

EL DORADO COUNTY PLANNING & BUILDING DEPARTMENT

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Date: December 21, 2023

To: Honorable Board of Supervisors

From: Karen L. Garner, Planning & Building Director

Subject: Limited Density Owner Built Rural Dwelling (Title 25) for Grizzly Flats

On November 13, 2023, County staff from various departments and divisions as well as representatives from other agencies with jurisdiction in Grizzly Flats convened to discuss the feasibility of applying a Limited Density Owner-Built Rural Dwellings (Title 25) program in Grizzly Flats and how such a program should be structured to best serve the needs of Grizzly Flats residents and the general public. Group members included:

- Kim Gustafson, General Manager, Grizzly Flats CSD
- Art Davidson, Board Member, Grizzly Flats CSD
- Dave Whitt, Chief, Pioneer Fire District
- Ken Earle, Battalion Chief/Fire Marshal, Pioneer Fire District
- Greg Horsfall, Chief Building Official, City of Placerville/Building Industry Advisory Committee Member
- Sue Hennike, Assistant CAO, El Dorado County
- Jefferson Billingsley, Deputy County Counsel, El Dorado County
- Chris Simonson, Building Inspector, Planning & Building, El Dorado County
- Chris Smith, Administrative Analyst, Planning & Building, El Dorado County
- Kathy Witherow, Executive Assistant, Planning & Building, El Dorado County
- · Karen Garner, Director, Planning & Building, El Dorado County

Following are the sections of Title 25 where there was group consensus, areas for further research and areas where there was not complete consensus and Board feedback is requested. Please note that the Title 25 Sections are summary descriptions. Please see attached Title 25 for complete language.

Requirements

The following items are requirements of Title 25. No changes recommended.

Title 25 Section	Requirement
§ 96. Permits	Permits must be issued by the Building
	Division once application and plans approved.

§ 106. Permit Validity	Permits are valid, without renewal, for a
3 100.1 Crime variancy	minimum period of three years. (Compared to
	one year under Title 24).
§ 116. Certificate of Occupancy	A certificate of Occupancy will be issued after
§ 116. Certificate of Occupancy	
\$ 422 Compared Dominion and	structure completed and inspected.
§ 122. General Requirements	Structures must comply with certain sections
§ 124. Intent of General Requirements	of the California Building Code (Title 24), but
§ 126. Technical Codes to Be a Basis of	there are allowances for alternatives,
Approval	provided that alternatives, materials, methods
	of construction, and structural integrity shall
	perform in application for the purpose
	intended. The Building Division and other
	reviewing agencies shall use reasonable
	judgment in determining compliance.
	Structures need not conform with the Uniform
	Building, Plumbing, and Mechanical Codes
	and the National Electrical Code or other
	technical codes, however, such codes shall
	be a basis of approval.
§ 128. Mechanical Requirements	Fireplaces, heating and cooking appliances,
	and gas piping shall be installed and vented
	in accordance with the applicable
	requirements contained in the California
	Mechanical Code.
§ 134. Plumbing Requirements	Plumbing equipment and installation shall be
	in accordance with the applicable
	requirements contained in the California
	Plumbing Code (Title 24),

Recommendations

The following are areas of Title 25 with flexibility and the review group's recommendations.

Title 25 Section & Summary	Recommendation			
§ 82. Regulation of Use	Require homeowner to live in home a			
Requires homeowner to live in home a	minimum of three years before selling, leasing			
minimum of one year before selling, leasing	or renting (same as Butte County).			
or renting.				
§ 92. Recording	Require recording disclosing Title 25			
Allows jurisdictions to require recordation on				
property to disclose structure was built under				
Title 25				
§ 98. Application	A special application will be prepared			
Specifies required information on building	specifically for Title 25 applications modeled			
permit application.	after Butte County example.			
§ 100. Plans	Will allow simplified plans modeled after Butte			
Specifies minimum information required on	County example. Snow load information will			
plans. Architectural drawings and structural	be required.			
analyses shall not be required except for				

Limited Density Owner Built Rural Dwelling (Title 25) Recommendations for Grizzly Flats Page 3 of 5 $\,$

structures of complex design or unusual conditions.	
§ 108. Inspections Inspections are at the discretion of the Building Division.	Require minimum of four inspections: foundation, framing, rough electrical & plumbing, final (modeled on Butte County example). More inspections may be required for unconventional construction or special circumstances (i.e., addition of solar).
§ 118. Temporary Occupancy The use and occupancy of a portion or portions of the dwelling may be allowed prior to completion of the entire structure provided that approved sanitary facilities are available at the site and there are no health or safety issues.	Will allow but recommend referring to it as "Partial occupancy" since temporary occupancy is usually used to describe a different condition.
§ 120. Fees Fees may be collected by the County but must be based on actual inspection and administrative costs.	Title 25 structures in Grizzly Flats would be covered under existing Caldor Fire Urgency Ordinance (Ord. 5150) and therefore fees for plan check, inspection or other County fees will be waived.
§ 130. Electrical Requirements § 132. Installation Requirements Dwelling not required to be connected to a source of electrical power, or wired, or otherwise fitted for electrification.	Will not require that dwellings, or portions of dwellings, be electrified. Where electrical wiring or appliances are installed, it shall be in accordance with the California Electrical Code (Title 24)

Other Requirements

The following are areas outside of Title 25 and the review group's recommendations.

Topic	Recommendation						
Qualifications for Program	 Grizzly Flats residents only. Will use Grizzly Flats Rural Community Center boundary (General Plan). Proof of ownership prior to Caldor Fire (same as current fee waiver program). Residents who owned lots prior to Caldor Fire but subsequently purchased adjacent lot will qualify, even if proposed structure is on newly purchased parcel. 						
Pilot Program/Sunset Date	Initial Two Year Program with ability for Board to extend.						
Sale of Property	Once property sold (minimum three years after built), Title 25 structure must either be brought up to Title 24 standards, converted to another use, such as U occupancy (storage, garage) or removed.						
Snow Load	Structures must meet snow load requirements. Most of Grizzly Flats is 70						

Limited Density Owner Built Rural Dwelling (Title 25) Recommendations for Grizzly Flats Page 4 of 5 $\,$

	lbs./sq. ft. or less. Title 24 includes structural standards for up to 70 lbs./sq. ft, so design is easy to incorporate into plans.
Grizzly Flats CSD Service	If parcel was previously served by Grizzly Flats CSD for water, will require water service again.
Septic	Sites will need to meet standard septic requirements.
PG&E	Site will need to meet PG&E requirements. Solar must be permitted through County Building Division (state limits cost of solar permits).

Further Discussion/Feedback from Board Requested

Includes the group's discussion.

Topic	Discussion
	Discussion
Fire Sprinklers • Requirement based on size?	1,200 sf — this is based on old requirements that have since been superseded. Butte County still uses this threshold for fire sprinklers. State ADU law does not require fire sprinklers for 1,200 sf or less only if the primary residence is not required to have fire sprinklers (i.e., existing single-family home built prior to fire sprinkler requirements). Of course, those that may use this program no longer have a primary residence.
	 800 sf – not based on any particular law, but rather a smaller square footage yet still seemed a reasonable size. 320 sf – based on state & local fire laws for manufactured homes. Law does not require fire sprinklers for manufactured homes that do not exceed 320 sq. ft. Committee proposed 320 sf (even if stick built). Consider different requirements based on lot size? (i.e., no fire sprinklers for 800 sq. ft if on ½ acre or more; no fire sprinklers for 1,200 sq. ft if on 1 acre or more)
 Fire Sprinklers Are there less expensive alternatives? Are there other items that could be required in lieu of fire sprinklers? 	Are there fire suppression systems that can be run off domestic water line rather than dedicated fire suppression water line? Are water tanks less expensive?

Limited Density Owner Built Rural Dwelling (Title 25) Recommendations for Grizzly Flats Page 5 of 5 $\,$

	Are there home hardening alternatives that are less cost that provide protection? Require fire extinguishers? Smoke detectors already required by code.
Milled Lumber • Require 7A compliance?	 May be lack of lumber inspectors in the state for 7A compliance. Butte County example: Owner produced materials or milled lumber is allowed with a review and approval by the Building Official – 19% moisture content.
Generators as Source of Power	Will allow as primary source of power through partial occupancy but must have electrical or solar power upon final occupancy.

Additional Recommended Research

- Actual costs of fire sprinklers including design, installation, connection to water and any line upgrades that may be necessary.
- Complete list of permits issued in Grizzly Flats since Caldor Fire. Stick-built vs. modular and Temp RV permits.
- Additional information regarding 7A compliant lumber including feasibility and cost.
- Explore if pre-approved ADU program can include an option specific to Title 25 structure.
- Grant or other funding sources available to cover cost of fire sprinklers for Title 25 structures (may require income verification).
- Outreach to Grizzly Flats Community to obtain resident feedback.

Title 25

25 CCR § 74. Purpose

The purpose of this article is to provide minimum requirements for the protection of life, limb, health, property, safety, and welfare of the general public and the owners and occupants of limited density owner-built rural dwellings and appurtenant structures. It is also the expressed purpose of this article to conform the regulations regarding the construction and use of limited density, rural owner-built dwellings and appurtenant structures to the requirements of Article 1, Section 1, of the California State Constitution, and the statutes of the State of California which require the department to consider the uniform model codes and amendments thereto; and local conditions, among which are conditions of topography, geography and general development; and to provide for the health, safety and general welfare of the public in adopting building standards. Any section, subsection, sentence, clause, or phrase of this article if, for any reason, held to be unconstitutional, or contrary to California statutes, such ruling shall not affect the validity of the remaining portions of this article.

§ 76. Intent and Application

The provisions of this article shall apply to the construction, enlargement, conversion, alteration, repair, use, maintenance, and occupancy of limited density owner-built rural dwellings and appurtenant structures. It is the intent of this article that the requirements contained herein shall apply to seasonally or permanently occupied dwellings, hunting shelters, guest cottages, vacation homes, recreational shelters and detached bedrooms located in rural areas.

§ 78. Definitions

For the purposes of this article the following definitions shall apply:

"Limited density, rural dwelling." A "limited density, rural dwelling" is any structure consisting of one or more habitable rooms intended or designed to be occupied by one family with facilities for living and sleeping, with use restricted to rural areas that fulfill the requirements of this article.

"Owner built."

- (a) "Owner built" shall mean constructed by any person or family who acts as the general contractor for, or the provider of, part or all of the labor necessary to build housing to be occupied as the principal residence of that person or family, and not intended for sale, lease, rent or employee occupancy.
- (b) For the purposes of this article the sale, lease, renting (see local authority Section 82(b)) or employee occupancy of owner-built structures in one year of issuance of a Certificate of Occupancy shall be presumptive evidence that the structure was erected for the purpose of sale, lease, or renting.

"Rural." For the purpose of this article only, "rural" shall mean those unincorporated areas of counties designated and zoned by the appropriate local agency for the application of this article. In defining "rural," the agency shall consider local geographical or topographical conditions, conditions of general development as evidenced by population densities and availability of

utilities or services, and such other conditions that the agency deems relevant to its determination.

Suitable areas may include those wherein the predominate land usage is forestry, timber production, agriculture, grazing, recreation, or conservation.

§ 80. Local Standards

Pursuant to Sections 17958, 17958.5, and 17958.7 of the Health and Safety Code, the governing body of every jurisdiction in which there exist rural areas displaying conditions appropriate for the application of this article and designated as such by the appropriate local agency shall adopt regulations imposing the same requirements as are contained in this article.

§ 82. Regulation of Use

- (a) For the purposes of this article the sale, lease, renting or employee occupancy of owner-built structures within one year of the issuance of a Certificate of Occupancy shall be presumptive evidence that the structure was erected for the purpose of sale, lease or renting.
- (b) The restrictions of this article on the sale, lease, renting, or employee occupancy of these dwellings may be reasonably amended to be more restrictive if the governing body determines that such an amendment is necessary to ensure compliance with the intent of this article.

§ 84. Abatement of Substandard Buildings

All structures or portions thereof which are determined by the enforcing agency to constitute a substandard building shall be declared to be a public nuisance and shall be abated by repair, rehabilitation, or removal in accordance with Health and Safety Code Sections 17980 through 17995. In cases of extreme hardship to owner-occupants of the dwellings, the appropriate local body should provide for deferral of the effective date of orders of abatement.

§ 86. Petitions for Interpretations

Any person or local agency may petition the Department for an interpretation of any provision of this article. Petitions shall be submitted in writing, after which the Department may consider such requests and the Department may make a determination as to the meaning or intent of any provision of this article with respect to the petition in question. The consideration of petitions for interpretation shall be discretionary with the Department.

§ 88. Interpretation

Interpretations by the Department as to the meaning, intent, or application of the provisions of this article are not intended to preempt the exercising of building or housing appeals processes established by Sections 17930-17932 of the Health and Safety Code, but are intended to facilitate public understanding and the effective enforcement of this article.

§ 90. Notice of Findings

The Department shall keep a record of all interpretations made by the Commission which shall be available for review by the public or any governmental agency and shall provide notice to the petitioner(s) of the Department's findings.

§ 92. Recording

No provision of this article is intended to prohibit or limit a local governing body from establishing and enforcing reasonable regulations for the recording of information regarding the materials, methods of construction, alternative facilities, or other factors that may be of value in the full disclosure of the nature of the dwelling and appurtenant structures.

§ 94. Violations

The critical concern in the promulgation of this article is to provide for health and safety while maintaining respect for the law and voluntary compliance with the provisions of this article, and therefore, in the event that an order to correct a substandard condition is ignored, it is the intent of this section that civil abatement procedures should be the first remedy pursued by the enforcement agency.

§ 96. Permits

Permits shall be required for the construction of rural dwellings and appurtenant structures. The application, plans, and other data filed by an applicant for such permit shall be reviewed by the appropriate enforcement agency to verify compliance with the provisions of this article. When the enforcement agency determines that the permit application and other data indicate that the structure(s) will comply with the provisions of this article, the agency shall issue a permit therefore to the applicant.

Exemptions: Permits shall not be required for small or unimportant work, or alterations or repairs that do not present a health or safety hazard, and which are in conformance with local zoning requirements or property standards. The determination, if any, of what work is properly classified as small or unimportant or without relation to health and safety hazards is to be made by the appropriate local agencies.

§ 98. Application

To obtain a permit, the applicant shall first file an application therefore with the designated enforcement agency. Permit applications shall contain the following information: (1) name and mailing address of the applicant; (2) address and location of the proposed structure(s); (3) a general description of the structure(s) which shall include mechanical installations with all clearances and venting procedures detailed, electrical installations, foundation, structural, and construction details; (4) a plot plan indicating the location of the dwelling in relation to property lines, other structures, sanitation and bathing facilities, water resources, and water ways; (5) approval for the installation of a private sewage disposal system or alternate waste disposal means from the local health enforcement agency; (6) a stipulation by the applicant that the building or structure is to be owner-built; (7) the signature of the owner or authorized agent; (8)

the use or occupancy for which the work is intended; (9) and any other data or information as may be required by statute or regulation.

§ 100. Plans

Plans shall consist of a general description of the structure(s), including all necessary information to facilitate a reasonable judgment of conformance by the enforcing agency. This may include a simplified diagram of the floor plan and site elevation in order to determine the appropriate dimensions of structural members. Architectural drawings and structural analyses shall not be required except for structures of complex design or unusual conditions for which the enforcement agency cannot make a reasonable judgment of conformance to this article based upon the general description and simplified plan(s).

§ 102. Waiver of Plans

The enforcement agency may waive the submission of any plans if the agency finds that the nature of the work applied for is such that the reviewing of plans is not necessary to obtain compliance with this article.

§ 104. Modifications

Modifications to the design, materials, and methods of construction are permitted, provided that the structural integrity of the building or structure is maintained, the building continues to conform to the provisions of this article and the enforcement agency is notified in writing of the intended modification.

§ 106. Permit Validity

Permits shall be valid, without renewal, for a minimum period of three years.

§ 108. Inspections

All construction or work for which a permit is required may be subject to inspection by the designated enforcement agency. If an inspection is required, the inspection of the building or structure(s) shall be conducted after the structure(s) is completed and ready for occupancy, in order to determine compliance with the provisions of this article. Structures of conventional or simple construction shall be inspected at a single inspection.

§ 110. Special Inspections

Additional inspections may be conducted under the following circumstances: An inspection may be conducted where there is a reasonable expectation that the footing will be subjected to serious vertical or lateral movement due to unstable soil conditions; or the application indicates that interior wall coverings or construction elements will conceal underlying construction, electrical or mechanical systems; or where an unconventional construction method is indicated which would preclude examination at a single inspection.

§ 112. Inspection Waivers

Inspections may be waived by the enforcement agency for structures which do not contain electrical or mechanical installations or for alterations, additions, modifications, or repairs that do not involve electrical or mechanical installations; or where the applicant stipulates in writing that the work has been conducted in compliance with the permit application and the provisions of this article.

§ 114. Inspection Requests and Notice

It shall be the duty of the applicant to notify the enforcement agency that the construction is ready for inspection and to provide access to the premises. Inspections shall be requested by the applicant at least (48) hours in advance of the intended inspection. It shall be the duty of the enforcement agency to notify or inform the applicant of the day during which the inspection is to be conducted.

§ 116. Certificate of Occupancy

After the structure(s) is completed for occupancy and any inspections which have been required by the enforcing agency have been conducted, and work approved, the enforcement agency shall issue a Certificate of Occupancy for such dwelling(s) and appurtenant structure(s) which comply with the provisions of this article.

§ 118. Temporary Occupancy

The use and occupancy of a portion or portions of a dwelling or appurtenant structure prior to the completion of the entire structure shall be allowed, provided that approved sanitary facilities are available at the site and that the work completed does not create any condition to an extent that endangers life, health or safety of the public or occupants. The occupants of any such uncompleted structure shall assume sole responsibility for the occupancy of the structure or portion thereof.

§ 120. Fees

Fees may be required and collected by the enforcement agency to provide for the cost of administering the provisions of this article. It is the intent of this article that permit and inspection fee schedules be established to reflect the actual inspection and administrative costs resulting from the application of this article.

§ 122. General Requirements

- (a) Each structure shall be constructed in accordance with applicable requirements contained in Subchapter 2-12, Title 24, California Code of Regulations.
- (b) Each structure shall be maintained in a sound structural condition to be safe, sanitary, and to shelter the occupants from the elements.

§ 124. Intent of General Requirements

It shall be the purpose and intent of this article to permit the use of ingenuity and preferences of the builder, and to allow and facilitate the use of alternatives to the specifications prescribed by the uniform technical codes to the extent that a reasonable degree of health and safety is provided by such alternatives, and that the materials, methods of construction, and structural integrity of the structure shall perform in application for the purpose intended. To provide for the application of this article, it shall be necessary for the enforcement agency to exercise reasonable judgment in determining the compliance of appropriate structures with the general and specific requirements of this article.

§ 126. Technical Codes to Be a Basis of Approval

Except as otherwise required by this article, dwellings and appurtenant structures constructed pursuant to this part need not conform with the construction requirements prescribed by the latest applicable editions of the Uniform Building, Plumbing, and Mechanical Codes, the National Electrical Code, or other applicable technical codes; however, it is not the intent of this section to disregard nationally accepted technical and scientific principles relating to design, materials, methods of construction, and structural requirements for the erection and construction of dwelling and appurtenant structures as are contained in the uniform technical codes. Such codes shall be a basis for approval.

§ 128. Mechanical Requirements

Fireplaces, heating and cooking appliances, and gas piping installed in buildings constructed pursuant to this article, shall be installed and vented in accordance with the applicable requirements contained in the California Mechanical Code, Part 4, Title 24, California Code of Regulations.

§ 130. Electrical Requirements

No dwelling or appurtenant structure constructed pursuant to this article shall be required to be connected to a source of electrical power, or wired, or otherwise fitted for electrification, except as set forth in Section 132.

§ 132. Installation Requirements

Where electrical wiring or appliances are installed, the installation shall be in accordance with the applicable requirements contained in the California Electrical Code, Part 3, Title 24, California Code of Regulations.

Exceptions to Installation Requirements. In structures where electrical usage is confined to one or more rooms of a structure, the remainder of the structure shall not be required to be wired or otherwise fitted for electrification unless the enforcement agency determines the electrical demands are expected to exceed the confinement and capacity of that room(s). In these instances, the enforcement agency may require further electrification of the structure.

It is the intent of this subsection to apply to buildings in which there exists a workshop, kitchen, or other single room which may require electrification, and where there is no expectation of further electrical demand. The enforcement agency shall, at the time of a permit application or other appropriate point, advise the applicant of the potential hazards of violating this section.

§ 134. Plumbing Requirements

Plumbing equipment and installation shall be in accordance with the applicable requirements contained in the California Plumbing Code, Part 5, Title 24, California Code of Regulations applicable to the construction of limited density owner-built rural dwellings.

EL DORADO COUNTY PROTOTYPE TITLE-25 RURAL DWELLING



PROJECT DESCRIPTION

- 1. OCCUPANCY TYPE: IMPROVED, SINGLE-FAMILY TYPE Y, WOOD 2. TYPE OF CONSTRUCTION: 3. SOIL BEARING CONDITIONS: VARIES
- 4. LATERAL DESIGN:
- WIND- 100MPH BASIC WIND SPEED EXPOSURE- "B"
 - IMPORTANCE- I
- 5. SEISMIC CONDITIONS: SOIL PROFILE-SD CATEGORY ZONE- D
 - IMPORTANCE- 1 R= 5.5 CA= 0.36 CV= 0.54
 - IMPORTANCE- 1
- 6. CLIMATE ZONE:
- PG=10 PSF (GROUND) 7. SNOW LOADS:
- 8. FIRE SPRINKLERS: NOT REQUIRED 9. FLOOD ZONE: REVIEW NOT REQUIRED
- 10. FIRE HAZARD ZONE: VERY HIGH

SITE DESCRIPTION

- I. PARCEL NUMBER: 2. CURRENT ZONING: 3. SITE ADDRESS:
- 4. SITE AREA: 5. WATER SERVICE:
- 6. SEWER SERVICE:
- ELECTRICAL SERVICE: P.G.E. 8. TELEPHONE SERVICE: AT\$T
- 9. FIRE PROTECTION:
- 10. SCHOOL DISTRICT:

AREA SUMMARY

748 S.F. (GROSS) EXISTING DWELLING SPACE: 2. COVERED PORCH AREA: 72 S.F. (GROSS)

INDEX OF DRAWINGS

- COVER SHEET
- SITE PLAN (PROVIDED SEPARATELY)
- FLOOR PLAN
- BUILDING SECTION BUILDING ELEVATIONS
- INTERIOR ELEVATIONS FOUNDATION PLAN
- FOUNDATION DETAILS ROOF FRAMING PLAN
- ROOF PLAN VENTILLATION REQUIREMENTS ATTIC FLOOR PLAN
- ELECTRICAL \$ MECHANICAL PLAN REFLECTED CEILING PLAN GAS PIPING PLAN NAILING SCHEDULE

THESE DRAWINGS PROVIDED FOR PLANNING AND VIZUALIZATION PURPOSES ONLY. THEY MAY BE USED FOR CONSTRUCTION ONLY IF BEARING AN ORIGINAL BUILDING DEPARTMENT AND OTHER APPROPRIATE JURSIDICTION APPROVAL STAMPS

GENERAL NOTES

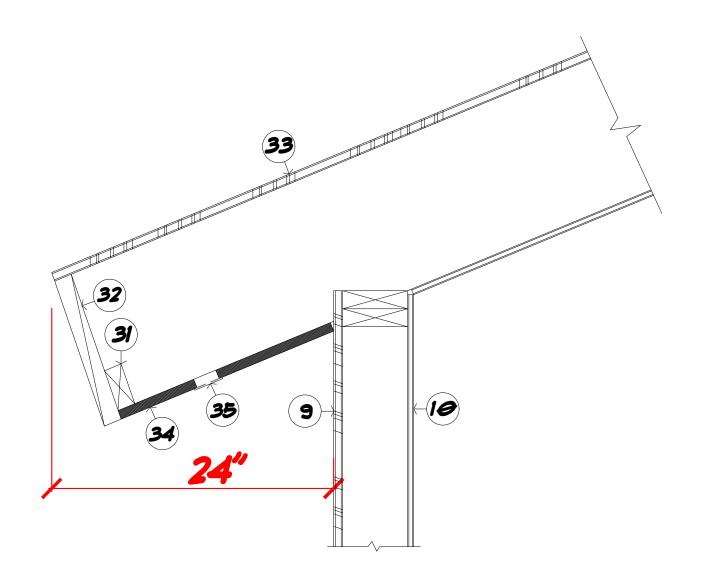
- **SETBACKS AND ENCROACHMENTS. THE CONTRACTOR IS** RESPONSIBLE FOR LOCATING ALL PROPERTY LINES, VERIFYING ALL SETBACKS, EASEMENTS, AND RIGHTS OF WAYS. CONTRACTOR SHALL VERIFY THAT THE FOOTPRINT OF THE STRUCTURE WILL BE CONSTRUCTED WITHOUT ENCROACHING ANY APPLICABLE BOUNDARIES. DISCREPANCIES WILL BE BROUGHT TO THE ATTENTION OF THE EL DORADO COUNTY BUILDING DEPARTMENT PRIOR TO CONSTRUCTION.
- 3. Precedence of Information. Written Dimensions CONSTRUCTION DETAILS, AND APPROVED BUILDING DEPARTMENT SETS OF DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS OR ALTERNATE BUILDING DRAWINGS SETS.
- 4. NOT USED
- 5. NOT USED.
- 6. FIXTURES AND EQUIPMENT. ALL EQUIPMENT, APPLIANCES, FIXTURES, HARDWARE, FINISH MATERIALS, AND COLOR SELECTIONS TO BE DETERMINED BY AGREEMENT SOLELY BETWEEN THE OWNER AND CONTRACTOR.
- INSTRUMENTS OF SERVICE. THESE DOCUMENTS, AND THE IDEAS AND DESIGN ELEMENTS INCORPORATED HEREIN AS INSTRUMENTS OF PROFESSIONAL SERVICE, ARE THE EXCLUSIVE PROPERTY OF EL DORADO COUNTY AND ARE NOT TO BE USED WHOLE, OR IN PART, WITHOUT PRIOR WRITTEN AUTHORIZATION OF EL DORADO COUNTY.
- 8. REUSE OF PLANS AND DOCUMENTS. EL DORADO COUNTY DOES NOT REPRESENT THAT THESE DETAILS AND PLANS OR THE SPECIFICATIONS IN CONNECTION THEREWITH, ARE SUITABLE, WHETHER OR NOT MODIFIED, FOR ANY OTHER SITE THAN FOR THE ONE FOR WHICH THEY WERE PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND ASSOCIATED CONSTRUCTION DOCUMENTS IF THEY ARE USED WHOLE, OR IN PART, AT ANY OTHER SITE OR PROJECT.
- USE OF APPROVED PLANS. THESE DRAWINGS AND ASSOCIATED CONSTRUCTION DOCUMENTS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED BY THE OWNER AND APPROPRIATE REGULATORY AGENCIES.
- 10. PROPER COMPLETION OF WORK. THE OWNER AND CONTRACTOR AGREE AND RECOGNIZE THAT BY USE OF THESE PLANS AND DOCUMENTS FOR THE COMMENCEMENT OF CONSTRUCTION THAT THAT THESE CONSTRUCTION PLANS AND DOCUMENTS EXHIBIT ONLY THE INTENT AND PURPOSES OF THE OWNER AND ARCHITECT AND THEY ARE NOT COMPLETE IN EVERY DETIAL. BY USE OF THESE PLANS, OWNER AND CONTRACTOR AGREE THAT ANY PART OF THE WORK NOT SET FORTH IN THESE DOCUMENTS, BUT WHICH IS NECESSARY FOR THE PROPER COMPLETION OF THE WORK TO THE SATISFACTION OF THE OWNER. IS TO BE SUPPLIED AS AGREED UPON BY THE OWNER AND CONTRACTOR ONLY.
- ADDITIONAL SERVICES (EXPENSES). ADDITIONAL SERVICES REQUIRED BY REGULATORY AGENCY REVIEWS SHALL BE THE SOLE RESPONSIBILITY OF THE OWNER.

APPROVALS

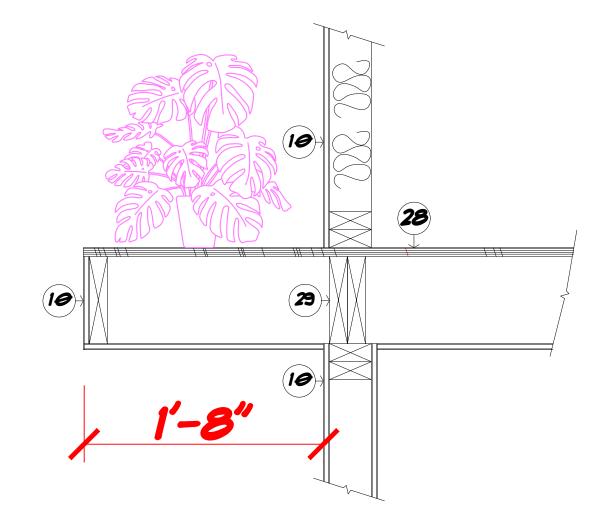
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-COVER SHEET

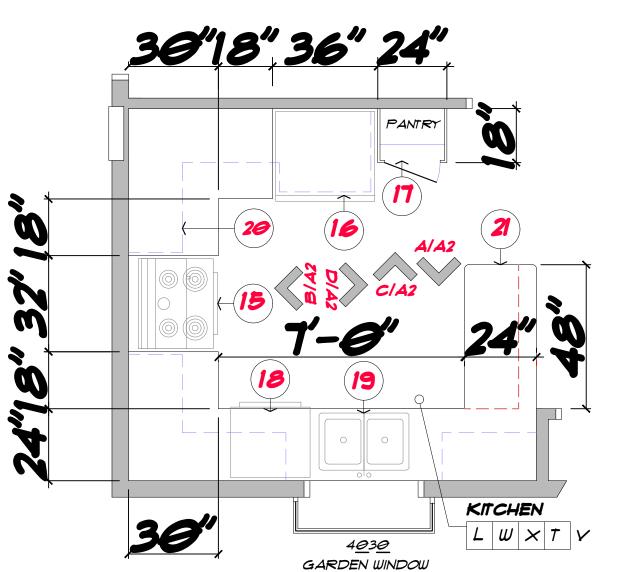




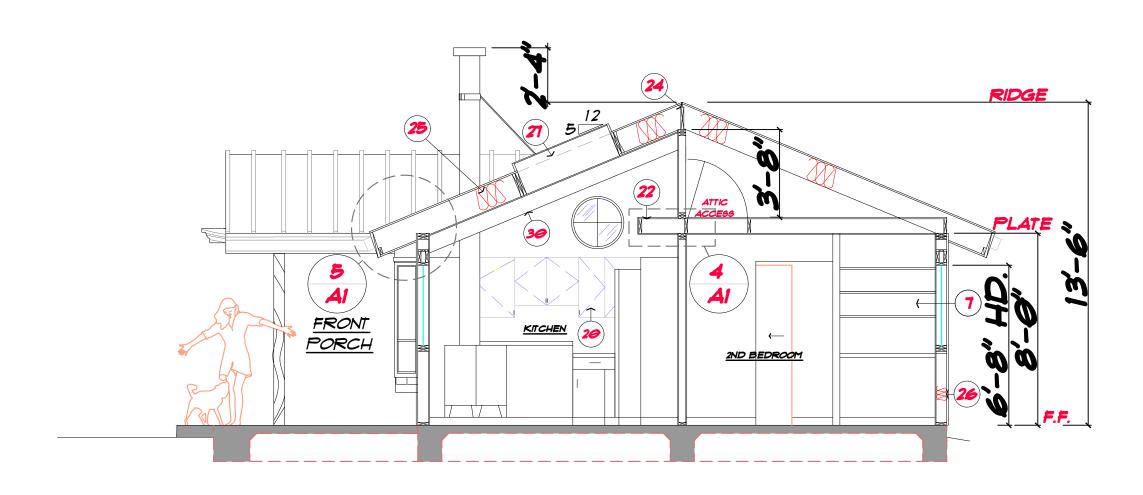
CLOSED EAVE DETAIL 5 1 1""=1'-0"





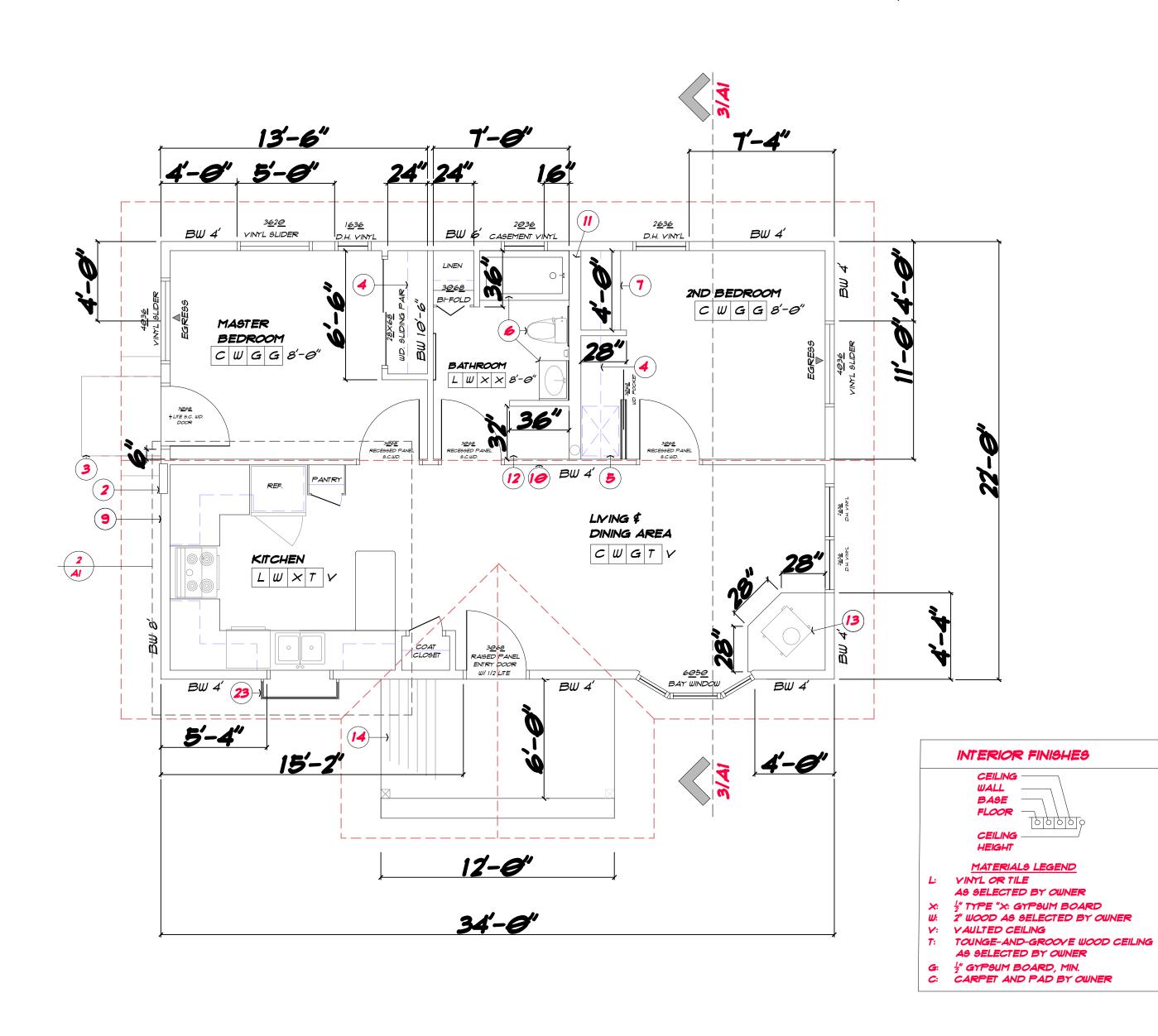


ENLARGED KITCHEN PLAN 3/8"=1'-0"



BUILDING SECTION

1"=1'-0"



FLOOR PLAN

148 S.F.GROSS DWELLING SPACE 117 S.F. COVERED PORCH

1"=1'-0"

KEYED NOTES SHEET AI-FLOOR PLANS & BUILDING SECTION

- ROOFLINE ABOVE
- 200A PANEL
- 3. CONCRETE OR WOOD STOOP. 30" A.F.G. MAX. DIMENSIONS MAYVARY
- 4. CLOSET W/ ROD(S) \$ SHELVES
- ATTIC ACCESS. 20"X30" MIN.
- FIXTURES \$ HARDWARE PER OWNER.
- BUILT-IN SHELYES & DESK PER OWNER
- NOT USED
- 9. EXTERIOR WALL. TYPICAL. 2X6, D.F.#2 @ 16" O.C. W/ T-III (OR EQ) @ EXTERIOR FACE \$ 1" GYP. BD. @ INT. FACE. R-19 BATT INSULATION, W/ "TYVEK" BUILDING WRAP
- 10. INTERIOR WALLS. TYPICAL. D.F.#2 @ 16" O.C. W/ $\frac{1}{2}$ GYP. BD. @ EA. FACE
- II. PLUMBING WALL. 2X8 D.F.#2 @ 24" O.C. W/ 1 TYPE "X" GREEN GYP. BD. @ BATHROOM FACE
- 12. ALCOYE FOR STACKED WASHER \$ DRYER
- 13. WOOD STOYE W/8" FLU ON 4" RAISED STONE OR BRICK HEARTH. MAINTAIN MIN. 8" CLEARANCE TO COMBUSTIBLE MATERIALS
- 14. WOOD ENTRY PORCH OR CONC. PORCH. NOT TO EXCEED 30"A.F.G.
- 15. ELECTRIC OVEN/COOKTOP/MICROWAYE
- REFRIGERATOR
- CASEWORK PANTRY
- DISHWASHER
- DROP-IN DOUBLE SINK W/ DISPOSAL
- 20. WALL-HUNG CABINETS PER OWNER
- COUNTERTOPS PER OWNER
- 22. PLANT \$ DISPLAY SHELF. SEE DETAIL
- 23. 40×30 GARDEN WINDOW W/ TEMPERED GLASS. AS SELECTED BY OWNER
- 24. 2XI2 BLOCKING ATOP TOP PLATE BETWEEN EACH PAIR OF ROOF JOISTS
- 25. R-33 BATT INSULATION @ ROOF. TYPICAL
- 26. R-20 BATT INSULATION @ ALL EXTERIOR WALLS. TYPICAL
- 21. OPERABLE SKYLIGHT. SEE KEYED NOTE NOTE 1. SHEET A4
- 28. 3" PLY
- 29. DOUBLE 2X BLOCKING EACH BAY
- 30. BUILT-UP DECORATIVE WOOD BEAM
- 31. 2X4 BLOCKING @ EA. RAFTER BAY
- 32. 2XI2 FASCIA
- 33. 15/32 "A.P.A RATED SHEATHING PERFORMANCE CATAGORY 32 EXPOSURE I, (OR EQUAL IN CDX OR
- 34. $\frac{1}{2}$ FIRE-RESISTANT CEMENT BACKER BOARD
- 35. CONTINUOUS 2 3"X96" CORROSION-RESISTANT SOFFIT VENT. SEE 1/A4

PROTOTYPE TITLE-25 RURAL DWELLING

PROJECT TITLE

4-6-25

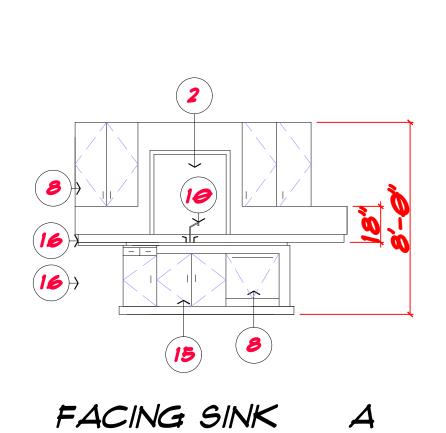
REVISIONS

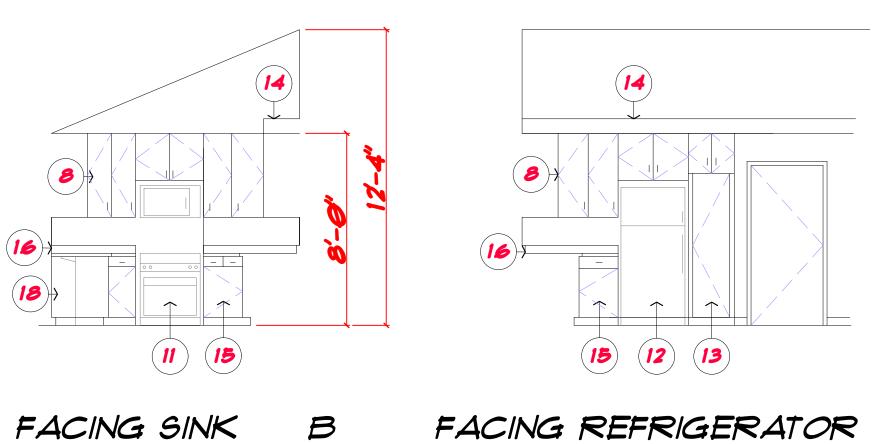
-FLOOR PLAN

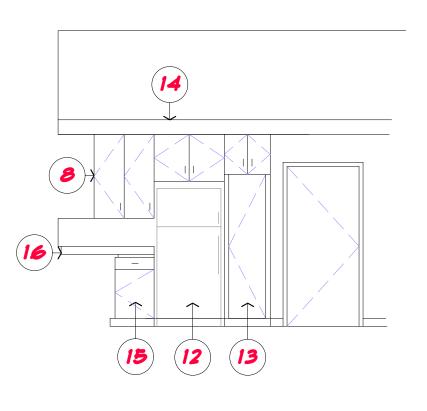
FLOOR PLAN

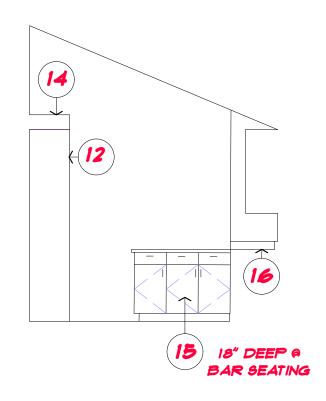
-KITCHEN ENLARGED

- -BUILDING SECTION
- -DETAILS

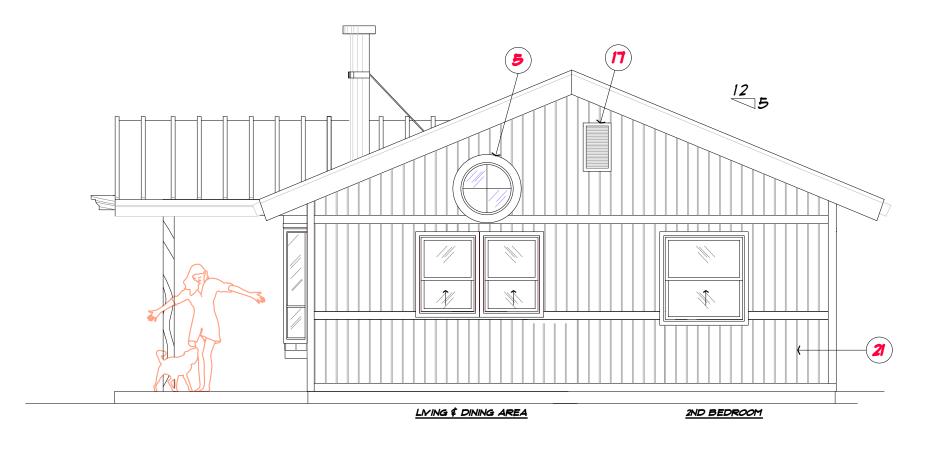


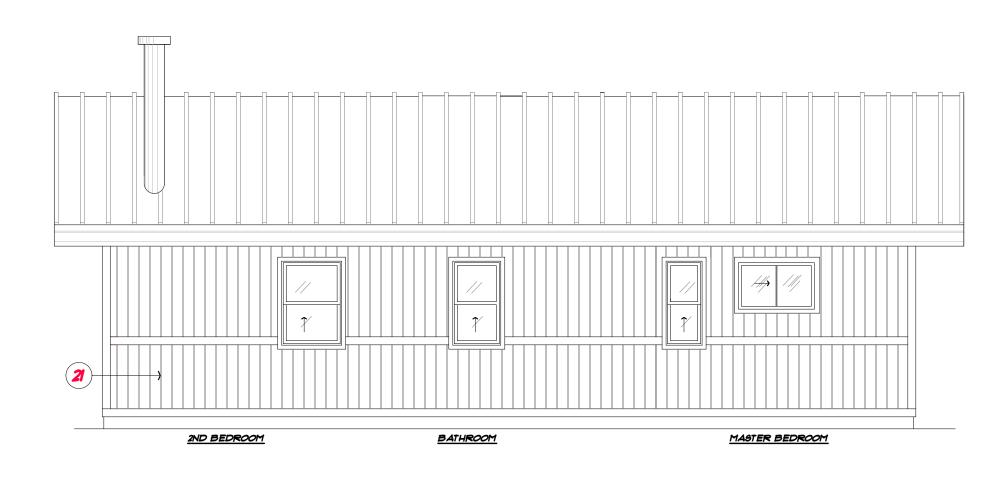






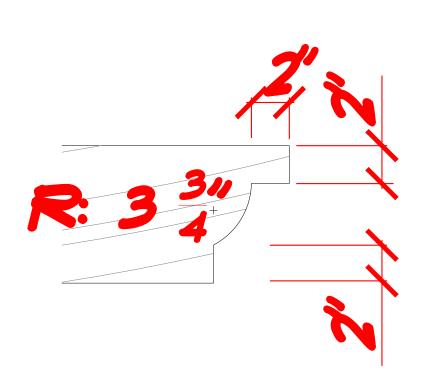
FACING BAR SEATING D





BUILDING END ELEVATION 1"=1'-0"

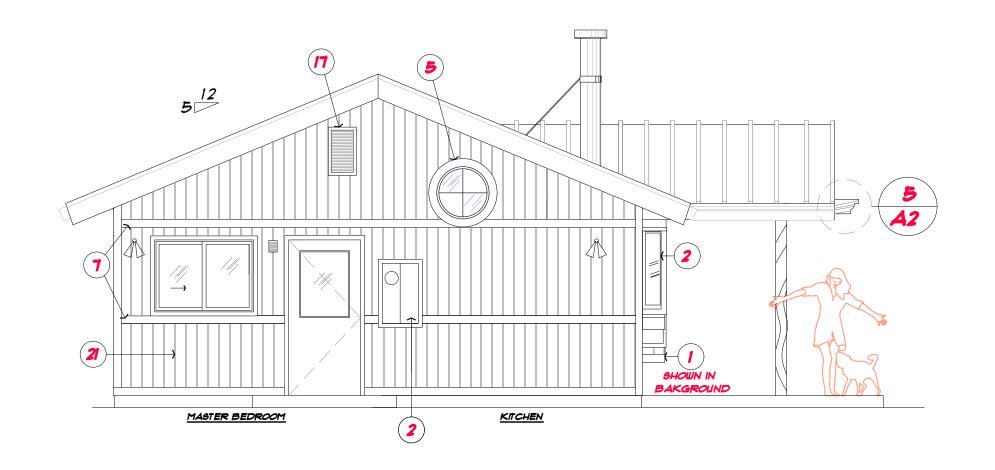


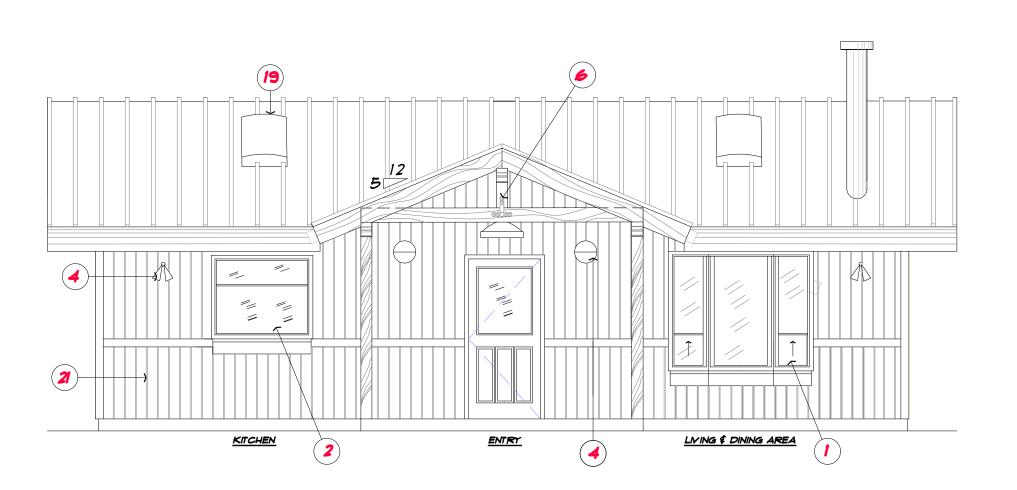


5

N.T.S.

ENTRY CORBEL





BUILDING END ELEVATION 1"=1'-0"

BUILDING FRONT ELEVATION

1"=1'-0"

KEYED NOTES SHEET A2 - BUILDING ELEVATIONS

- 1. VINYL PRE-MFG. 6050 BAY WINDOW W/ DH. AT EACH SIDE. DOUBLE-GLAZED, LOW E, TEMPERED GLASS. PROVIDE BLOCKING AND SIDING TO UNDERSIDE OF EAVE ABOVE
- 2. 40×30 GARDEN WINDOW AS SELECTED BY OWNER
- 200A COVERED PANEL
- 4. SURFACE MOUNTED LIGHT FIXTURE PER OWNER
- 5. 24" DIAMETER, DOUBLE-GLAZED, FIXED ROUND WINDOW. PROVIDE 4" CIRCULAR WOOD TRIM
- 6. DECORATIVE BEAM-TO-POST BRACKET BY "SIMPSON"
- 1. 1X4 BANDS @ 40" AND 1'-4" ABOVE FINISH FLOOR @ ALL EXTERIOR FACES
- 8. WALL-HUNG CABINETS \$ SHELVES PER OWNER
- 9. DISHWASHER
- COOKTOP W/ OVEN \$ MICROWAYE
- ABOVE

10. DOUBLE SINK W/ DISPOSAL UNIT

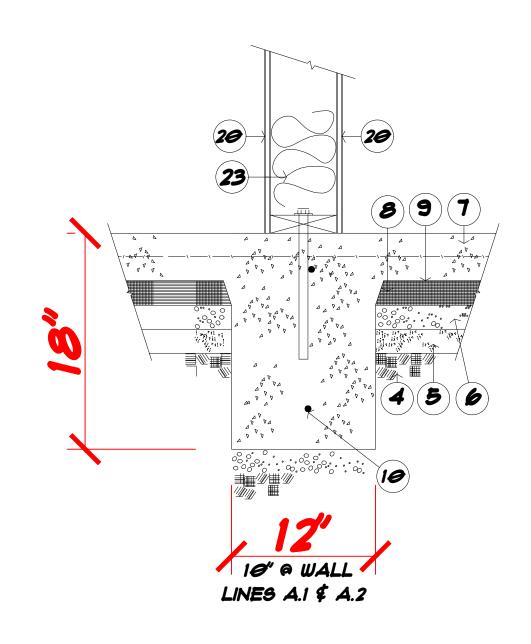
- 12. REFRIGERATOR
- 13. PANTRY CABINET W/ SHELVES
- 14. PLANT SHELF. SEE DETAIL 4/A4 15. BASE CABINETS W/ SHELVES PER
- 16. 4" BACKSPLASH. MATERIAL SIMILAR TO
- 17. 14"X24" SCREENED ATTIC VENT 18. BAR SEATING AREA W/12" OVERHANG
- OPERABLE SKYLIGHT. SEE KEYED NOTE
- NO. 1, SHEET A4 20. NOT USED
- 21. LP SMARTSIDE CEDAR TEXTURE 8" OC PANEL, ENGINEERED TREATED WOOS SIDING, 8" APPLICATION AS \(\frac{3}{8}" \times 4' \times 8' \),
 PAINT O STAIN PER OWNER OR PLYWOOD SIDING PANEL TI-II 8", 19 X48"X96". PAINT OR STAIN PER

PROTOTYPE TITLE-25 RURAL DWELLING

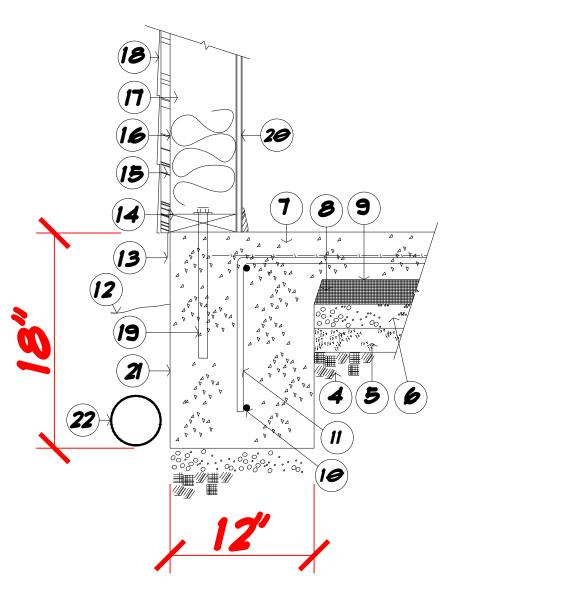
PROJECT TITLE

REVISIONS

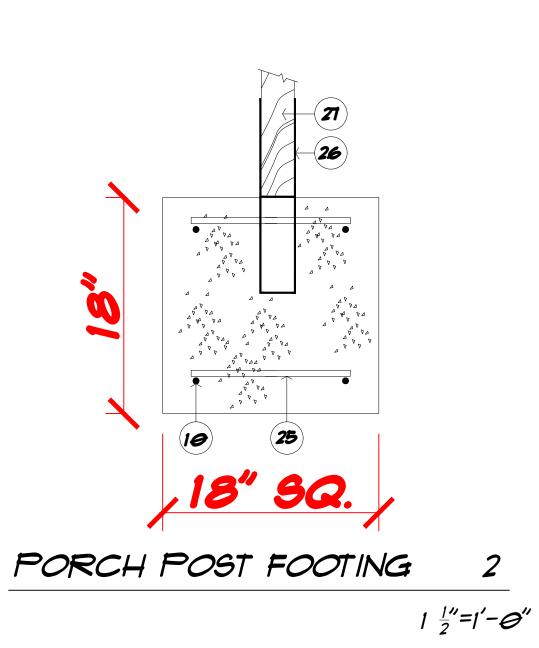
-BUILDING \$ INTERIOR **ELEVATIONS**

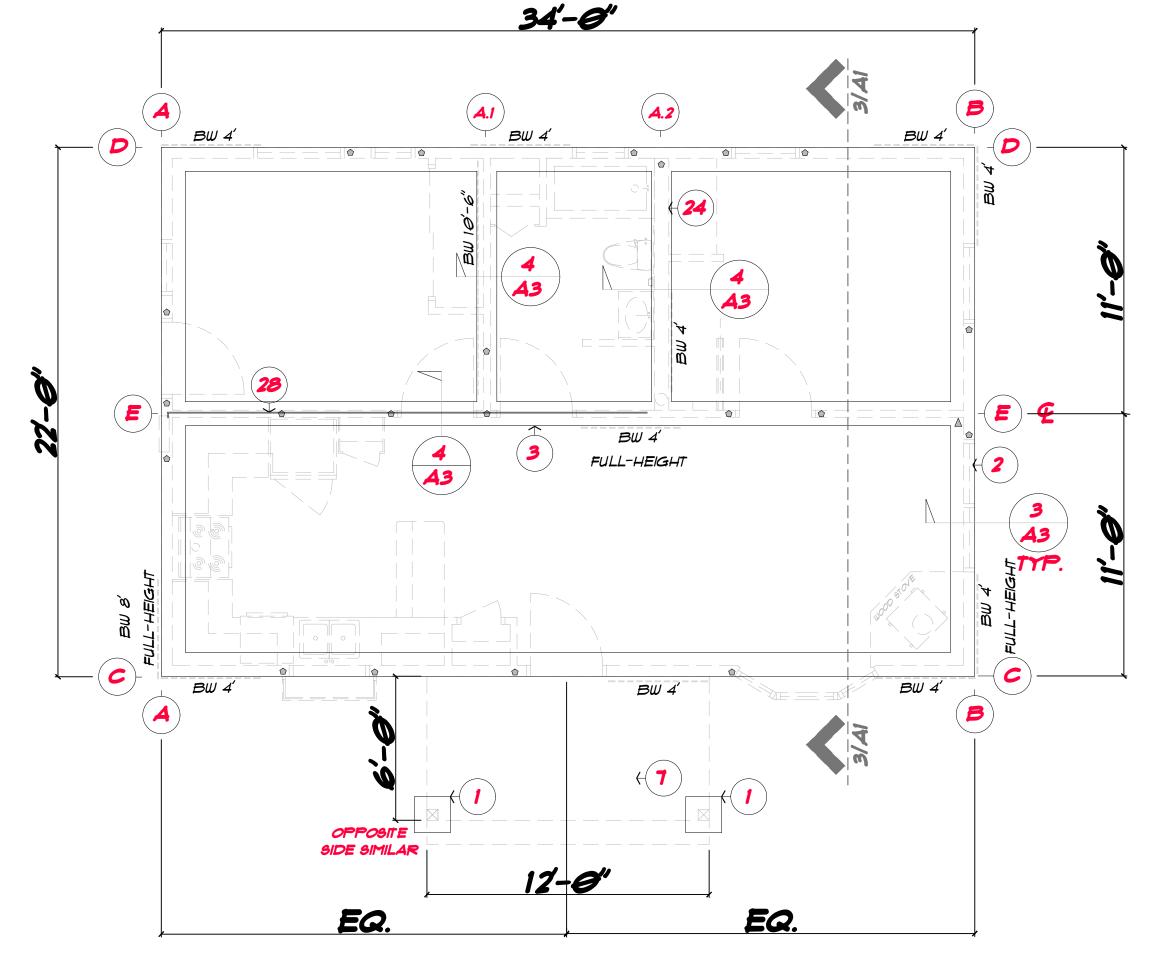


INTERIOR BEARING FTG. 4 1 1/2"=1'-0" WALL LINE E



TURNED-DOWN SLAB EDGE 1 1/2"=1'-0"





BRACED WALL NAILING 6D COMMON (2" × 0.113") NAILS

AT 6" SPACING (PANEL EDGES) AND AT 12" SPACING (INTERMEDIATE SUPPORTS) OR 16 GA. × 13/4 STAPLES AT 3" SPACING (PANEL EDGES) AND 6" SPACING (INTERMEDIATE SUPPORTS)

ANCHOR BOLT SCHEDULE $\frac{3}{4}$ "D, 12" ANCHOR BOLT. MIN. 6' O.C.

FOUNDATION PLAN

1"=1'-0"

FOUNDATION NOTES- SHEET A3

- 1. PORCH POST FOOTING. SEE DETAIL 2/A3 2. TURNED-DOWN SLAB EDGE. SEE DETAIL
- 3. INTERIOR BEARING WALL. SEE DETAIL
- 4. UNDISTURBED NATIVE SOIL
- 5. 2" SAND
- 6. 4" CLEAN COMPACTED GRAVEL 1. 4" CONCRETE SLAB W/6X6 E.W.W.M.
- -#10/#10 EA. WAY 8. 2" RIGID INSULATION BOARD. OPTIONAL
- 9. 4 MIL. CONTINUOUS VAPOR BARRIER 10. CONTINUOUS #4, TOP AND BOTTOM.
- PLACE BOTTOM BAR MIN. 3" FROM BOTTOM OF TURNED-DOWN SLAB EDGE
- II. #4 YERTICAL REBAR @48"0.C. BEND
- AND EXTEND 24" INTO SLAB 12. FINISH GRADE. MAINTAIN 6" BELOW
- BOTTOM OF BOTTOM SILL PLATE
- 13. ALUMINUM FLASHING AND COUNTER-FLASHING @ ALL EXT. WALLS
- 14. 2x6 PTDF BOTTOM PLATE. OR EQUAL.
- CAULK AND PROVIDE INSECT SEAL 15. 5" MIN. EXT. RATED OSB. OR EQUAL
- 16. R-20 BATT INSULATION. TYPICAL ALL
- EXT. WALLS
- 17. 2X6 PTDF STUDS @ HOUSE. 2X4 @ GARAGE (OR EQUAL) 9 16" O.C. UNO
- 18. HARDI-BOARD WOOD SIDING. OR
- 19. 1/2"DX12" ANCHOR BOLT $W/2X2, \frac{3}{16}"$ SQUARE PLATE WASHERS
- 20. THE TYPE "X" A
- LAUNDRY, KITCHEN, \$ BATH AREAS 21. ELASTOMERIC WATER-PROOFING
- 22. CONTINUOUS 4" PERFORATED DRAIN PIPE @ ALL EXT. WALLS, DRAIN TO
- 23. 3"X15 $\frac{1}{4}$ "X41" SOUND-PROOFING WOOL
- BATTS @ WALL LINE E AND WALL LINE A.I 24. 2X8 @ 16" O.C. PLUMBING WALL
- 25. 2-#4 EA. WAY @ TOP \$ BOTTOM
- 26. "SIMPSON" CB66 POST BASE
- 21. 6x6 WOOD POST, TYPICAL 28. USE BOTTOM BAR SHOWN IN DETAIL 4/A3 AS GROUNDING ROD (CONTINUOUS FOR
- 29. #4 EA. WAY

MIN. 20)

DAYLIGHT

30. 2 #4 @ BOTTTOM FOOTING

PROTOTYPE TITLE-25 RURAL DWELLING

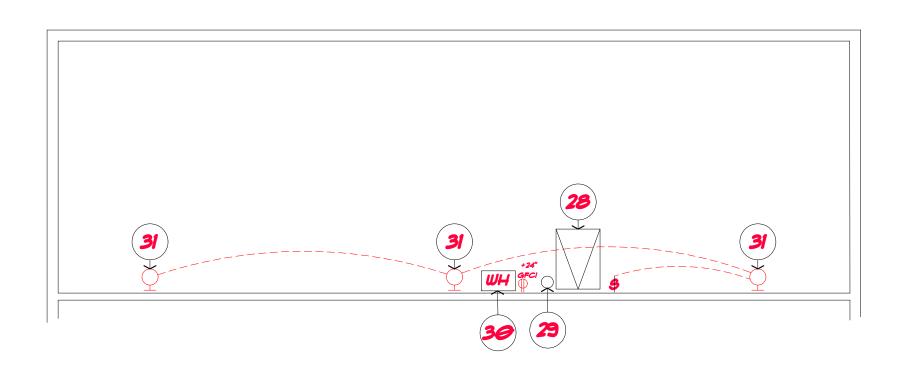
PROJECT TITLE

4-6-25

REVISIONS

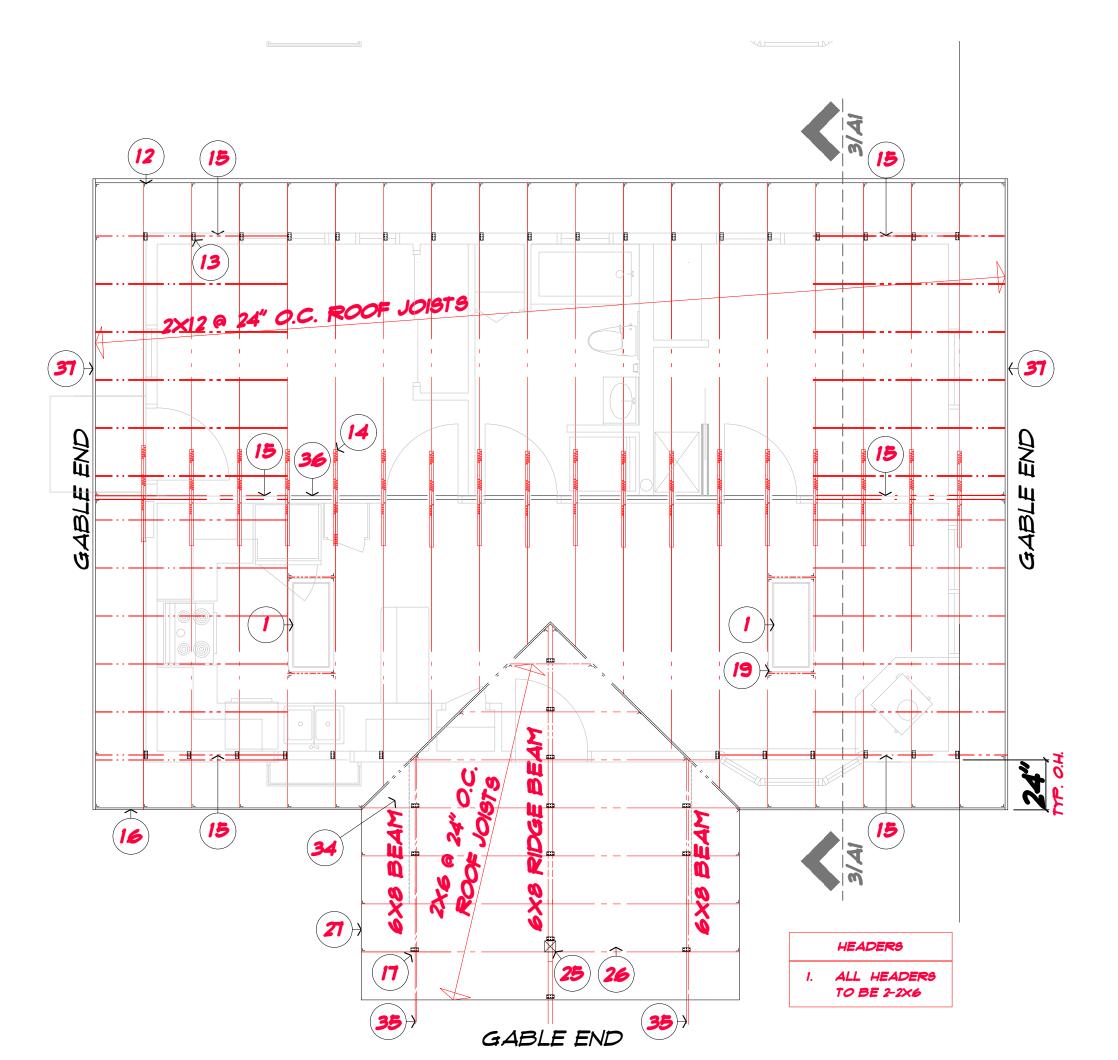
-FOUNDATION PLAN -DETAILS

43



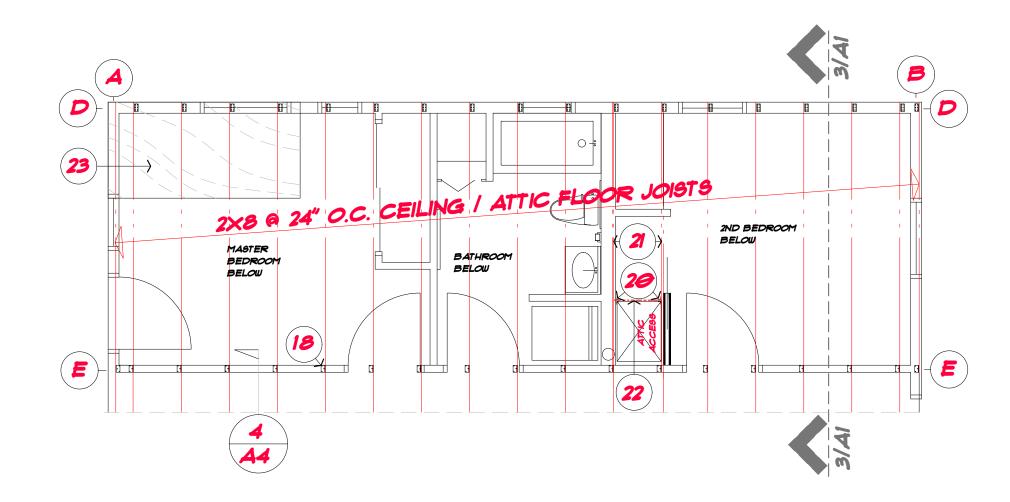






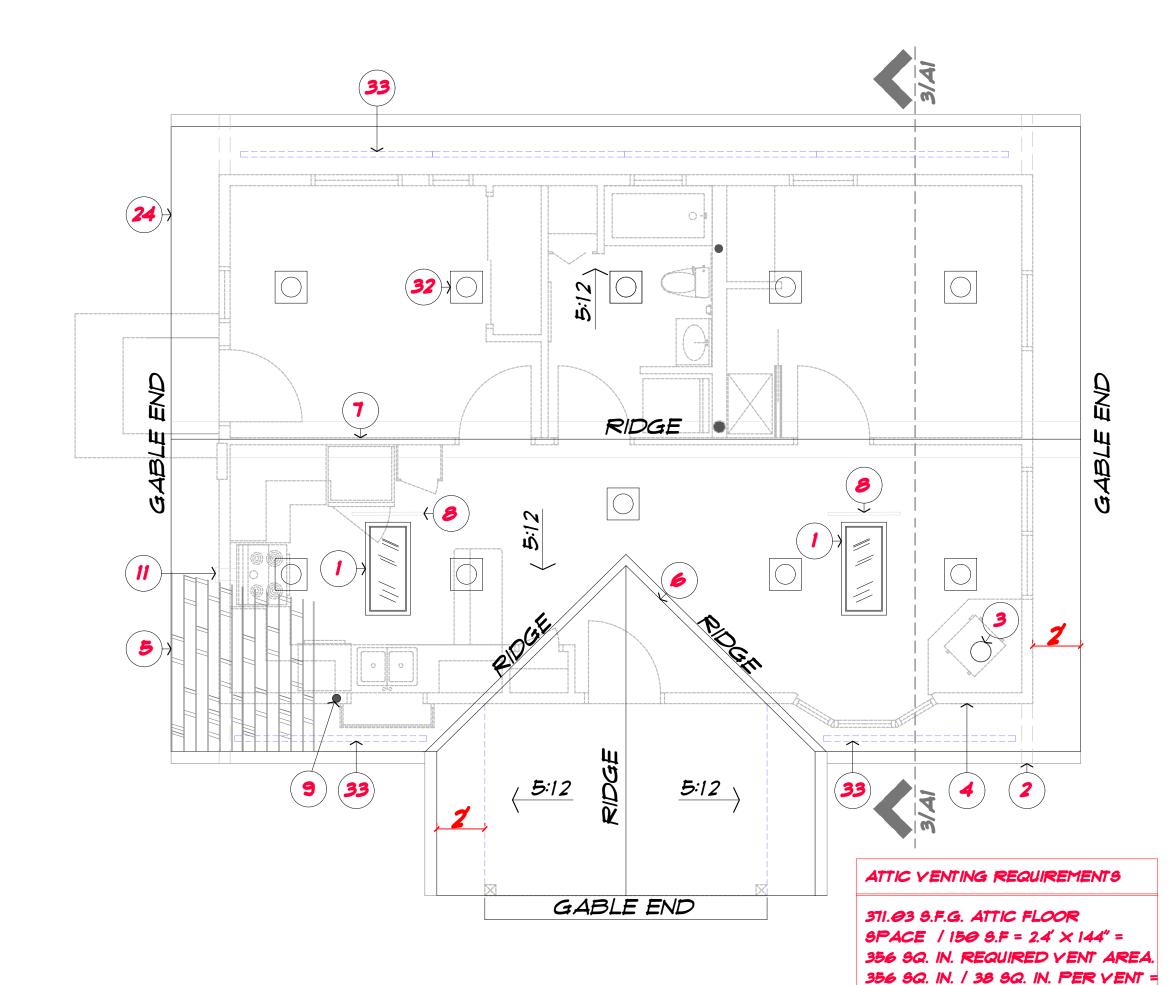
ROOF FRAMING PLAN

1"=1'-0"



CEILING FRAMING PLAN

1"=1'-0"



ROOF PLAN

1"=1'-0"

9.5 YENTS REQUIRED = 10 YENTS

PROVIDED

ROOFING NOTES- SHEET A4

- 1. 22 ½"X46 ½" FRESH-AIR OPERABLE VENTING CURB-MOUNTED SKYLIGHT W/ LOW E3 GLASS BY "HOME DEPOT." PROVIDE DOUBLE JOIST @ UPPER AND LOWER AREA BETWEEN JOIST BAYS
- 2. 6" ALUMINUM GUTTER AND DOWNSPOUT. TYPICAL. PROVIDE METAL DRIP-EDGE FLASHING
- 3. ALUMINUM CHIMNEY W/ SPARK ARRESTOR AS SELECTED BY OWNER
- WALL LINE BELOW
- 5. 12 SMALL RIB GALYALUME STEEL 29-GAUGE ROOFING PANEL (OR EQUAL). INSTALL PER MFG. REQUIREMENTS. INSTALL OVER 2 LAYERS 15# ROOFING PAPER AND 15/32 "A.P.A RATED SHEATHING PERFORMANCE CATAGORY 😤 , EXPOSURE I,(OR EQUAL IN CDX OR OSB), ATTACH SHEATHING W/ SD @ 6" O.C. @ EDGES AND 12" O.C. @ FIELD. COLOR PER OWNER. BY "HOME DEPOT". PROVIDE METAL VALLELY FLASHING. CLASS "A" ASSEMBLY REQUIRED. OPTIONAL ROOFING FINISH MATERIAL IS LIGHTWEIGHT COMPOSITE ROOFING ON 2 LAYERS 15# ROOFING FELT
- PROVIDE GALVANIZED METAL VALLEY FLASHING PER MFG. REQUIREMENTS FOR METAL ROOFING OR COMPOSITE ROOFING
- 1. METAL RIDGE YENT W/ METAL RIDGE CAP. BY "MENARD", OR EQUAL. COLOR PER OWNER
- 8. 36" METAL RAIN DIVERTER
- 9. NOT USED
- 10. 6" YERTICAL DRYER YENT W/ CAP
- 11. 6" HORIZONTAL STOVE/OVEN VENT W/ WALL CAP
- 12. "SIMPSON" A35 FRAMING ANCHOR, G90 GALYANIZED. TYPICAL @ EA. JOIST-TO-FASCIA
- 13. "SIMPSON" RCA335/97-R35 RIGID CONNECTOR ANGLE. TYPICAL @ EA. JOIST-TO-TOP-PLATE CONDITION
- 14. "SIMPSON" RIDGE STRAP MST148" 12 GAUGE STRAP TIE. TYPICAL @ EA. JOIST
- 15. 2X12 OUTLOOKER. 2 O.C. RECESS TOP-PLATE BELOW TO ACCOMMODATE DEPTH OF OUTLOOKER/BEAM. TYPICAL
- 16. 2X12 FASCIA. TYPICAL
- 6X6 POST. SEE DETAIL 2/A3
- 18. ML 2"X4" 12-GAUGE Z MAX GALYANIZED MEDIUM L BRACKET BY "SIMPSON." TYPICAL @ INTERIOR BEARING WALL, COLUMN LINE E
- 19. "SIMPSON" JB 2"X6" TOP-FLANGE
- HANGER, GALVANIZED. TYPICAL 20. "SIMPSON" JB28 2"X8" TOP-FLANGE JOIST HANGAR G90 GALYANIZED
- 21. DOUBLE-JOIST TO SUPPORT ATTIC ACCESS OPENING
- 22. PROVIDE 2-Z'X8" @ ATTIC ACCESS **OPENING**
- 23. APA RATED OSB, $4\times8\times\frac{5}{8}$, NAIL 6" O.C. 9 EDGES, 12" O.C. @ FIELD. USE #8 2" STAR-BIT SCREWS. CONTINUOUS
- 24. 4"X2" WP METAL FLASHING @ RAKE AND EAVE
- 25. 6×6 KINGPOST
- 26. 6X8 GABLE END BEAM
- 21. 2XIO FASCIA TYPICAL @ PORCH ROOF
- 28. 22"X30" ATTIC ACESS W/ HINGED DOOR 29. 6"D DRIER VENT TO ROOF. PROVIDE YENT SCREEN W/ WP CAP
- 30. 8.4GPM "RHEEM" ON-DEMAND, TANKLESS WATER HEATER. 120V
- 31. SURFACE-MOUNTED LIGHT FIXTURE PER
- 32. ROOF/ATTIC YENT W/ MIN. 38 SQ. IN. YENT AREA EA. YENT. 10 REQUIRED
- 33. CONTINUOUS 2 3"X96 CORROSION-RESISTANT SOFFIT YENT. "GIBRALTER" BY HOME DEPOT. W/ $\frac{1}{8}$ " \times 1" FIRE-SAFE LOUVRES. OR EQUAL
- 34. CAL-FILL FRAMING ATOP MAIN ROOF FOR ENTRY ROOF
- 35. DECORATIVE SAW-CUT CORBEL. SEE 5/A2
- 36. 2XI2 BLOCKING ATOP TOP PLATE BETWEEN EACH PAIR OF ROOF JOISTS

31. 2X12 FASCIA. TYPICAL

PROTOTYPE TITLE-25 RURAL DWELLING

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PROJECT TITLE

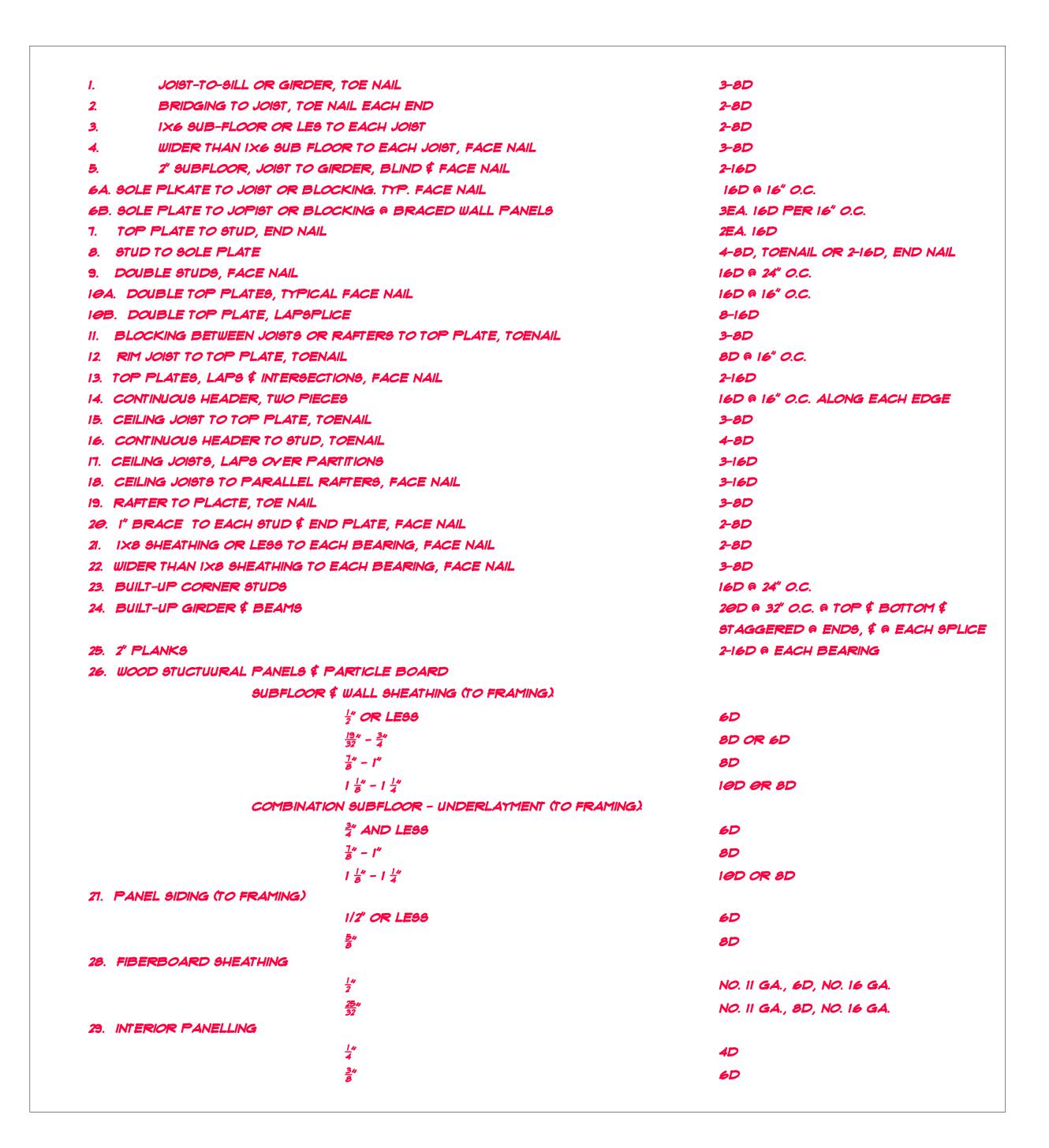
6-4-25

REVISIONS

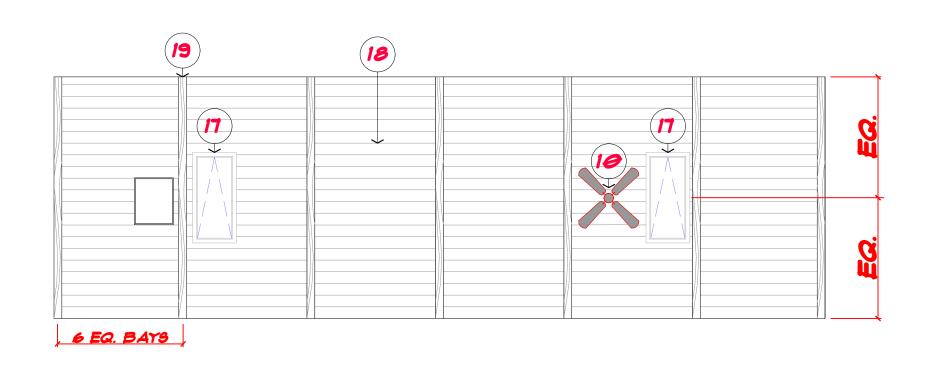
-ROOF PLAN -ROOF FRAMING

-ATTIC FRAMING

-ATTIC FLOOR PLAN



NAILING SCHEDULE



ELECTRICAL \$ MECHANICAL PLAN

1"=1'-0"

STOYE/COOKTOP

2,000 BTU MAX.

N.T.S.

ELECTRICAL \$ MECHANICAL NOTES -SHEET A5

- I. WASHER SUPPLY & DRAIN BOX
- 2. RECEPTACLE FOR HOLIDAY LIGHTS. GFCI W/ CAP
- 3. HOSE BIB
- 4. 6" DRIER YENT. 2" YENT STACK 5. COMBINATION VENT FAN/LIGHT
- 6. SUSPENDED CHANELIER FIXTURE PER OWNER
- 1. 200AMP PANEL W/ COVER
- 8. PROVIDE 4-PLEX OUTLET AND SURFACE-MOUNTED LIGHT FIXTURE IN ATTIC W/ SWITCH WITHIN 36" OF ATTIC ACCESS OPENING
- 9. CEILING-MOUNTED FAN/LIGHT
- COMBINATION FIXTURE PER OWNER 10. SURFACE MOUNTED LIGHT FIXTURE PER
- EXTERIOR FLOODLIGHT PER OWNER
- 12. CEILING-MOUNTED SMOKE DETECTOR HARD-WIRED W/ BATTERY BACKUP. DETECTOR ALARMS TO BE AUDIBLE IN ALL
- 13. "GENTEX" HARD-WIRED CO2 ALARM W/ BATTERY BACK-UP, OR EQUAL.. INSTALL @ 5' A.F.F.
- 14. CEILING-MOUNTED FIXTURE PER OWNER 15. 1200 BTU MINI-SPLIT AC/HEATPUMP. SNL
- 12CD, 11@V. WALL-MOUNT HEATPUMP @ EXTERIOR. INSTALL PER MFG.
- RECOMMENDATIONS 16. SURFACE-MOUNTED SPLIT-SYSTEM HEATING/COOLING UNIT PER OWNER
- 17. 22 $\frac{1}{2}$ X46 $\frac{1}{2}$ FRESH-AIR OPERABLE VENTING CURB-MOUNTED SKYLIGHT W/ LOW E3
- 18. I"X6" DECORATIVE PINE CEILING.STAIN AND FINISH PER OWNER

GLASS BY "HOME DEPOT."

- 19. 4"XIO" FAUX BEAMS. STAIN AND FINISH
- PER OWNER
- 20. OUTDOOR SPLI-SYSTEM CONDENSOR \$
- 21. ROUTE OF SPLIT-SYSTEM LIQUID \$ SUCTION LINES IN CENTER LINE WALL

PROTOTYPE TITLE-25 RURAL DWELLING

45

PROJECT TITLE

6-4-25

REVISIONS

-ELECTRICAL \$ MECHANICAL PLAN -REFLECTED CEILING

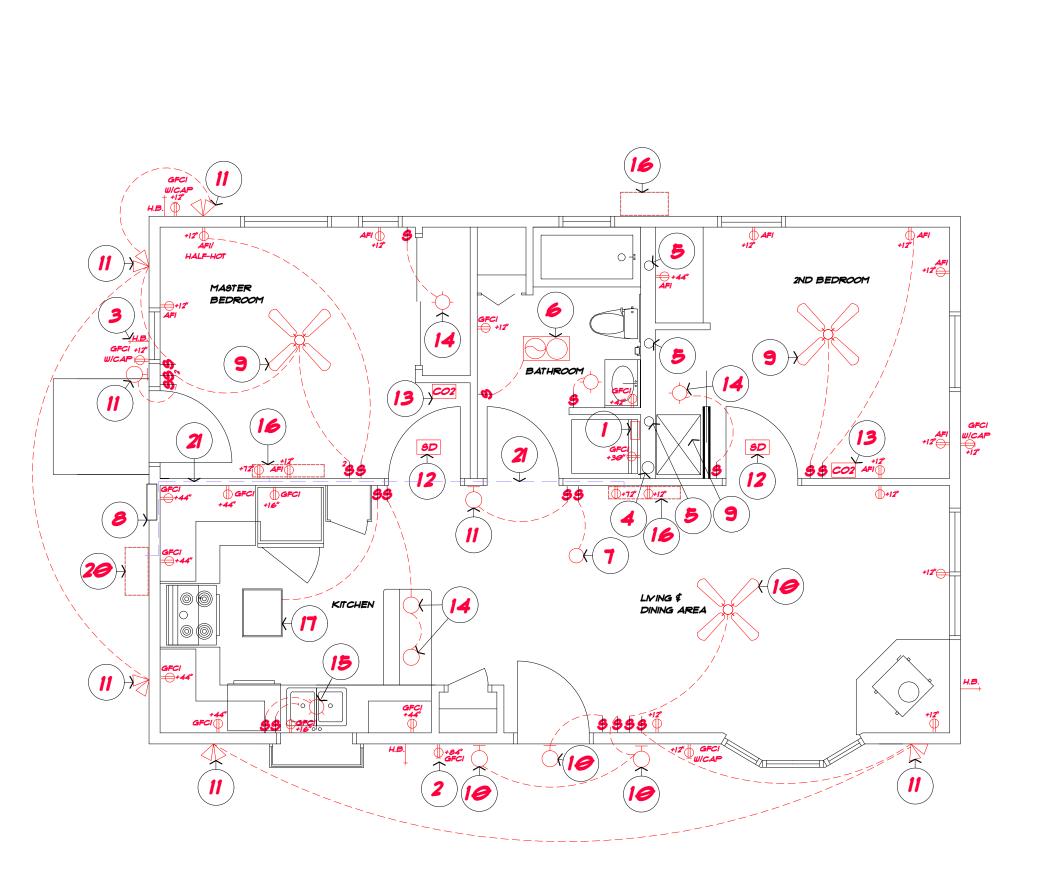
PLAN -GAS PIPING PLAN

SHEET CONTENTS/TITLE



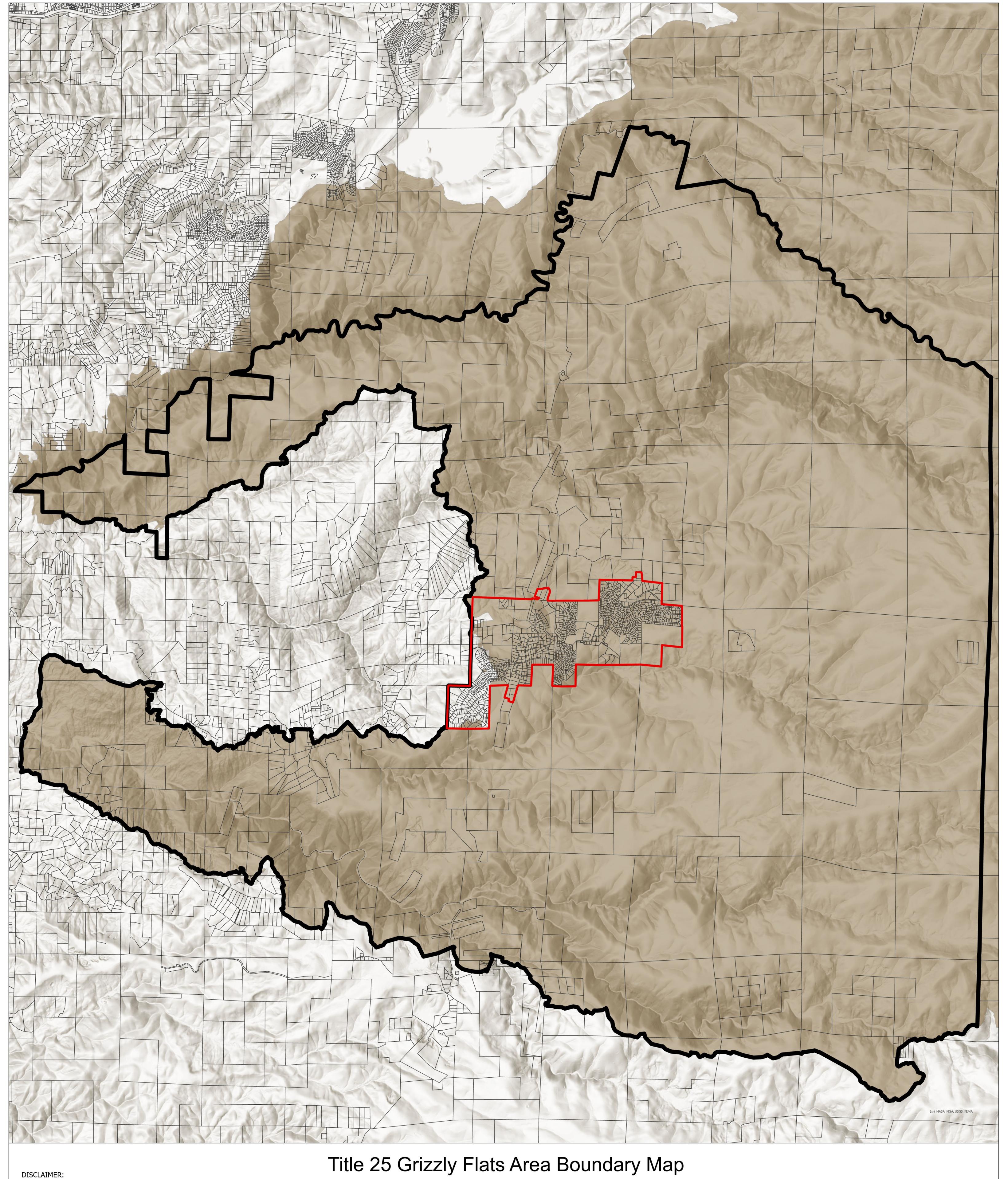
150 GAL.

TANK



GAS PIPING PLAN

1"=1'-0"



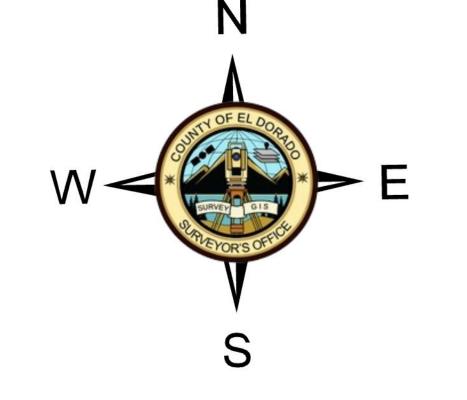
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PRIVATE SOURCES AND IS ILLUSTRATIVE ONLY. NO REPRESENTATION IS MADE AS TO THE ACCURACY OF THIS INFORMATION. PARCEL BOUNDARIES ARE PARTICULARLY UNRELIABLE. USERS MAKE USE OF THIS DEPICTION AT THEIR OWN RISK.

NOTES:

LAYER INFORMATION MAY COVER ADDITIONAL AREAS OUTSIDE OF THE DISPLAYED AREA.

PREPARED AT THE REQUEST OF: Karen Garner DATE: 4/15/2024 MAP PREPARED BY: EDC GIS DATE: 4/29/2024 G.I.S. PROJECT ID: see0074774, RELATED REPORT: None EL DORADO COUNTY SURVEYOR/G.I.S. DIVISION GIS EMAIL: gis@edcgov.us - PHONE: (530) 621-5440 MAP DISPLAYED IN STATE PLANE COORDINATE SYSTEM (NAD 1983 CALIFORNIA ZONE 2, FEET)



County of El Dorado

State of California

Legend

- Parcels
- ☐ Title 25 Grizzly Flats Boundary
- ☐Grizzly Flats Rural Center
- Caldor Fire Boundary

² Miles

El Dorado County Milled Lumber

The El Dorado County Board of Supervisors adopted Ordinance 24-0194 to assist property owners within the designated Caldor Fire area in rebuilding their homes using Title 25 Limited-Density Owner-Built Rural Dwelling standards. Under these standards, onsite milled lumber may be utilized. Below, please find the span tables to be used unless the onsite milled lumber has a Certificate of Inspection issued by a lumber grading or inspection agency.

PLEASE NOTE

All onsite milled lumber shall be fully dimensional in size and limited to one story buildings. Wall studs shall be placed at a maximum 16" OC and the ceiling height shall not exceed 10 feet.

		Control of the Contro
FLOOR	TOICT	CIDANIC
HI CHEEK	11 11 5 1	SPANS

JOIST	2 x 6	2 x 8	2 x 10	2 x 12	
SPACING (inches)		Maximum floor joist spans			
	(ft-in)	(ft-in)	(ft-in)	(ft-in)	
12	7-5	9-5	11-5	13-6	
16	6-5	8-2	9-10	11-8	
19.2	5-11	7-5	9-0	10-8	
24	5-3	6-8	8-1	9-6	

GIRDER SPANS AND HEADER SPANS FOR BEARING WALLS

THE DE	4.5	D ZIII	LILLIE	TIL OI					-
from of	the	header or	girder is le	terally brac	ed by	nernen	dicular	framing)	Ł

HEADERS AND Building Width (Feet)							
GIRDERS	Interior 24				Exterior 24		
SUPPORTING	Size	Span	# of Trimmers	Size	Span	# of Trimmers	
	2-2 x 4	2-10	1 1	1-2 x 8	2-4	2	
1	2-2 x 6	4-4	1 1	1-2 x 10	3-0	2	
-7	2-2 x 8	5-5	1 1	1-2 x12	3-6	3	
	2-2 x 10	6-6	2	2-2 x 4	4-2	3	
	2-2 x 12	7-7	2	2-2 x 6	2-4	1	
Roof and Ceiling	3-2 x 8	6-10	(10%) 1 / V	2-2 x 8	3-6	2	
	3-2 x 10	8-1	1	2-2 x 10	4-5	_ 2	
Ĺ	3-2 x 12	9-6	2	2-2 x 12	5-3	2	
1	4-2 x 8	7-11	1	3-2 x 8	6-2	2	
	4-2 x 10	9-4	1	3-2 x 10	5-6	- 2	
	4-2 x 12	11-0	1	3-2 x 12	6-7	2	
	L DONGS	- VI LIV	V. Calaberra	4-2 x 8	7-9	2	
	5	- CALLA	A PROPERTY.	4-2 x 10	6-4	1	
	1		The state of the s	4-2 x 12	7-7	2	

CEILING JOIST SPANS (located at the bottom of the attic space)

CEILING JOIST SPACING (Inches)	2×4	2 x 6	2 x 8	2 x 10			
	Maximum ceiling joist spans						
	(feet-inches)	(feet-inches)	(feet-inches)	(feet-inches)			
12	7-2	10-6	13-3	16-1			
16	6-2	9-2	11-6	14-0			
19.2	5-8	8-4	10-6	12-9			
24	5-1	7-5	9-5	11-5			

RAFTER SPANS

		KATIEN	SI AIIS				
RAFTER SPACING (Inches)	2 x 4	2 x 6	2 x 8	2 x 10	2 x 12		
	Maximum Rafter Spans						
	(feet-inches)	(feet-inches)	(feet-inches)	(feet-inches)	(feet-inches)		
12	4-5	6-6	8-3	10-0	11-10		
16	3-10	5-8	7-1	8-8	10-3		
19.2	3-6	5-2	6-6	7-11	9-4		
24	3-1	4-7	5-10	7-1	8-4		