

File Number: 8-B-25-IH

Meeting: 8/20/2025
Applicant: Jesse Alarcon Onyx Excavation LLC
Owner: Jesse Alarcon Onyx Excavation LLC
District: Oakwood/Lincoln Park Infill Housing Overlay District

Property Information

Location: 205 Chickamauga Ave. **Parcel ID:** 81 B G 039
Zoning: RN-2 (Single-Family Residential Neighborhood)
Description:
New primary structure.

Description of Work

Level III New Primary Structure

Applicable Design Guidelines

Heart of Knoxville Infill Housing Design Guidelines

1. Front Yards

- Consistent front yard space should be created along the street with the setback of a new house matching the older houses on the block.
- A walkway should be provided from the sidewalk or street to the front door. Along grid streets, the walk should be perpendicular to the street.
- Healthy trees that are outside the building footprint should be preserved. The root area should be marked and protected during construction.

2. Housing Orientation

- New housing should be proportional to the dimensions of the lot and other houses on the block.
- On corner lots, side yard setbacks should be handled traditionally (that is, closer to the side street). The zoning requirement to treat corner lots as having two frontages should not apply in Heart of Knoxville neighborhoods.
- Side yard setbacks should be similar to older houses on the block, keeping the rhythm of spacing between houses consistent.

3. Alleys, Parking, and Services

- Parking should not be in front yards.
- Alley access should be used for garage or parking pad locations. On level ground, pea gravel or similar material may be used as a parking pad off alleys.
- On streets without alleys, garages or parking pads should be at least 20 feet behind the front façade of the infill house with access limited to one lane between the street and the front façade.
- Garages which are perpendicular to the alley should be about 18 feet from the center line of the alley pavement,

allowing a comfortable turning radius for a driver to enter a garage.

- Alley-oriented parking pads, garbage collection points, and utility boxes should be screened with a combination of landscaping and fencing.
- On those streets which have alleys, driveways should not be permitted from the front of the house.
- On corner lots, a driveway to the garage may be provided off the side street.

4. Scale, Mass, and Foundation Height

- The front elevation should be designed to be similar in scale to other houses along the street.
- The front façade of new houses should be about the same width as original houses on the block.
- New foundations should be about the same height as the original houses in the neighborhood.
- If greater height is to be created (with new construction or an addition), that portion of the house should be located toward the side or rear of the property.

5. Porches and Stoops

- Porches should be part of the housing design in those neighborhoods where porches were commonplace.
- Porches should be proportional to original porches on the block, extending about 8-12 feet toward the street from the habitable portion of the house.
- Porches should extend into the front yard setback, if necessary, to maintain consistency with similarly sited porches along the street.
- Porch posts and railings should be like those used in the historic era of the neighborhood's development. Wrought iron columns and other materials that were not used in the early 1900's should not be used.
- Small stoops centered on entry and no more than 5 feet deep are appropriate on blocks where porches were not traditional.

6. Windows and Doors

- When constructing new houses, the window and door styles should be similar to the original or historic houses on the block.
- To respect the privacy of adjacent properties, consider the placement of side windows and doors.
- The windows and doors on the front facade of an infill house should be located in similar proportion and position as the original houses on the block.
- Attention should be paid to window placement and the ratio of solid (the wall) to void (the window and door openings).
- Contemporary windows such as "picture windows" should not be used in pre-World War II neighborhoods.

7. Roof Shapes and Materials

- New roofs should be designed to have a similar pitch to original housing on the block
- More complex roofs, such as hipped roofs and dormers, should be part of new housing designs when such forms were historically used on the block.
- Darker shades of shingle were often used and should be chosen in roofing houses in Heart of Knoxville neighborhoods.

8. Siding Material

- Clapboard-like materials (such as cement fiberboard) should be used in constructing new housing where painted wood siding was traditionally used.
- Brick, wood shingle, and other less common material may be appropriate in some older neighborhoods, particularly those with a mix of architectural styles.
- Faced stone, vertical siding, and other non-historic materials should not be used in building new houses. In 1930-1950 era neighborhoods, faced stone may be appropriate (see Section 12).

11. Landscape and Other Considerations

- One native or naturalized shade tree should be planted in the front and rear yards of in fill lots with 25 feet or

more in depth to front of house.

Comments

1. The average front setback of the blockface is 29.4', with the adjacent house at 12'. The proposed 25' front setback is appropriate. The final site plan should include a walkway that connects from the porch to the street.
2. Parking is a two-car front-entry garage accessed via Chickamauga Avenue. Guidelines discourage front yard parking and state that "garages...should be at least 20 feet behind the front façade;" there are no houses on the block with front-entry garages. The front-entry garage should be omitted and replaced with a single lane driveway extending at least 20' behind the façade, or the garage should be revised in placement to the rear of the house, with access from the rear of the house. The final site plan should meet City Engineering standards.
3. The final site plan should include a native or naturalized shade tree in the front and rear yards. There are existing trees on the lot that could be retained to meet this condition.
4. The block to receive new construction is characterized by Minimal Traditionals, modified Queen Anne cottages, Craftsman bungalows, and infill construction. The design features details like eave overhangs, horizontal headers, and 2/2 windows that reflect the context. The 29'-6" wide by 59'-10" deep house is proportionate in width to the lot and other houses on the block. However, the house is approximately 10'-25' deeper than all other houses on the block, with the exception of an 85' deep townhouse development. The Board should discuss whether the depth of the proposed house is appropriate for the context.
5. The three-bay, one-story façade is similar in height and scale to the context of the block, which primarily features one-story houses.
6. The design features a 4'-6" deep, half-length front-porch recessed under the primary roofline and supported by two 10" posts. The depth should be revised to at least 8' to meet the design guidelines.
7. Guidelines recommend window and door styles be similar to historic houses on the block with a similar ratio of solid to void. The 2/2 single-hung windows and half-lite paneled door match the context. The front, rear, and left elevations feature sufficient transparency, but an additional window should be added to the right elevation to avoid large swaths of blank siding.
8. The 7/12 pitch front-gable roof meets the design guidelines, and the design benefits from the eave overhangs, horizontal headers, and trim, which should be retained in final construction.
9. The asphalt shingles meet the design guidelines, and the slab foundation should be parge-coated or clad in stucco. The elevations depict board-and-batten siding on all sides of the house, but a note states that board-and-batten will only be used on the façade, with horizontal siding on the rest of the house. Guidelines discourage the use of vertical siding and multiple primary siding materials, and board-and-batten is typically only approved as an accent. Clapboard-style lap siding with an overlap should be used as a primary siding material on all elevations, with board-and-batten used as an accent in the gable fields and on the projecting front-gable massing, if desired.

Recommendation

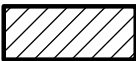
The Board should discuss the depth of the proposed house. If deemed appropriate, staff recommends approval of Certificate 8-B-25-IH, subject to the following conditions: 1) final site plan to include a walkway from the front porch to the street; 2) final site plan to meet City Engineering standards; 3) parking to avoid the front yard and the garage to be either omitted or revised in placement to the rear of the house, with a revised façade elevation to be submitted to staff showing windows and siding in place of the garage door; 4) final site plan to include a tree in the

front and rear yards; 5) the porch depth be revised to at least 8'; 6) an additional window be added to the right elevation, to be approved by staff; 7) final construction to retain the eave overhangs, horizontal headers, and trim as depicted on the elevations; 8) foundation be parge-coated or clad in stucco; and 9) clapboard-style lap siding be used as the primary siding material on all elevations with board-and-batten as an accent only.



**DESIGN
REVIEW
BOARD**

8-B-25-IH
APPLICATION FOR CERTIFICATE OF APPROPRIATENESS





205 Chickamauga Ave.
Oakwood/Lincoln Park Infill Housing Overlay District

Original Print Date: 8/6/2025
Knoxville - Knox County Planning - Design Review Board

Revised:

Petitioner: Jesse Alarcon Onyx Excavation LLC





Feet

(1) Download and fill out this form at your convenience. (2) Sign the application digitally (or print, sign, and scan). (3) Either print the completed form and bring it to the Knoxville-Knox County Planning offices or email it to applications@knoxplanning.org.

[Reset Form](#)

DESIGN REVIEW REQUEST

- ☐ DOWNTOWN DESIGN (DK)
- ☐ HISTORIC ZONING (H)
- ☒ INFILL HOUSING (IH)

Jesse Alarcon

Applicant

7-29-2025

8-20-25

8-B-25-IH

Date Filed

Meeting Date (if applicable)

File Number(s)

CORRESPONDENCE

All correspondence related to this application should be directed to the approved contact listed below.

☒ Owner ☐ Contractor ☐ Engineer ☐ Architect/Landscape Architect

Jesse Alarcon

Onyx Excavation LLC

Name

Company

4124 Oakland Dr

Knoxville

TN

37918

Address

City

State

Zip

865-236-3219

Onyx.excavationtn@gmail.com

Phone

Email

CURRENT PROPERTY INFO

Jesse Alarcon

4124 Oakland Dr

865-236-3219

Owner Name (if different from applicant)

Owner Address

Owner Phone

205 Chickamauga ave

081BG039

Property Address

Parcel ID

BRAINE & LEES 1ST ADD PT 6

RN-2

Neighborhood

Zoning

AUTHORIZATION

Malynda Wollert

Staff Signature

Malynda Wollert

Please Print

7-29-25

Date

Jesse Alarcon

Applicant Signature

Jesse Alarcon

Please Print

7-29-2025

Date

REQUEST

DOWNTOWN DESIGN

Level 1:

- ☐ Signs ☐ Alteration of an existing building/structure

Level 2:

- ☐ Addition to an existing building/structure

Level 3:

- ☐ Construction of new building/structure ☐ Site design, parking, plazas, landscape

See required Downtown Design attachment for more details.

☐ Brief description of work: _____

HISTORIC ZONING

Level 1:

- ☐ Signs ☐ Routine repair of siding, windows, roof, or other features, in-kind; Installation of gutters, storm windows/doors

Level 2:

- ☐ Major repair, removal, or replacement of architectural elements or materials ☐ Additions and accessory structures

Level 3:

- ☐ Construction of a new primary building

Level 4:

- ☐ Relocation of a contributing structure ☐ Demolition of a contributing structure

See required Historic Zoning attachment for more details.

☐ Brief description of work: _____

INFILL HOUSING

Level 1:

- ☐ Driveways, parking pads, access point, garages or similar facilities ☐ Subdivisions

Level 2:

- ☐ Additions visible from the primary street ☐ Changes to porches visible from the primary street

Level 3:

- ☐ New primary structure
☐ Site built ☐ Modular ☐ Multi-Sectional

See required Infill Housing attachment for more details.

☐ Brief description of work: _____

STAFF USE ONLY

ATTACHMENTS

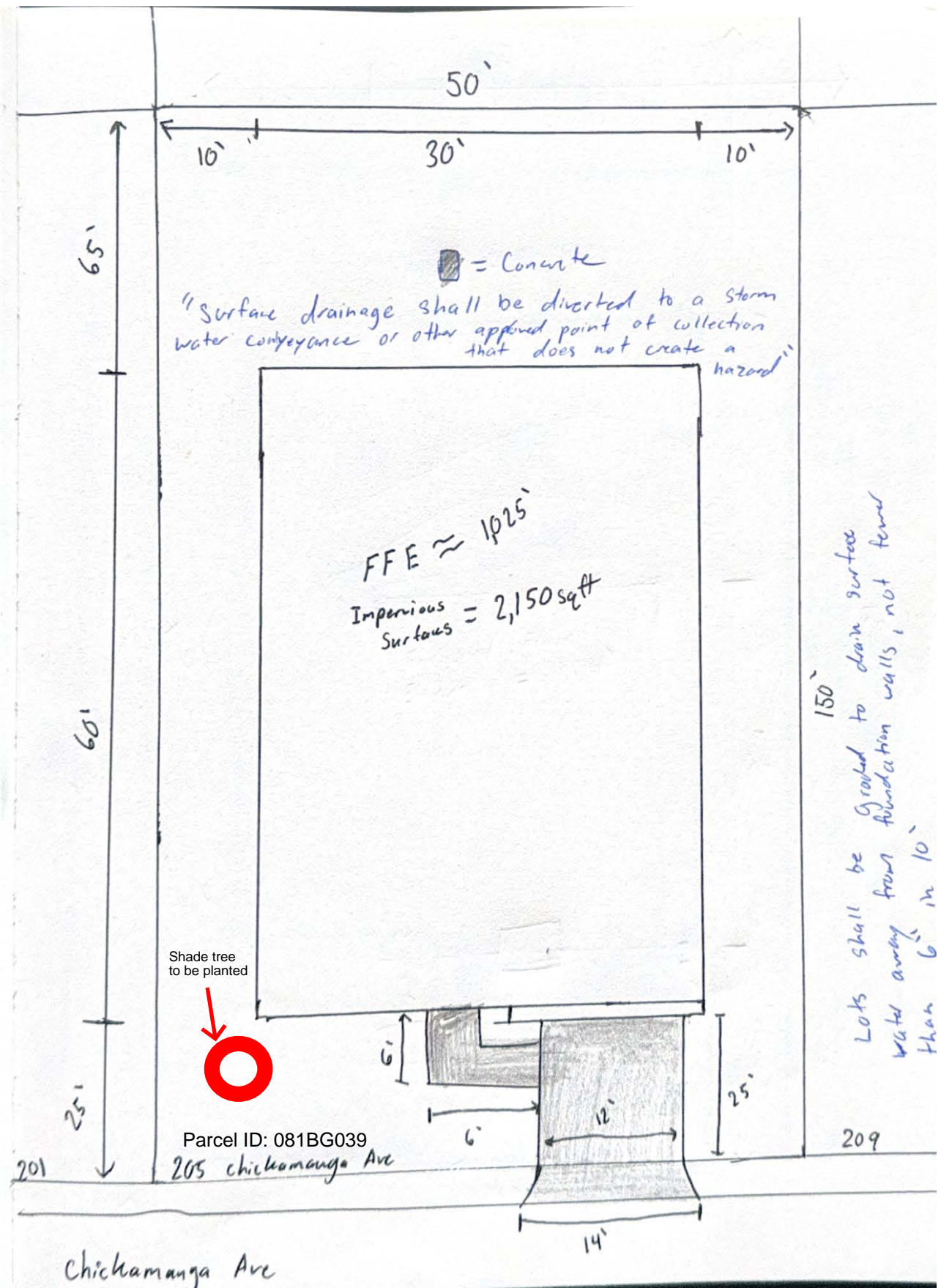
- ☐ Downtown Design Checklist
☐ Historic Zoning Design Checklist
☐ Infill Housing Design Checklist

ADDITIONAL REQUIREMENTS

- ☐ Property Owners / Option Holders

Level 1: \$50 • Level 2: \$100 • Level 3: \$250 • Level 4: \$500

FEE 1:	250.00 Paid DD 8/4/25
1003	
FEE 2:	
FEE 3:	





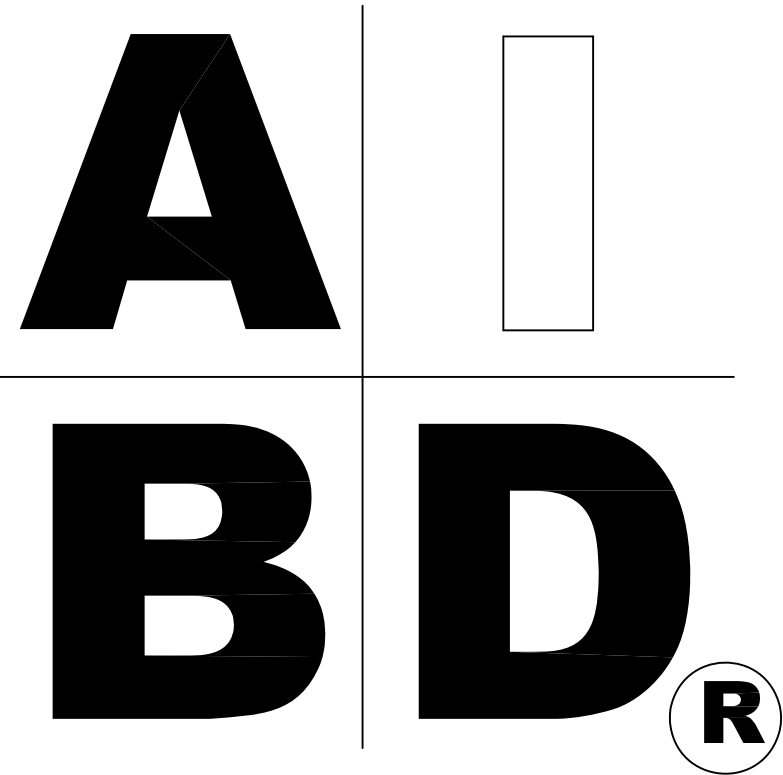
House Plan Zone, LLC.

www.HPZplans.com

Phone: 601.336.3254

Email: sales@hpzplans.com

Fax: 1-800-574-1387



STANDARD ABBREVIATIONS

@	AT	LT.	LIGHT
#	FOUND(S)	LIN.	LINEN
APPROX.	APPROXIMATELY	MANUF.	MANUFACTURER
BASE	BASEMENT	MAS	MASONRY
B/T	BETWEEN	MAX	MAXIMUM
BLK.	BLOCK	MTL.	METAL
BLK'G	BLOCKING	MIN.	MINIMUM
BD.	BOARD	N.I.C.	NOT IN CONTRACT
BRD.	BOARD	O.C.	ON CENTER
BOT.	BOTTOM	O/C	ON CENTER
BLDG.	BUILDING	OPT.	OPTIONAL
CAB.	CABINET	O.S.B.	ORIENTED STRAND BOARD
CLG.	CEILING	OTS	OWNER TO SELECT
CLR.	CLEAR	O.T.S	OWNER TO SELECT
CLOS.	CLOSET	FG.	PAGE
COL.	COLUMN	FAN.	PANTRY
COLS.	COLUMNS	FL.	FLATE
CONC.	CONCRETE	F	FLATE
CMU	CONCRETE MASONRY UNIT	PLYWD	PLYWOOD
C.U.	CONDENSOR UNIT	PLYWD	PLYWOOD
CONN.	CONNECTION	POLY.	POLYETHYLENE
CONT.	CONTINUOUS	PSI	POUNDS PER SQUARE INCH
COVER'G	COVERING	PRE-FAB	PREFABRICATED
CS	CRANK SPACE	RE.	REFERENCE
DECO.	DECORATIVE	REF.	REFRIGERATOR
DET	DETAIL	REINF.	REINFORCED
DIA.	DIAMETER	R	RESISTANCE
DVN	DISHWASHER	R.A.	RETURN AIR
DBL	DOUBLE	R.A.G.	RETURN AIR GRILLE
DF	DOUGLAS FIR	REQ'D	REQUIRED
D	DRYER	SCR.	SCREEN
EA.	EACH	SHLV.	SHELVES
ELEV.	ELEVATION	SHR.	SHOWER
ENG.	ENGINEER	SHWR.	SHOWER
FT.	FEET	SST.	SIMPSON STRONG TIE
F.F.L.	FINISHED FLOOR LINE	SP	SOUTHERN PINE
FIN.	FINISH	SPECS.	SPECIFICATIONS
F.C.	FIRE CODE	SQ.	SQUARE
FLR.	FLOOR	S.F.	SQUARE FOOTAGE
FTG.	FOOTING	STL.	STEEL
FOUND.	FOUNDATION	THK.	THICK
FND.	FOUNDATION	THK.	THICKNESS
FR.	FREEZER	TBD.	TO BE DETERMINED
GA.	GAUGE	TR.	TRANSOM
GALV.	GALVANIZED	TYP.	TYPICAL
GYP.	GYPSUM	U.T.C.	UNDER THE COUNTER
HDR.	HEADER	UTIL.	UTILITY
HVAC	HEATING, VENTILATION & AIR CONDITIONING	VAN.	VANITY
HT.	HEIGHT	VERT.	VERTICAL
HTS.	HEIGHTS	WH	WATER HEATER
HORIZ.	HORIZONTAL	W	WASHER
IN.	INCHES	WT.	WEIGHT
INCL.	INCLUDE	WIN.	WINDOW
INSUL.	INSULATION	WM.	WIRE MESH
JT.	JOINT	W	WIT
JST.	JOIST	WD.	WOOD
JSTS.	JOISTS	WFCM	WOOD FRAME CONSTRUCTION MANUAL

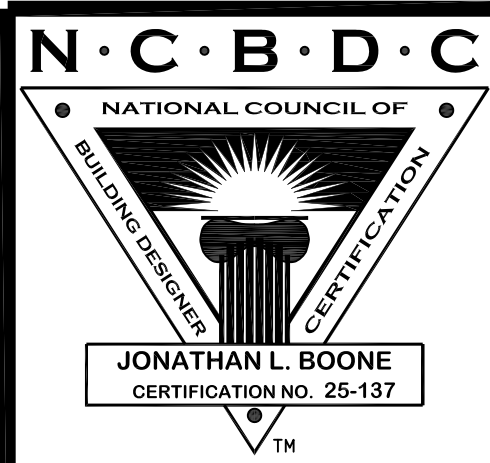


BB-1292R

SHEET INDEX:

- 1 COVER SHEET
- 2 FOUNDATION PLAN
- 3 FLOOR PLAN & ELECTRICAL PLAN
- 4 EXTERIOR VIEWS
- 5 ROOF PLAN
- 6 CROSS SECTION & CABINETS

CODE DISCLAIMER:
1. THESE PLANS WERE DESIGNED TO MEET IRC 2018 AT THE TIME OF THEIR CREATION AND MORE SPECIFICALLY THE MINIMAL LOCAL CODES OF THE SOUTH MISSISSIPPI AREA. IT IS HIGHLY RECOMMENDED THAT THESE PLANS BE REVIEWED BY A LOCAL STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
2. BEAMS AND FLOOR JOISTS ARE NOT SIZED DUE TO THE MANY GEOGRAPHIC LOCATIONS THESE PLANS ARE SOLD. THESE ITEMS SHALL BE SIZED BY A LOCAL ENGINEER OR MANUFACTURER.
3. ALL CEILING & FLOOR JOISTS (IF CONVENTIONAL FRAMING) SHOULD BE SIZED USING THE LATEST VERSION OF THE IRC OR APPLICABLE CODES AT SITE TO MEET THE LOCAL REQUIREMENTS SUCH AS SNOW LOADS AND OTHER FACTORS. THE CEILING JOISTS SIZES LABELED (IF PRESENT) WERE SIZED USING THE 2018 IRC AT THE TIME OF THEIR CREATION. THEY MUST BE VERIFIED AND MODIFIED AS REQUIRED TO MEET THE LATEST EDITION OF THE (IRC) INTERNATIONAL RESIDENTIAL CODE.
4. ALL FOUNDATIONS AND FOOTING DETAILS SHALL BE REVIEWED AND APPROVED BY A LOCAL ENGINEER.
5. CONTRACTOR SHALL PROVIDE ALL HIGH WIND STRAPPING AND ANCHOR BOLTS AS REQUIRED BY THE LOCAL CODE REQUIREMENTS AND THE LATEST VERSION OF THE IRC.



Date: 10/07/19

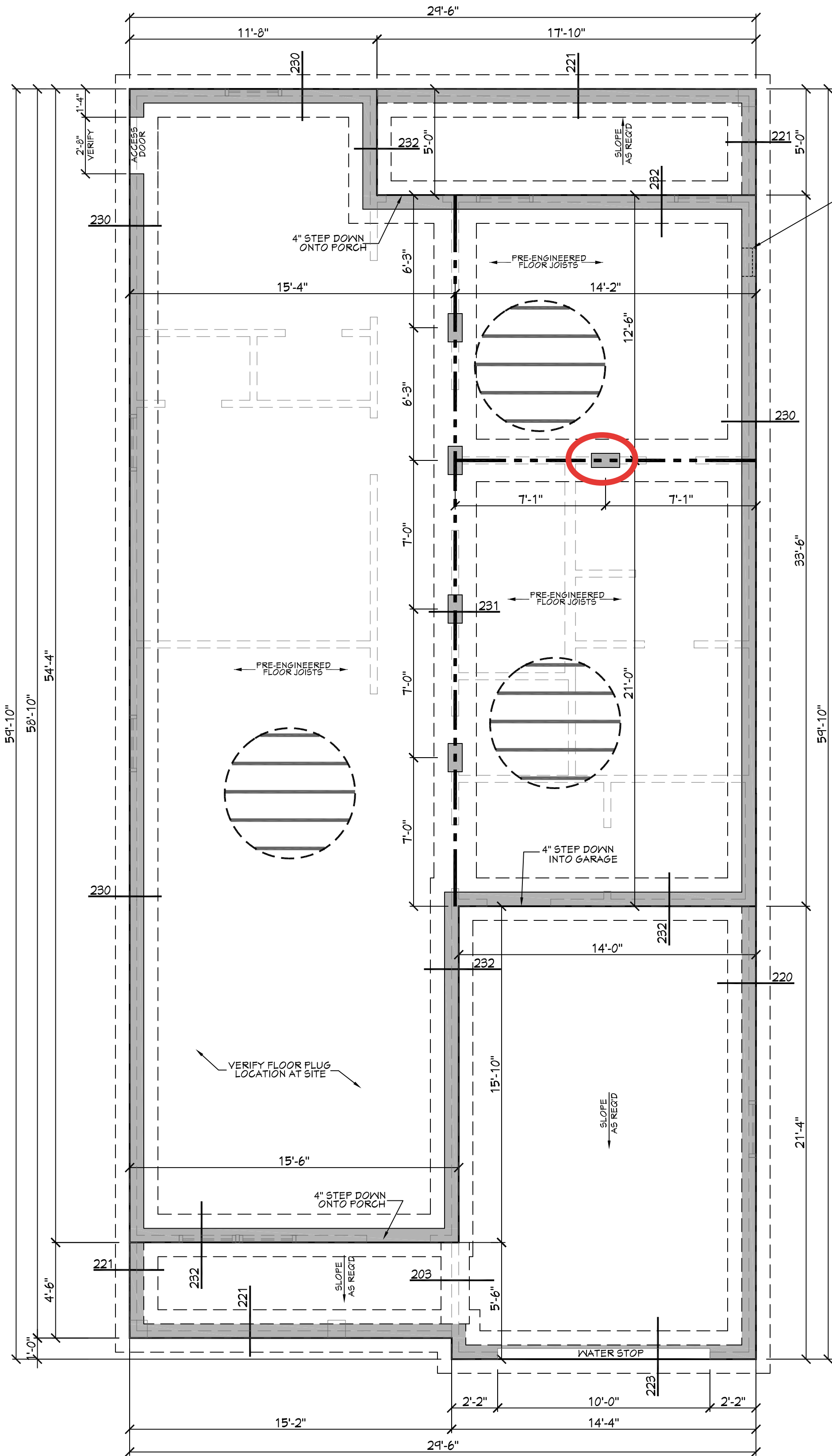
Drawn By: R.B.W.

Plan Number:

SHEET NUMBER

1

Will not be using standalone pier on right side of plans. Beams will span long enough to not require extra pier.



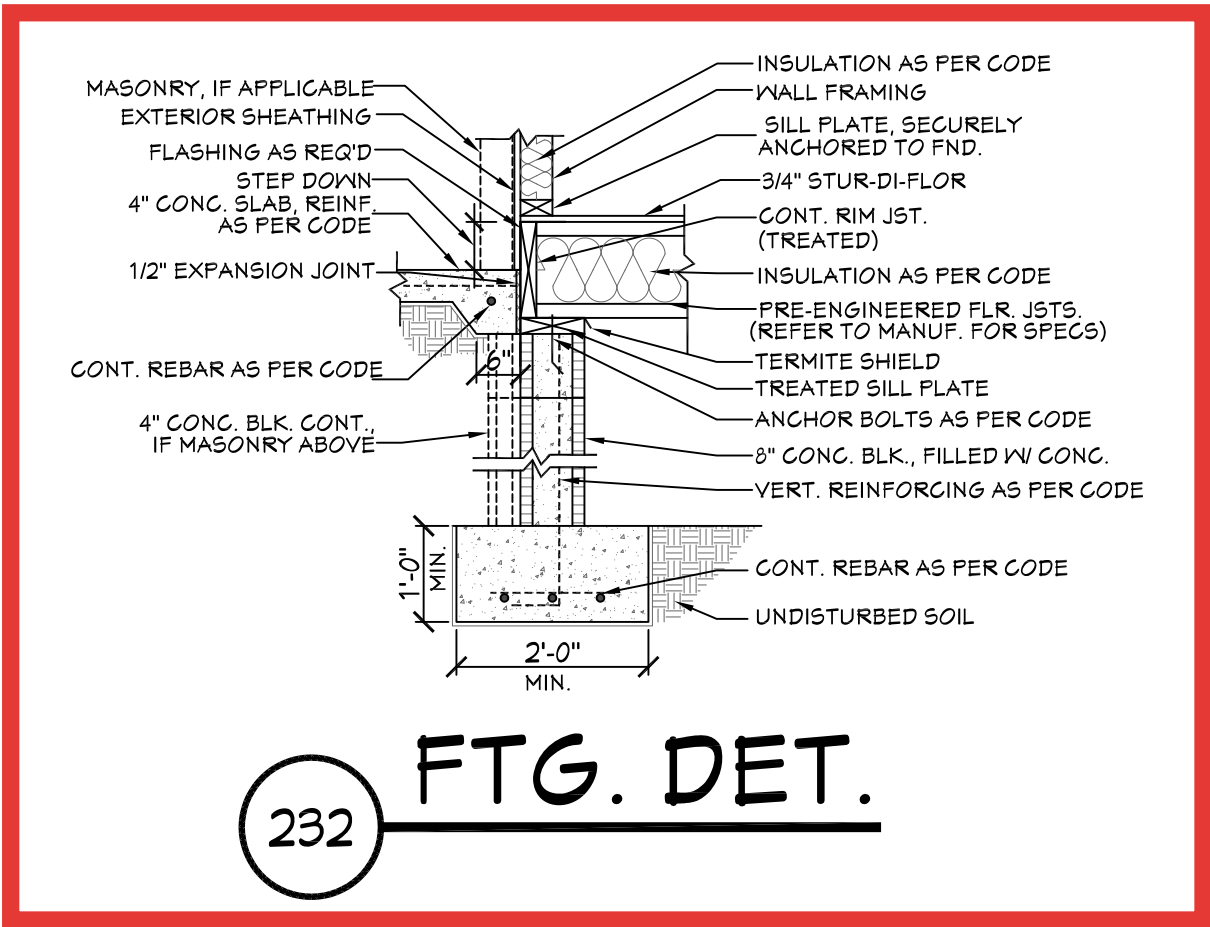
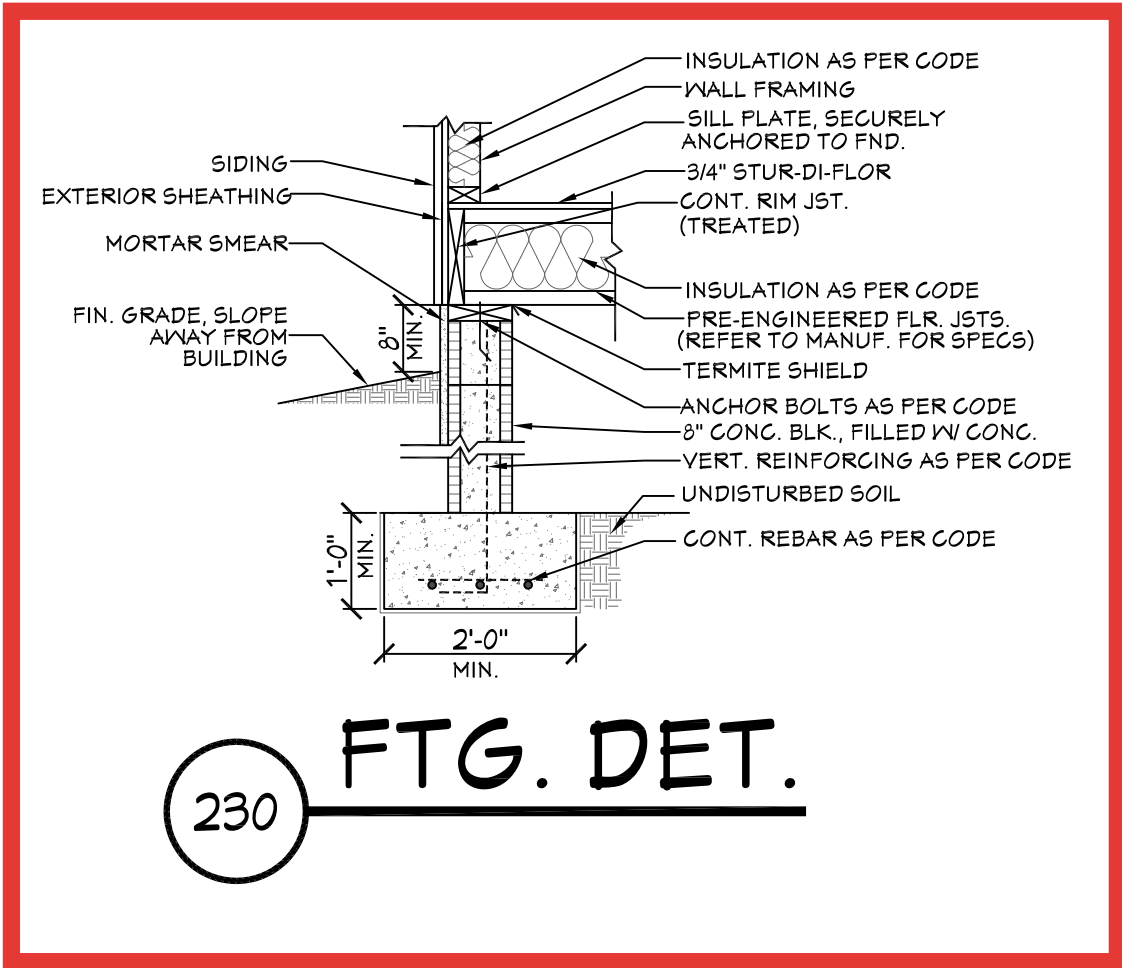
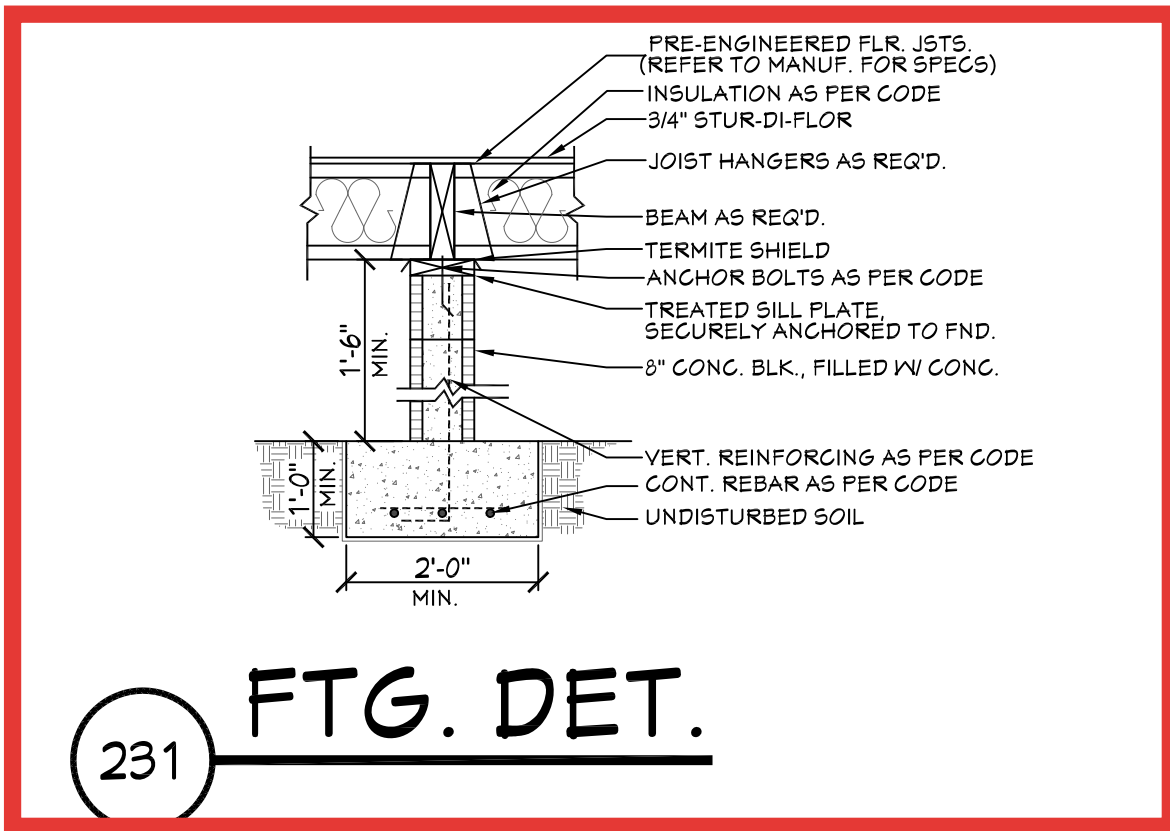
8" x 16" VENT - TYP. - CONTRACTOR TO PROVIDE A MINIMUM OF 10 VENTS AS PER CODE. CONTRACTOR TO LOCATE AT SITE.

Footings:

- Footings to be 24" wide x 12" deep
- 2 continuous pieces of #4 rebar throughout footing overlapped 20" and tied at seams

- Electrical grounding shall be Concrete encased and tied into footing reinforcement specified in sections E3608.1.1, E3608.1.3, E3608.1.4, E3608.1.5, and E3608.1.6

Concrete-Encased Electrode-- A concrete encased electrode consisting of not less than 20 feet (6096 mm) of either of the following shall be considered as a grounding electrode:
1 One or more bare or zinc- galvanized or other electrically conductive coated steel reinforcing bars or rods not less than 1/2 inch (13 mm) in diameter, installed in one continuous 20- foot (6096 mm) length, or if in multiple pieces connected together by the usual steel tie wires, exothermic welding, welding, or other effective means to create a 20-foot (6096 mm) or greater length. (IRC 2018 E3608.1.2)



CRAWLSPACE FOUNDATION NOTES:

1. ALL FOOTING SIZES AND LOCATIONS TO BE VERIFIED BY A LICENSED STRUCTURAL ENGINEER.
2. CONTRACTOR TO ADAPT PLANS AS REQUIRED TO MEET ALL APPLICABLE CODES AT SITE.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH FLOOR PLAN PRIOR TO CONSTRUCTION AND MAKE ANY NECESSARY ADJUSTMENTS.
4. CONTRACTOR TO PROVIDE WATERPROOFING AS REQ'D TO MEET ALL APPLICABLE CODES AND TYPICAL BUILDING PRACTICES.
5. CONCRETE SLABS TO BE 4" (3000 psi MIN.), REINFORCED AS PER CODE OR AS DETERMINED BY LICENSED ENGINEER.
6. CONTRACTOR TO PROVIDE ADEQUATE DRAINAGE BASED ON EXISTING SITE CONDITIONS. VERIFY W/LOCAL CODES.
7. REFER TO FLOOR JOIST MANUFACTURER FOR JOIST SIZING AND SPACING, CROSS BRACING REQUIREMENTS, AND BEAM SIZES.
8. VERIFY THE QUANTITY AND LOCATION OF BRICK VENTS WITH ALL APPLICABLE CODES AT SITE.

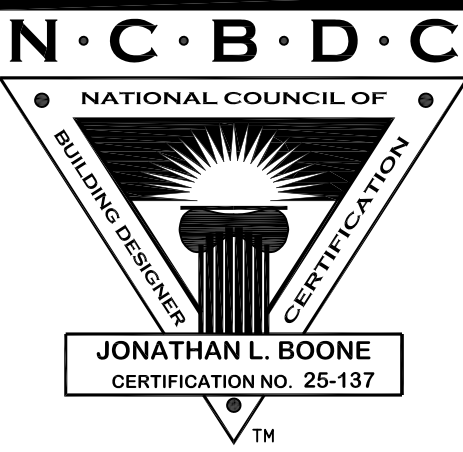
NOTE: PRE-ENGINEERED FLOOR JOISTS ARE SHOWN. REFER TO FLOOR JOIST MANUFACTURER FOR JOIST SIZING, SPACING, CROSS BRACING REQUIREMENTS, AND BEAM SIZES.

Website:
www.HFZplans.com

Email:
sales@hfpzplans.com

Phone:
601.336.3254

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1.800.574.1387



Pre-Drawn Plan ID:

BB-1292R

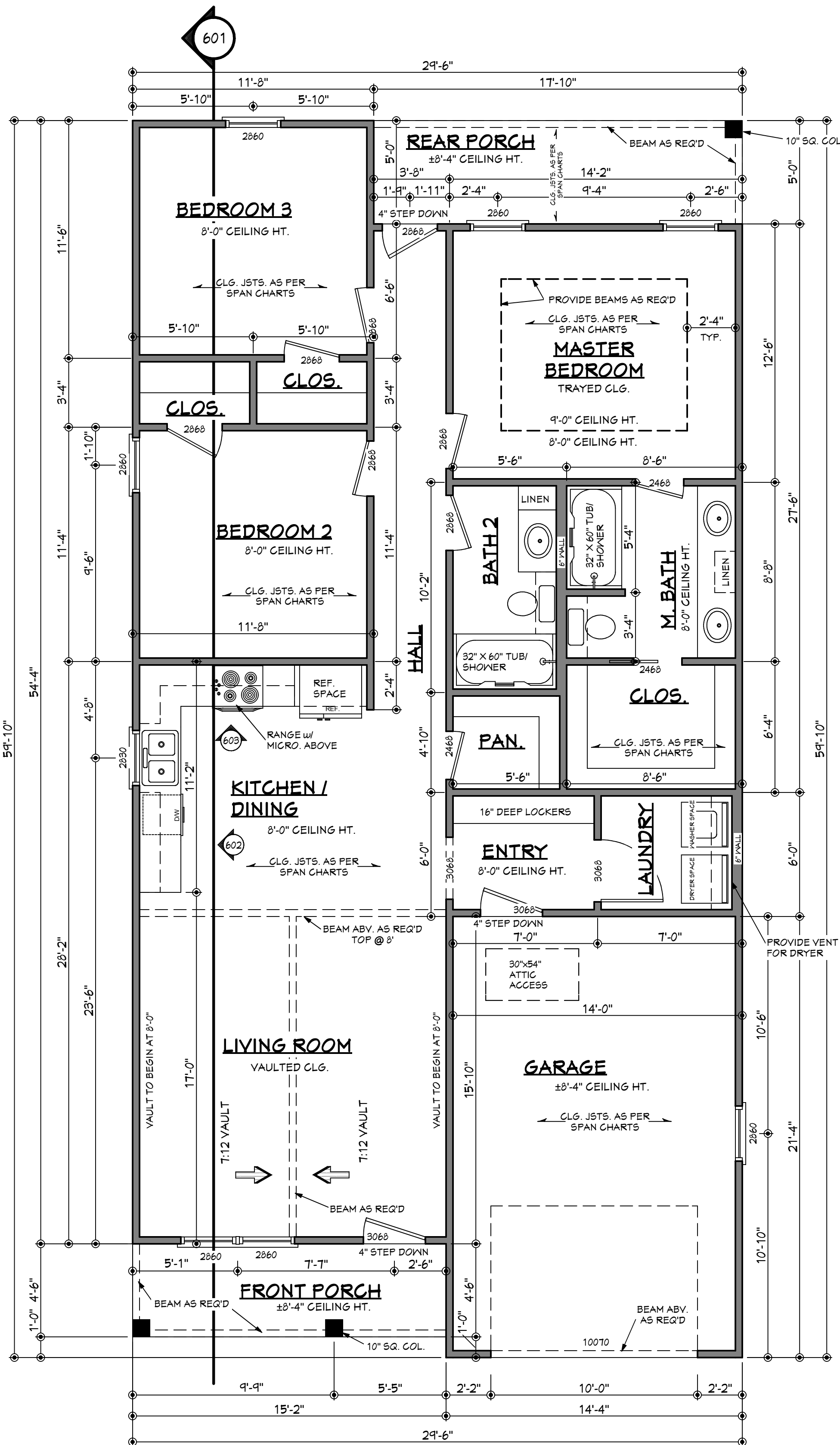
Date:
10/07/19

Drawn By:
R.B.W.

SHEET NUMBER

2

House Plan Zone, LLC, has exercised great care and effort in the development of these plans and the completion of these construction documents. However, the user assumes full responsibility for any damages, including structural failures resulting from errors, omissions or deficiencies in the design. House Plan Zone, LLC, highly recommends that these plans be reviewed by a licensed structural engineer in the area of construction. Other special conditions required by local building codes. All dimensions to be verified on site prior to construction. If a foundation plan has been included in these plans, it is general in nature and shall be verified by a licensed engineer prior to construction.



NOTE: WATER HEATER & HVAC UNIT TO BE LOCATED IN ATTIC SPACE.

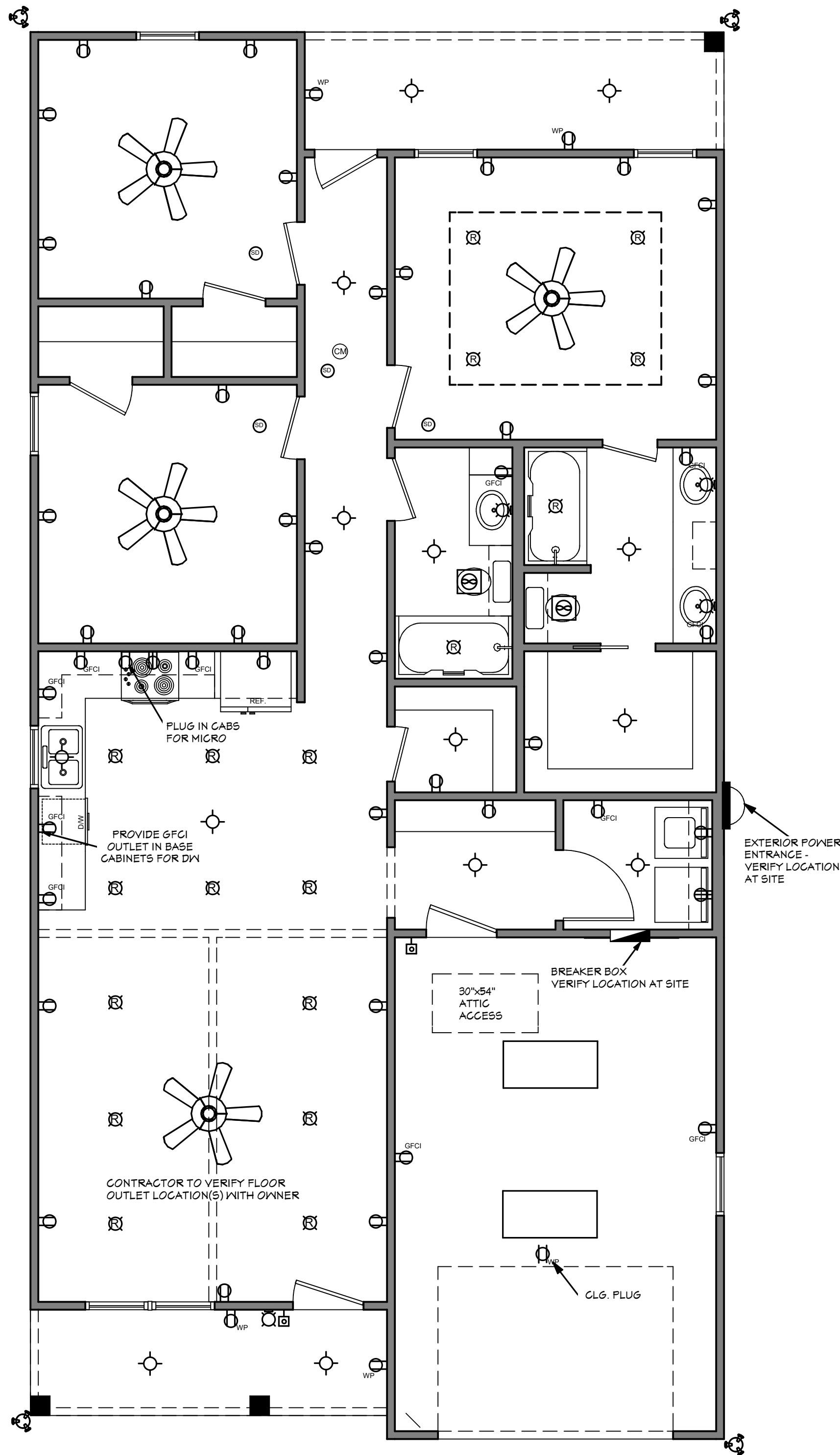
FLOOR PLAN

SCALE: 1/4"===== 1'-0"

AREAS:	1292	S.F. HEATED
	68	S.F. UNHEATED - FRONT PORCH
	300	S.F. UNHEATED - GARAGE
	89	S.F. UNHEATED - REAR PORCH
	457	S.F. TOTAL UNHEATED
	1749	S.F. TOTAL UNDER ROOF

NOTES:

1. ALL DIMENSIONS & SITE CONDITIONS TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.
2. ALL FINISHES (INTERIOR & EXTERIOR) TO BE VERIFIED WITH OWNER PRIOR TO CONSTRUCTION.
3. VERIFY ALL DOOR AND WINDOW STYLES AND SIZES WITH OWNER PRIOR TO CONSTRUCTION. MANUFACTURER TO SUPPLY ALL ROUGH OPENING SIZES.
4. CONTRACTOR TO VERIFY ALL CLEARANCES OF ALL DOORS, WINDOWS AND OTHER ITEMS THAT ARE CRITICAL, PRIOR TO CONSTRUCTION.
5. CONTRACTOR TO ADAPT PLANS AS REQUIRED TO MEET ALL APPLICABLE CODES AT SITE.
6. ALL BEAMS TO BE SIZED BY A LICENSED STRUCTURAL ENGINEER.
7. PORCHES, BALCONIES OR RAISED FLOOR SURFACES LOCATED MORE THAN 30 INCHES ABOVE THE FLOOR OR GRADE BELOW AT ANY POINT WITHIN 36 INCHES HORIZONTALLY SHALL HAVE GUARDS NOT LESS THAN 36 INCHES IN HEIGHT. OPEN SIDES OF STAIRS WITH A TOTAL RISE OF MORE THAN 30 INCHES ABOVE THE FLOOR OR GRADE BELOW SHALL HAVE GUARDS NOT LESS THAN 34 INCHES IN HEIGHT MEASURED VERTICALLY FROM THE NOSING OF THE TREADS. INSECT SCREENING SHALL NOT BE CONSIDERED AS A GUARD. IRC 2018, R312.1.1 & R312.1.2
8. M1305.1.2 APPLIANCES IN ATTICS. ATTICS CONTAINING APPLIANCES SHALL BE PROVIDED WITH AN OPENING AND A CLEAR AND UNOBSTRUCTED PASSAGEWAY LARGE ENOUGH TO ALLOW REMOVAL OF THE LARGEST APPLIANCE, BUT NOT LESS THAN 30 INCHES HIGH AND 22 INCHES WIDE AND NOT MORE THAN 20 FEET LONG MEASURED ALONG THE CENTERLINE OF THE PASSAGEWAY FROM THE OPENING TO THE APPLIANCE. THE PASSAGEWAY SHALL HAVE CONTINUOUS SOLID FLOORING IN ACCORDANCE WITH CHAPTER 5 NOT LESS THAN 24 INCHES WIDE. A LEVEL SERVICE SPACE AT LEAST 30 INCHES DEEP AND 30 INCHES WIDE SHALL BE PRESENT ALONG ALL SIDES OF THE APPLIANCE WHERE ACCESS IS REQUIRED. THE CLEAR ACCESS OPENING DIMENSIONS SHALL BE A MINIMUM OF 20 INCHES BY 30 INCHES, AND LARGE ENOUGH TO ALLOW REMOVAL OF THE LARGEST APPLIANCE.
- EXCEPTIONS:
 - a. THE PASSAGEWAY AND LEVEL SERVICE SPACE ARE NOT REQUIRED WHERE THE APPLIANCE CAN BE SERVICED AND REMOVED THROUGH THE REQUIRED OPENING.
 - b. WHERE THE PASSAGEWAY IS UNOBSTRUCTED AND NOT LESS THAN 6 FEET HIGH AND 22 INCHES WIDE FOR ITS ENTIRE LENGTH, THE PASSAGEWAY SHALL BE NOT MORE THAN 50 FEET LONG.
9. APPLIANCE ACCESS FOR INSPECTION SERVICE, REPAIR AND REPLACEMENT. APPLIANCES SHALL BE ACCESSIBLE FOR INSPECTION, SERVICE, REPAIR AND REPLACEMENT WITHOUT REMOVING PERMANENT CONSTRUCTION, OTHER APPLIANCES, OR ANY OTHER PIPING OR DUCTS NOT CONNECTED TO THE APPLIANCE BEING INSPECTED, SERVICED, REPAIRED OR REPLACED. A LEVEL WORKING SPACE AT LEAST 30 INCHES DEEP AND 30 INCHES WIDE SHALL BE PROVIDED IN FRONT OF THE CONTROL SIDE TO SERVICE AN APPLIANCE. M1305.1.1
10. EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL BE OPERATIONAL FROM THE INSIDE OF THE ROOM WITHOUT THE USE OF KEYS, TOOLS OR SPECIAL KNOWLEDGE. WINDOW OPENING CONTROL DEVICES COMPLYING WITH ASTM F 2090 SHALL BE PERMITTED FOR USE ON WINDOWS SERVING AS A REQUIRED EMERGENCY ESCAPE AND RESCUE OPENING. ALL SLEEPING ROOMS TO HAVE AN EXTERIOR ACCESS THROUGH A DOOR OR WINDOW WITH A MINIMUM OF 5.7 SQUARE FEET NET CLEAR OPENING AS PER IRC 2018 R310.2.1. EXCEPTION: GRADE FLOOR OR BELOW GRADE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5 SQUARE FEET. MAXIMUM SILL HEIGHT TO BE 44 INCHES. MINIMUM NET CLEAR OPENING HEIGHT TO BE 24 INCHES. MINIMUM NET CLEAR OPENING WIDTH TO BE 20 INCHES.
11. ALL RETURN AIR GRILLS ARE TO BE LOCATED TO COMPLY WITH SECTION M1602 OF THE IRC 2018.
12. ALL SQUARE FOOTAGE MEASUREMENTS ARE APPROXIMATE AND MAY DIFFER FROM ACTUAL CONSTRUCTED RESIDENCE OR BUILDING.
13. FIRE SPRINKLER SYSTEM TO BE DESIGNED AND INSTALLED (IF REQUIRED BY LOCAL CODES) AS PER THE IRC 2018 AND BY A LICENSED PROFESSIONAL IN THE AREA OF CONSTRUCTION.
14. ALL BATHROOM EXHAUST VENTS SHALL BE VENTED DIRECTLY TO THE EXTERIOR OF THE HOME AND NOT INTO THE ATTIC. IRC 2018, M1505.2



ELECTRICAL PLAN

SCALE: 1/4"===== 1'-0"

NOTE: SWITCHES AND ARCS NOT SHOWN. OWNER TO LOCATE THESE ITEMS DURING ELECTRICAL WALK-THROUGH WITH ELECTRICAL CONTRACTOR.

ELECTRICAL SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
	110 VOLT OUTLET
	GROUND FAULT PROTECTED OUTLET
	WEATHERPROOF OUTLET
	220 VOLT RECEPTACLE
	FLOOR OUTLET (OWNER TO LOCATE)
	CEILING HUNG FIXTURE
	OVERHANG MOUNTED FLOODLIGHTS
	WALL MOUNTED FLOODLIGHTS
	RECESSED CEILING FIXTURE
	FLUORESCENT LIGHT
	CARBON MONOXIDE DETECTOR
	SMOKE DETECTOR
	SWITCH
	THREE WAY SWITCH
	WALL MOUNTED LIGHT
	DIMMER SWITCH (OWNER TO LOCATE)
	DOOR ACTIVATED SWITCH
	WEATHERPROOF OUTLET
	CAT'S NETWORKING JACK (OWNER TO LOCATE)
	TELEPHONE OUTLET (OWNER TO LOCATE)
	TELEVISION OUTLET (OWNER TO LOCATE)
	DOORBELL BUTTON (CONTRACTOR TO LOCATE)
	THERMOSTAT (CONTRACTOR TO LOCATE)
	CEILING EXHAUST FAN, VENT TO EXTERIOR
	TV SPEAKER
	RADIO SPEAKER
	CEILING FAN ONLY, NO LIGHT KIT
	CEILING FAN WITH LIGHT KIT
	TRACK LIGHTING (OWNER TO LOCATE)
	WALL SCONCE (OWNER TO LOCATE)
	CHANDELIER 1 (O.T.S.)
	CHANDELIER 2 (O.T.S.)
	UNDER COUNTER LIGHTING
	EMERGENCY LIGHTING/ EXIT SIGN
ELECTRICAL NOTES: <ol style="list-style-type: none">1. ALL WORK SHALL COMPLY WITH ALL CODES APPLICABLE AT SITE.2. SMOKE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS: EACH SLEEPING ROOM, OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS, ON EACH ADDITIONAL STORY OF THE DWELLING, INCLUDING BASEMENTS AND HABITABLE ATTICS. WHEN MORE THAN ONE SMOKE ALARM IS REQUIRED TO BE INSTALLED WITHIN A DWELLING THE ALARM DEVICES SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTUATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE UNIT. SMOKE ALARMS SHALL BE HARD WIRED WITH A BATTERY BACK UP.3. CARBON MONOXIDE ALARMS SHALL BE INSTALLED OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS IN DWELLING UNITS WITHIN WHICH FUEL-FIRED APPLIANCES ARE INSTALLED AND IN DWELLING UNITS WITH ATTACHED GARAGES.4. A 125 VOLT, SINGLE PHASE, 15-20 AMPERE RATED RECEPTACLE OUTLET SHALL BE INSTALLED AT AN ACCESSIBLE LOCATION FOR THE SERVICING OF HEATING, AIR CONDITIONING AND REFRIGERATION EQUIPMENT. THE RECEPTACLE SHALL BE LOCATED ON THE SAME LEVEL AND WITHIN 25 FEET OF THE EQUIPMENT. THE RECEPTACLE OUTLET SHALL NOT BE CONNECTED TO THE LOAD SIDE OF THE HVAC EQUIPMENT DISCONNECTING MEANS.	

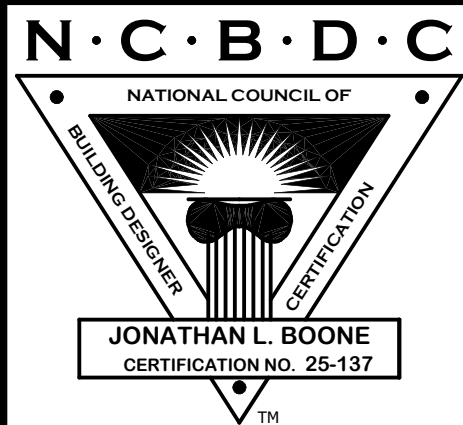
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Pre-Drawn Plan ID:

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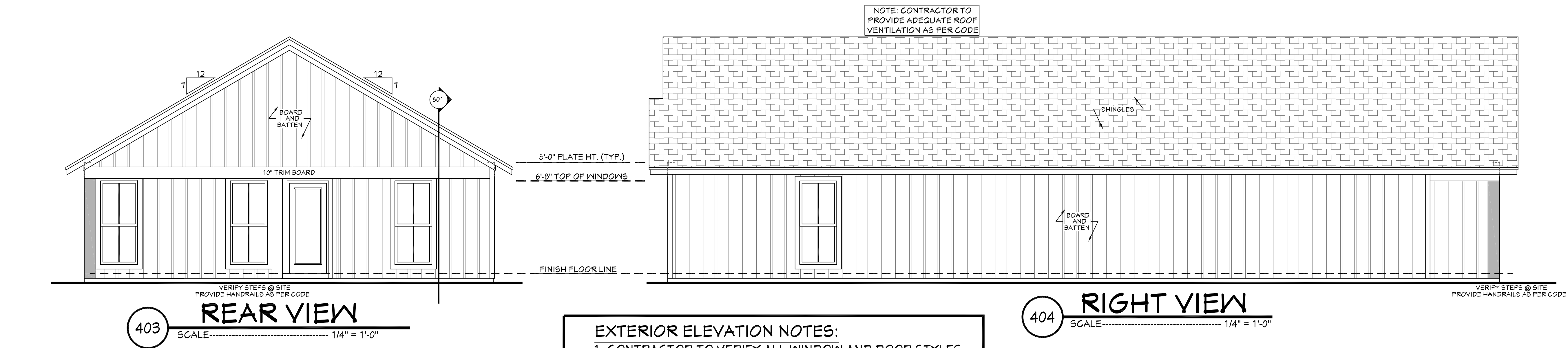
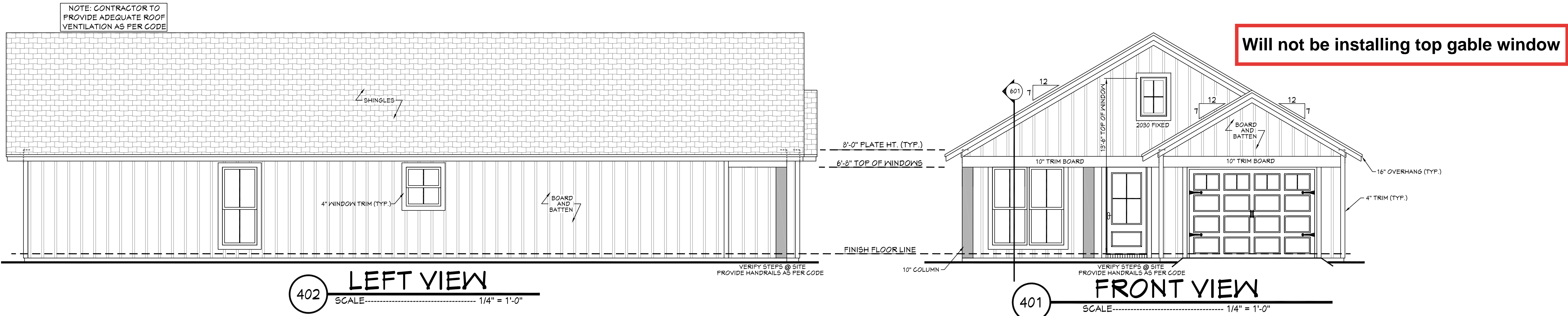
Date: 10/07/19

Drawn By: R.B.W.

Project Name:

SHEET NUMBER

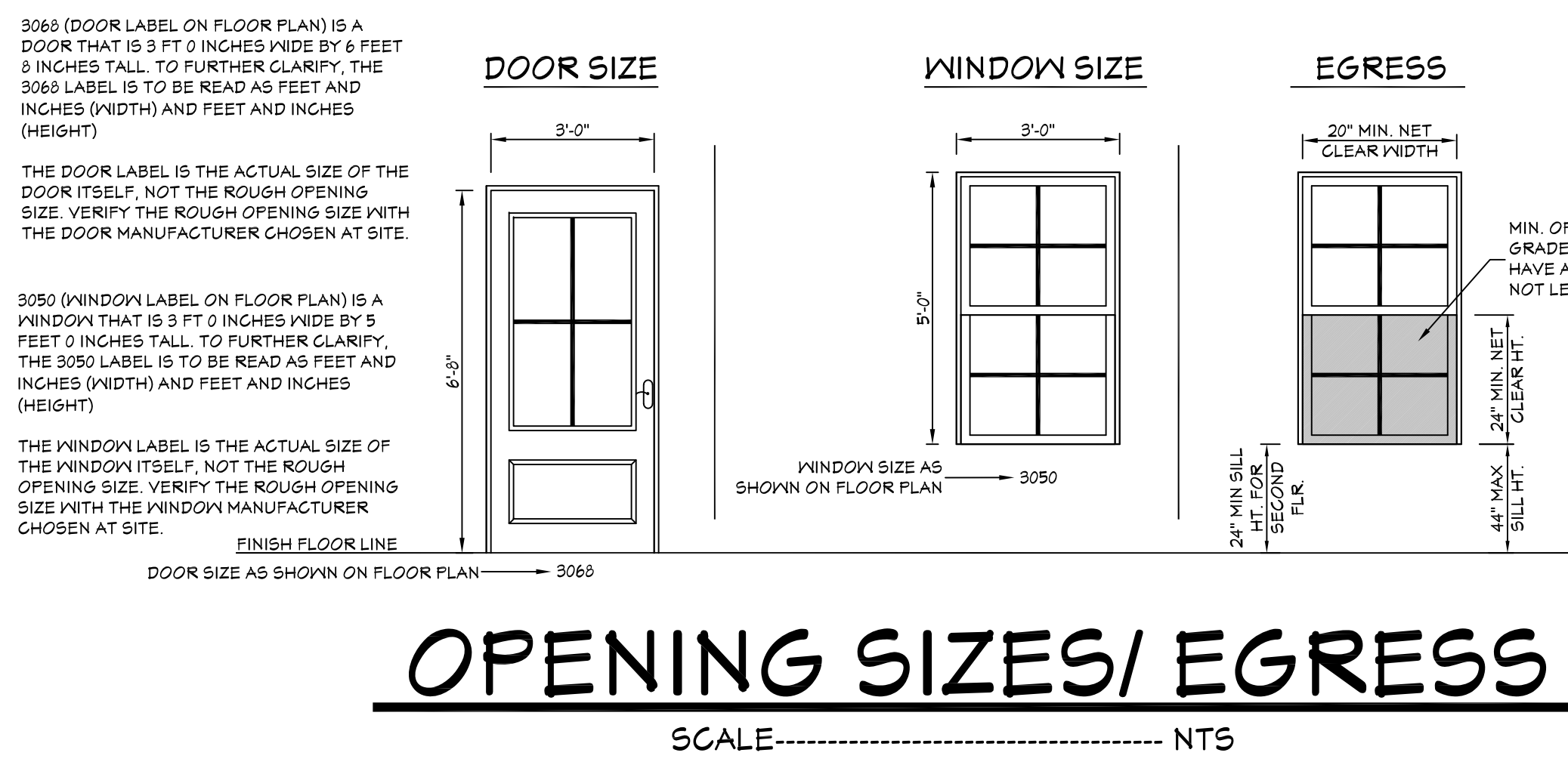
3



Insulation Detail:
Attic will be R-38 Blow-in, R-13 exterior walls,
and R-19 Floors

Siding: Front will be Board and batten style siding.
Sides and rear will be horizontal siding

- EXTERIOR ELEVATION NOTES:**
1. CONTRACTOR TO VERIFY ALL WINDOW AND DOOR STYLES AND SIZES WITH OWNER PRIOR TO CONSTRUCTION.
 2. PROVIDE STEPS AND GUARD RAILS AS PER CODE BASED ON SITE CONDITIONS.
 3. GROUND LINES SHOWN FOR REFERENCE ONLY AND VARY DEPENDING ON SITE CONDITIONS.
 4. ALL FINISH MATERIALS TO BE VERIFIED WITH OWNER PRIOR TO CONSTRUCTION.
 5. REFER TO TYPICAL WALL DETAIL FOR FRAMING METHODS AND OTHER MISC. INFORMATION.
 6. CONTRACTOR TO PROVIDE ADEQUATE ROOF VENTILATION AS REQ'D BY CURRENT CODES.



R311.1 Means of egress. Duellings shall be provided with a means of egress in accordance with this section. The means of egress shall provide a continuous and unobstructed path of vertical and horizontal egress travel from all portions of the dwelling to the required egress door without requiring travel through a garage. The required egress door shall open directly into a public way or to a yard or court that opens to a public way.

R310.2.1 Minimum opening area. Emergency and escape rescue openings shall have a net clear opening of not less than 5.7 square feet (0.530 m²). The net clear opening dimensions required by this section shall be obtained by the normal operation of the emergency escape and rescue opening from the inside. The net clear height opening shall be not less than 24 inches (610 mm) and the net clear width shall be not less than 20 inches (508 mm). Exception: Grade floor or below grade openings shall have a net clear opening of not less than 5 square feet (0.465 m²).

R310.2.2 Window sill height. Where a window is provided as the emergency escape and rescue opening, it shall have a sill height of not more than 44 inches (1118 mm) above the floor; where the sill height is below grade, it shall be provided with a window well in accordance with Section R310.2.3.

R310.2.3 Window wells. The horizontal area of the window well shall be not less than 4 square feet (0.4 m²), with a horizontal projection and width of not less than 36 inches (914 mm). The area of the window well shall allow the emergency escape and rescue opening to be fully opened. Exception: The ladder or steps required by Section R310.2.3.1 shall be permitted to encroach not more than 6 inches (152 mm) into the required dimensions of the window well.

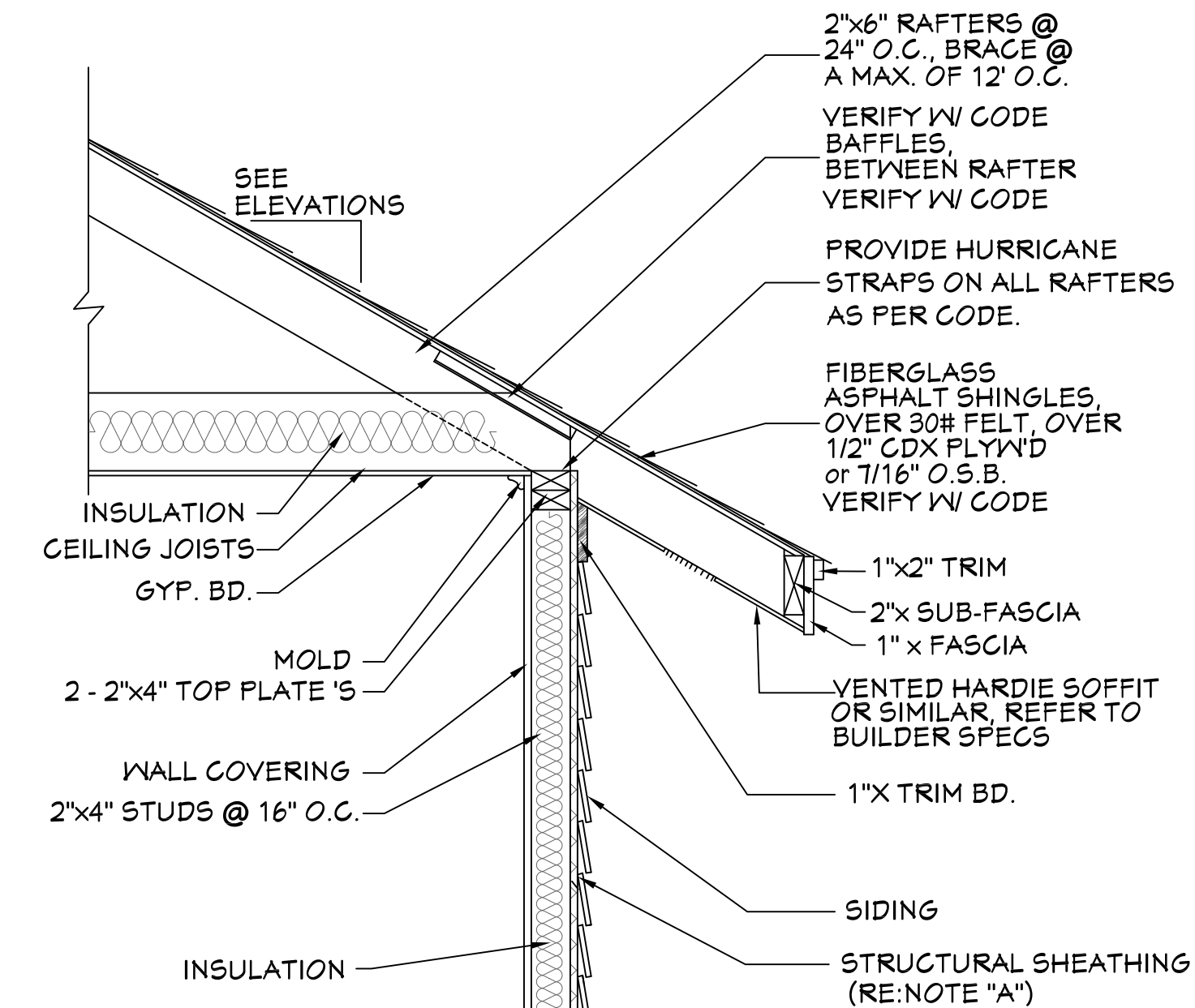
R310.2.3.1 Ladder and steps. Window wells with a vertical depth greater than 44 inches (1118 mm) shall be equipped with a permanently affixed ladder or steps usable with the window in the fully open position. Ladders or steps required by this section shall not be required to comply with Sections R311.7 and R311.8. Ladders or rungs shall have an inside width of not less than 12 inches (305 mm), shall project not less than 3 inches (76 mm) from the wall and shall be spaced not more than 18 inches (457 mm) on center vertically for the full height of the window well.

R312.2 Window fall protection. Window fall protection shall be provided in accordance with Sections R312.2.1 and R312.2.2.

R312.2.1 Window sills. In dwelling units, where the top of the sill of an operable window opening is located less than 24 inches (610 mm) above the finished grade or greater than 12 inches (124 mm) above the finished grade or other surface below on the exterior of the building, the operable window shall comply with one of the following:

1. Operable windows with openings that will not allow a 4-inch-diameter (102 mm) sphere to pass through the opening where the opening is in its largest opened position.
2. Operable windows that are provided with window fall prevention devices that comply with ASTM F 2040.
3. Operable windows that are provided with window opening control devices that comply with Section R312.2.2.

R312.2.2 Window opening control devices. Window opening control devices shall comply with ASTM F 2040. The window opening control device, after operation to release the control device allowing the window to fully open, shall not reduce the net clear opening area of the window unit to less than the area required by Section R310.2.1.



NOTE "A": PROVIDE A MINIMUM OF 7/16" STRUCTURAL WOOD PANEL ATTACHED w/ bd COMMON OR 10d BOX NAILS AT 4" SPACING ON EDGE AND 12" IN FIELD.

NOTE "B": CORNICE DETAIL FOR REFERENCE ONLY. REFER TO BUILDER SPECS FOR ACTUAL MATERIALS.



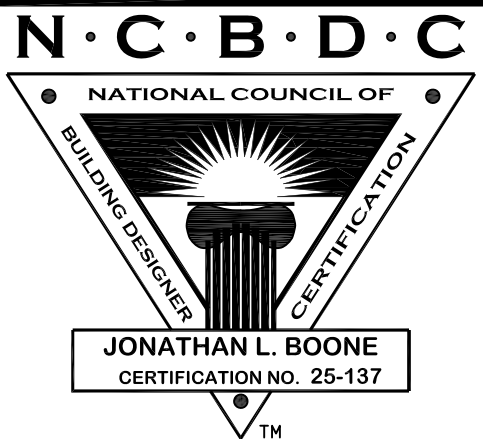
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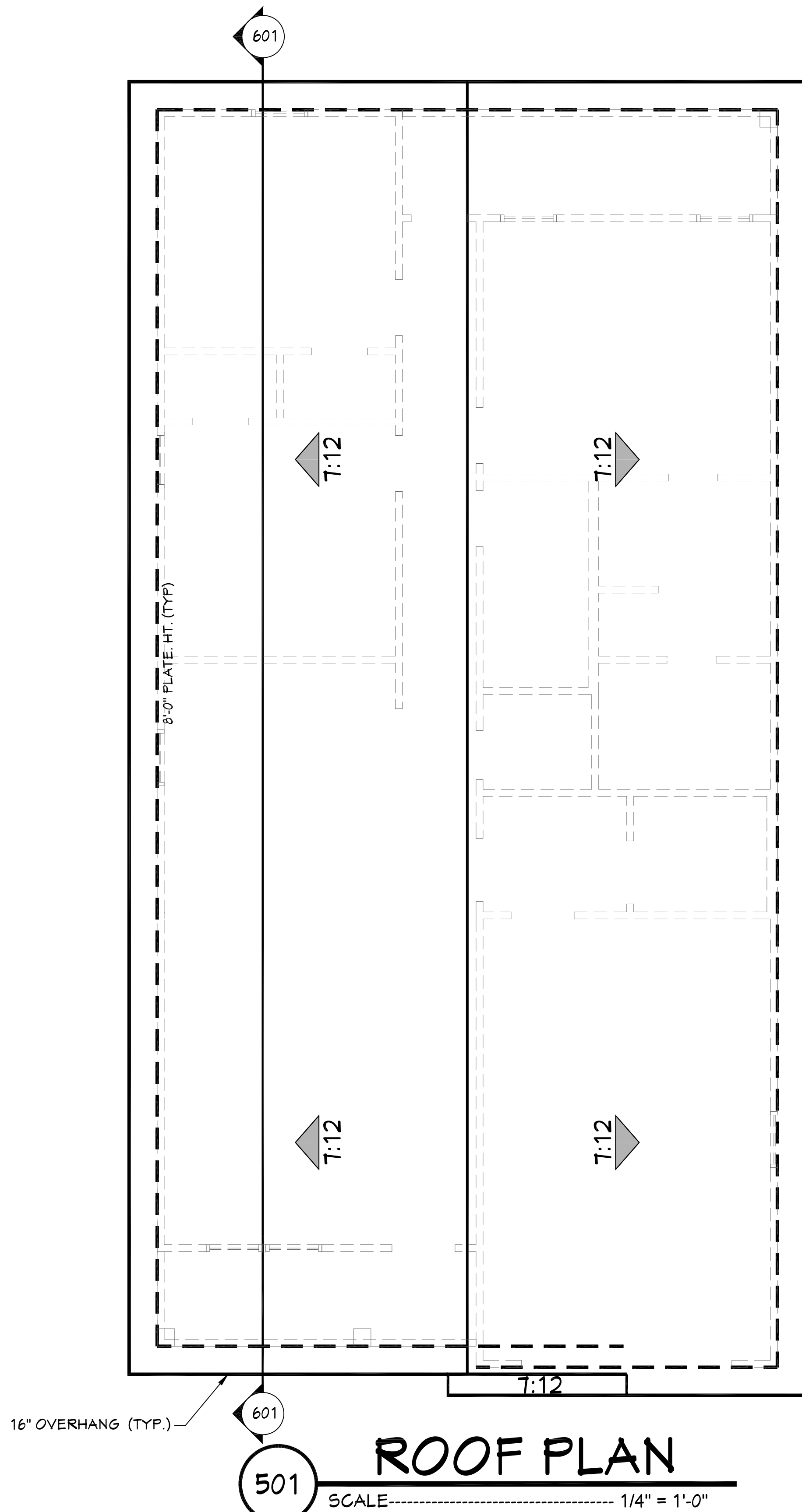


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R.B.W.

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4



ROOF PLAN NOTES:

1. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AT SITE.
2. ALL RIDGE BEAMS, HIP RAFTERS, & VALLEY RAFTERS TO BE 2" X 10", No.2 S.Y.P. OR AS REQ'D BY ENGINEER.
3. ALL RAFTERS TO BE SIZED AS PER SPAN CHART.
4. CONTRACTOR TO WATERPROOF ALL ROOF INTERSECTIONS AS PER CODE.
5. CONTRACTOR TO VERIFY ALL ROOF PITCHES WITH EXTERIOR ELEVATIONS PRIOR TO CONSTRUCTION.
6. CONTRACTOR TO PROVIDE ADEQUATE ROOF VENTILATION AS REQ'D BY CURRENT CODES.
7. ALL ROOF PENETRATIONS TO BE ON SIDES OR REAR OF RESIDENCE. ALL PVC VENTS SHALL BE PAINTED BLACK OR TO MATCH ROOFING.

RAFTER LENGTH CHART

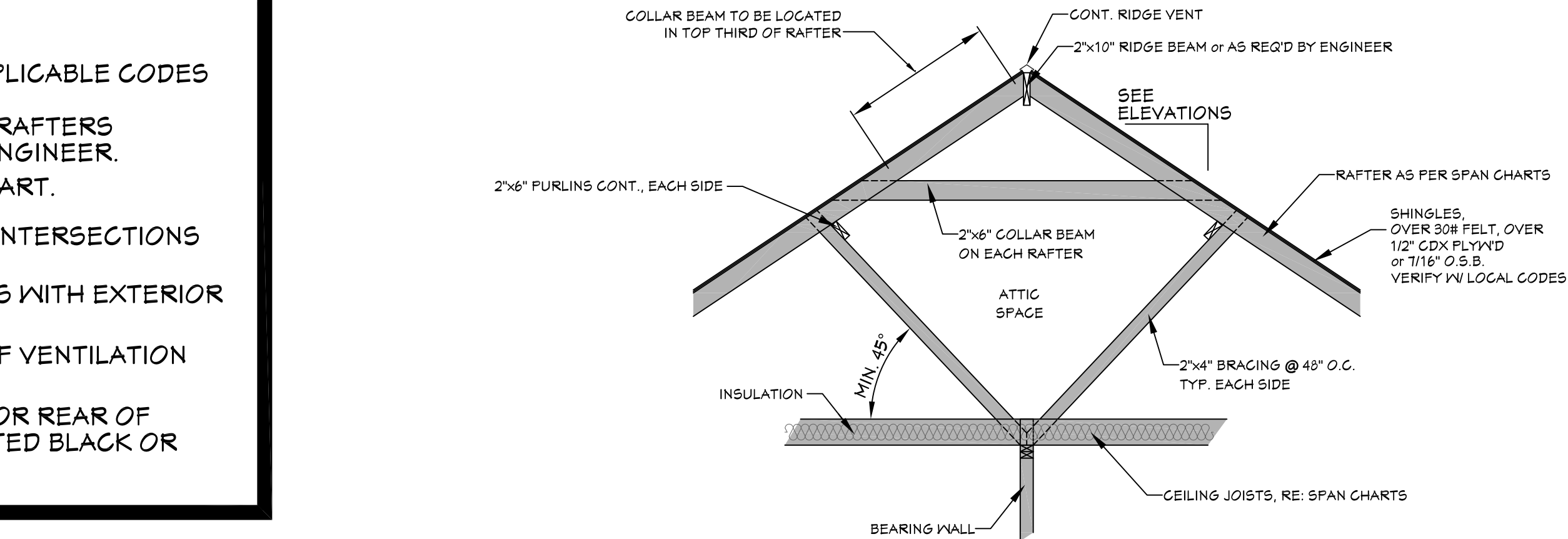
ROOF PITCH	FACTOR
3/12	1.05
4/12	1.07
5/12	1.10
6/12	1.14
7/12	1.17
8/12	1.20
9/12	1.25
10/12	1.30
11/12	1.35
12/12	1.40
14/12	1.54
16/12	1.70

MULTIPLY HORIZONTAL SPAN OF MEMBER BY FACTOR.
CHOOSE APPROPRIATE FACTOR BY ROOF PITCH.

HIP/ VALLEY CONVERSION

IF COMMON RAFTER ROOF PITCH IS...			THEN HIP/ VALLEY RAFTER ROOF PITCH BECOMES...		
RISE/ RUN	SLOPE		RISE/ RUN	SLOPE	
1/12	5°		1/17	3°	
2/12	10°		2/17	7°	
3/12	14°		3/17	10°	
4/12	18°		4/17	13°	
5/12	23°		5/17	16°	
6/12	27°		6/17	19°	
7/12	30°		7/17	22°	
8/12	34°		8/17	25°	
9/12	37°		9/17	28°	
10/12	40°		10/17	30°	
11/12	42°		11/17	33°	
12/12	45°		12/17	35°	

CONVERSION CHART FOR SIMPLE ROOFS ONLY.
CHART DOES NOT APPLY FOR DUAL PITCH ROOFS.



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TYP. ROOF BRACING

SCALE----- N.T.S.

RAFTER SPANS

RAFTER SPANS FOR SOUTHERN PINE SPECIES
LIVE LOAD=30psf, L/A=180 DEAD LOAD = 10psf

SIZE	SPACING (INCHES)	SPANS (MAXIMUM RAFTER SPANS BETWEEN BRACING) (FT. - IN.)
2 x 6	12.0	12-11
	16.0	11-2
	19.2	10-2
	24.0	9-2
2 x 8	12.0	16-4
	16.0	14-2
	19.2	12-11
	24.0	11-7
2 x 10	12.0	19-5
	16.0	16-10
	19.2	15-4
	24.0	13-9
2 x 12	12.0	22-10
	16.0	19-10
	19.2	18-1
	24.0	16-2

NOTES:

The above tables are based on the IRC 2018 TABLE R802.4.1(3)

CEILING JOIST SPANS

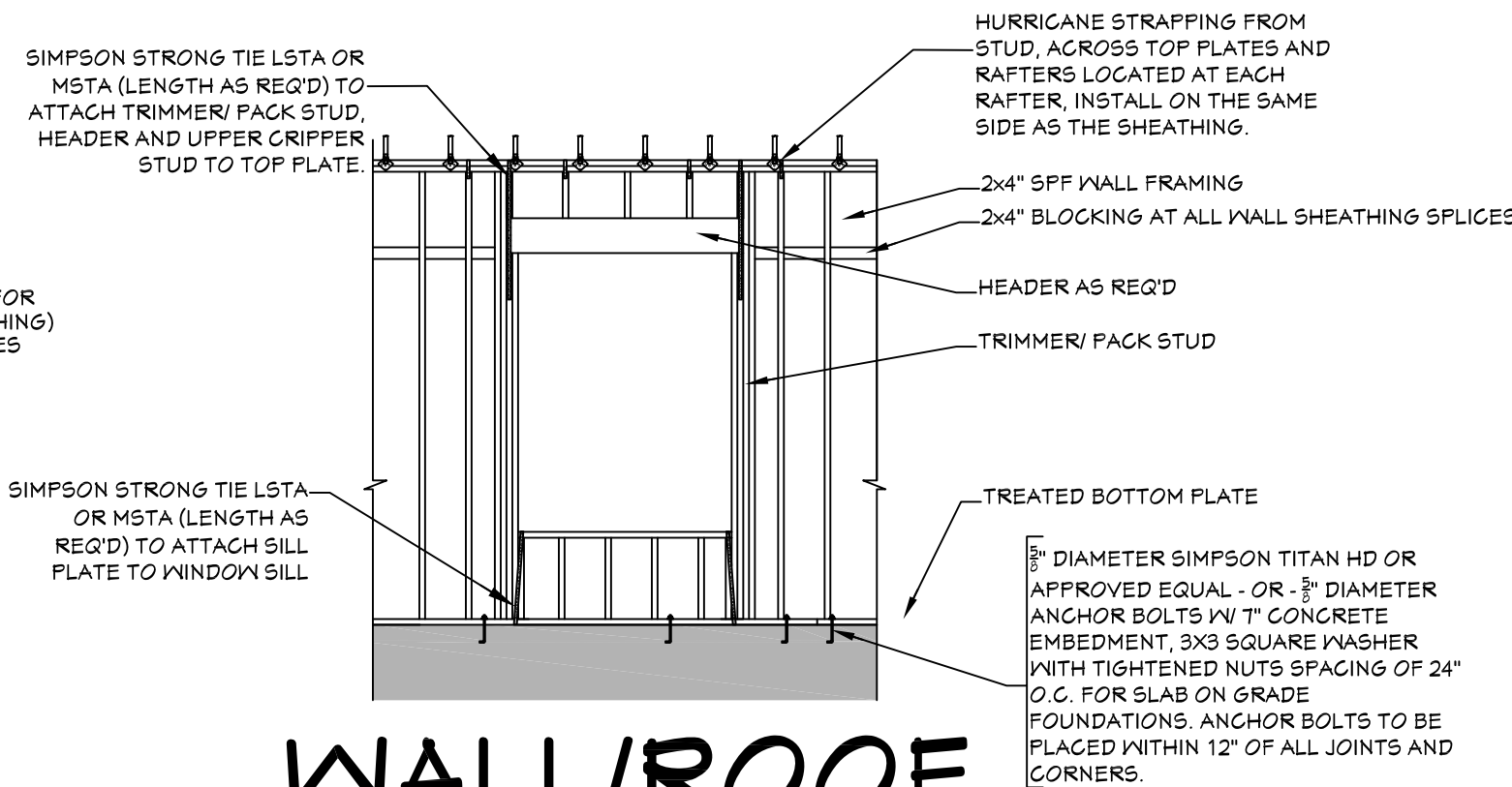
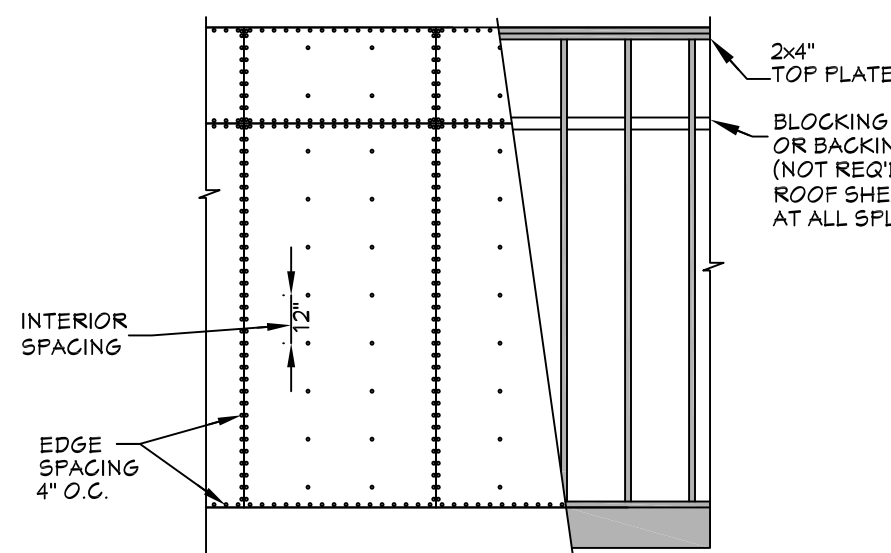
CEILING JOIST SPANS FOR SOUTHERN PINE SPECIES
(UNINHABITABLE ATTICS WITH LIMITED STORAGE,
LIVE LOAD = 20psf, L/A=240) DEAD LOAD = 10psf)

***IF HABITABLE ATTIC SPACE IS DESIRED,
REFER TO THE INTERNATIONAL RESIDENTIAL CODE, SPAN TABLES.***

SIZE	SPACING (INCHES)	VISUALLY GRADED #2 SOUTHERN PINE (MAXIMUM CEILING JOIST SPANS) (FT. - IN.)
2 x 4	12.0	9-3
	16.0	8-0
	19.2	7-4
	24.0	6-7
2 x 6	12.0	13-11
	16.0	12-0
	19.2	11-0
	24.0	9-10
2 x 8	12.0	17-7
	16.0	15-3
	19.2	13-11
	24.0	12-6
2 x 10	12.0	20-11
	16.0	18-1
	19.2	16-6
	24.0	14-9

NOTES:

The above tables are based on the IRC 2018 TABLE R802.5.1(2)



NAIL SIZE SPACING FOR WALL SHEATHING

8d NAILS
MIN. OF 7/16" O.S.B.
EDGE SPACING = 4" O.C.
INTERIOR SPACING = 12" O.C.

NAIL SIZE SPACING FOR ROOF SHEATHING

8d NAILS
MIN. OF 7/16" O.S.B.
EDGE SPACING = 4" O.C.
INTERIOR SPACING = 4" O.C.

NOTES:

1. ALL EXTERIOR SHEATHING TO EXTEND FROM BOTTOM
OF BOTTOM PLATE TO THE TOP OF THE TOP PLATES.
2. PROVIDE 2X4 OR GREATER COLLAR TIES ON EACH
RAFTER IN THE UPPER THIRD OF ATTIC AND ATTACHED
TO RAFTERS WITH 5 - 10d NAILS ON EACH SIDE
3. SHINGLES OR OTHER ROOF MATERIALS TO BE
FASTENED AS PER MANUFACTURERS INSTRUCTIONS
FOR HIGH WIND APPLICATIONS
4. EXTERIOR WALL FINISHES TO BE INSTALLED AS PER
MANUFACTURERS INSTRUCTIONS BASED ON HIGH
WIND APPLICATIONS.

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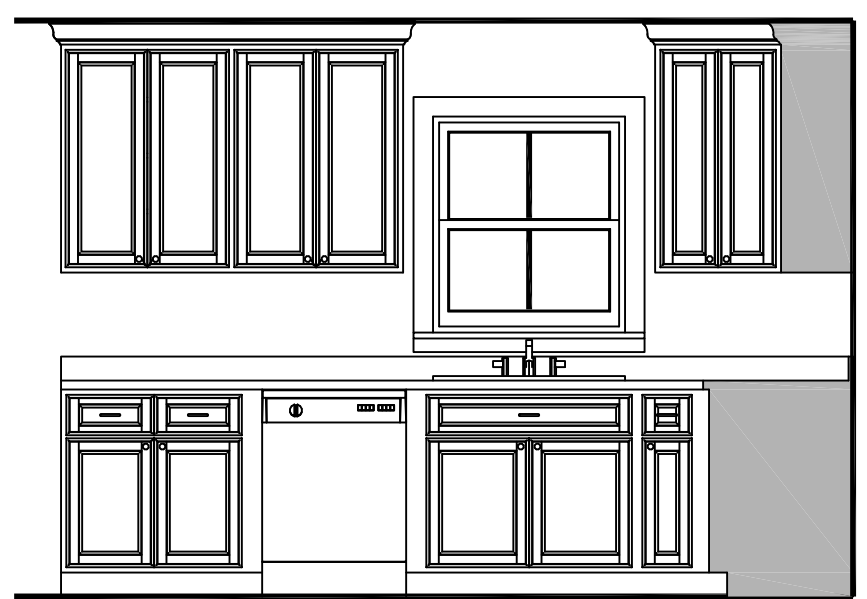
5

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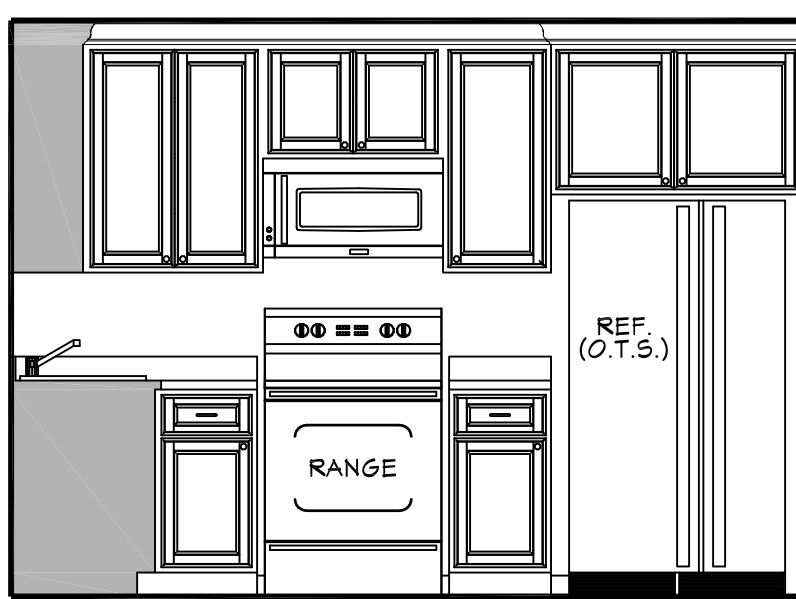
- CROSS SECTION NOTES:**
1. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AT SITE.
 2. ALL RIDGE BEAMS, HIP RAFTERS, & VALLEY RAFTERS TO BE 2" x 10", OR AS REQ'D BY ENGINEER.
 3. CONTRACTOR TO PROVIDE RAFTER BRACING TO MEET APPLICABLE CODES.
 4. CONTRACTOR TO THOROUGHLY WATERPROOF ALL EXTERIOR INTERSECTIONS AS PER CODE AND TYPICAL BUILDING PRACTICES.
 5. ALL BEAMS TO BE SIZED BY A LICENSED STRUCTURAL ENGINEER.
 6. ALL LUMBER SIZES AND SPACING TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.
 7. CONTRACTOR TO PROVIDE ADEQUATE ROOF VENTILATION AS REQ'D. BY CURRENT CODES.



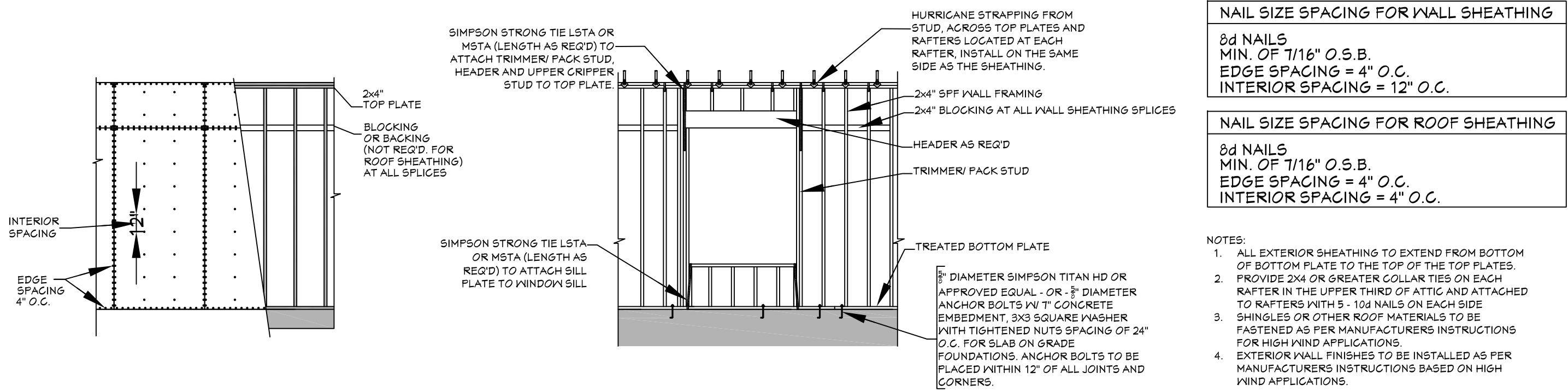
601 CROSS SECTION
SCALE-----3/8"=1'-0"



602 KITCHEN
SCALE-----3/8"=1'-0"



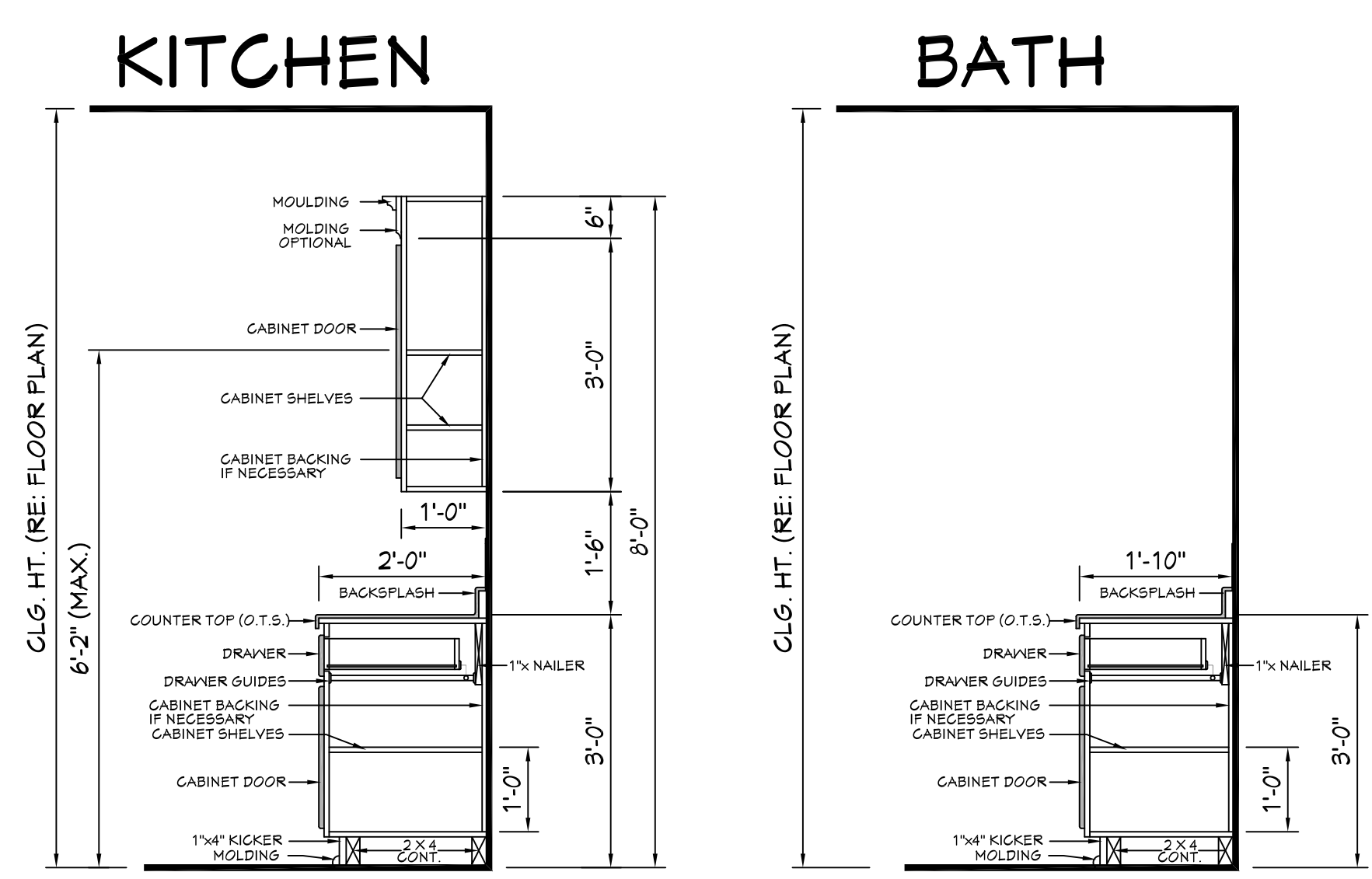
603 KITCHEN
SCALE-----3/8"=1'-0"



604 WALL/ROOF FASTENING DETAILS
SCALE----- N.T.S.

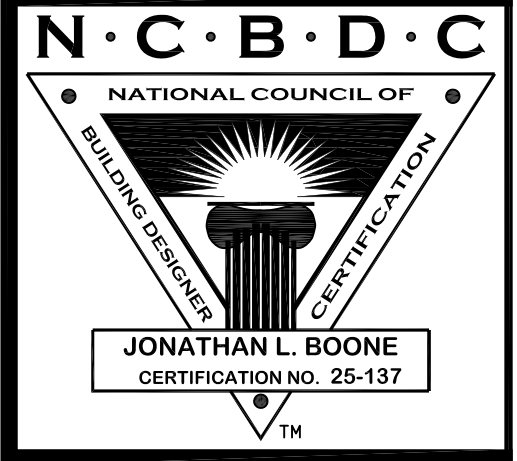
NAIL SIZE SPACING FOR WALL SHEATHING
8d NAILS MIN. OF 7/16" O.S.B. EDGE SPACING = 4" O.C. INTERIOR SPACING = 12" O.C.
NAIL SIZE SPACING FOR ROOF SHEATHING
8d NAILS MIN. OF 7/16" O.S.B. EDGE SPACING = 4" O.C. INTERIOR SPACING = 4" O.C.

- NOTES:
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 2. PROVIDE 2X4 OR GREATER COLLAR TIES ON EACH RAFTER IN THE UPPER THIRD OF ATTIC AND ATTACHED TO RAFTERS WITH 5 - 10d NAILS ON EACH SIDE.
 3. SHINGLES OR OTHER ROOF MATERIALS TO BE FASTENED AS PER MANUFACTURERS INSTRUCTIONS FOR HIGH WIND APPLICATIONS.
 4. EXTERIOR WALL FINISHES TO BE INSTALLED AS PER MANUFACTURERS INSTRUCTIONS BASED ON HIGH WIND APPLICATIONS.



605 TYP. CAB. SECTIONS
SCALE-----N.T.S.

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