

REVISIONS	BY

CASCADE DESIGN STUDIO
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 815-B ALDER CREEK DRIVE
 MEDFORD, OREGON 97504
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PROJECT FOR:
PROPOSED RESIDENCE FOR: GARY RAY HOMES

PROJECT ADDRESS:
 3756 FOLIUM STREET
 MEDFORD, OREGON

SHEET TITLE
FLOOR PLAN

1536AR

DRAWN: JM	SHEET NO. A-1
JOB NUMBER: CDS-2328	DATE: 04/26/23
OF 6 SHEETS	

BUILDING SQ. FT.	
RESIDENCE :	1536 SF.
GARAGE :	450 SF.
COVERED AREAS :	117 SF.
TOTAL BUILDING AREA :	2103 SF.

PRESCRIPTIVE ENVELOPE REQUIREMENTS

INSULATION:	WALLS-ABOVE GRADE = 6" HD. BATTS R-23	U-0.059
	WALLS-BELOW GRADE = 6" HD. BATTS R-21	C-0.063
	CEILING FLAT = BLOW-IN R-49	U-0.021
	CEILING VAULTED = 10" BATT R-38	U-0.033
	UNDER FLOORS = 10" BATT R-38	F-0.520
	SLAB EDGE/PERIMETER = 3" RIGID R-15	N/A
	HEATED SLAB/INTERIOR = 2" RIGID R-10	U-0.27
WINDOWS:	VINYL - CLEAR / LOW 'E' / ARGON	U-0.50
SKYLIGHTS:	METAL - CLEAR / LOW 'E' / ARGON	U-0.54
DOORS:	MAIN ENTRY = WOOD / GLASS (20 s.f. MAX)	U-0.20
	OTHER DRs = METAL / INSUL.	U-0.40
HVAC:	DUCT INSULATION R-8	N/A

ADDITIONAL ENERGY MEASURES PER TABLE N101(K2) ENVELOPE ENHANCEMENT MEASURE:

1. HIGH EFFICIENCY HVAC SYSTEM + GAS-FIRED FURNACE WITH MINIMUM AFUE OF 94%.

SEALING OF THE ENTIRE BUILDING ENVELOPE SHALL INCLUDE ALL METHODS FOR ALL COMPONENTS LISTED ON TABLE N104(B) OF THE O.R.S.C. OR THE DUELLING SHALL BE TESTED TO DEMONSTRATE A BLOWER DOOR RESULT NOT GREATER THAN 4.0 ACH50.

ALL NEW DUCT SYSTEMS AND AIR HANDLING EQUIPMENT AND APPLIANCES SHALL BE LOCATED FULLY WITHIN THE BUILDING THERMAL ENVELOPE. (O.R.S.C. N109.3)

EXCEPTIONS:

1. VENTILATION INTAKE & EXHAUST DUCTWORK.
2. UP TO 5% OF THE LENGTH OF AN HVAC SYSTEM DUCTWORK CAN BE LOCATED OUTSIDE OF THE THERMAL ENVELOPE.
3. DUCTS DEEPLY BURIED IN INSULATION IN ACCORDANCE WITH THE FOLLOWING:
 - a. INSULATION SHALL BE INSTALLED TO FILL THE GAPS AND VOIDS BETWEEN THE DUCT AND CEILING AND A MINIMUM OF R-19 INSULATION SHALL BE INSTALLED ABOVE THE DUCT BETWEEN THE DUCT AND THE UNCONDITIONED ATTIC.
 - b. INSTALLATION DEPTH MARKER FLAGS SHALL BE INSTALLED ON THE DUCTS EVERY 10 FEET.

GENERAL NOTES

1. DOORS BETWEEN GARAGE AND RESIDENCE SHALL BE 20 MIN. RATED (R309.1) FIRE SEPARATION BETWEEN GARAGE AND RESIDENCE SHALL BE 5/8" TYPE 'X' 1 HR. RATED GYPSUM BD. AT GARAGE AND MIN. 1/2" GYPSUM BOARD AT RESIDENCE.
2. EMERGENCY EGRESS WINDOWS: (1) WINDOW IN EACH BEDROOM SHALL HAVE A FINISHED SILL HEIGHT NOT MORE THAN 44" ABOVE THE FLOOR WITH 20" (MIN) NET CLEARANCE OPENING IN WIDTH OR 24" IN HEIGHT W/ THE OPENABLE SECTION NOT LESS THAN 5.7 SQ. FT. SILL HGT. MUST BE 24" OR MORE AFF. TO COMPLY WITH FALL PROTECTION. (2021 R.S.C. R312.1)
3. WATER HEATERS SHALL BE STRAPPED TO WALL. ELEVATE GAS APPLIANCES MIN. 18" ABOVE SLAB.
4. PROVIDE AN ATTIC ACCESS SCUTTLE TO ALL ATTIC AREAS WITH A HEIGHT GREATER THAN 30". THE MINIMUM OPENING SHALL BE 22" x 30". IF ATTIC MOUNTED APPLIANCES ARE UTILIZED, THE SIZE OF THE OPENING MUST BE SUFFICIENT FOR REMOVAL OF THE EQUIPMENT.
5. GLAZING IN LOCATIONS SUBJECT TO HUMAN IMPACT WHERE BOTTOM EDGE IS LESS THAN 18" ABOVE FLOOR OR VERTICAL EDGE IS WITHIN 24" ARC OF ANY DOOR IN A CLOSED POSITION, SHALL BE TEMPERED GLASS.
6. PROVIDE 3-FT. X 3-FT. LANDING ON EACH SIDE OF AN EGRESS DOOR, NOT MORE THAN 1-1/2" LOWER THAN THE TOP OF THE THRESHOLD. EXCEPTION: LANDING AT THE EXTERIOR OF AN EXTERIOR DOOR SHALL BE NO MORE THAN 8" BELOW THE TOP OF THE THRESHOLD.
7. RAILINGS: 36" MINIMUM HEIGHT W/ A MAXIMUM OF 4" AT NEAREST POINT BETWEEN BALLUSTERS.
8. NO WOOD SIDING, SHEATHING, OR WALL FRAMING WITHIN 6" OF FINISHED GRADE.
9. ALL MOISTURE SENSITIVE WOOD FRAMING MEMBERS USED SHALL HAVE A MAXIMUM 18% MOISTURE CONTENT PER THE 2021 RESIDENTIAL SPECIALTY CODE

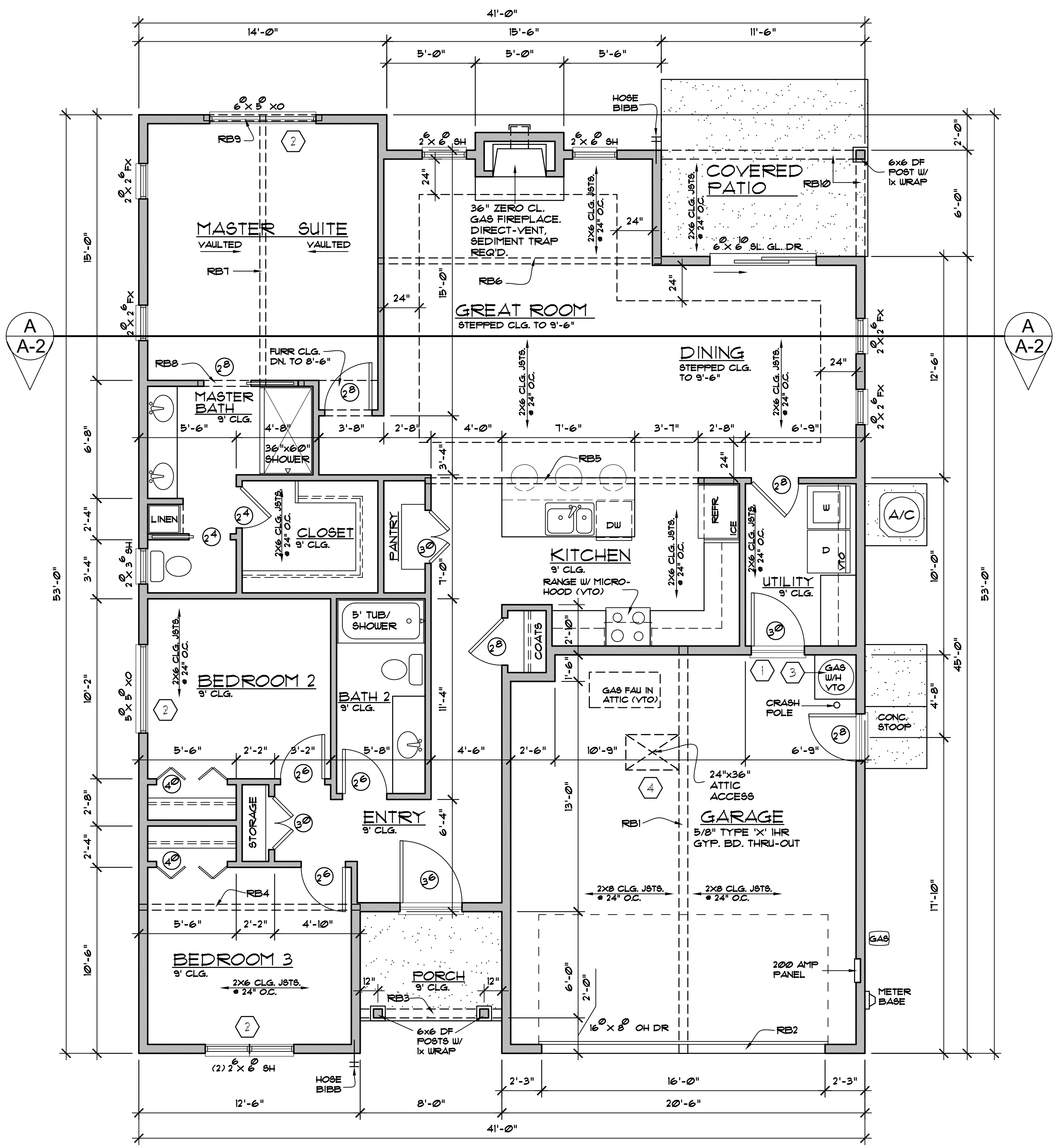
ROOF BEAM TABLE

MARK	SIZE	REMARKS
RB1	5-1/4" x 16" V.L.	BOTTOM @ 9'-1" FL. GARAGE DOOR HDR
RB2	5-1/4" x 14" V.L.	TOP @ 9'-1" FL.
RB3	5-1/4" x 14" V.L.	BOTTOM @ 9'-1" FL.
RB4	5-1/4" x 9-1/2" V.L.	BOTTOM @ 9'-1" FL.
RB5	3-1/2" x 14" V.L.	BOTTOM @ 9'-1" FL.
RB6	3-1/2" x 11-7/8" V.L.	RIDGE BEAM
RB7	3-1/2" x 11-7/8" V.L.	POCKET DR. HDR.
RB8	3-1/2" x 1-1/4" V.L.	WINDOW HDR.
RB9	3-1/2" x 1-1/4" V.L.	TOP @ 9'-1" FL.
RB10	5-1/4" x 7-1/4" V.L.	

MECHANICAL VENTILATION

THE WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM SHALL PROVIDE BALANCED VENTILATION. LOCAL EXHAUST OR SUPPLY FANS ARE PERMITTED TO SERVE AS PART OF SUCH A SYSTEM. OUTDOOR AIR VENTILATION PROVIDED BY A SUPPLY FAN DUCTED TO THE RETURN SIDE OF AN AIR HANDLER SHALL BE CONSIDERED AS PROVIDING SUPPLY VENTILATION FOR THE BALANCED SYSTEM.

THE MINIMUM VENTILATION IN CUBIC FEET PER MINUTE =
 $0.01 \times 1536 \text{ s.f.} \times 1.5 \times 4 = 38 \text{ cfm}$



FLOOR PLAN

1/4" = 1'-0"

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