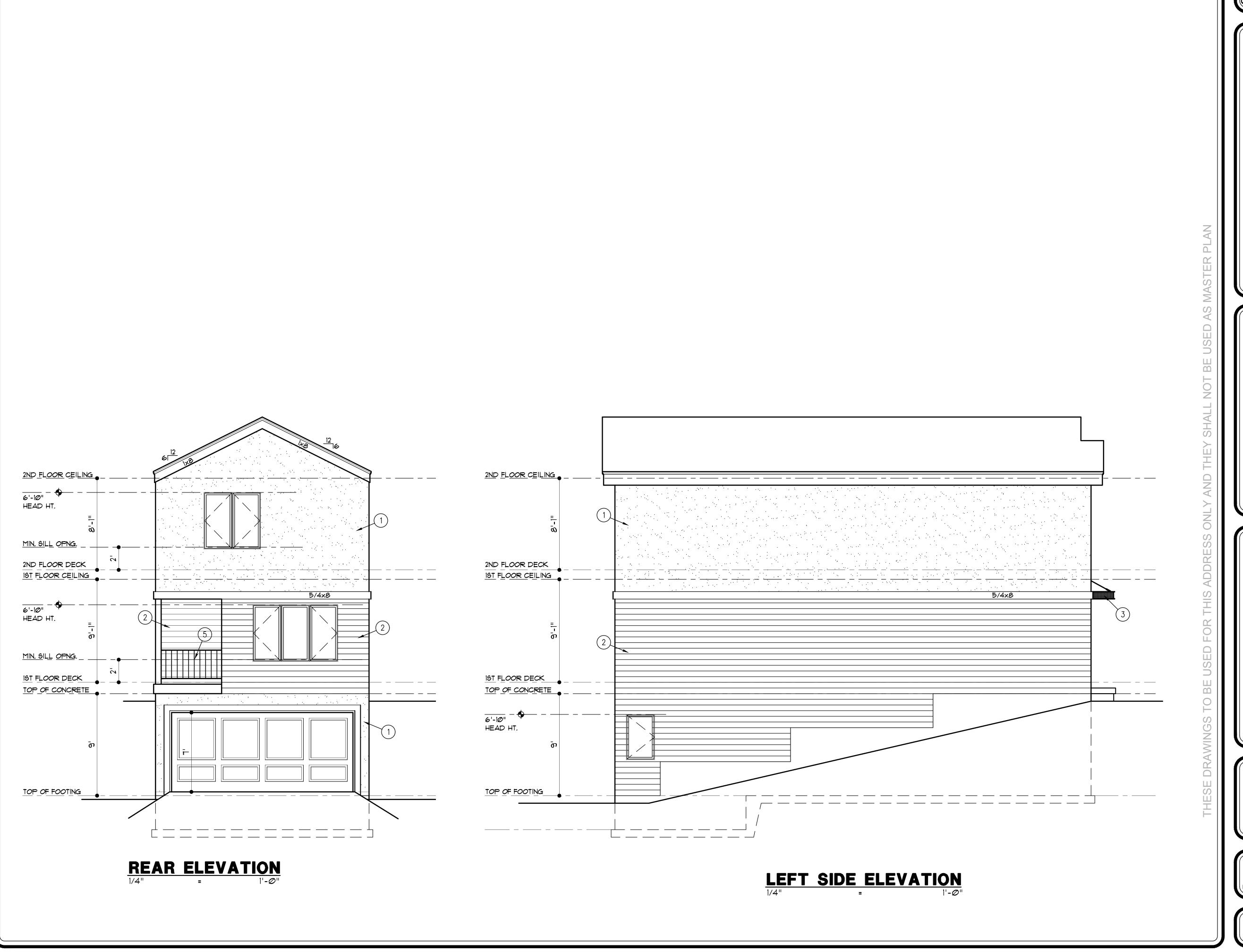
2. SMART LAP SIDING WITH 6" EXPOSURE AND NO TRIM AT CORNERS, DOORS OR WINDOWS

3. METL AWNING - SEE DETAIL 1/A3

4. METAL PLATE FOR ADDRESS

5. RAILING

THE BUILDER MAY NEED TO MAKE ADJUSTMENTS TO WINDOW SIZES TO MEET CURRENT EGRESS OR FALL PROTECTION CODE REQUIREMENTS.



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.

ARREVIATIONS

	<u>ABBREVIA</u>	<u>TIONS</u>
	F. 4	ABOVE FINISH FLOOR CHROMATED COPPER ARSENATE CONTROL JOINT CEILING CASED OPENING DRYER DOUBLE HUNG DIAMETER DOWN DISHWASHER EXPANSION JOINT EQUAL FLOOR DRAIN GAUGE OR GAGE GROUND FAULT CIRCUIT INTERRUPT HOSE BIB
		KNEE SPACE POUND LAMINATED VENEER LUMBER
	MAX.	MAXIMUM
		MINIMUM MICROWAYE OVEN ON CENTER
	PR.	OVERHEAD/ OVERHANG PAIR RISER
	REF. RM.	REFRIGERATOR ROOM
	R.O. S.F. SIM.	ROUGH OPENING SQUARE FEET SIMILAR
	5Q. T.	SQUARE TREAD
	T.C. T.Y. TYP.	TRASH COMPACTOR TELEVISION TYPICAL
	₩. ₩/ ₩.I.C.	WASHER WITH WALK IN CLOSET
J		

WATER HEATER

ww.f.

WELDED WIRE FABRIC

LOAD AND DEFLECTION LIMITATIONS				
		M	IIN. 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	
LOOKO	SLEEPING AREAS	3Ø	10 (20 FOR TILED FLRS	
ROOFS	WOOD OR COMPOSIT.	20	10 (20 IN LEAWOOD)	
ROOFS	TILE OR CONCRETE	20	20	
STAIRS	-	40	10	
HANDRAIL/ GUARDRAIL		200#	IN ANY DIRECTION	
NOTE:				

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

TILE FLOOR LOAD BASED ON THINSET METHOD.

OPENIN	NG MAXIMUM U-VALUE			
WINDOWS	.35			
OPAQUE	.35			
GLASS I	.40			
SKYLIGH	6			
BULDIN				
CEILING				
	WITH ATTIC	49		
	CATHEDRAL	38		
WALL				
	EXTERIOR 2x4 or 2x6	13 or 19		
	BASEMENT (CAVITY or CONTINUOUS)	13 or 10		
	CRAWL SPACE	10		
FLOORS				
	TRENCH FOOTINGS - HEATED SLAB	15		
	TRENCH FOOTINGS	10		
	OVER UNHEATED SPACES	19		
	OVER OUTSIDE AIR	3Ø		
DUCTS II	N UNHEATED SPACES - SUPPLY AND RETURN	8		
DUCTS IN	UNHEATED SPACES - IN FLOOR AND CEILING ASSEMBLY	6		
HOT WAT	TER SYSTEM PIPING	1" OF INSULATION		
FURNACE	E (AFUE)	80% MINIMUM		
AIR CON	IDITIONING (SEER)	13 MINIMUM		

CODE COMPLIANCE

4. BUILDING CONSTRUCTION: REGARDLESS OF WHAT IS SHOWN ON THE PLANS, THE BUILDING SHALL COMPLY WITH THE 2012 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 FIRM 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 9 SQUARE FOOT AND WHOSE BOTTOM EDGE IS LESS THAN 18" ABOVE THE FLOOR AND WALKING SURFACE WITHIN 36"

3. EXTERIOR WINDOWS AND DOORS SHALL BE DESIGNED TO RESIST WIND LOADS SPECIFIED IN IRC TABLE R3Ø1.2(4)A. EXTERIOR OVERHEAD DOORS SHALL MEET D.A.S.M.A. 90 MPH REQUIREMENTS

C. 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 HAVE 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. EXTEND ONE HANDRAIL 12" BEYOND THE TOP & BOTTOM RISER, 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 3/8" THICK SOLID WOOD, I 3/8" THICK MINIMUM SOLID CORE OR HONEY COMBED STEEL DOOR OR 20-MINUTE FIRE RATED, EQUIPPED WITH A SELF-CLOSING DEVICE.

G. ATTACHED GARAGE: CEILINGS AND BEAMS WITHIN THE GARAGE WILL BE COVERED WITH 5/8" TYPE "X" GYPSUM BOARD, IF SPACE ABOVE GARAGE IS LIVING SPACE.

4. 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.

. 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.

PANEL BOX SHOULD BE 200 AMP

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

ANY DUCT PENETRATIONS OF THE WALLS OR CEILING SEPERATING THE DWELLING FROM THE GARAGE SHALL BE CONSTRUCTED OF 26 GAUGE SHEET METAL WITH NO OPENINGS IN THE GARAGE.

CONCRETE NOTES

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) P. BASEMENT AND FOUNDATION WALLS: 3,000 PSI

3. PORCHES, CARPORT AND GARAGE FLOOR SLABS: 3,500

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 GRAYEL BED AND COYER 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 7 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.

GENERAL 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

C. DECKING TO BE $\frac{3}{4}$ " (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. IF REQUIRED BY CITY, 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 2 X 4'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

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 \times 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 × 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 90 mph WIND LOAD. THE H-FRAME FOR ATTACHMENT OF TRACK AND COUNTER BALANCE SHALL CONSIST OF THE FOLLOWING: 2x6 VERTICAL JAMBS RUNNING FROM FLOOR TO CEILING ATTACHES WITH 3-1/4"x12@ NAILS @ 7" O.C. STAGGERED WITH 7) 3-1/4"x12@ NAILS THRU JAMB INTO HEADER, MINIMUM 2x8 HEADER FOR ATTACHMENT OF COUNTER BALANCE SYSTEM.

FRAMING NOTES- DECKS

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

FRAMING NOTES- CEILING

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

. 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 VALLEYS 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 10, 11, \$ 12/G2).

D. RAFTER COLLAR TIES: PROVIDE IX4 MIN. COLLAR TIES AT 48" O.C. (RE: DETAIL 10, 11, \$ 12/G2). AT CATHEDRAL CEILINGS PROVIDE RIDGE STRAPS.

E. VAULTED 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.

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.

B. ROOF TRUSSES SHALL BE DESIGNED AND CONSTRUCTED FOR A MAXIMUM TOTAL LOAD DEFLECTION OF L/240, AND TO SAFELY SUPPORT THE FOLLOWING LOADS: 1. 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. 4. TRUSSES SHALL ALSO BE DESIGNED TO SUPPORT 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 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 TABLE R802.11.

ENERGY REQUIREMENTS

A. 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 SPACES

C. DUCTS, AIR HANDLERS, FILTER BOXES AND BUILDING CAVITIES USED AS DUCTS SHALL BE SEALED (IRC SECTION NIIØ3,2)

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

D. FOR CITY OF OLATHE (BUILDER CHECK ONE):

☐ THE ENERGY AUDIT METHOD OF COMPLIANCE FOR THE 2009 ENERGY CODE SHALL BE FOLLOWED.

THE 2012 ENERGY CODE SHALL BE FOLLOWED.

THE PRESCRIPTIVE METHOD FOR COMPLIANCE WITH

LOCATION CONNECTION JOIST TO SILL OR GIRDER OENAIL 3 - 3" x Ø.131" BRIDGING TO JOIST $2 - 3" \times \emptyset.131"$ SOLE PLATE TO JOIST OR BLOCKING 16d at 16" o.c. 3-3" x Ø.131 at 8" o.c. |SOLE PLATE TO JOIST / BLOCKING: | 3-16d at 16" o.c. | FACE NA AT BRACED WALL PANELS 4 -3" x Ø.131 at 16" o.c. TOP PLATE TO STUD 3 - 3" x Ø.131" STUD TO SOLE PLATE 1-800ENAIL 4 - 3" x Ø.131" 3 - 3" x Ø.131" DOUBLE STUDS 16d at 24" o.c. IFACE NA 3" x Ø.131 at 8" o.c DOUBLE TOP PLATES 16d at 24" o.c. 3" x Ø.131 at 12" o.c 8-16d 12-3" x Ø.131 BLOCKING BETWEEN JOISTS AND RAFTERS TO TOP PLATE 3-3" x Ø.131 at 12" o.c RIM JOIST TO TOP PLATE 8d at 6" o.c. 3" x Ø.131 at 6" o.c. TOP PLATE, LAPS AND INTERSECTIONS - 16d 3 - 3" x *Ø.*131" CONTINUOUS HEADER, 2 PIECES. 16d at 16" o.c. 3" x Ø.131 at 12" o.c CEILING JOISTS TO TOP PLATE 5 - 3" x Ø.131 CONTINUOUS HEADER TO STUD TOENAIL - 3" x Ø.131 CEILING JOISTS, LAPS OVER PARTITIONS | 3-16d 4 - 3" x Ø.131 CEILING JOISTS TO PARALLEL RAFTERS/ RE: IRC TABLE FACE NA RAFTER TIES TO RAFTERS R802.5.1 (9) RAFTER TO PLATE 13 - 3" x *Ø.*131" FACE NA " DIAGONAL BRACE TO EACH STUD 2-8d AND PLATE 2 - 3" x *Ø.*l3l" 16d at 24" o.c. FACE NA BUILT UP CORNER STUDS 3" x Ø.131" at 16" o.c. BUILT UP BEAMS. STAGGER NAILS ON 200 at 32" o.c. 3" x Ø.131" at 24" o.c OPPOSITE SIDES 2-20d BUILT UP BEAMS AT ENDS AND 3 - 3" × *Ø.*l3l" SPLICES FACE NA COLLAR TIE TO RAFTER 4 - 3" x Ø.131' JACK RAFTER TO HIP 4 - 3" × Ø.131" 3 - 3" x Ø.131" ROOF RAFTER TO 2 × RIDGE BEAM 3 - 3" × *Ø.*l3l" JOIST TO BAND JOIST 4 - 3" x Ø.131' LEDGER STRIP 4 - 3" x Ø.131" 3/4" OR LESS WOOD STRUCTURAL | 6d at 12" o.c. PANEL WALL, SUBFLOOR, & ROOF EDGES HEATHING 2 3/8" x Ø.113 AT 8" o.c. | INTERMEDIATE 2 3/8" x Ø.113 AT 4" o.c. EDGES 17/8" TO 1" WOOD STRUCTURAL PANEL IND at 12" o.c. WALL, SUBFLOOR, & ROOF **EDGES** SHEATHING 2 1/2" x Ø.131 AT 8" o.c. INTERMEDIAT 2 3/8" x Ø.131 AT 4" o.c. EDGES 1/8" TO 1 1/4" WOOD STRUCTURAL 8d at 12" o.c. PANEL WALL, SUBFLOOR, & ROOF 100 at 6" o.c. **EDGES** SHEATHING 3" x Ø.148 AT 8" o.c. INTERMEDIATE 3" x Ø.148 AT 4" o.c. | EDGES HARDBOARD SIDING 8d at 6" o.c. 8d at 12" o.c. EDGES 2" GYPSUM SHEATHING 6d at 8" o.c. 6d at 4" o.c. EDGES INTERMEDIATE 5/8" GYPSUM SHEATHING 8d at 8" o.c. 8d at 4" o.c. EDGES FACE NAIL 8d each side WOOD I JOISTS AT EACH END AND BEARING POINT

1. ON ½" GYPSUM SHEATHING, 14" TYPE W OR S SCREWS MAY BE

USED IN LIEU OF NAILS. ON 3/4" SHEATHING, THE SCREWS ARE TO

BE 1 %" LONG. THE SPACING IS THE SAME AS THE NAILS.

FASTENING SCHEDULE

FACE NAI END NAI LAP SPLICE FACE NA FACE NA FACE NA FACE NAI TOE NAIL FACE NA FACE NAI FACE NA FACE NA INTERMEDIAT INTERMEDIAT INTERMEDIAT INTERMEDIAT INTERMEDIATE

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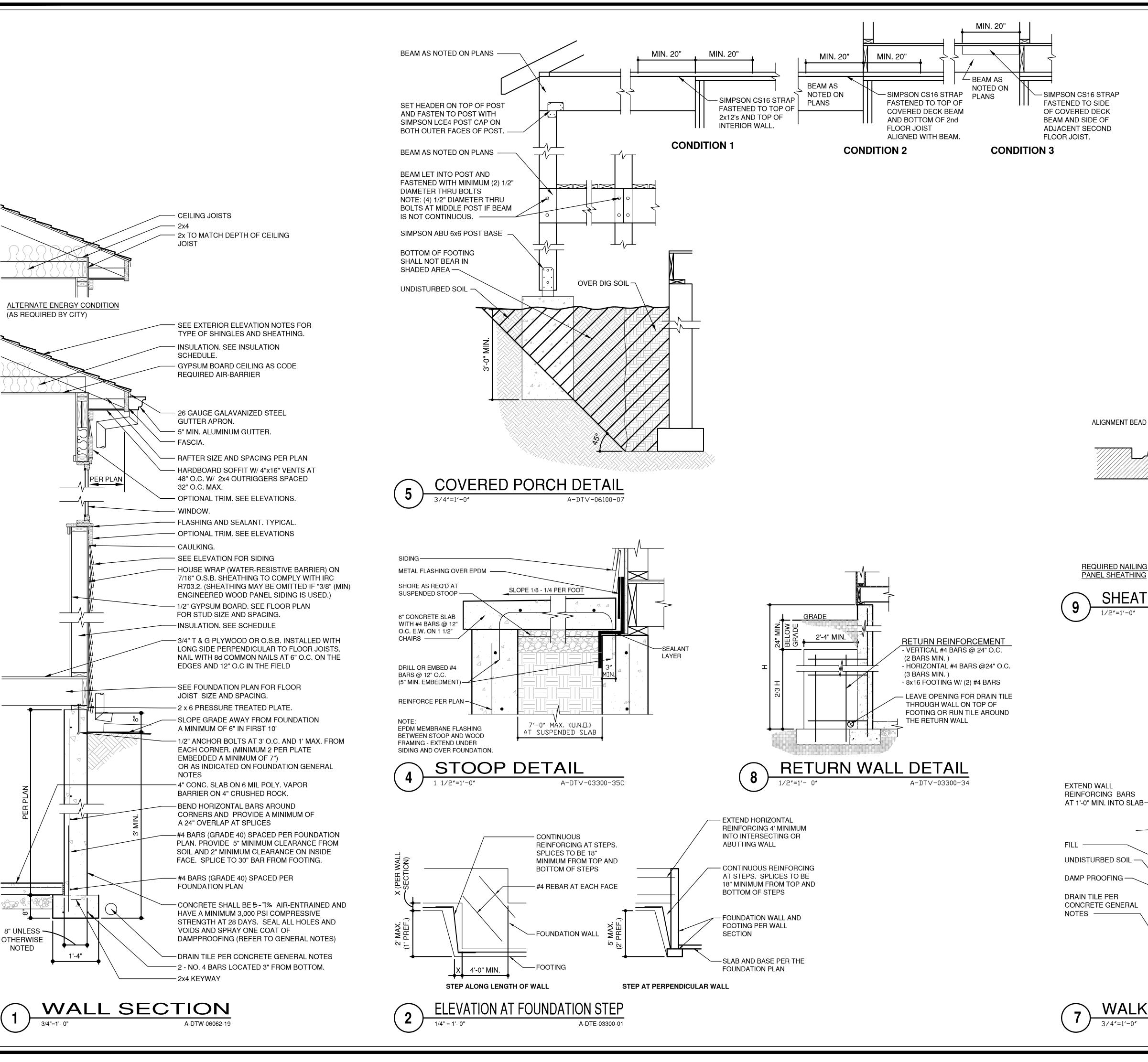
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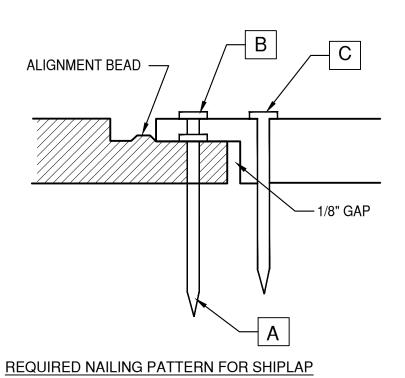
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DATE: 5/7/18 PROJECT NO: 18-019-01

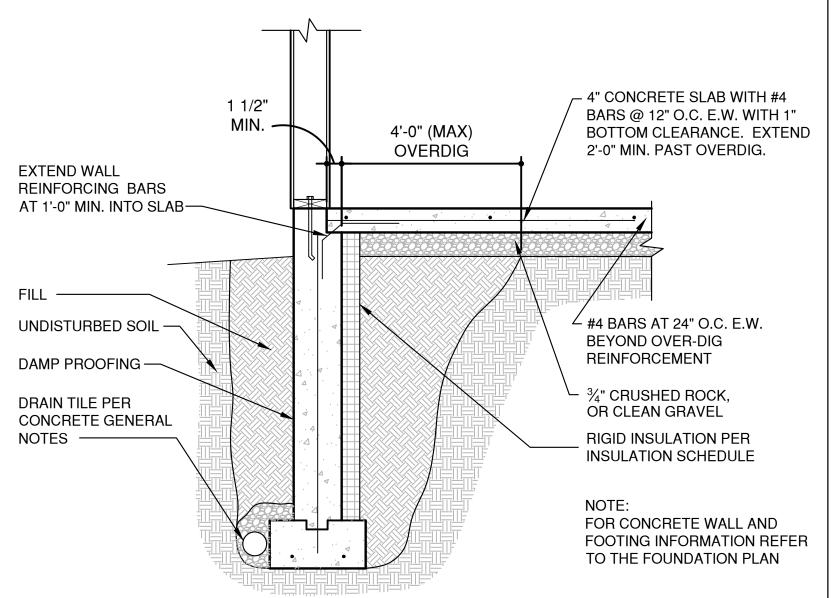




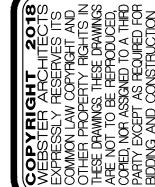


NAILING WITH SPACING AS SPECIFIED PER PLAN. FOR EXAMPLE, IF REQUIRED SPACING IS 4" O.C., BOTTOM LAP SHALL FIRST BE NAILED AT 4" O.C. (NAIL "A"), THEN OVERLAP SHALL BE NAILED @ 4" O.C. STAGGERED BETWEEN **BOTTOM LAP NAILING (NAIL** "B"), THEN FULL DEPTH SECTION OF OVERLAP PANEL SHALL BE NAILED @ 4" O.C.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

SHEATHING NAILING DETAIL A-DTW-06062-28







3,758 HOME 943-8

CUSTOM 151st ST. . LAMBIE 8712 W. OVERLA

DRAWN BY: MP, MS

DATE: 5/1/18 PROJECT NO: 18-019-01

> SHEET NO. **G2**

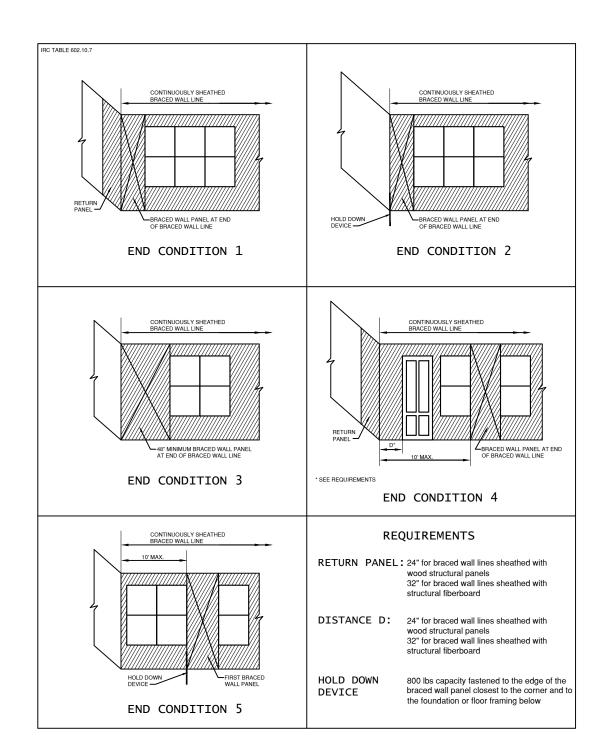
TABLE R602.10.6.4 TENSION STRAP CAPACITY REQUIRED FOR RESISTING WIND PRESSURES PERPENDICUALR TO METHOD PFH,PFG, AND CS-PF BRACED WALL PANELS

5-6-14

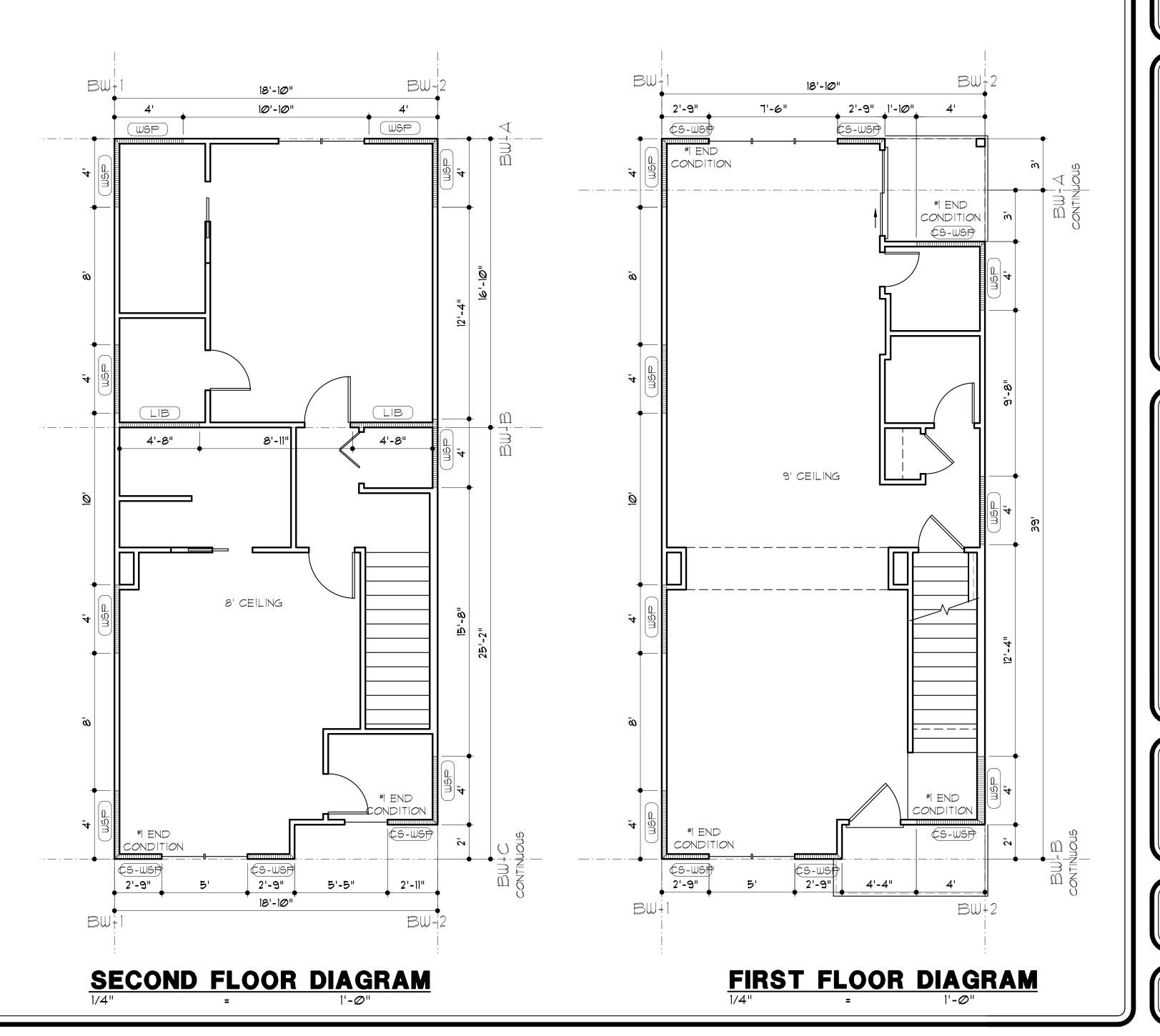
MINIMUM WALL STUD	MAXIMUM PONY MAXII	MAXIMUM TOTAL	MAXIMUM OPENING WIDTH (feet)	TENSION STRAP CAPACITY REQUIRED (pounds) a,b		NO. OF 8d COMMON NAILS REQUIRED AT FLAT 2x6	
FRAMING NORMAL SIZE	WALL HEIGHT (feet)	WALL HEIGHT (feet)		BASIC WIND SPEED (mph)		BASIC WIND SPEED (mph)	
AND GRADE				90	90	90	90
				EXPOSURE B	EXPOSURE C	EXPOSURE B	EXPOSURE C
	0	10	18	1,000	1,000	8	8
	1	10	9	1,000	1,000	8	8
			16	1,000	2,325	8	16
			18	1,200	2,725	8	18
	2	10	9	1,000	1,550	8	10
2 x 4 NO. 2 GRADE			16	2,025	3,900	14	26
			18	2,400	DR	16	DR
	2	12	9	1,200	2,750	8	12
			16	3,200	DR	22	DR
			18	3,850	DR	26	DR
	4 12	9	2,350	DR	16	DR	
		12	16	DR	DR	DR	DR
a a atur aras	2	12	9	1,000	1,750	8	12
			16	2,050	3,550	14	24
			18	2,450	4,100	14	28
2 x 6 STUD GRADE	4 12	12	9	1,500	2,775	16	18
			16	3,150	DR	10	DR
			18	3,675	DR	14	DR

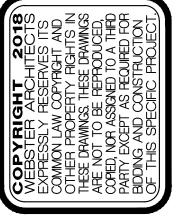
a. DR = DESIGN REQUIRED

b. STRAP SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.



METHOD NUMBER	DESCRIPTION	MINIMUM LENGTH	FASTENERS	
LIB	LET-IN-BRACING: METAL STRAPS TO FORM "X" OR "V" INSTALLED PER MANUFACTURED (SIMPSON: WB126C, TWB12, WB143C) (USP: RWB114, WBT12)	AS REQUIRED TO ALLOW BRACE TO BE CONTINUOUS FROM PLATE TO PLATE AND AT AN ANGLE BETWEEN 45° TO 60° FROM HORIZONTAL	PER MANUFACTURER'S REQUIREMENTS	
WSP	WOOD STRUCTURAL PANEL- 5/16" THICK (MIN.) FOR STUDS AT 16" O.C 3/8" THICK (MIN.) FOR STUDS AT 24" O.C. (APA EXP. I- PLYWOOD/ O.S.B./ ETC.)	MIN. 48"	6d COMMON NAILS, 8d COMMON NAILS - 6" O.C. AT EDGES AND 12" O.C. AT INTERMEDIATES	
CS-WSP	CONTINUOUS SHEATHING- WOOD STRUCTURAL PANEL: 5/16" THICK (MIN.) (APA EXP. I- PLYWOOD/ O.S.B.)	CONTINUOUS ON ALL EXTERIOR WALLS	6d COMMON NAILS, 8d COMMON NAILS - 6" O.C. AT EDGES AND 12" O.C. AT INTERMEDIATES	
GB	GYPSUM BOARD: 1/2" THICK MIN.	96" IF GYP. BOARD 1 SIDE 48" IF GYP. BOARD 2 SIDES (STUDS AT 16" O.C. MAX. FOR 48" LONG PANELS)	6d NAILS OR 1-1/4" SCREWS (TYPE W OR S)- 7" O.C. AT EDGES AND 7" O.C. AT INTERMEDIATES (CAN SUBSTITUTE COOLER NAILS)	
PFH/PFG	PORTAL FRAME GARAGE: WITH HOLD-DOWNS	SEE DETAIL 1/G3 FOR MIN. WALL LENGTH	PER DETAIL 1/G3	
CS-PF	CONTINUOUS SHEATHING- PORTAL FRAME	SEE DETAIL 1/G3 FOR MIN. WALL LENGTH	PER DETAIL 1/G3	







G3

