Combustion Air Calculations

90% Efficient Furnace so Combustion Air Calculations are not applicable.

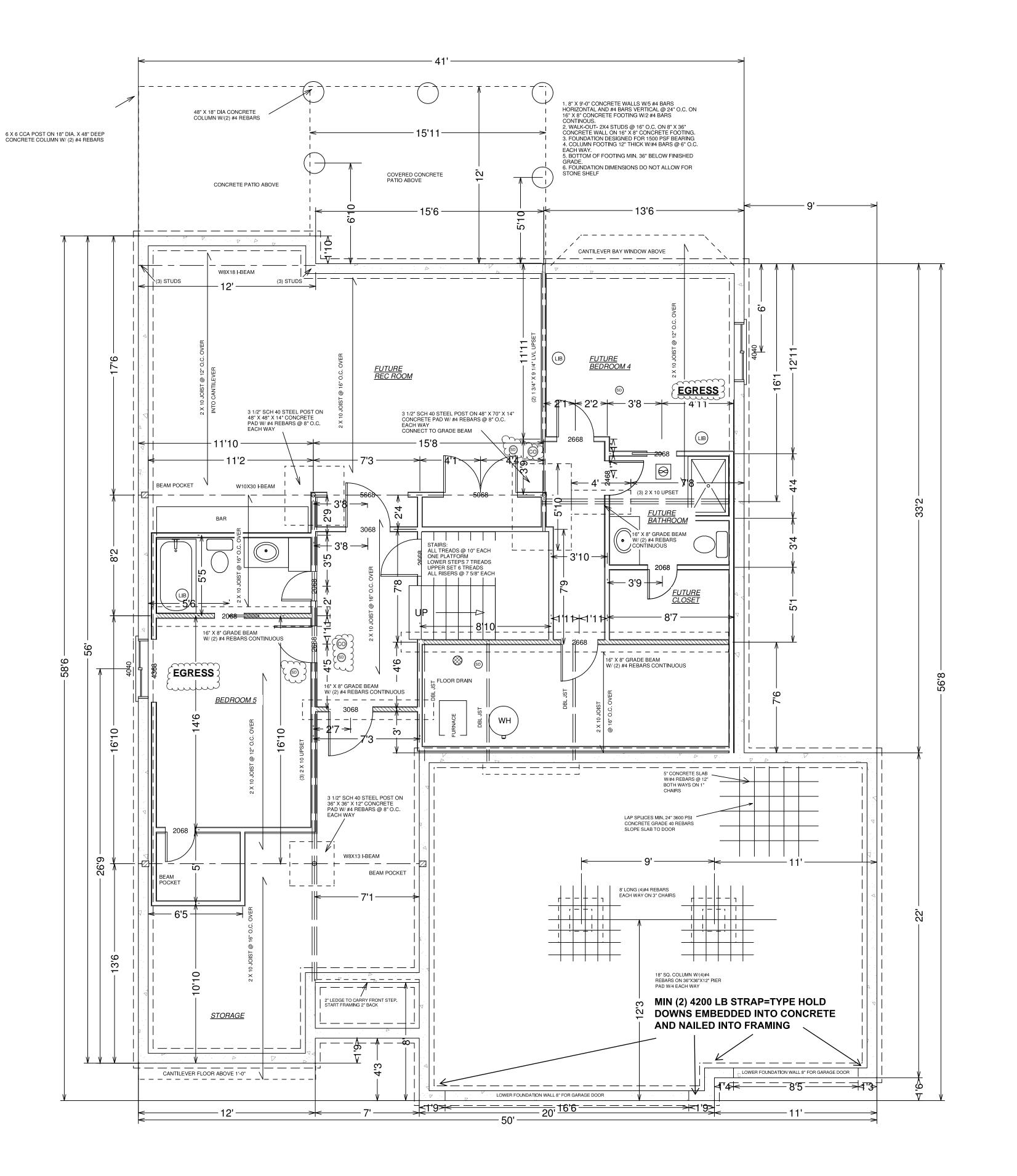
CONCRETE

Concrete strength shall comply with the following minimum strength requirements at 28 days

- 2,500 psi for basements floor slabs on undisturbed grade.
- 3,000 psi for footings, foundation walls, and other vertical concrete.
- 3,500 psi for carport and garage floor slabs on undisturbed grade.
 3,500 psi for structural floor slabs.

Concrete shall be 6% (+/- 1%) air-entrained for garage slabs and for all locations footings, walls or flatwork where exposed to weather. Rebar shall be minimum 40 ksi unless noted otherwise.

- 1. DWELLING / GARAGE OPENINGS BETWEEN GARAGE AND SLEEPING PURPOSES SHALL NOT BE PERMITTED. OTHER OPENINGS SHALL BE EQUIPPED WITH SOLID WOOD OR STELL DOORS NOT LESS THAN 1-3/8" THICK OR 20 MINUTE RATED DOORS, WITH SELF CLOSING DEVICES REQUIRED FOR GARAGE / DWELLING SEPERATION DOORS R302.5.1
- 2. WHOLE HOUSE MECHANICAL VENTILATION SYSTEM IS REQUIRED FOR ANY DWELLING WITH AIR INFILTRATION AT A RATE OF LESS THAN 3 AIR CHANGES PER HOUR (AT ACH50 STANDARD 0 R303.4
- 3. CARBON MONOXIDE DETECTORS REQUIRED 9 R3150
- 4. STEEL COLUMNS SHALL BE MINIMUM SCHEDULE 40 R407.3
- 5. DECK LEDGER ATTACHMENT TO HOUSE SHALL BE PER TABLES 507.2 AND 507.2.1
- 6. STUDS SHALL BE CONTINUOUS BETWEEN FLOOR, CEILING AND OR ROOF DIAPHRAGMS R602.3
- 7. ADDED REQUIREMENTS FOR WINDOW FALL PROTECTION R312.2
- 8. NEW PROVISIONS FOR ATTACHMENT OF RAFTERS, TRUSSES AND ROOF BEAMS R802.3.1. R802.11
- INSULATION REQUIRED FOR ALL BASEMENT WALLS (INCLUDING UNFINISHED BASEMENTS) N1102.1
- 10. EXTERIOR WINDOWS/DOORS SHALL HAVE U-FACTOR 0.35 AND GLAZING SHALL HAVE SOLAR HEIGHT GAIN FACTOR OF 0.40 N1102.1
- 11. HOUSE LEAKAGE AND DUCT LEAKAGE PERFORMANCE STANDARDS EFFECTIVE JANUARY 1, 2014. A SAMPLE TESTING PROGRAM WILL BE IMPLEMENTED OCTOBER 1, 2012. KCBRC N1102,4,1,2. N1103,2,2
- 12. LIGHTING FIXTURES PENETRATING THE THERMAL ENVELOPE (E.G. CAN LIGHTS IN ATTIC) SHALL BE IC- RATED, LEAKAGE- RATED AND SEALED TO THE GYPSUM WALLBOARD N1102.4.4
- 13 PROGRAMMABLE THERMOSTAT REQUIRED N1103.1.1
- 14. AIR HANDLERS SHALL BE RATED FOR MAXIMUM 2 % AIR LEAKAGE RATE N1103,2,2,1
- 15. BUILDING CAVITIES USED AS RETURN AIR PLENUMS SHALL BE SEALED TO PREVENT LEAKAGE ACROSS THE THERMAL ENVELOPE KCBRC NI103.2.3
- 16. CERTAIN HOT WATER PIPES SHALL BE INSULATED N1103.4
- 17. ALL EXHAUST FANS SHALL TERMINATE TO THE BUILDING EXTERIOR M1507.2
- 18. MAKEUP AIR SYSTEM REQUIRED FOR KITHCHEN EXHAUST HOODS THAT EXCEED 400 CFM M1503.4
- 19. BUILDING CAVITIES IN A THERMAL ENVELOPE WALL (INCLUDING THE WALL BETWEEN THE HOUSE AND GARAGE) SHALL NOT BE USED AS RETURN AIR PLENUMS (UNLESS THE REQUIRED INSULATION AND AIR BARRIER ARE MAINTAINED) IRC M1601,1,1, #7.5
- 20. AN AIR HANDLING SYSTEM SHALL NOT SERVE BOTH THE LIVING SPACE AND THE GARAGE MI601.6
- 21. A CONCRETE- ENCASED GROUNDING ELECTRODE ("UFER" GROUND.)
 CONNECTION SHALL BE PROVIDED TO THE ELECTRICAL SERVICE E3608.1
- 22. COMPLIANCE WITH THE REQUIRMENT AND SHOW CONNECTION AS NEEDED FOR ROOF BEAM, TRUS, RAFTER, AND GIRDER CONNECTION FOR UPLIFT PER IRC 802.11



RELEASE FOR CONSTRUCTION

AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

02/28/2024



4805 NE JAMESTOWN DR. LEE'S SUMMIT, MO To the best of my knowledge these plans are drawn to comowner's and or builder's design and specifications. The business and or builder's design and specifications. The business and specifications and solidarity of plans. Any changes made on them after prints are made with the owner's and or builder's expense and responsibility. Contractor shall verify all dimensions and enclosed drawing maker of these plans is not an architect or engineer and is recross and originality once construction has begun. While expertation of this plan to avoid mist maker can not guarantee against human error. The contraction has been made in the preparation of this plan to avoid mist maker can not guarantee against human error. The contraction has been busing the preparation of the solely responsible thereafter.

BUILDING CONTRACTOR/HOME OWNER
TO REVIEW AND VERIFY ALL DIMENSION
SPECS, AND CONNECTIONS BEFORE
CONSTRUCTION BEGINS.

ELECTRICAL SYSTEM CODE: SEC.E3401
MECHANICAL SYSTEM CODE: SEC.M1201
PLUMBING SYSTEM CODE: SEC.P2501

MERRIFIELD
MONTICELLO 117
FOUNDATION

Kichards Homebuilding, Inc.

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI