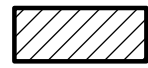






**3-B-25-HZ**  
**APPLICATION FOR CERTIFICATE OF APPROPRIATENESS**

 **210 Canler Ave. 37921**  
**Mechanicsville H**

Original Print Date: 3/6/2025  
Knoxville/Knox County Planning -- Historic Zoning Commission

Petitioner: R. Bentley Marlow, Marlow Builders Inc.

  
  
0 250  
Feet



# Staff Report

Knoxville Historic Zoning Commission

File Number: 3-B-25-HZ

**Meeting:** 7/17/2025  
**Applicant:** R. Bentley Marlow, Marlow Builders Inc.  
**Owner:** R. Bentley Marlow, 210 Cansler LLC

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## Property Information

**Location:** 210 Cansler Ave. **Parcel ID** 94 K D 002  
**District:** Mechanicsville H  
**Zoning:** RN-2 (Single-Family Residential Neighborhood)  
**Description:** N/A  
Vacant lot.

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## Description of Work

Level III Construction of New Primary Building

New primary structure fronting Cansler Avenue. The one-story duplex measures 22' wide by 65' deep, with the second unit behind the first. The main massing is proposed to be set 15.5' from the front property line (porch at 7.5'). There is no parking indicated on the site plan.

The duplex features a 12/12 pitch front-gable roof clad with architectural asphalt shingles, and the roofline features 1' eave overhangs and faux rafter tails on the side elevations. The front-gable fields are clad in faux cedar shakes and feature a 16" square decorative vent and an architectural bracket at the apex. The façade features a full-length, 8' deep concrete slab front porch with a 6/12 pitch half-hipped roof and is supported by four 6x6 pressure treated wood posts. The porch does not feature any railings, and the steps will be made of concrete. There is a similar 8' deep porch on the rear elevation.

The building will be clad in composite wood ("Hardie or similar") lap siding with wooden corner boards and trim, and it will rest on a 2'-6" tall painted concrete block foundation. The façade features three adjoining 1/1 single-hung windows followed by a paneled door on the right. The left elevation features two horizontal sliding windows, four 1/1 single hung window, and the primary entrance to the rear unit, which is recessed 3' from the main massing with a 4' wide concrete stoop. The right elevation features six 1/1 single hung windows and a 2' wide faux chimney clad in siding that projects 1' from the main massing and terminates at the roofline. The rear elevation features two paneled doors, which are secondary entrances for the rear unit and are recessed under the porch. All windows and doors feature 1x4 wooden trim, and all windows feature projecting sills. The window and door materials are not specified.

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## Applicable Design Guidelines

Mechanicsville Design Guidelines, adopted by the Knoxville City Council on September 20, 2011.

A. Rules for Roofs

1. The shape of replacement roofs or roofs on new construction shall imitate the shapes of roofs on neighboring existing houses or other houses of the same architectural style. Roof pitch must duplicate the 12/12 pitch most

often found in the neighborhood, the roof pitch typical of the style being referenced by a new building, or the pitch of neighboring buildings. Roof shapes must be complex, using a combination of hips with gables, dormers, or where appropriate to the style, turrets, or other features that emphasize the importance of Victorian-era or Craftsman styling.

2. The eaves on additions or new buildings must have an overhang that mimics existing buildings near the property. A minimum eave overhang of at least eight inches must be retained or used on new buildings or additions to existing buildings.

3. Repair or replace roof details (chimneys, roof cresting, finials, attic vent windows, molding, bargeboards, and other unique roof features). Use some of these details in designing new buildings.

#### C. Rules for Porches

2. Design elements to be incorporated in any new porch design must include tongue and groove wood floors, beadboard ceilings, wood posts and/or columns, and sawn and turned wood trim when appropriate. If balustrades are required, they must be designed with spindles set into the top and bottom rails.

3. In new construction, the proportion of the porches to the front facades must be consistent with the historic porches in the neighborhood.

#### D. Rules for Entrances

4. A new entrance or porch must be compatible in size, scale, or material.

6. Secondary entrances must be compatible with the original in size, scale, and materials, but clearly secondary in importance.

#### E. Rules for Wood Wall Coverings

1. Synthetic siding is inappropriate and is not allowed either as replacement siding on existing buildings or new siding in new construction.

4. New construction must incorporate corner and trim boards and appropriate door and window trim to be compatible with the adjacent historic buildings.

12. Concrete siding (also called Hardi-board) is allowed on outbuildings and garages for new construction only. The material can be used like board and batten if placed vertically. Batten strips of wood must be used, however, to preserve the look of historic materials. If used like normal siding, it must have a reveal of no more than 4.25 inches.

#### F. Rules for Masonry Wall Coverings

8. Split-faced block shall not be used in new construction or as a replacement for deteriorated masonry units. One exception is split-faced block which can be used as a retaining wall.

10. Stucco-surfaced masonry can be appropriate for foundations in new construction. Brick and stone can also be appropriate.

#### Rules for New Building Construction

##### O. Setbacks and Placement on the Lot

1. Maintain the historic façade lines of streetscapes by locating the front walls of new buildings in the same plane as those of adjacent buildings. If existing setbacks vary, a new building's setback shall respect those of adjacent buildings.

2. Do not violate the existing setback pattern by placing new buildings in front of or behind historic buildings on the street.

3. Do not place new buildings at odd angles to the street.

4. Side yard setbacks for new buildings shall be consistent with those of existing historic buildings, so gaps are not left in the streetscape.

##### P. Scale and Massing

1. Relate the size and proportions of new structures to the scale of adjacent buildings.

2. Break up uninteresting boxlike forms into smaller varied masses like those found on existing buildings by the use

of bays, extended front porches, and roof shapes.

3. New buildings must reinforce the scale of the neighborhood by their height, width, and massing.
4. New buildings must be designed with a mix of wall areas with door and window elements in the façade like those found on existing buildings.
5. Roof shapes must relate to the existing buildings, as must roof coverings.

#### Q. Height of Foundation and Stories

1. Avoid new construction that varies in height, so that new buildings are equal to the average height of existing buildings.
2. The foundation height of new buildings shall duplicate that of adjacent buildings, or be an average of adjacent building foundation heights.
3. For new buildings with more than one story, beltcourses or other suggestions of divisions between stories that suggest the beginnings of additional stories shall be used.
4. The eave lines of new buildings shall conform to those of adjacent properties.

#### R. Materials

1. The materials used for new building exteriors shall be consistent with materials already found on buildings on the street.
2. Artificial siding and split face block are not acceptable materials for use on new buildings.

#### S. Features

1. Design new buildings with a strong sense of a front entry.
2. Use front porches in new designs, and make the size of those porches useable for sitting. New porches shall be at least eight feet deep, shall contain design features such as columns and balustrades that introduce architectural diversity, and shall extend across more than half of the front façade.

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## Comments

N/A

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## Staff Findings

1. The applicant intends to use Article 4.6 of the zoning code, the Middle Housing standards, which are "intended to promote the development of neighborhood-scale housing forms which are compatible with existing housing in the surrounding area," and "may allow more flexible development of land than is possible under the base district zoning regulations," subject to additional dimensional, design, and parking standards. Middle Housing review occurs separately through Plans Review and Inspection staff; the HZC review focuses on how the project meets the design guidelines. The applicant received a variance from Article 4.6 to increase the maximum depth of a side-by-side duplex from the Board of Zoning Appeals on April 22. It should be noted that a request to reduce the side setbacks from 5' to 3' was denied on May 20, so the applicant will need to receive an administrative variation for the proposed 4' side setbacks during Middle Housing review. Some elements of Middle Housing review may trigger site plan and building elevation revisions, which would require additional review by the HZC.
2. The lot to receive new construction is a 30' wide, 140' deep vacant lot which previously featured a single-story, modest Folk Victorian-style, shotgun house (demolished by 2015) with a width, depth, form, and roofline comparable to the proposed new duplex. New construction in the overlay in the last twenty years has been more elaborate in style and detail; however, the proposed street to receive new construction is relatively modest in housing stock. The proposed single-story shotgun form and modest style is appropriate for the context.
3. Guidelines encourage maintaining the historic façade line of the streetscape and aligning new buildings within the existing setback pattern of the street, which is echoed by the Middle Housing standards (requiring a front setback within five feet, plus or minus, of the blockface average). The average front setback of the blockface is 17.4'. The

house is proposed to be 15.5' from the front property line, with an 8' deep front porch located 7.5' from the front property line. The front and side setbacks are consistent with the block.

4. Overall, the scale and proportions of the new duplex are similar to other single-story shotgun houses and duplexes on the block and in the broader neighborhood. The building is compatible with the neighborhood's scale, height, width, and massing. The proposed foundation height is comparable to other house's foundation heights on the block.

5. Guidelines recommend "break[ing] up uninteresting boxlike forms into smaller varied massings ... by the use of bays, extended front porches, and roof shapes." The proposed duplex uses front and rear porches and a 2' wide chimney to break up the massing, but the Commission should discuss if additional variation is necessary on the large side elevations.

6. Guidelines encourage new construction to feature porches similar to others on the block that are at least 8' deep with wood beadboard ceilings and wood tongue and groove floors. Most houses on the block feature a full-width front porch. The proposed 8' deep porch is similar in design to multiple houses on the block, but the porch flooring and ceiling materials will need to be revised.

7. The proposed 12/12-pitch, front-gable roof clad in architectural shingles meets the design guidelines for pitch and materials, and it benefits from details like the rafter tails, overhanging eaves, gable brackets, and decorative vents that align with the context.

8. Guidelines discourage split-face block. The proposed painted CMU foundation should be clad in stucco, parge-coated, or clad in brick veneer to better align with historic materials in the neighborhood.

9. The guidelines note that "synthetic siding is inappropriate and not allowed [...] as new siding in new construction," limiting "concrete siding (also called Hardi-board) allowed on outbuildings and garages for new construction only." Other historic zoning overlays (including Fourth and Gill, Old North Knoxville, and Edgewood-Park City) have approved fiber cement lap siding (typically with a smooth finish, 4-5" in exposure) on new construction through the design review process, and with the general consent of the neighborhood. However, the Mechanicsville neighborhood has not been supportive of the use of fiber cement siding and the HZC recently required the use of wood lap siding on the adjacent, similar project at 216 Cansler Avenue. The siding material should be revised to wood lap siding.

10. Guidelines recommend that new buildings use materials consistent with the street and the surrounding neighborhood. Materials are not specified for the proposed windows, but they should be wood or aluminum-clad wood. Most of the windows are 1/1 and single-hung, which are appropriate, but the design includes slider windows which are not a historic window form and should be revised to single-hung or casement operation.

Guidelines recommend a "strong sense of entry," which is achieved via a half-light door accessed via a full-length front porch. The proposed door selection should be compatible with the rest of the house; basic steel or synthetic doors should not be used.

The chimney on the right elevation should be clad in brick instead of siding, and rest on a brick foundation, to be compatible with the historic chimneys in the neighborhood. The chimney should also extend above the roofline with a height and width proportionate to other historic chimneys in the neighborhood.

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## Staff Recommendation

Staff recommends approval of Certificate 3-B-25-HZ, subject to the following conditions:

1) meeting all relevant standards of the City Zoning code, including Articles 4.6 and 9.3.J;

- 2) foundation to be parge-coated or clad in stucco or brick veneer;
- 3) the front porch feature wood tongue-and-groove flooring and a wood beadboard ceiling;
- 4) slider windows to be revised to single or double-hung or casement operation and all windows to be either wood or aluminum-clad wood with wood trim and projecting sills, with final specifications submitted to staff for approval;
- 5) siding material to be wood lap siding;
- 6) front door specifications to be submitted to staff for approval;
- 7) chimney to be clad in brick and extend above the roofline, with a height and size proportionate to historic chimneys in the neighborhood.



# DESIGN REVIEW REQUEST

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

R. Bentley Marlow

Applicant		
4 February 2025	20 March 2025	3-B-25-HZ
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

R. Bentley Marlow		Marlow Builders, Inc.	
Name		Company	
322 Douglas Avenue		Knoxville	Tennessee 37921-4813
Address		City	State Zip
865-607-4357		rbentleymarlow@gmail.com	
Phone		Email	

## CURRENT PROPERTY INFO

210 Cansler, LLC	322 Douglas Avenue	865-607-4357
Owner Name (if different from applicant)	Owner Address	Owner Phone
210 Cansler Avenue	094KD002	
Property Address	Parcel ID	
Mechanicsville	TDR/RN2	
Neighborhood	Zoning	

## AUTHORIZATION

	Lindsay Lanois	2.28.25
Staff Signature	Please Print	Date
	R. Bentley Marlow	4 February 2025
Applicant Signature	Please Print	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: New primary structure  
\_\_\_\_\_  
\_\_\_\_\_

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:	TOTAL: 250.00
250.00	
FEE 2:	
FEE 3:	Pd 02/28/2025, SG



# CANSLER AVE DUPLEX NEW RESIDENTIAL CONSTRUCTION

210 Cansler Ave, Knoxville, Tennessee

**DETAIL CALLOUT**



**ELEVATION MARKER**



**DETAIL SECTION MARKER**



**BUILDING SECTION MARKER**



**INTERIOR ELEVATION MARKER**



**NORTH INDICATOR**



**ELEVATION MARKER**



**SPOT ELEVATION**



F.F.E. = FINISH FLOOR ELEVATION

**FLOOR PLAN TAGS**



ROOM NAME  
Length x Width (100 SF)  
APPROXIMATE INTERIOR SQUARE FOOTAGE  
APPROXIMATE INTERIOR LENGTH AND WIDTH



ROOM NAME  
Floor Finish (100 SF)  
APPROXIMATE INTERIOR SQUARE FOOTAGE  
FLOOR FINISH



IDENTIFIER  
WINDOW TYPE IF SCHEDULED



IDENTIFIER, SIZE IN INCHES  
WINDOW TYPE ON FLOOR PLAN



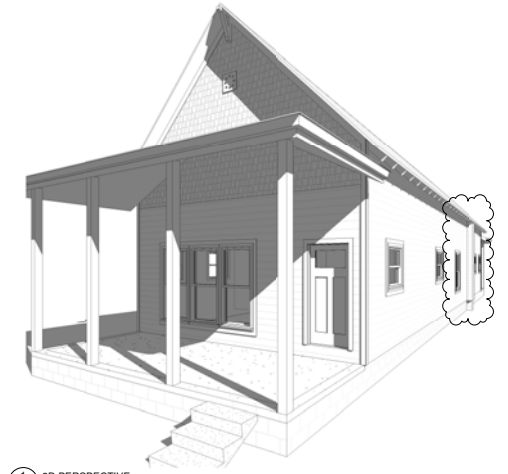
IDENTIFIER, DOOR TYPE  
DOOR SIZE, N INCHES, ON FLOOR PLAN



IDENTIFIER  
PARTITION TYPE



IDENTIFIER  
REVISION NUMBER



3D PERSPECTIVE



KEY MAP

NTS

SHEET NUMBER	SHEET NAME	Sheet Issue Date	Current Revision Description	Current Revision Date
01 - GENERAL				
G000	PROJECT INFORMATION	2/4/2025	MH R1	6/26/2025
G001	CONSTRUCTION NOTES	2/4/2025		
G002	CONSTRUCTION NOTES	2/4/2025		
G003	UL ASSEMBLIES	2/4/2025		
05 - ARCHITECTURAL				
A100	FOUNDATION PLAN, FLOOR PLAN, & ROOF PLAN	2/4/2025	MH R1	6/26/2025
A102	SCHEMATIC FRAMING PLANS & WALL SECTION	2/4/2025	MH R1	6/26/2025
A200	EXTERIOR ELEVATIONS & SITE PLAN	2/4/2025	MH R1	6/26/2025
A304	WALL SEALING DETAILS	2/4/2025		

**OWNER**

Marlow Builders, Inc.  
322 Douglas Ave  
Knoxville, TN 37921  
CONTACT: Bentley Marlow  
CELL PHONE: (865) 607-4357  
EMAIL: rbentleymarlow@gmail.com

**ARCHITECT**

oysk<sup>3</sup> architects  
1545 Western Avenue, Suite 100  
Knoxville, TN 37921  
CONTACT: Cara Knapp  
OFFICE PHONE: (865) 523-8200  
EMAIL: office@oysk3architects.com

**FACILITY AND CODE COMPLIANCE**

PARCEL DESCRIPTION 094K002  
SUBDIVISION MOSES FAIRVIEW PT 46  
PROPERTY ZONE RN-2  
PROPERTY SIZE 0.09 ACRES  
BUILDING SQUARE FOOTAGE MAIN FLR: 1378 SF  
TOTAL: 1378 SF  
FLOOR LEVELS ONE STORY  
CONSTRUCTION CLASSIFICATION V-B, UNPROTECTED, UNSPRINKLERED  
OCCUPANCY CLASSIFICATION RESIDENTIAL  
OCCUPANT LOAD 1378/200 = 7 OCCUPANTS  
RATED WALLS NONE  
DETECTION AND ALARM SYSTEMS LINE VOLTAGE, INTERCONNECTED, SMOKE DETECTORS IN EACH BEDROOM AND OUTSIDE EACH BEDROOM IN CLOSE PROXIMITY, WITH BATTERY BACKUP, SMOKE ALARM TO BE PLACED NO LESS THAN 30 HORIZONTALLY FROM THE OUTSIDE OF A BATHROOM DOOR CONTAINING A BATH TUB/SHOWER.  
EMERGENCY ILLUMINATION NOT REQUIRED  
MAX TRAVEL DISTANCE TO EXITS < 75' OR < 100' IF SPRINKLERED  
FIRE EXTINGUISHERS PROVIDED BY OWNER

**BUILDING STANDARDS**

**SCOPE OF WORK:**  
1-STORY DUPLEX, WOOD FRAME ON CMU FOUNDATION, WITH TYPICAL UTILITIES, SITE GRADING AS REQUIRED.  
**ADOPTED CODES:**  
ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL CODES.  
2024 INTERNATIONAL RESIDENTIAL CODE  
2018 INTERNATIONAL ENERGY CONSERVATION CODE  
ALL MATERIALS USED ARE TO BE INSTALLED WITH STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED DETAILS & INSTRUCTIONS.  
**FIRE RESISTANCE:**  
EXTERIOR WALLS: 0 HR.  
INTERIOR WALLS: 0 HR.  
ROOF CONSTRUCTION: 0 HR.  
FLOOR CONSTRUCTION: 0 HR.  
**DESIGN LOADS:**  
FLOOR, 1st: 40 PSF LIVE + 10 PSF DEAD  
FLOOR, 2nd: 40 PSF LIVE + 10 PSF DEAD  
ROOF: 20 PSF LIVE + 10 PSF DEAD  
SLEEPING AREAS: 30 PSF LIVE + 10 PSF DEAD  
INTERIOR STAIRS: 40 PSF LIVE + 10 PSF DEAD  
EXTERIOR DECKS: 60 PSF LIVE + 10 PSF DEAD  
\*REFER TO SNOW LOAD & WIND LOAD PER SECTION R301 OF THE INTERNATIONAL RESIDENTIAL CODE (IRC).  
SEISMIC LOADING TO BE BASED ON REQUIREMENTS OF SECTION R301 OF THE IRC.



2/4/2025

CANSLER AVE DUPLEX  
NEW RESIDENTIAL CONSTRUCTION  
210 Cansler Ave, Knoxville, Tennessee



DRAWN BY: MB

PROJECT INFORMATION

G000

PROJECT : 25003  
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### CONSTRUCTION NOTES

FASTENING SCHEDULE		
CONNECTION	FASTENER	LOCATION
JOIST TO S LL OR G RIDER	4 - 10D COMMON	TOE NAIL PER JOIST
BR DGING TO JOIST	2 - 8D COMMON	TOE NAIL EACH END
SOLE PLATE TO JOIST OR BLOCKING	3 - 16D @12" O.C.	TYPICAL FACE NAIL
TOP PLATE TO STUD	2 - 16D COMMON	END NAIL
STUD TO SOLE PLATE	4 - 8D COMMON	TOE NAIL
	2 - 16D COMMON	END NAIL
DOUBLE STUDS	2 - 16D @24" O.C.	FACE NAIL
DOUBLE TOP PLATES	2 - 16D @ 24" O.C.	TYPICAL FACE NAIL
DOUBLE TOP PLATES	8 - 16D COMMON	LAP SPACING
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	2 - 10D COMMON	TOE NAIL EACH END
RM JOIST TO TOP PLATE	3 - 16D @12" O.C.	TOE NAIL
TOP PLATES, LAPS, & INTERSECTIONS	5 - 16D COMMON	BLOCKING TO SILL OR TOP PLATE (TOE NAILED): 4 - 16D EACH BLOCK  BAND JOIST TO JOIST (END NAILED); 4 - 16D PER JOIST  BAND JOIST TO S LL OR TOP PLATE (TOE NAILED); 16D PER FOOT
CONTINUOUS HEADER, TWO PIECES	16D COMMON @16" O.C.	ALONG EDGE
CE LING JOISTS TO PLATE	4 - 10D COMMON	TOE NAIL
CONTINUOUS HEADER TO STUD	4 - 8D COMMON	TOE NAIL
CE LING JOISTS, HPS OVER PARTITIONS	4 - 16D COMMON, MINIMUM	FACE NAIL
CE LING JOISTS, PARALLEL TO RAFTERS	4 - 16D COMMON, MINIMUM	FACE NAIL
RAFTER TO PLATE, HURRICANE CL PS	3 - 16D COMMON	TOE NAIL
BU LT-UP CORNER STUDS	2 - 16D COMMON @24" O.C.	FACE NAIL
BU LT-UP GIRDER & BEAMS	20D COMMON @32" O.C.	FACE NAIL AT TOP & BOTTOM, STAGGERED ON OPPOSITE SIDES FACE NAIL AT ENDS & AT EACH SPRUCE
COLLAR T E TO RAFTER	5 - 10D COMMON	FACE NAIL
JACK RAFTER TO HIP	3 - 10D COMMON	TOE NAIL
	2 - 16D COMMON	FACE NAIL
ROOF RAFTER TO 2x RIDGE BEAM	2 - 16D COMMON	TOE NAIL
	2 - 16D COMMON	FACE NAIL
JOIST TO BAND JOIST	4 - 16D COMMON	TOE NAIL
LEDGER STRIP	3 - 16D COMMON PER FOOT	FACE NAIL
WOOD STRUCTURAL PANELS & PARTICLE BOARD:	1/2" & LESS	8D COMMON: 6" O.C. EDGE SPAC NG 12" O.C. FELD SPAC NG
SUBFLOOR, ROOF, & WALL SHEATHING (TO FRAMING):		
SINGLE FLOOR COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING		
PANEL SDING TO FRAMING	1/2" & LESS 5/8"	8D COMMON: 6" O.C. EDGE SPAC NG 12" O.C. FELD SPAC NG
FIBERBOARD SHEATHING	1/2"	8D ROOFING: 3" O.C. EDGE SPAC NG 6" O.C. FELD SPAC NG

## ABBREVIATIONS

ACV	AIR CONDITIONING	FD	FLOOR DRAIN	NEC	NEOPRENE	TBS
ABV	ABOVE	FE	FIRE EXTINGUISHER	NCO	NOT IN CONTRACT	W
ACJ	ACROUSTIC JOIST	TEC	FIRE EXTINGUISHER CABINET	NUM	NUMBER	WT
ACT	ACROUSTIC CEILING TILE	FF	FINISH FLOOR	NTS	NOT TO SCALE	THK
ADJ	ADJUSTER	FL	FLAT HEAD	OC	ON CENTER	TMK
ADJ	ADJUSTABLE, ADJACENT	PHC	FIRE HOSE CABINET	OC	ON SCALE	THK
AFB	AFRAME FINISH FLOOR	FN	FINISHED	OD	OUTSIDE DRAINAGE	THR
ALC	ALCANTARA	FLMS	FLAT HEAD MACHINE SCREW	OH	OVERHEAD	TLT
ALUM	ALUMINUM	FLR	FLOOR	OO	OUT TO OUT	THR
ARC	ARCHITECTURAL	FRMG	FRAMING	OPG	OPPOSITE	TRF
BD	BOARD	FSTN	FASTENED	OPNG	OPPOSITE	TRF
BE	BETWEEN	FLR	FLOORING	PEMB	PER, ENGINEERED METAL BLDG.	UNO
BLK	BLACK	GA	GAUZE/GAGE	PLY	PROPERTY LINE	UNO
BLM	BLOCKING	GA	GAUZE/GAGE	PLM	PLASTIC LAMINATE	UNO
BM	BENCHMARK, BEAM	GALV	GALVANIZED	PLV	PLASTIC, PLASTER	W
BTM	BOTTOM OF CURB	GL	GLASS	PLYWOOD	PLYWOOD	W
BWM	BOTTOM WALL	GYP	GYPSE	PO	POINT OF BEGINNING	W
BW	BOTTOM	HSB	HOLLOW CORE	PRB	PREBENT	W
BTM	BOTTOM	HUR	HOLLOW	PFAB	PREFABRICATED	WCT
BUR	BUR	HUR	HOLLOW	PO NT	POINT	VER
CB	CAB NET	HDR	HEADER	PT	PRESSURE TREATED	W
CB	CATCH BASIN	HDW	HARDWARE	PNTD	PANTEE	W
CE	CEMENT	HMTL	HOLLOW METAL	PVC	POLYVINYL CHLORIDE	W
CH	CHANNEL	HORZ	HORIZONTAL			W
CJ	JOINT, JOINT	HUR	HOLLOW	R	RISER, RADIUS	W
CL	CL	HST	HIGH	RI	RETURN AIR	W
CLU	CLEARANCE			RD	RADIUS	W
CLR	CORROGATED METAL, P.E	IS	INSIDE DRAINAGE	RI	RETURN AIR REGISTER	W
CM	CONCRETE MASONRY UNIT	INSUL	INSULATED(D) NG(ION)	RIH	RETURN AIR GRILL	W
CM	CONCRETE	INT	INTERIOR	RIH	RETURN AIR REGISTER	W
CONC	CONCRETE	INV	INVERT	RC	REFLECTED CEILING PLAN	W
CONST	CONSTRUCTION	IPS	IRON PIPE SIZE	RD	ROOF DRAIN	W
CONT	CONTINUOUS/ CONTINUE	REF	REFRIGERATOR	REF	REFLECTED	W
COORD	COORDINATE	REF	REFLECTED	REF	REFLECTED	W
CR	CORROGATED, CORRIDOR	RET	REINFORCED	RET	RETURN AIR REGISTER	W
CRS	COURSES	RET	RETURN AIR REGISTER	RET	RETURN AIR REGISTER	W
CS	CERAMIC TILE	RT	ROUND HEAD	RT	ROUND HEAD	W
CTSK	COUNTERSINK	RT	ROUND HEAD	RT	ROUND HEAD	W
DA	DOUBLE CUT NG	LL	LENGTH, LONG	RM	ROOM	W
DB	DRINKING FOUNTAIN	LAM	LAMINATED	RM	ROOM	W
DL	DIAMETER	LL	LONG	RM	ROOM	W
DM	DIMENSION	LH	LONG HORIZONTAL	RM	ROOM	W
DL	DIAMETER	LLV	LONG LEGS VERTICAL	RM	ROOM	W
DN	DOWN	LP	LOW POINT	RWL	RAINWATER LEAD	W
DR	DOOR	LV	LOUVER	S&B	SHELF AND ROD	W
DR	DRAIN SPOUT			S&B	SOUND ATTENUATION	W
DTL	DETAIL	MACH	MACHINE, MACHINERY	S&B	SOUND ATTENUATION FIRE BLANKET	W
DF	DRAIN WASHER	MAS	MASONRY	S&B	SUPPLY AIR GRILL	W
DW	DRAWING	MATL	MATERIAL	S&B	SUPPLY AIR REGISTER	W
EW	EACH FACE	MAX	MAXIMUM	SCH	SCHEDULE	W
EX	EXTERIOR INSULATION & FINISH	MB	METAL BOLT	SCH	SCHEDULE	W
EX	EXTERIOR	MC	MEDICINE CABINET	SD	SIDING	W
EX	EXTERIOR	MECH	MECHANICAL	SEC	SECURE	W
EJ	EXPANSION JOINT	MFR	MANUFACTURER	SECT	SECTION	W
ELEV	ELEVATION, ELEVATOR	MN	MANHOLE	SEAL	SEALANT	W
ELEV	ELEVATION	MIN	MINIMUM	SEAL	SEALANT	W
EQ	EQUAL	MISC	MISCELLANEOUS	SLN	SLOPE	W
EQU	EQUIPMENT	MISC	MISCELLANEOUS	SPEC	SPECIFICATION(S)	W
EW	EACH WAY	MT	METAL THRESHOLD	SS	STAINLESS STEEL	W
EW	EACH WAY	MTL	METAL THRESHOLD	STD	STANDARD	W
EXH	EXHAUST	MUL	MULCH	STB	STEEL TUBE	W
EXH	EXHAUST	MUL	MULCH	STL	STEEL	W
EXP	EXPOSITION, EXPOSED			STR	STORAGE	W
EXP	EXTERIOR	SUP	SUSPENDED	STRUC	STRUCTURAL	W

**ELECTRICAL NOTES:**

- [illegible]

### **F: ELEVATION NOTES**

- [illegible]

**M: MASONRY NOTES**

1. STONE & MASONRY VENEER SHALL BE INSTALLED IN ACCORDANCE WITH RC SECTION R703.7.
2. **BRICKS**  
MASONRY VENEER SHALL BE CONSTRUCTED IN A FULLY SYSTEMS MOUNTED SYSTEM COMPLYING WITH ASTM C1261, GRADE SW, TYPE FBS, AND LIMCE/EMBEDDED MORTAR CONFORMING TO ASTM C720, TYPE 3.
3. INSTALL GALVANIZED ANCHORS @16" O.C. EACH WAY, WITH CADDUM-PAINTED SCREWS.
4. MASONRY VENEER ANCHORS TO BE EMBEDDED INTO THE GROUT OF THE VENEER AT LEAST 1.5 INCHES AND AT LEAST 3/4" INTO THE SUBSTRATE. THE VENEER SHALL BE SET AS PER I.R.C. SECTION R703.7.4.
5. MASONRY VENEER SHALL BE SEPARATED FROM THE SHEATHING BY MEET WIND LOADS AS PER I.R.C. SECTION R703.
6. MASONRY VENEER SHALL BE SEPARATED FROM THE SHEATHING BY A MINIMUM/NO LESS 1" AIR SPACE, BUT NO MORE THAN 4.0".
7. MASONRY VENEER SHALL BE INSTALLED ABOVE THE FINISH OF MASONRY ABOVE FINISHED GROUND LEVEL ABOVE THE FOUNDATION WALL OR SLAB, AND AT OTHER POINTS OF PENETRATION OF THE EXTERIOR CURTAIN WALL, SHEET ANGLES, & LINTELS, WHEN MASONRY VENEERS ARE DESIGNED IN ACCORDANCE WITH RC SECTION R703.7.4.
8. MASONRY VENEER SHALL BE PROVIDED IN THE OUTSIDE WEATHER OF THE BUILDING. THE WEATHER WEEDS SHALL BE LOCATED IMMEDIATELY ABOVE THE FLASHING, AS PER I.R.C. SECTION R703.8.6.

W: WOOD DECK NOTES

- ALL CONSTRUCTION SHALL BE PER INTERNATIONAL RESIDENTIAL BUILDING CODE.
2. ALL JOISTS TO BE 60 LB LIVE LOAD AND 10 LB DEAD LOAD. ANY SPECIAL LOADS (E.G., HOT TUBS, ETC.) SHOULD BE CONSIDERED AS WELL.
3. ALL FOUNDATION WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SITE CONDITIONS BEFORE STARTING WORK. THE ARCHITECT ENGINEER SHALL PROVIDE A FOUNDATION DETAIL FOR THE CONTRACTOR'S REVIEW.
- CONTRACTOR SHALL USE SIMPSON STRONG-TIE (OR APPROVED EQUIVALENT) ANCHORS TO ATTACH JOIST END BRACKETS TO FRAMING. FOR ALL WOOD-TO-WOOD CONNECTIONS, ALL ANCHORS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. ALL LUGS SHALL BE CONNECTED WITH METAL CONNECTORS, CONCRETE OR STEEL FASCS, OR FASTENERS.
1. ALL STUDS SHALL BE COATED WITH A MINIMUM OF TWO (2) GALVANEAL 1.85 mils OF ZINC (G-185 COATING) OR STAINLESS STEEL. ALL EXPOSED SURFACES SHALL BE PROTECTED FROM CORROSION BY MECHANICAL FASTENERS, NAILS, SCREWS, BOLTS, ETC. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN THE APPROPRIATE STAINLESS STEEL. LOOK FOR PRODUCTS SUCH AS "ZMAX" FROM
- UNLESS NOTED OTHERWISE IN THESE DETAILS, ALL FRAMING LUMBER SHALL BE DRY KILN DRIED TO A MAXIMUM MOISTURE CONTENT OF 19% AT PRESSURE TREATED OR CA-BH IN ACCORDANCE WITH AMERICAN NATIONAL STANDARD FOR PRESERVATIVE TREATMENT OF LUMBER. CONTACT WITH THE GROUND SHALL BE RATED AS "GROUND CONTACT." CONTACT WITH MASONRY SHALL BE RATED AS "MASONRY CONTACT."
2. ALL FINISH MATERIAL SHALL BE 2x6 OR 4x4 (FIVE-CENTURY) BOARD, ATTACH DECKING TO EACH JOIST WITH A MINIMUM OF 2x2 OR 3x4 RING SHANK NAILS. ALL JOISTS SHALL BE PROTECTED FROM CORROSION BY MECHANICALLY DIAGONALLY AT A 45 DEGREE ANGLE PERPENDICULAR TO THE JOISTS.
- MANUFACTURED MATERIALS MAY BE SUBSTITUTED ONLY WHEN THE REPLACEMENT MATERIAL IS EQUAL TO OR BETTER THAN THE SPECIFIED. ACCREDITED TESTING LABORATORY CHECK WITH YOUR LOCAL BUILDING DEPARTMENT FOR APPROVED MATERIALS OR REFER TO THE SUPPLIER'S WEBSITE FOR PRODUCT INFORMATION.
- FOR STAIRS & GLAZIORS LAIS, SEE "STAIRS & RAILINGS," WITHIN FRAMING

## ENERGY CODE

ATTIC ACCESS HATCHES & DOORS MUST BE WEATHER STRIPPED & INSULATED TO THE SAME LEVEL AS THE SURROUNDING SURFACES. SEE AIR SEALING NOTES ON SHEET A304

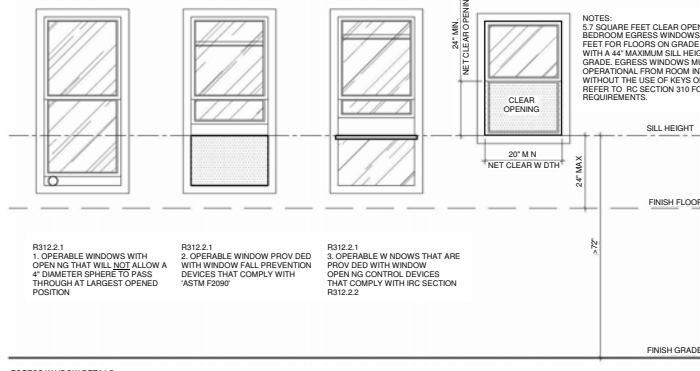
FLOOR INSULATION MUST BE INSTALLED TO MAINTAIN PERMANENT CONTACT WITH THE UNDERSIDE OF THE SUBFLOOR DECKING.

PROGRAMMABLE THERMOSTATS WITH DA LY SETBACK CAPABILITY REQUIRED WHERE PRIMARY HEATING SYSTEM IS FORCED A R WITH AN INITIAL SETTING NOT HIGHER THAN 70° FAHRENHEIT FOR HEATING, AND NOT LOWER THAN 78° FAHRENHEIT FOR COOLING.

SUPPLY DUCTS IN ATTICS RETAIN R-8 INSULATION REQUIREMENT. REQUIREMENTS FOR ALL OTHER DUCTS N UNCONDITIONED SPACE REDUCED TO R-6.

IEC PRESCRIPTIVE REQUIREMENTS	ZONE 4
WINDOWS (U-FACTOR)	0.32
SKYLIGHTS (U-FACTOR)	0.55
GLAZED PENETRATION SHGC	0.40
CEILING - OPEN ATTIC (R-VALUE)	49 / 38
CEILING - CATHEDRAL (R-VALUE)	38
WOOD FRAME WALL (R-VALUE)	20 / 13+5
MASS WALL (R-VALUE)	8 / 13
FLOOR (R-VALUE)	19
BASEMENT WALL (R-VALUE)	10 / 13
SLAB (R-VALUE)	10, 2 FT.
CRAWL SPACE WALL (R-VALUE)	10 / 13

NOTES:  
5.7 SQUARE FEET CLEAR OPENING FOR  
BEDROOM EGRESS WINDOWS (5 SQUARE  
FEET FOR FLOORS ON GRADE LEVEL)  
WITH A 44" MAXIMUM SILL HEIGHT ABOVE  
GRADE. EGRESS WINDOWS MUST BE  
OPERATIONAL FROM ROOM INTERIOR  
WITHOUT THE USE OF KEYS OR TOOLS.  
REFER TO RC SECTION 310 FOR CODE  
REQUIREMENTS.



CANSLER AVE DUPLEX  
NEW RESIDENTIAL CONSTRUCTION

210 Cansler Ave, Knoxville, Tennessee

CONSTRUCTION  
NOTES

CONSTRUCTION  
NOTES

G002

PROJECT : 25003





# FOUNDATION NOTES

1. ASSUME SOIL BEARING PRESSURE OF 2500 PSI. TOPOGRAPHY AND GRADE TO BE DETERMINED BY CIVIL ENGINEER.
2. IF CRAWL SPACE WALL IS OVER 10'-0" HIGH, 8"x12" CMU TO BE UTILIZED.
3. APPROXIMATE SITE LOCATION AND TOPOGRAPHY SHOWN. GENERAL CONTRACTOR TO WORK WITH CIVIL AND STRUCTURAL TEAM TO CLARIFY HOME LOCATION AND RETAINING REQUIREMENTS ON THE PROPOSED SITE BASED ON LOCATION WITHIN SETBACK REQUIREMENTS AND ANY CITY, CODE, OR SEPTIC REQUIREMENTS PRIOR TO SUBMISSION.
4. FOUNDATION IS LAID OUT FOR A SITE WITH NO MORE THAN 10% SLOPE. IF THE SLOPE IS GREATER THAN 10%, CONFER WITH A STRUCTURAL ENGINEER.
5. PROVIDE 10 MIL POLY VAPOR BARRIER.
6. PROVIDE FOUNDATION VENTS PER IRC R408.1 (THE MINIMUM NET AREA OF VENTILATION OPENINGS SHALL BE NOT LESS THAN 1 SQUARE FOOT FOR EACH 1,500 SQUARE FEET OF UNDER-FLOOR SPACE AREA. ONE SUCH VENTILATION OPENING SHALL BE WITHIN 3 FEET OF EACH CORNER OF THE BUILDING).
7. STEP FOUNDATION AS REQUIRED FOR SITE.
8. FIELD LOCATE A MIN OF 18" X 24" ACCESS DOOR.

## WALL LEGEND

- 2X4 WOOD STUDS @16" O.C. WITH R-20 BATT INSULATION
- 1/2" GYP BOARD INTERIOR SIDE
- 1/2" F.WOOD SHEATHING, TYPEX WEATHER BARRIER & SIDING EXTERIOR SIDE (SEE EXTERIOR ELEVATIONS)
- 2X4 WOOD STUDS @16" O.C. 1/2" GYP BOARD BOTH SIDES
- 8" CMU FOUNDATION WALL
- 1 HR. SEPARATION 2x6 WALL - UL U305
- 1 HR. EXTERIOR 2x4 WALL - GP-EWFW-02

## WINDOW LEGEND:

- SH SINGLE HUNG
- S SLIDING

## FLOOR PLAN NOTES:

### TYPICAL BLOCKING NOTE:

PROVIDE WOOD BLOCKING IN THE WALLS AS REQUIRED TO SUPPORT & ATTACH ALL WALL HUNG ITEMS SUCH AS CABINETS, BRACKETS, HAND RAILS, GRAB BARS, ETC. THE BLOCKING & ITS ATTACHMENTS SHALL CARRY THE MINIMUM WEIGHT. VERIFY WITH MANUFACTURER.

### TYPICAL WINDOW NOTE:

GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL THAT MEETS ALL OF THE FOLLOWING CONDITIONS SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION:

- THE EXPOSED AREA OF AN INDIVIDUAL PANEL IS LARGER THAN 9 SQUARE FEET
- THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18 INCHES ABOVE THE FLOOR
- THE TOP EDGE OF THE GLAZING IS MORE THAN 36 INCHES ABOVE THE FLOOR
- ONE OR MORE WALKING SURFACES ARE WITHIN 36 INCHES, MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, OF THE GLAZING

SEE I308.4.3 GLAZING IN WINDOWS FOR EXCEPTIONS (E.G. DECORATIVE GLAZING)

### PLAN NOTE:

CABINETRY AND FURNITURE IS SHOWN FOR PLANNING PURPOSES ONLY. CONTRACTOR TO COORDINATE WITH OWNER.

ALL EXTERIOR DOORS TO BE INSULATED, AND HAVE WEATHER STRIPPING AND APPROPRIATE THRESHOLD

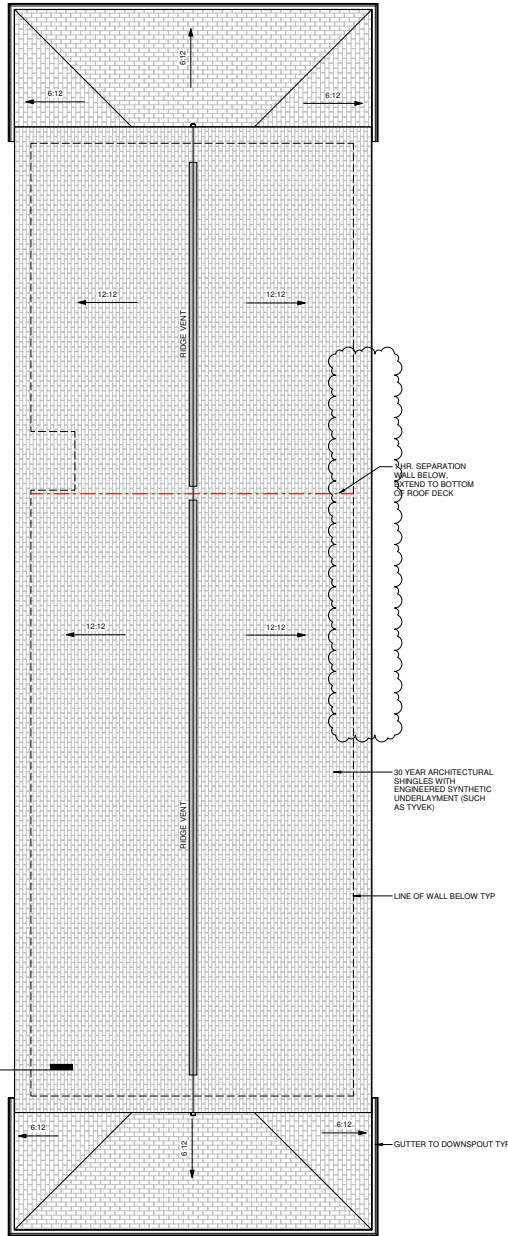
### TYPICAL DECKS, PATIOS & PORCHES:

DECKS, PATIOS & PORCHES TO BE 1" BELOW ADJACENT FINISHED FLOOR. PROVIDE FLASHING AT ALL FLOOR TRANSITIONS AT DECK, PATIOS, & PORCHES

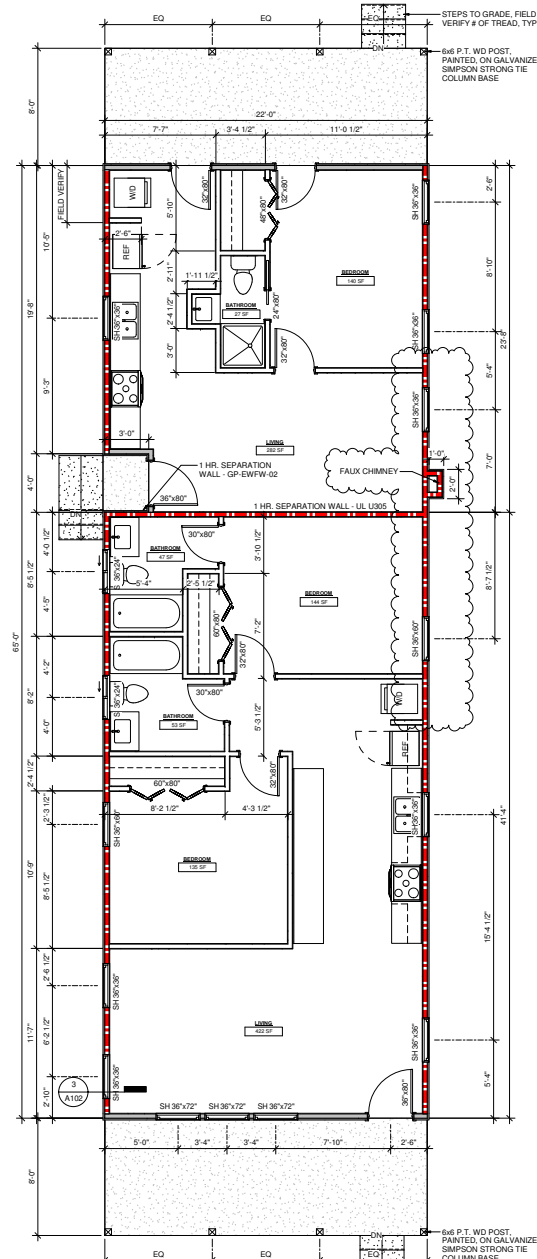
IF THE FINISHED FLOOR HEIGHT OF THE DECK IS 30" ABOVE GRADE, STAIRS AND RAILINGS TO GRADE MUST BE ADDED. RAILINGS TO BE 36" TALL WITH A MINIMUM OF 4" TOP AND BOTTOM RAILS WITH 2" PICKETS SPACED AT NO MORE THAN 3 1/2"

IMPERVIOUS SURFACES TO BE SLOPED AWAY FROM STRUCTURE @ 1/8" PER FOOT

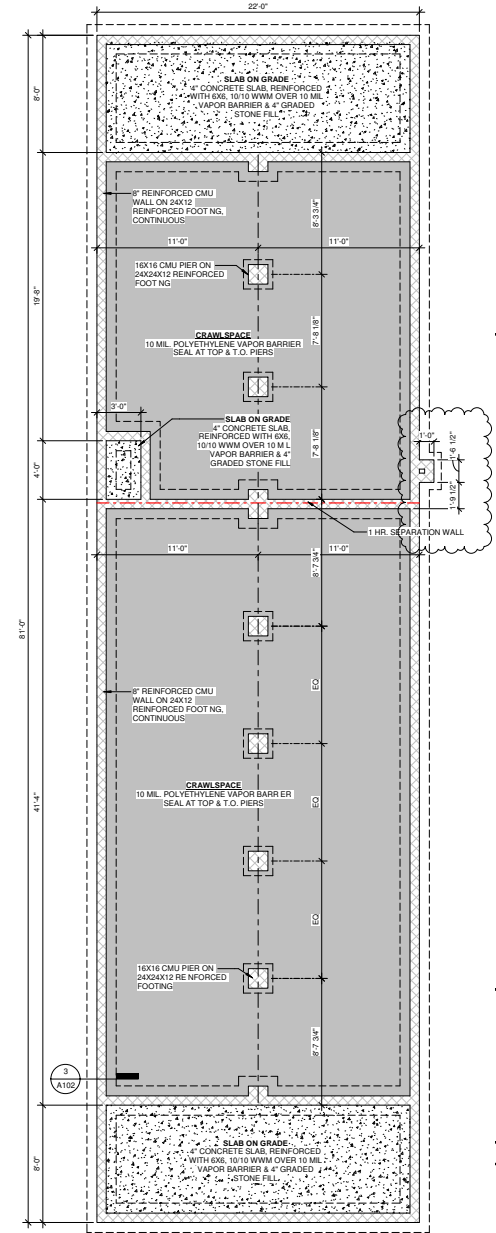
2 ROOF PLAN  
 A101 1/4" = 1'-0"



1 MAIN FLOOR PLAN  
 A101 1/4" = 1'-0"



3 FOUNDATION PLAN  
 A101 1/4" = 1'-0"



# CANSLER AVE DUPLEX NEW RESIDENTIAL CONSTRUCTION 210 Cansler Ave, Knoxville, Tennessee

PROJECT	25003
DATE	2/4/2025
DRAWN BY	MB
CHECKED BY	
APPROVED BY	

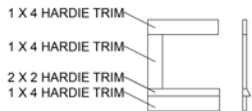
FOUNDATION PLAN,  
 FLOOR PLAN, &  
 ROOF PLAN

A101

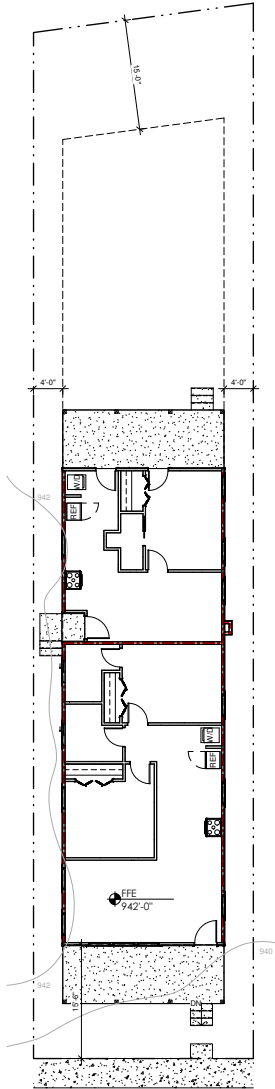
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 COPYRIGHT 2025



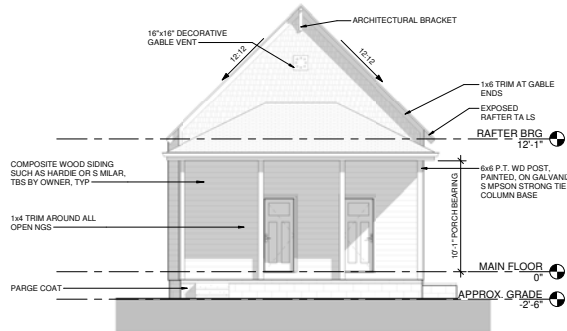
5  
A201  
ARTICULATED WINDOW & DOOR TRIM DETAIL  
NTS



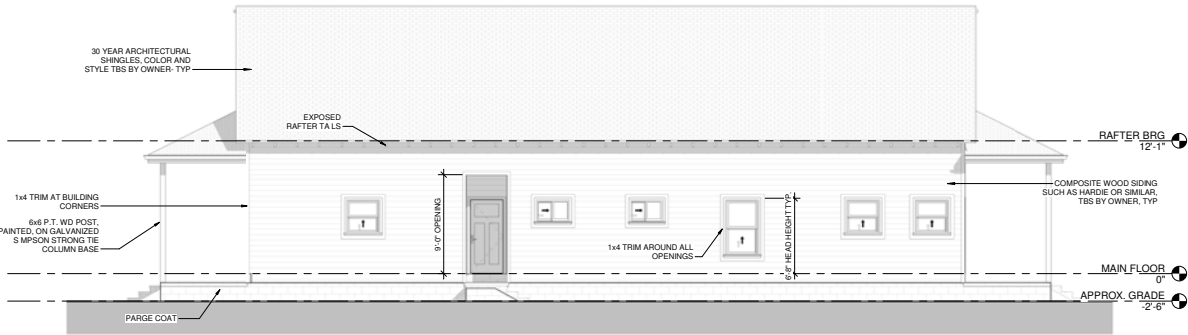
6  
A201  
ARCHITECTURAL SITE PLAN  
1/8" = 1'-0"



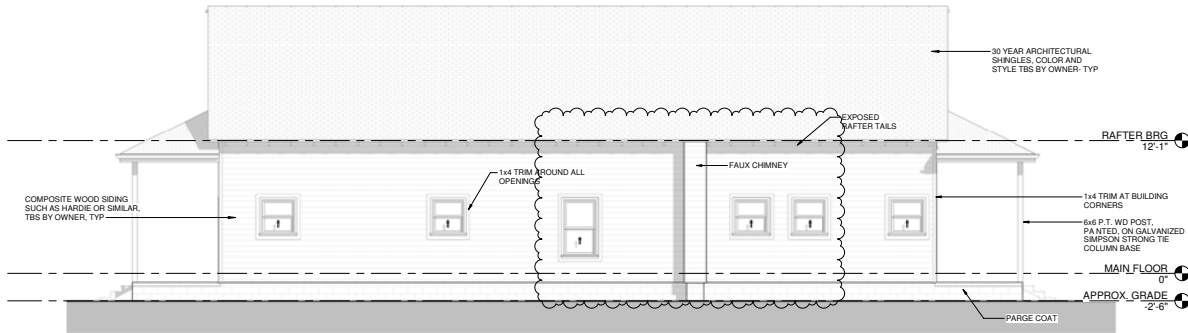
2  
A201  
REAR ELEVATION  
3/16" = 1'-0"



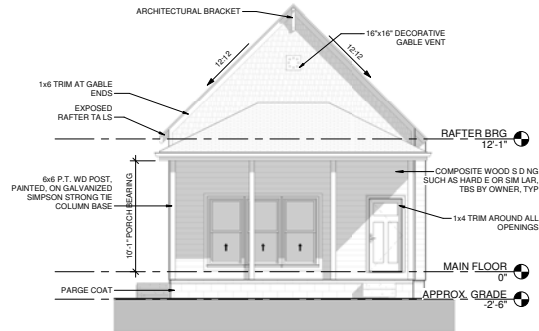
4  
A201  
LEFT ELEVATION  
3/16" = 1'-0"



3  
A201  
RIGHT ELEVATION  
3/16" = 1'-0"



1  
A201  
FRONT ELEVATION  
3/16" = 1'-0"



#### DESIGN ELEMENTS:

1. STEEP PITCHED ROOF
2. ARTICULATED DOOR AND WINDOW TRIM
3. DECORATIVE GABLE
4. EXPOSED RAFTER TAILS AND PLYBEAD SOFFITS
5. CANTILEVER BAY WINDOW
6. ENTRY FEATURE

#### EXTERIOR ELEVATION NOTES

APPROXIMATE SITE LOCATION AND TOPOGRAPHY. GENERAL CONTRACTOR TO WORK WITH CIVIL AND STRUCTURAL TEAM TO CLARIFY HOME LOCATION ON PROPOSED SITE AND ANY RETAINING REQUIREMENTS. CONFIRM ANY BUILDING ADJUSTMENTS WITH ARCHITECT BASED ON LOCATION WITHIN SETBACK REQUIREMENTS AND ANY CITY, CODE OR SEPTIC REQUIREMENTS PRIOR TO SUBMISSION.

