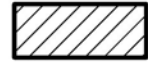


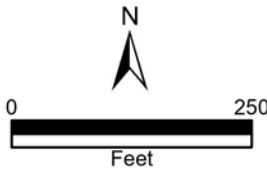


3-C-25-HZ
APPLICATION FOR CERTIFICATE OF APPROPRIATENESS

 **216 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



Meeting: 5/15/2025
Applicant: R. Bentley Marlow, Marlow Builders Inc
Owner: R. Bentley Marlow, 216 Cansler LLC

Property Information

Location: 216 Cansler Ave. **Parcel ID:** 94 K D 004
District: Mechanicsville H
Zoning: RN-2 (Single-Family Residential Neighborhood)
Description: N/A
Vacant lot.

Description of Work

Level III Construction of New Primary Building

New primary structure fronting Cansler Avenue. The one-story duplex measures 17' wide by 78' deep, with the second unit behind the first. The main massing is proposed to be set 10' from the front property line. 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 front porch recessed under a 6/12 pitch half-hipped roof and is supported by three 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 parge-coated concrete block foundation. The façade features three adjacent 1/1 single hung windows on the right and with a paneled door on the left. The left elevation features eight single-hung windows, two horizontal slider windows, and a 9'-3" wide massing that projects 1' from the body of the house. The right elevation features four small double-hung windows and the primary entrance to the rear unit, which is recessed 3' into the main massing and has a 4' wide concrete stoop. The rear elevation features two adjacent paneled doors, which are secondary entrances for the rear unit and are recessed under the porch. All windows and doors feature 1x4 wooden trim, though "Hardie trim" is called out in the window and door trim detail. No window material is specified.

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.

Comments

N/A

Staff Findings

1. The applicant intends to use Section 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 Planning staff; the HZC review focuses on how the project meets the design guidelines. However, some elements of Middle Housing review may trigger site plan and building elevation revisions, which would require additional review by the HZC. The applicant received variances to Article 4.6 (building maximum depth and minimum interior setback) at the April 2025 BZA meeting.
2. The lot to receive new construction is a 35' wide, 140' deep vacant lot. 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. Design review typically discourages building identical adjacent houses; the proposed duplex at 216 Cansler Ave is sufficiently differentiated from the proposed duplex at nearby 210 Cansler Avenue by reversing the plans and façade fenestrations.
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 has

been revised to be 15'-6" from the front property line, with the 8' deep front porch located 7'-6" from the front property line. The house will be aligned with the average setback pattern of the block. The 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 projecting side-elevation massing to break up the long massing.

6. Most houses on the block feature a full-width front porch; the proposed porch is similar in design to multiple houses on the block. The guidelines note that "new porches shall be at least eight feet deep," and "in proportion to historic porches in the neighborhood." The front porch has been revised to measure 8' deep.

7. The proposed 12/12-pitch, front-gable roof clad in architectural shingles meets the design guidelines for pitch and materials.

8. Guidelines discourage split-face block. The applicant has revised the application to include a parge-coated CMU foundation 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.

Fiber cement lap siding has not yet been approved on additions or on new construction in Mechanicsville. In the opinion of staff, the fiber cement lap siding does not meet the current Mechanicsville design guidelines, though can be appropriate for new construction, based on the preference of the Commission and the neighborhood.

10. Guidelines recommend that new buildings use materials consistent with the street and the surrounding neighborhood. Materials are not specified for the proposed windows. The applicant has revised the initially proposed slider windows, to small double-hung windows. The Commission should discuss the overall size and proportion of the double-hung windows in relation to historic windows in the neighborhood.

Vinyl windows are not appropriate in a historic district; alternative materials could include fiberglass or aluminum-clad wood, based on the preference of the Commission and the neighborhood. The applicant should clarify window materials for the Commission's approval.

Elevation drawings reference 1 by 4 wood trim, while the trim profile drawing indicates fiber cement siding with a narrow sill that may not be proportionate to historic window sill patterns. Final trim material should be consistent with the approved siding material, and projecting window sills should be compatible in design and size to historic window sills.

Guidelines recommend a "strong sense of entry," which is achieved via a quarter-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.

Staff Recommendation

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

- 1) front porch to feature wood tongue-and groove flooring and a wood beadboard ceiling;
- 2) final window materials to be approved by Commission, with final specifications submitted to staff for approval;
- 3) window trim to be compatible in material with final material selection, and feature projecting sills compatible in design and proportion with historic windows;
- 4) front door specifications to be submitted to staff for approval;
- 5 Commission and neighborhood to discuss and approve final exterior siding material.



DESIGN REVIEW REQUEST

☐ DOWNTOWN DESIGN (DK)

☒ HISTORIC ZONING (H)

☐ INFILL HOUSING (IH)

R. Bentley Marlow

Applicant

4 February 2025

20 March 2025

3-C-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

216 Cansler, LLC

322 Douglas Avenue

865-607-4357

Owner Name (if different from applicant)

Owner Address

Owner Phone

216 Cansler Avenue

094KD004

Property Address

Parcel ID

Mechanicsville

TDR/RN2

Neighborhood

Zoning

AUTHORIZATION

Lindsay Lanois
Staff Signature

Lindsay Lanois

2.28.25

Please Print

Date

R. Bentley Marlow
Applicant Signature

R. Bentley Marlow

4 February 2025

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:

250.00

FEE 2:

FEE 3:

TOTAL:

250.00

CANSLER AVE DUPLEX NEW RESIDENTIAL CONSTRUCTION

216 Cansler Ave, Knoxville, Tennessee

DETAIL CALLOUT

DRAWING NUMBER
SHEET NUMBER

ELEVATION MARKER

DIRECTION OF VIEW

DETAIL SECTION MARKER

EXTENT: DIRECTION
OF SECTION

BUILDING SECTION MARKER

EXTENT: DIRECTION
OF SECTION

INTERIOR ELEVATION MARKER

DIRECTION OF VIEW

SHEET NUMBER
ELEVATION
NUMBER

NORTH INDICATOR



ELEVATION MARKER

XX'-XX" A.P.F.

SPOT ELEVATION

F.F.E. = FINISH FLOOR
ELEVATION

FLOOR PLAN TAGS

ROOM NAME
Length x Width (sq ft)
APPROXIMATE INTERIOR SQUARE FOOTAGE
APPROXIMATE INTERIOR LENGTH AND W DTH

ROOM NAME
Floor Finish (sq ft)
APPROXIMATE INTERIOR SQUARE FOOTAGE
FLOOR FINISH

IDENTIFIER
WINDOW TYPE IF SCHEDULED

IDENTIFIER
DOOR TYPE IF SCHEDULED

IDENTIFIER, SIZE IN INCHES
WINDOW TYPE ON FLOOR PLAN

IDENTIFIER, DOOR TYPE
DOOR SIZE, IN 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		
G001	CONSTRUCTION NOTES	2/4/2025		
G002	CONSTRUCTION NOTES	2/4/2025		
G003	UL ASSEMBLIES	2/4/2025		
20 - ARCHITECTURAL				
A101	FOUNDATION PLAN, FLOOR PLAN, & ROOF PLAN	2/4/2025		
A102	SCHEMATIC FRAMING PLANS & WALL SECTION	2/4/2025		
A201	EXTERIOR ELEVATIONS & SITE PLAN	2/4/2025		
A304	AIR SEALING DETAILS	2/4/2025		

OWNER

Marlow Builders, Inc.
322 Douglas Ave
Knoxville, TN 37921
CONTACT: Bentley Marlow
CELL PHONE: (865) 807-4357
EMAIL: rbentleymarlow@gmail.com

ARCHITECT

oyask³ architects
1545 Western Avenue, Suite 100
Knoxville, TN 37921
CONTACT: Cara Knapp
OFFICE PHONE: (865) 523-8200
EMAIL: office@oyask3architects.com

FACILITY AND CODE COMPLIANCE

PARCEL DESCRIPTION 094KD004
SUBDIVISION MOSES FAIRVIEW PT 46
PROPERTY ZONE RV-2
PROPERTY SIZE 0.08 ACRES
BUILDING SQUARE FOOTAGE MAIN FL. 1045 SF
TOTAL: 1045 SF
FLOOR LEVELS ONE STORY
CONSTRUCTION CLASSIFICATION V-B, UNPROTECTED, UNSPRINKLERED
OCCUPANCY CLASSIFICATION RESIDENTIAL
OCCUPANT LOAD 1045/200 = 5 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 GRAD NG 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: 40 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 LOAD NG TO BE BASED ON REQUIREMENTS OF SECTION R301 OF THE IRC.

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



PROJECT
INFORMATION

G000

PROJECT : 25003

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G: GENERAL NOTES

1. EXAMINE AND BECOME FAMILIAR WITH ALL DRAWINGS, SPECIFICATIONS AND SURVEY THE PROJECT AND BECOME FAMILIAR WITH THE PROJECT AND THE LOCATION OF WORK. ALL COSTS SUBMITTED SHALL BE BASED ON A THOROUGH KNOWLEDGE OF ALL DRAWINGS, SPECIFICATIONS AND SURVEY. ANY DISCREPANCY AND/OR UNCERTAINTY AS TO THE ACCURACY OF THE SURVEY SHALL BE VERIFIED WITH THE OWNER OR SURVEYOR.
2. THE CONTRACTOR AND SUB CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL STARTING WORK AND ANY DISCREPANCIES SHALL BE CORRECTED IMMEDIATELY.
3. THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH ALL OTHER TRADES.
4. THESE DRAWINGS DO NOT CONTAIN ALL INFORMATION REQUIRED FOR THE INTERIOR FINISHES. ALL FINISHES AND/OR INFORMATION SHALL BE OBTAINED FROM THE ARCHITECT. THE CONTRACTOR SHALL OBTAIN ALL SITE WORK & LANDSCAPING TO BE DONE BY OTHERS. THE CONTRACTOR SHALL UNLESS SHOWN ON THESE DRAWINGS. ALL ESTIMATES SHALL INCLUDE THE FOLLOWING: ELECTRICAL, PLUMBING, HEATING & AIR CONDITIONING, ETC., BE RESPONSIBLE FOR OBTAINING ALL INFORMATION THAT IS NOT REVIEWED & APPROVED BY THE ARCHITECT.
5. THE OWNER OR CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, AND CERTIFICATES OF OCCUPANCY, ETC., REQUIRED FOR THE PROJECT. ALL COPIES OR REPRODUCED WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT AND OWNER.
6. ALL SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO ORDERING & INSTALLING ANY EQUIPMENT OR MATERIALS.
7. THE CONTRACTOR MAY SUBMIT FOR THE ARCHITECT'S REVIEW AND DETERMINATION OF NEGOTIATED PRICE TO OWNER.
8. THE CONTRACTOR SHALL BE ALLOWED SPECIFIC ACCESS TO ALL UTILITIES SHOWN ON THESE DRAWINGS.
9. THE CONTRACTOR SHALL COORDINATE TOGETHER WITH THE ARCHITECTURAL MECHANICAL & ELECTRICAL DRAWINGS TO LOCATE ALL UTILITIES, ETC., AND INSURE REGULATE, BOLT SETTINGS, ETC. ANY DISCREPANCIES SHALL BE BRING TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING.
10. DESIGN LOADS DO NOT INCLUDE THE WEIGHT OF THE ROOF, AIR COND. UNITS AND OTHER MECHANICAL EQUIPMENT. SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT SUPPORT FRAMING SHALL BE SUBMITTED TO THE CONTRACTOR FOR APPROVAL.

S: SITE NOTES

1. GENERAL CONTRACTOR TO VERIFY THE EXISTING TOPOGRAPHIC LEVELS.
2. GENERAL CONTRACTOR TO VERIFY THE EXISTING EASEMENTS AND THE PROPOSED HOUSE LOCATION. GENERAL CONTRACTOR TO OBTAIN A COPY OF THE OWNER'S RECORDS AND ANY OTHER RECOMMENDED CHANGES TO THE HOUSE LAYOUT.
3. GENERAL CONTRACTOR TO HAVE A LICENSED ENGINEER OR LICENSED SURVEYOR STATE OUT THE EXISTING STRUCTURE LOCATION TO ENSURE THAT THE PROPOSED HOUSE LOCATION IS ON ANY SETBACKS OR EASEMENTS. UNLESS OTHERWISE NOTED, THE PROPOSED HOUSE AND BUILDING CODES SHALL BE THE BASIS OF THE COMMENCEMENT OF ANY ENCROACHMENT ISSUES.
4. GENERAL CONTRACTOR TO HAVE A LICENSED ENGINEER OR LICENSED SURVEYOR STATE OUT THE EXISTING DEPTH BETWEEN AN EXISTING NGP DEPTH IS GREATER THAN 12" THE HORIZONTAL DISTANCE FROM THE NEARER SIDE OF THAT FOOTING.
5. GENERAL CONTRACTOR AT STRUCTURES, BASES, STEPS, & PAVEMENTS SHALL BE CLEAN & FREE OF ALL DEBRIS. THE DEPTH SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D 1585. THE DEPTH SHALL BE GREATER THAN THAT EROSION IN WL NOT OCCUR IN THE EXISTING FOOTING.
6. BACKFILL SHALL BE BROUGHT UP EQUALLY ON EACH SIDE OF WALLS.
7. GENERAL CONTRACTOR TO HAVE A LICENSED ENGINEER OR LICENSED SURVEYOR STATE THE BASEMENT RETAINING WALL SHALL NOT BE SUBJECT TO EROSION. THE WALL SHALL HAVE SUFFICIENT STRENGTH AND BE HAVING SUFFICIENTLY PROTECTIVE BACKFILL CONCRETE DRAINAGE.
8. GENERAL CONTRACTOR TO COORDINATE THE BACKFILL, TOPOGRAPHIC GRADING AND DRAINAGE. THE DRAINAGE SHALL BE AS REQUIRED FOR POSITIVE DRAINAGE AWAY FROM THE HOUSE.
9. GENERAL CONTRACTOR TO UNDISTURBED OR COMPACTED, NON-ORGANIC SUBSOIL, WITHIN THE EXISTING HOUSE FOOTING SHALL BE TOPPED WITH EITHER 4" BERMESS CONCRETE OR 4" COMPACTED CONCRETE DRAINAGE WITH 1" MIN. FINISH.
10. GENERAL CONTRACTOR TO COORDINATE THE BACKFILL, TOPOGRAPHIC GRADING AND DRAINAGE. THE DRAINAGE SHALL BE AS REQUIRED WHETHER THE LANDSCAPING PACKAGE IS TO BE PROVIDED BY THE GENERAL CONTRACTOR OR NOT.

C: CONSTRUCTION NOTES

- [illegible]

P: PLUMBING NOTES

1. PLUMBING SUBCONTRACTOR TO BE RESPONSIBLE FOR ADHERING TO ALL APPLICABLE CODES AND SAFETY REQUIREMENTS.
2. PROVIDE GAS SERVICE TO ALL WATER HEATERS AND HVAC EQUIPMENT AS REQUIRED.
3. CONTRACTOR TO COORDINATE GAS SERVICE REQUIREMENTS WITH THE OWNER & GAS SUPPLIER.
4. F WALL PLATES OR JOISTS ARE CUT DURING REMOVAL OF EXISTING PARTS OF EQUIPMENT, PROVIDE BRACING TO THE FRAMING BACK TOGETHER.
5. LOCATE WATER HEATERS IN WATER-RESISTANT PART OF WALL, PROVIDE A DRAIN TO OUTSIDE FOR POSSIBLE BLEED-OVERFLOW.
6. ALL PLUMBING AND MECHANICAL VENT STACKS TO BE LOCATED CLOSE TOGETHER IN THE REAR OF THE VENT STACKS, IN THE REAR OF THE HOUSE, AWAY FROM PROMINENT VIEW. ALL VENT STACKS TO BE PRIMED & TESTED FOR LEAKS PRIOR TO INSTALLATION.
7. GENERAL CONTRACTOR TO COORDINATE HOBBIE LOCATIONS WITH OWNER.
8. PROVIDE AN INSIDE MAIN WATER CUTOFF AND PRESSURE-REDUCING VALVE AT AN EASILY ACCESSIBLE LOCATION.

FN: FOUNDATION NOTES

- GENERAL CONTRACTOR TO INSPECT THE JOB FOR PROPER CONSTRUCTION. GENERAL CONTRACTOR TO BE RESPONSIBLE FOR THE FOLLOWING:
- 1. ALL DIMENSIONS ARE CALCULATED FROM THE EXTERIOR FACE OF WALLS OUTSIDE FACE OF BLOCK OR CONCRETE WALL.
 - 2. ALL CONCRETE TO BE PLACED IN THE DRY NO CONCRETE SHALL BE PLACED LATER THAN NINE (9) HOURS AFTER THE LAST POUR OF CONCRETE. IT IS ITS FINAL POSITION WITHOUT REWORK.
 - 3. GENERAL CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES TO BE SET IN PLACE BEFORE TIERMATE TREATMENT WHICH SHALL COMPLY WITH ALL CITY AND STATE REQUIREMENTS.
 - 4. BOTTOM OF JOISTS SHALL BE 24" ABOVE EXISTING GRADE. ALL JOISTS SHALL BE 2" ABOVE EXISTING GRADE. SPACE VENTILATION PER LOCAL CODE.
 - 5. ALL FINISH FLOORS TO BE INSTALLED ARE TO BE INSTALLED ON A MINIMUM OF 4" OF DISJUM LAM MATERIALS. GENERAL CONTRACTOR TO ADJUST THE FOUNDATION AS REQUIRED TO ACCOMMODATE THE FINISH FLOOR.

FOUNDATION STEEL NOTE

- MANUFACTURER CONFORMING TO ASTM A 36 AND STANDARD AISI SPECIFICATIONS.
10. PROVIDE 1/2" THICK PLATE OR 1/4" THICK U.S. BOLT HIGH-STRENGTH STEEL OF DOMESTIC MANUFACTURER CONFORMING TO THE LATEST AISI-A515 GRADE OR 60 FABRICATED IN ACCORDANCE WITH THE STANDARD PRACTICE OF THE CRS UNLESS NOTED OTHERWISE, AND PLACING OF REINFORCING SHALL BE IN ACCORDANCE WITH ACI BUILDING CODE, MANUAL OF STANDARD PRACTICE, AND CURRENT INTERNATIONAL RESIDENTIAL CODE. REINFORCEMENT SHALL BE PLACED WITH 2" COVER ON MAIN REINFORCEMENT IN ST WALLS.
11. REINFORCING BARS ARE CONTINUOUS UNLESS NOTED OTHERWISE. LAP MESH 12" AT SPICES. LAP STEEL WALL BARS (32 BAR DIAMETERS) AT SPICES, MINIMUM.
12. PROVIDE 4" CORNERS OF CONCRETE FOOTING STAIN STEEL BARS, PROVIDE 4" X 4" CORNER BARS EACH FACE AT SPACE SPACING AS HORIZONTAL REINFORCEMENT.
13. PROVIDE 5/8" X 7-1/2" X 7-1/2" WELD PLATE FOR BEARING STEEL BARS IN CMU WALL WITH ONE SIDE OF THE WALL BEARING PLATE.
14. PROVIDE 3" STIFFENER PLATE ON EACH SIDE BEARING AT THE BEAR NG PLATE.

CONCRETE FOOTING NOT
16 ALL FOOTINGS TO BEST OF

- [illegible]

FOUNDATION CMU NOTES

- PROTECTED AGA INST FREEZING FOR NOT LESS THAN 48 HOURS AFTER INSTALLATION, AND SHALL NOT BE CONSTRUCTED BELOW 28 DEGREES F RISING TEMPERATURES, OR BELOW 36 DEGREES F ON FALLING TEMPERATURES.
23. **BONDING:** MASONRY WALLS AND PARTITIONS SHALL BE SECURELY ANCHORED OR BONDED AT POINTS WHERE THEY INTERSECT BY ONE OF THE FOLLOWING METHODS: (A) BY LAYING AT LEAST 50% OF THE UNITS AT THE INTERSECTION IN TRAMSONRY BOND, WITH ALTERNATE UNITS HAVING A BEARING OF NOT LESS THAN 8" UPON THE UNITS BELOW; (B) THEY MAY BE ANCHORED WITH NOT LESS THAN 3/16" CORROSION RESISTANT METAL ANCHORS OF 1/2" DIAMETER REINFORCEMENT. VERTICAL INTERVALS NOT TO EXCEED 24"; OR (C) BY OTHER EQUIVALENT APPROVED ANCHORAGE.

H: H.V.A.C. NOTES

- [illegible]

FP: FLOOR PLAN NOTES

- [illegible]

DRYWALL

- CONFORMANCE WITH THE GYPSUM ASSOCIATION'S RECOMMENDED PRACTICES FOR THICKNESS, STUD SPACING, NAILING, & TAPING. MUD, FLOOD & SAND (3) COATS MIN. PRIOR TO PAINT NG, ALSO AS FOLLOWS.
10. UNLESS OTHERWISE NOTED, ALL INTERIOR WALLS TO BE COVERED WITH 1/2" GYPSUM BOARD, W/ METAL OR PLASTER CORNER BEAD.
11. WALLS COMMON TO GARAGE AND HOUSE TO HAVE ONE LAYER OF 5/8" TYPE "X" 1-HR FIRE-RATED GYPSUM BOARD ON EACH SIDE.
12. ALL BATH TUBS AND CEILING ARE TO BE ADJACENT TO WET AREAS TO HAVE WATER-RESISTANT GYPSUM BOARD.
13. ALL EXTERIOR FINISH ARE TO BE FINISHED TO GYPSUM WALLS TO LEVEL 4 FINISH.

FN: FRAMING NOTES

- LIMBERS**
ALL LIMBERS ARE TYPICALLY 1" EXTERIOR Ø BY 1/4" THICK. INTERIOR 2X4 LIMBS NOT OTHERWISE SPECIFIED SHALL BE 1 1/2" X 4" IN CONTACT WITH CONCRETE OR MASONRY TO PROVIDE PROPER FIRE RATING. ALL LIMBER FRAMING IN CONTACT WITH OR WITHIN CONCRETE SHALL BE TREATED WITH PRESERVATIVE TREATED.
- STRUCTURAL MEMBERS** ALL LIMBER MEMBERS SPEC'D ARE NOMINAL SIZES. ALL UNLESS OTHERWISE SPECIFIED SHALL BE DRY KILN DRIED.
- STRUCTURAL POSTS**
ALL ISOLATED STRUCTURAL POSTS SHALL BE 4" X 4" OR 6" X 6" OR 8" X 8" WITH SUBSTITUTIONS AS FOLLOWS:
- 4" X 4" POSTS = 2" X 2 1/2" NAILS
 - 6" X 6" POSTS = 3" X 3" NAILS
 - 8" X 8" POSTS = 4" X 4" NAILS
- STRUCTURAL FRAMING** ALL FRAMING IN GRG MATERIAL SHALL BE 2" X 4" OR 2" X 6" OR 2" X 8" OR DOUGLAS FIR LARCH (DFL OR L) WITH #160 AND #12 MINIMUM OR SOUTHERN YELLOW PINE (SPY) WITH #160 AND #12 MINIMUM OR 2" X 4" OR 2" X 6" OR 2" X 8" OR 2" X 10" OR 2" X 12" OR 2" X 14" OR 2" X 16" OR 2" X 18" OR 2" X 20" OR 2" X 22" OR 2" X 24" OR 2" X 26" OR 2" X 28" OR 2" X 30" OR 2" X 32" OR 2" X 34" OR 2" X 36" OR 2" X 38" OR 2" X 40" OR 2" X 42" OR 2" X 44" OR 2" X 46" OR 2" X 48" OR 2" X 50" OR 2" X 52" OR 2" X 54" OR 2" X 56" OR 2" X 58" OR 2" X 60" OR 2" X 62" OR 2" X 64" OR 2" X 66" OR 2" X 68" OR 2" X 70" OR 2" X 72" OR 2" X 74" OR 2" X 76" OR 2" X 78" OR 2" X 80" OR 2" X 82" OR 2" X 84" OR 2" X 86" OR 2" X 88" OR 2" X 90" OR 2" X 92" OR 2" X 94" OR 2" X 96" OR 2" X 98" OR 2" X 100" OR 2" X 102" OR 2" X 104" OR 2" X 106" OR 2" X 108" OR 2" X 110" OR 2" X 112" OR 2" X 114" OR 2" X 116" OR 2" X 118" OR 2" X 120" OR 2" X 122" OR 2" X 124" OR 2" X 126" OR 2" X 128" OR 2" X 130" OR 2" X 132" OR 2" X 134" OR 2" X 136" OR 2" X 138" OR 2" X 140" OR 2" X 142" OR 2" X 144" OR 2" X 146" OR 2" X 148" OR 2" X 150" OR 2" X 152" OR 2" X 154" OR 2" X 156" OR 2" X 158" OR 2" X 160" OR 2" X 162" OR 2" X 164" OR 2" X 166" OR 2" X 168" OR 2" X 170" OR 2" X 172" OR 2" X 174" OR 2" X 176" OR 2" X 178" OR 2" X 180" OR 2" X 182" OR 2" X 184" OR 2" X 186" OR 2" X 188" OR 2" X 190" OR 2" X 192" OR 2" X 194" OR 2" X 196" OR 2" X 198" OR 2" X 200" OR 2" X 202" OR 2" X 204" OR 2" X 206" OR 2" X 208" OR 2" X 210" OR 2" X 212" OR 2" X 214" OR 2" X 216" OR 2" X 218" OR 2" X 220" OR 2" X 222" OR 2" X 224" OR 2" X 226" OR 2" X 228" OR 2" X 230" OR 2" X 232" OR 2" X 234" OR 2" X 236" OR 2" X 238" OR 2" X 240" OR 2" X 242" OR 2" X 244" OR 2" X 246" OR 2" X 248" OR 2" X 250" OR 2" X 252" OR 2" X 254" OR 2" X 256" OR 2" X 258" OR 2" X 260" OR 2" X 262" OR 2" X 264" OR 2" X 266" OR 2" X 268" OR 2" X 270" OR 2" X 272" OR 2" X 274" OR 2" X 276" OR 2" X 278" OR 2" X 280" OR 2" X 282" OR 2" X 284" OR 2" X 286" OR 2" X 288" OR 2" X 290" OR 2" X 292" OR 2" X 294" OR 2" X 296" OR 2" X 298" OR 2" X 300" OR 2" X 302" OR 2" X 304" OR 2" X 306" OR 2" X 308" OR 2" X 310" OR 2" X 312" OR 2" X 314" OR 2" X 316" OR 2" X 318" OR 2" X 320" OR 2" X 322" OR 2" X 324" OR 2" X 326" OR 2" X 328" OR 2" X 330" OR 2" X 332" OR 2" X 334" OR 2" X 336" OR 2" X 338" OR 2" X 340" OR 2" X 342" OR 2" X 344" OR 2" X 346" OR 2" X 348" OR 2" X 350" OR 2" X 352" OR 2" X 354" OR 2" X 356" OR 2" X 358" OR 2" X 360" OR 2" X 362" OR 2" X 364" OR 2" X 366" OR 2" X 368" OR 2" X 370" OR 2" X 372" OR 2" X 374" OR 2" X 376" OR 2" X 378" OR 2" X 380" OR 2" X 382" OR 2" X 384" OR 2" X 386" OR 2" X 388" OR 2" X 390" OR 2" X 392" OR 2" X 394" OR 2" X 396" OR 2" X 398" OR 2" X 400" OR 2" X 402" OR 2" X 404" OR 2" X 406" OR 2" X 408" OR 2" X 410" OR 2" X 412" OR 2" X 414" OR 2" X 416" OR 2" X 418" OR 2" X 420" OR 2" X 422" OR 2" X 424" OR 2" X 426" OR 2" X 428" OR 2" X 430" OR 2" X 432" OR 2" X 434" OR 2" X 436" OR 2" X 438" OR 2" X 440" OR 2" X 442" OR 2" X 444" OR 2" X 446" OR 2" X 448" OR 2" X 450" OR 2" X 452" OR 2" X 454" OR 2" X 456" OR 2" X 458" OR 2" X 460" OR 2" X 462" OR 2" X 464" OR 2" X 466" OR 2" X 468" OR 2" X 470" OR 2" X 472" OR 2" X 474" OR 2" X 476" OR 2" X 478" OR 2" X 480" OR 2" X 482" OR 2" X 484" OR 2" X 486" OR 2" X 488" OR 2" X 490" OR 2" X 492" OR 2" X 494" OR 2" X 496" OR 2" X 498" OR 2" X 500" OR 2" X 502" OR 2" X 504" OR 2" X 506" OR 2" X 508" OR 2" X 510" OR 2" X 512" OR 2" X 514" OR 2" X 516" OR 2" X 518" OR 2" X 520" OR 2" X 522" OR 2" X 524" OR 2" X 526" OR 2" X 528" OR 2" X 530" OR 2" X 532" OR 2" X 534" OR 2" X 536" OR 2" X 538" OR 2" X 540" OR 2" X 542" OR 2" X 544" OR 2" X 546" OR 2" X 548" OR 2" X 550" OR 2" X 552" OR 2" X 554" OR 2" X 556" OR 2" X 558" OR 2" X 560" OR 2" X 562" OR 2" X 564" OR 2" X 566" OR 2" X 568" OR 2" X 570" OR 2" X 572" OR 2" X 574" OR 2" X 576" OR 2" X 578" OR 2" X 580" OR 2" X 582" OR 2" X 584" OR 2" X 586" OR 2" X 588" OR 2" X 590" OR 2" X 592" OR 2" X 594" OR 2" X 596" OR 2" X 598" OR 2" X 600" OR 2" X 602" OR 2" X 604" OR 2" X 606" OR 2" X 608" OR 2" X 610" OR 2" X 612" OR 2" X 614" OR 2" X 616" OR 2" X 618" OR 2" X 620" OR 2" X 622" OR 2" X 624" OR 2" X 626" OR 2" X 628" OR 2" X 630" OR 2" X 632" OR 2" X 634" OR 2" X 636" OR 2" X 638" OR 2" X 640" OR 2" X 642" OR 2" X 644" OR 2" X 646" OR 2" X 648" OR 2" X 650" OR 2" X 652" OR 2" X 654" OR 2" X 656" OR 2" X 658" OR 2" X 660" OR 2" X 662" OR 2" X 664" OR 2" X 666" OR 2" X 668" OR 2" X 670" OR 2" X 672" OR 2" X 674" OR 2" X 676" OR 2" X 678" OR 2" X 680" OR 2" X 682" OR 2" X 684" OR 2" X 686" OR 2" X 688" OR 2" X 690" OR 2" X 692" OR 2" X 694" OR 2" X 696" OR 2" X 698" OR 2" X 700" OR 2" X 702" OR 2" X 704" OR 2" X 706" OR 2" X 708" OR 2" X 710" OR 2" X 712" OR 2" X 714" OR 2" X 716" OR 2" X 718" OR 2" X 720" OR 2" X 722" OR 2" X 724" OR 2" X 726" OR 2" X 728" OR 2" X 730" OR 2" X 732" OR 2" X 734" OR 2" X 736" OR 2" X 738" OR 2" X 740" OR 2" X 742" OR 2" X 744" OR 2" X 746" OR 2" X 748" OR 2" X 750" OR 2" X 752" OR 2" X 754" OR

IN: INSULATION NOTES

1. PROVIDE R-10 INSULATION AT SLAB EDGE. GENERAL CONTRACTOR TO VERIFY WITH LOCAL CODE.
2. REFER TO ELEC. SPEC PRESCR PTIVE REQUIR. MEMOS CHART ON SHEET G002 UNDER ENERGY CODE NOTES.
3. INSTALL SIDE WALL AND CEILING INSULATION OVER EXISTING ROUGH SCAFFOLDING HOLES FOR ELECTRICAL BOXES, LIGHT FIXTURES, OR HEATING DUCTWORK. CAULK ALL OPENINGS IN EXTERIOR WALL.
4. CONSTRUCTION:
 - FLOOR OVER UNHEATED SPACE TO HAVE R-19 INSULATION BETWEEN JOISTS.
 - HVAC DUCTS LOCATED IN UNHEATED SPACES TO BE INSULATED WITH R-8.
5. GENERAL CONTRACTOR TO VERIFY WITH LOCAL CODE.
6. ALL EXPOSED INSULATION TO HAVE A FLAM SPREAD RAT. NG OF LESS THAN 25, AND A SMOKE DENSITY OF 450 OR LESS THAN 450.
7. FILL ALL UNGROUTED CMU CELLS WITH VERMICULITE, OR FOAM-N-PLACE INSULATION IN BASEMENT WALLS.
8. REFER TO AIR SEALING DETAILS ON SHEET 304.

R: ROOFING, SEALING, & FLASHING

- ### UNDERLAMENT
- UNDERLAMENT SHALL BE A WATER-RESISTANT, PAPER-VERMABLE, WOVEN POLYMER MEMBRANE (E.G. POLYETHYLENE GLYCOL) MANUFACTURED AND INSTALLED WITH CAP NAILS OR CAP STAPLES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED INSTALLATION GUIDELINES.
- AN OVERLAP OF UNDERLAMENT MUST BE MAINTAINED TOGETHER, OR IF A SELF-ADHERING POLYMER UNDERLAMENT IS USED, THE MANUFACTURER'S INSTRUCTIONS SHALL BE USED IN LIEU OF NORMAL OVERLAP REQUIREMENTS. UNDERLAMENT SHALL BE THE LOWEST EDGE OF ALL ROOF SURFACES TO EXTEND OVER ALL ROOF SURFACES TO BE COVERED BY UNDERLAMENT APPLIED IN AREAS SUBJECT TO HIGH WINDS AND CORROSION RESISTANT FASTENERS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- FOR ROOF SLOPES OF FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL, 20% OVERLAP SHALL BE MAINTAINED FOR UNDERLAMENT TO BE ONE LAYER APPLIED AS FOLLOWS:
1. APPLY SINGLE-STYLE, PARALLEL TO AND PERPENDICULAR TO THE ROOF SLOPE LAPS & ENDS LAP PER MANUFACTURER'S GUIDELINES.
 2. DISJOINTS IN THE UNDERLAMENT SHALL BE MAINTAINED AT LEAST 12 INCHES APART.
 3. NAILS TO SEAL.
 4. ENDS SHALL BE OFFSET BY SIX FEET.
- ### ROOFING: SHINGLES
- FIBERGLASS ASPHALT SH NGLES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED CLASSIFICATION REQUIREMENTS OF TABLE R905.2.4 FOR WIND SPEEDS UP TO 120 MPH.
- FOR ROOF SLOPES OF FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL, 20% OVERLAP SHALL BE MAINTAINED AS FOLLOWS:
1. APPLY SINGLE-STYLE, PARALLEL TO AND PERPENDICULAR TO THE ROOF SLOPE LAPS & ENDS LAP PER MANUFACTURER'S GUIDELINES.
 2. DISJOINTS IN THE UNDERLAMENT SHALL BE MAINTAINED AT LEAST 12 INCHES APART.
 3. NAILS TO SEAL.
 4. ENDS SHALL BE OFFSET BY SIX FEET.
- ### ROOFING: SHINGLES
- FIBERGLASS ASPHALT SH NGLES SHALL HAVE THE MANUFACTURER'S RECOMMENDED CLASSIFICATION REQUIREMENTS OF TABLE R905.2.4 FOR WIND SPEEDS UP TO 120 MPH.
- FOR ROOF SLOPES OF FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL, 20% OVERLAP SHALL BE MAINTAINED AS FOLLOWS:
1. APPLY SINGLE-STYLE, PARALLEL TO AND PERPENDICULAR TO THE ROOF SLOPE LAPS & ENDS LAP PER MANUFACTURER'S GUIDELINES.
 2. DISJOINTS IN THE UNDERLAMENT SHALL BE MAINTAINED AT LEAST 12 INCHES APART.
 3. NAILS TO SEAL.
 4. ENDS SHALL BE OFFSET BY SIX FEET.
- ### SEALING
- EXTERIOR JOINTS AROUND WINDOWS & DOOR FRAMES SHALL BE WELDED & FOUNDATION, BETWEEN WALLS & FOUNDATION, SHALL BE WELDED. ALL SERVICES PENETRATIONS THROUGH WALLS, FLOORS, ROOFS, CEILING SHALL BE WELDED. IN THE EXTERIOR ELEVATION SEAL BE SEALED IN AN APPROVED MANNER. REFER TO AIR SEALING DETAIL ON SHEET.

FLASHING

9. CORROSION RESISTANT FLASHING IS REQUIRED AT THE TOPS & SIDES OF ALL WINDOWS & ROOF OPENINGS, AND AT THE INTERSECTIONS OF CHIMNEYS, MASONRY, AND/OR WOOD CONSTRUCTION AND FRAME WALLS, OR APPROVED WATER RESISTANT SHEATHING & CAULK NG TO BE USED AT TOP & SIDES TO GUARANTEE LEAKPROOF.
10. FLASHING AGAINST A VERTICAL S DEWALL SHALL BE CONTINUOUS AT SIDING, OR STEP-FLASHING AT MASONRY OR STONE. THE FLASHING SHALL BE A MINIMUM OF 6 INCHES HIGH AND 6 INCHES WIDE. AT THE END OF THE VERTICAL SIDEWALL, THE STEP FLASHING SHALL BE TURNED OUT IN A MANNER THAT DIRECTS WATER AWAY FROM THE WALL AND

WIN: POOL NOTES

- PROVIDE ADEQUATE VENTILATION FOR POOL AREA.
PERFORM POOL SIZE & INSTALLATION REQUIREMENTS
AS SPECIFIED IN THE CONTRACT DOCUMENTS.
ALL CEILING LIGHTS IN POOL AREA WITH N 5°
HORIZONTALITY OF THE POOL EDGE SHALL BE GFCO
PROTECTED.
OPERATE NO PROCEDURES / SAFETY MEASURES /
SAFETY EQUIPMENT.
PROVIDE WALL BOX FOR EMERGENCY PHONE.
DECK SURROUNDING POOL SHALL HAVE A SURFACE
WITH A COEFFICIENT OF FRICTION (PENDULUM SLIP TESTING
ALL ELECTRICAL OUTLETS HAVE TO WEATHER-PROOF
ONE UNIT OF LIFE SAVING EQUIP. TO BE PROVIDED.
LIFE SAVERS TO BE PROVIDED BY THE CITY OF TN
DEPT. OF HEALTH, BUREAU OF HEALTH SERVICES
ADMINISTRATION, DIVISION OF GENERAL
SERVICES.
POOL DECK SHALL SLOPE FROM THE EDGE OF POOL
TO DECK DRAIN AT NOT LESS THAN 1/4" PER FOOT. NOR
LESS THAN 1/8".
ALL PIPING WILL BE SCHEDULE 40 (OR GREATER) PIPE.
LIGHT LEVELS WILL BE 15 FOOTCANDLES MIN. AT FLOOR
LEVEL. LIGHTS SHALL BE 15' MAX. FROM THE SURFACE OF THE SURFACE OF THE BUILD; BUILT-IN VACUUM
OUTLET SHALL BE 15' MAX. FROM THE SURFACE OF THE WATER.

PAN: POOL ALARM NOTES

- ALL POINTS OF ACCESS TO POOL TO BE COVERED)
DOORS WITH DIRECT ACCESS TO POOL TO BE
EQUIPPED WITH ALARM PRODUCING AUDIBLE
WARNING WHEN DOOR/SCREEN OPENS
SOUND SHOULD BE CONTINUOUS FOR 30 SECONDS
MINIMUM IMMEDIATELY AFTER DOORS OPEN
ALARM TO BE CAPABLE OF BEING HEARD THROUGH
HOUSE
ALARM SHOULD AUTOMATICALLY RESET AND
EQUIPPED WITH MEANS TO DEACTIVATE ALARM
TEMPORARILY FOR SINGLE OPENING
POOL ALARM PER UL 2017
ALL DOORS TO POOL ARE SELF CLOSING & LATCHING
WITH ACCESS ONLY BY KEY OR SW PE CARD

FASTENING SCHEDULE		
CONNECTION	FASTENER	LOCATION
JOIST TO SILL OR GIRDER	4 - 16D COMMON	TOE NAIL PER JOIST
BRIDGING 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 2 - 16D COMMON	TOE NAIL 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 SPLICE
BLOCKING BETWEEN JOISTS OR RAFTERS TO PLATE	2 - 10G 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 SILL OR TOP PLATE (TOE NAILED): 16D PER FOOT
CONTINUOUS HEADER, TWO PIECES	16D COMMON @16" O.C.	ALONG EDGE
CEILING JOISTS TO PLATE	4 - 100 COMMON	TOE NAIL
CONTINUOUS HEADER TO STUD	4 - 8D COMMON	TOE NAIL
CEILING JOISTS, HIPS OVER PARTITIONS	4 - 16D COMMON, MINIMUM	FACE NAIL
CEILING JOISTS, PARALLEL TO RAFTERS	4 - 16D COMMON, MINIMUM	FACE NAIL
RAFTER TO PLATE, HURRICANE CLIPS	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
	2 - 20D COMMON	FACE NAIL AT ENDS & AT EACH SPLICE
COLLAR TIE TO RAFTER	5 - 10G COMMON	FACE NAIL
JACK RAFTER TO HIP	3 - 10G 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: SUBFLOOR, ROOF, & WALL SHEATHING (TO FRAMING):	1/2" & LESS	8D COMMON: 6" O.C. EDGE SPACING 12" O.C. FELD SPACING
SINGLE FLOOR COMBINATION SUBFLOOR- UNDERLAYMENT TO FRAMING		
PANEL SDOING TO FRAMING	1/2" & LESS 5/8"	8D COMMON: 6" O.C. EDGE SPACING 12" O.C. FELD SPACING
FIBERBOARD SHEATHING	1/2"	8D ROOFING: 7" O.C. EDGE SPACING 12" O.C. FELD SPACING

ABBREVIATIONS

[illegible]

ELECTRICAL NOTES:

- [illegible]

E: ELEVATION NOTES

- [illegible]

M: MASONRY NOTES

1. STONE & MASONRY VENEER SHALL BE INSTALLED IN ACCORDANCE WITH RC SECTION R703.7.
- BLOCKS**
1. USE UNIFORMLY SIZED UNITS COMPLYING WITH ASTM C216, GRADE SW, TYPE FBS, AND LIMCEMENT MORTAR CONFORMING TO ASTM C270, TYPE S.
2. INSTALL GALVANIZED ANCHORS @16" O.C. EACH WAY, WITH CONCREM-PLATED SURFACES.
3. MASONRY VENEER ANCHORS TO BE EMBEDDED INTO THE GRADE OR FOUNDATION BELOW THE FINISH 1" AND AT LEAST 1" BELOW GROUT COARSE BARS TO THE ANCHOR TO THE EXTERIOR AS PER I.R.C. SECTION R703.7.4.
4. PROVIDE WALL CORNER AND BACKING MASONRY TO MEET WIND LOADS AS PER I.R.C. SECTION R703.
5. MASONRY SHALL BE SEPARATED FROM THE SHEATHING BY A MINIMUM NOMINAL 1" AIR SPACE, BUT NOT MORE THAN 4-1/2". FLASHING SHALL BE INSTALLED WITH THE FIRST COURSE OF MASONRY ABOVE FINISHED GROUND LEVEL ABOVE THE FOUNDATION TO PROVIDE PROPER DRAINAGE AND WATER SUPPORT, INCLUDING STRUCTURAL FLASHING, SHELF ANGLES, & LINTELS, WHEN MASONRY VENEERS ARE DESIGNED TO BE PROMINENTLY EXPOSED.
6. WEEPS SHALL BE PROVIDED IN THE OUTSIDE WEATHER OF THE WALLS AT EACH COURSE. WEEPS 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 CODES.
- DECK LOADS ARE 60 LB LIVE LOAD AND 10 LB DEAD LOAD, ANY SPECIAL REQUIREMENTS WILL BE SPECIFIED BY THE ARCHITECT.
- THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO BEGINNING OF WORK.
- THIS SHALL BE NOTED OFF OF ANY DISCREPANCY.
- ALL FRAMING SHALL BE "KID-PERMIT" TYPE OR APPROVED EQUAL WOOD FRAMING ANCHORS, HANGERS, HOLD-DOWNS, ETC., FOR ALL JOINTS AND CONNECTIONS.
- CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, BEAMS AND JOISTS SHALL BE FULLY BRACED AGAINST TWISTING.
- ANCHORS AND POST BASE CONNECTORS SHALL BE GALVANIZED WITH MINIMUM 1.75 INCHES OF PROTECTION FROM WEATHERING HARDWARE AND FASTENERS JOIST HANGERS, POST ANCHORS, MECHANICAL FASTENERS, NAILS, SCREWS, BOLTS, ETC. SHALL BE GALVANIZED WITH MINIMUM 1.75 INCHES OF PROTECTION FROM WEATHERING.
- STEEL STUDS SHALL BE USED FOR WALLS AND PARTITIONS, STEEL STAINLESS STEEL LOOK FOR PRODUCTS SUCH AS "ZMAX" FROM USG.
- UNLESS NOTED OTHERWISE IN THESE DETAILS, ALL FRAMING LUMBER SHALL BE DRY KILN DRIED TO A MAXIMUM MOISTURE CONTENT OF 19%.
- PRESSURE TREATED ACQ OR CA-B IN ACCORDANCE WITH AMERICAN TIMBER FRAME ASSOCIATION (ATF) STANDARD PRACTICES SHALL BE IN CONTACT WITH THE GROUND SHALL BE RATED AS "GROUND CONTACT" AND SHALL BE PROTECTED BY ANOTHER MEANS OF CONTACT PROTECTION.
- ALL EXPOSED NG MATERIAL SHALL BE 2x4 OR 5/4 (FIVE-QUARTER) BOARD, ATTACH DECK NO TO EACH JOIST WITH A MINIMUM OF (2) RING SHANK SCREWS PER JOIST, ALL JOISTS SHALL BE BRACED DIAGONALLY AT A 45 DEGREE ANGLES PERPENDICULAR TO THE JOISTS.
- MANUFACTURING MATERIALS MAY BE SUBSTITUTED ONLY WHEN THE REPLACEMENT IS APPROVED BY THE ARCHITECT.
- TESTING LABORATORY CHECK YOUR LOCAL AUTHORITY FOR THE LIST OF APPROVED DECK NG PRODUCTS.
- FURNISH SCHEDULING INFORMATION TO THE ARCHITECT FOR FRAMING NOTES:

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

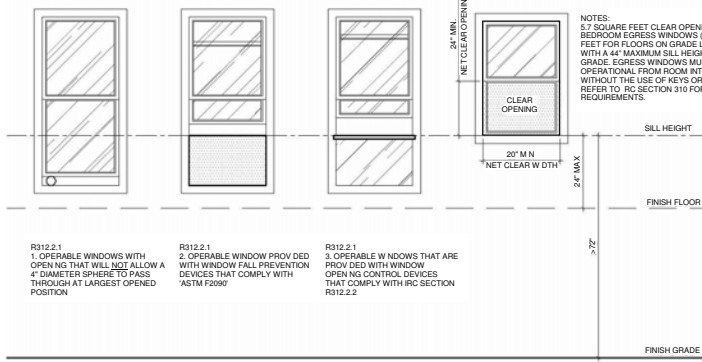
FLOOR INSULATION MUST BE INSTALLED TO MAINTAIN PERMANENT CONTACT WITH THE UNDERSIDE OF THE SUBFLOOR DECKING.

PROGRAMMABLE THERMOSTATS WITH DA LY SETBACK CAPABILITY REQUIRED WHERE PRIMARY HEATING SYSTEM IS FORCED-AIR 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.



oysk³ architects
Knoxville TN 37821
off@oysk3architects.com
1545 Western Avenue Suite 100
Knoxville TN 37821
(606) 623-8200

2/4/2025

CANSLER AVE DUPLEX
NEW RESIDENTIAL CONSTRUCTION

216 Cansler Ave, Knoxville, Tennessee

FILE	DATE	RECEIVED FOR

CONSTRUCTION
NOTES

CONST
NOTES

G002

PROJECT : 25003

[illegible]

FOUNDATION NOTES

- ASSUME SOIL BEARING PRESSURE OF 2000 PSI. TOPOGRAPHY AND GRADE TO BE DETERMINED BY CIVIL ENGINEER.
- IF CRAWL SPACE WALL IS OVER 10'-0" HIGH, 8"x12" CMU TO BE UT LID.
- 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.
- FOUNDATION IS LAD OUT FOR A SITE WITH NO MORE THAN 10% SLOPE. IF THE SLOPE IS GREATER THAN 10%, CONFER WITH A STRUCTURAL ENGINEER.
- PROVIDE 10 MIL POLYETHYLENE VAPOR BARRIER.
- 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 UNDERFLOOR SPACE AREA. ONE SUCH VENTILATION OPENING SHALL BE WITHIN 3 FEET OF EACH CORNER OF THE BUILDING).
- STEP FOUNDATION AS REQUIRED FOR SITE.
- FIELD LOCATE A MIN OF 16" 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" PLYWOOD SHEATHING, TYVEK WEATHER BARRIER & 5.0 KG 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 US05
- 1 HR. EXTERIOR 2x4 WALL - GP EWFW-02

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 R308.4.3 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)

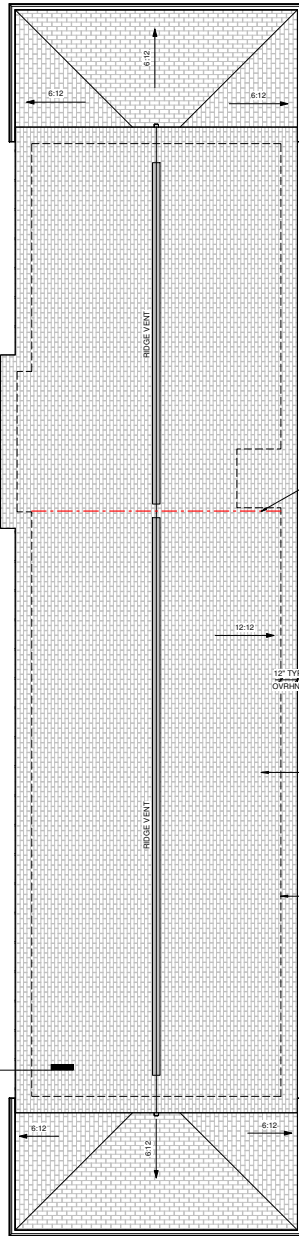
TYPICAL DECKS, PATIOS & PORCHES:

DECKS, PATIOS & PORCHES TO BE 1/2" BELOW ADJACENT FINISHED FLOOR. PROVIDE FLASHING AT ALL FLOOR TRANSITIONS AT DECK, PATIOS & PORCHES

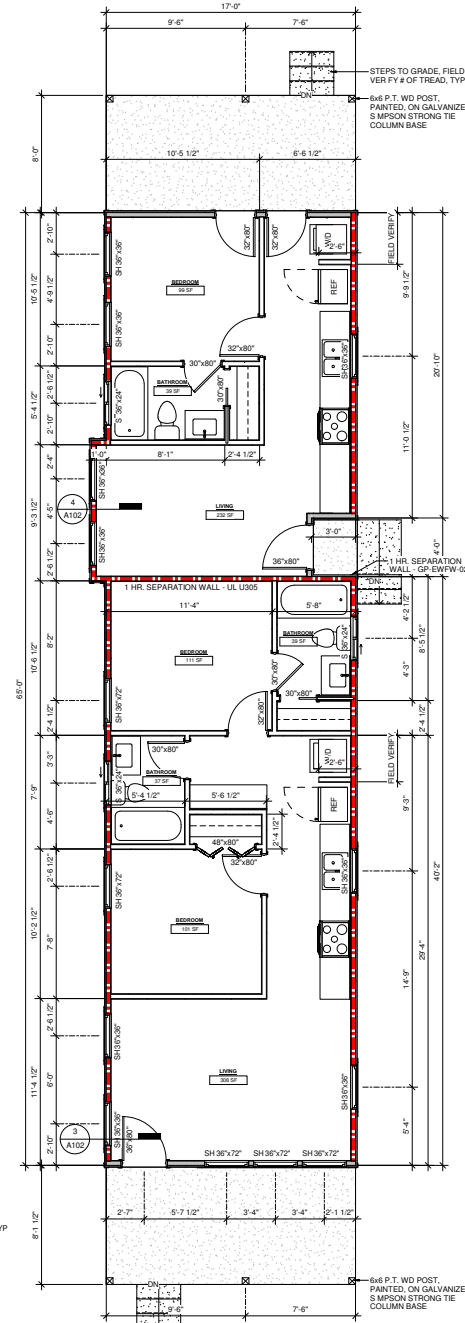
IF THE FINISHED FLOOR HEIGHT OF THE DECK IS 30" ABOVE GRADE, STAIRS AND RAILINGS TO GRADE MUST BE ADDED. RAILINGS TO BE 36" TALL WITH A MINIMUM OF 4" TOP AND BOTTOM RAILS WITH 2" PICKETS SPACED AT NO MORE THAN 3.75"

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

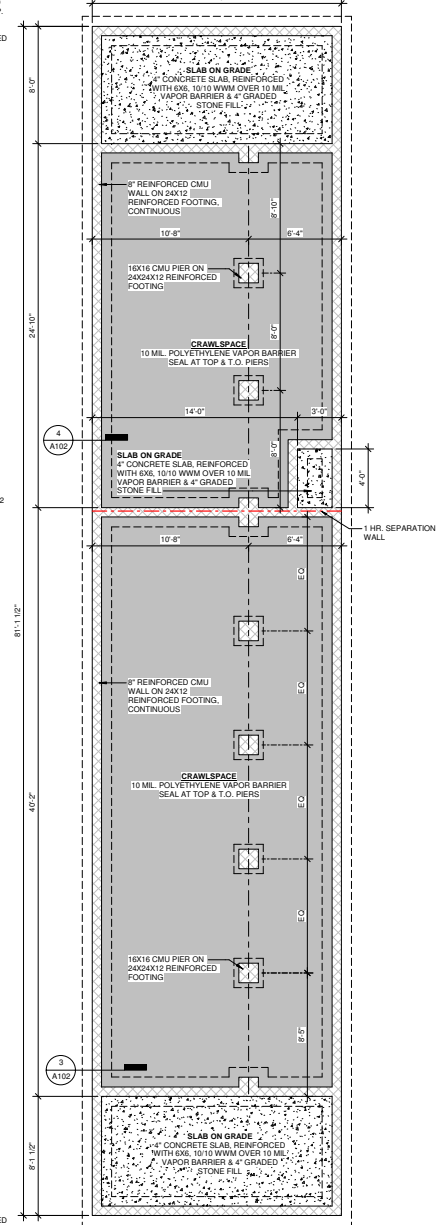
2 ROOF PLAN
A101 1/4" = 1'-0"



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



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



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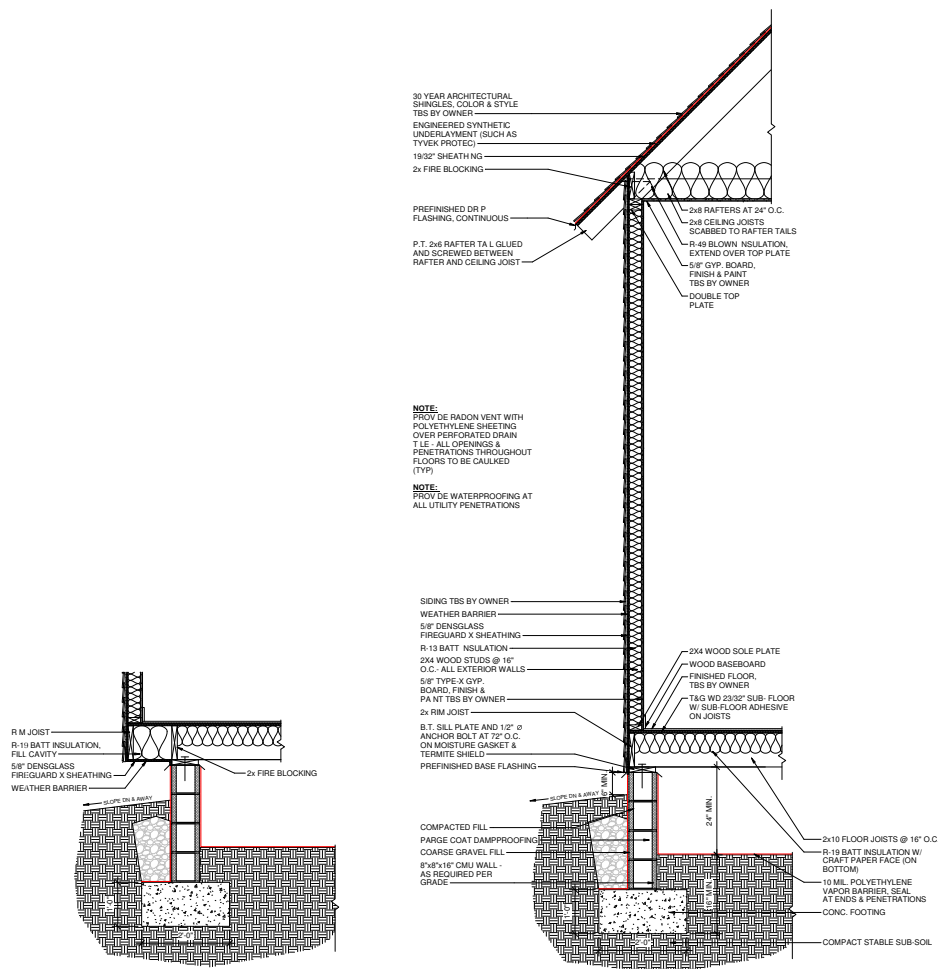
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FOUNDATION PLAN,
FLOOR PLAN, &
ROOF PLAN

A101

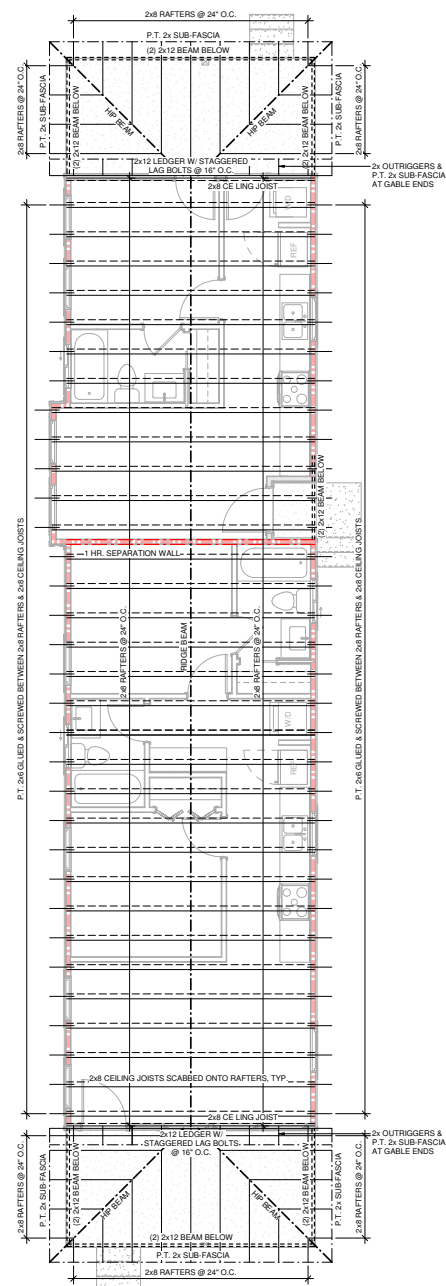
PROJECT : 25003

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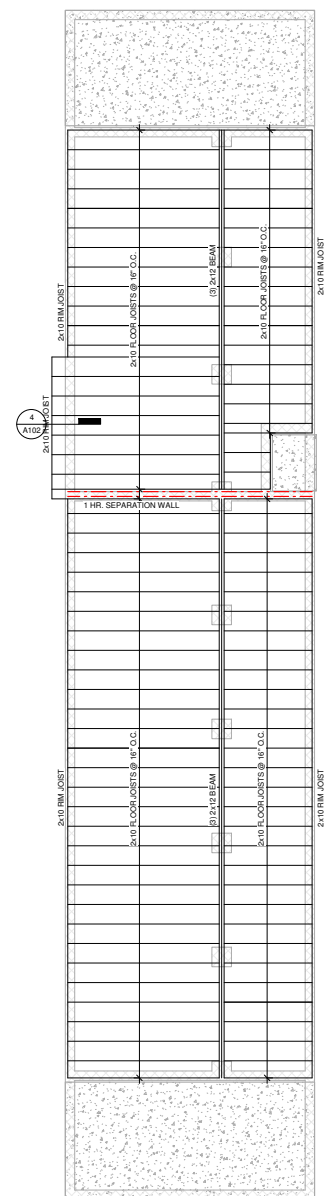


4 BAY WINDOW DETAIL - 1 HR. ASSEMBLY
A102 $3/4" = 1'-0"$

3 TYPICAL WALL SECTION
A102 $\frac{3}{4}" = 1'-0"$



2 SCHEMATIC ROOF FRAMING PLAN
A102 1/4" = 1'-0"



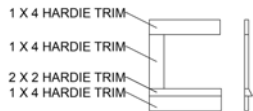
1 SCHEMATIC MAIN FLOOR FRAMING PLAN
A102 1/4" = 1'-0"

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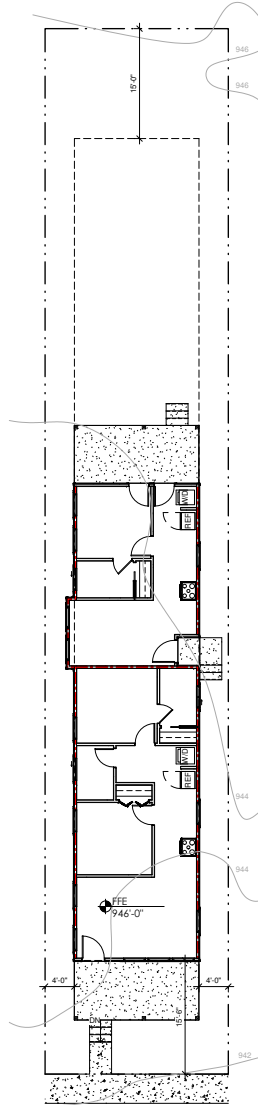
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SCHEMATIC
FRAMING PLANS &
WALL SECTION

A102



6 ARTICULATED WINDOW & DOOR TRIM DETAIL
NTS

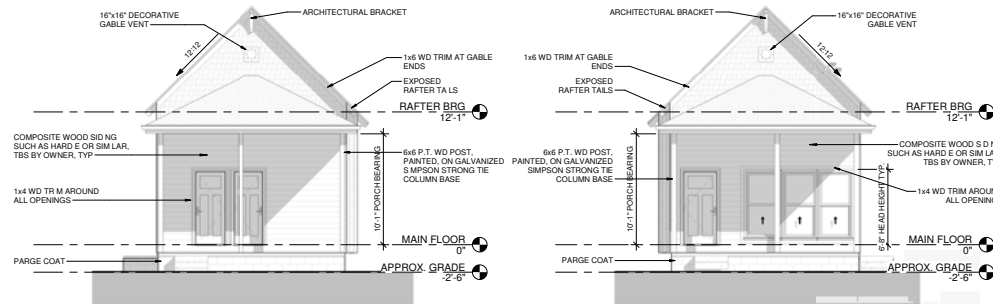
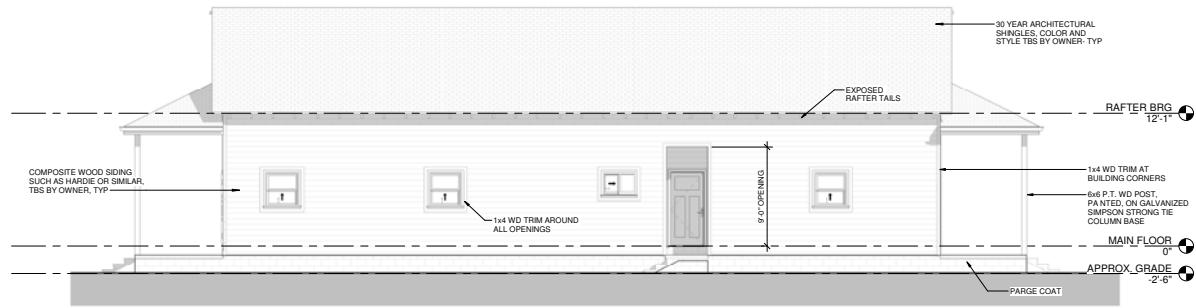


5 ARCHITECTURAL SITE PLAN
1/8" = 1'-0"

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

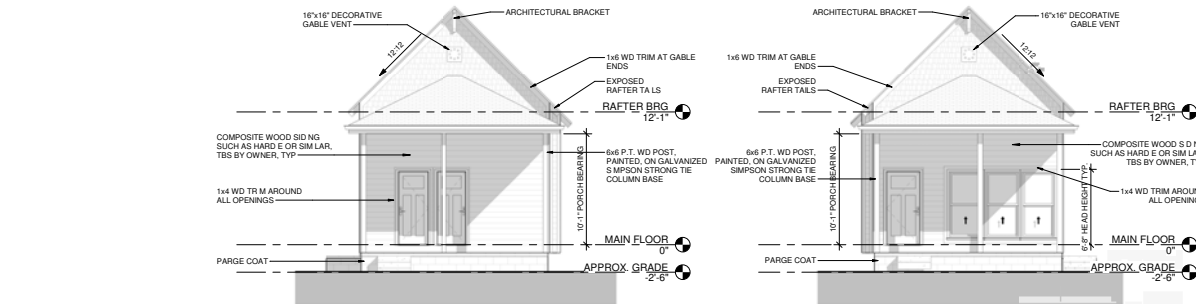


3 RIGHT ELEVATION
3/16" = 1'-0"



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

2 REAR 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.

