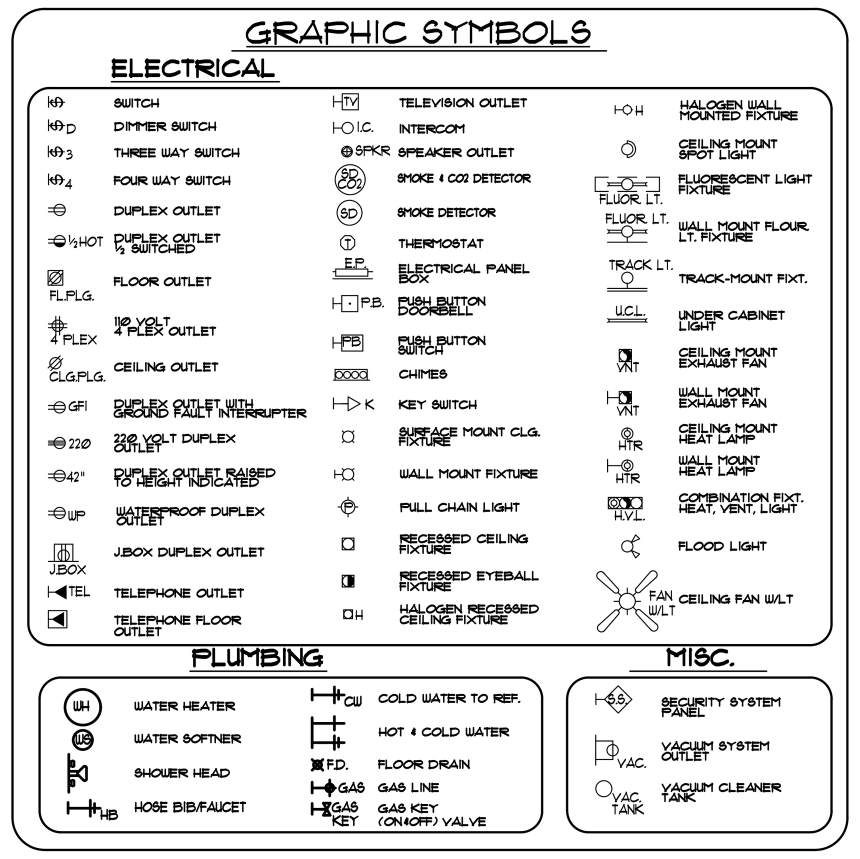


SMOKE & CO-MONXIDE DETECTORS TO BE: HARD WIRED & 3ft. MIN. FROM AC VENTS.
PROVIDE A.F.C.I RECEPTICALS IN ALL BEDROOMS.

ELECTRICAL NOTES:

1.0 ALL SWITCHES TO BE @ 4'-0" ABOVE FIN. FLR. TO CENTER LINE OF SWITCH PLATE UNLESS NOTED OTHERWISE.

2.0 PREWIRE FOR SECURITY SYSTEM PER OWNERS REQUEST.

3.0 GANG ALL SWITCHES AND OUTLETS WHERE POSSIBLE.

4.0 VERIFY LOCATION OF POWER TO ALL APPLIANCES.

5.0 OUTLETS WITHIN 3'-0" OF A SINK OR LAVATORY TO BE ON A G.F.I. CIRCUIT.

6.0 NO SWITCHES TO BE WITHIN 5'-0" OF A TUB.

7.0 LOCATION OF ALL FLOOR OUTLETS & PHONE FLOOR OUTLETS TO BE VERIFIED BY OWNER.

8.0 VERIFY PHONE & CATV OUTLETS PER PLAN WITH OWNER.

9.0 NOTE TO ELECTRICIAN: CENTER LIGHT OVER PEDESTAL LAV. WHERE SHOWN.

10.0 SUPPLY 220v&110v OR GAS&110v TO HVAC UNIT(S) IN ATTIC. (REFER TO SPECS.)

11.0 PROVIDE FOR LIGHT NEAR HVAC UNIT(S) IN ATTIC

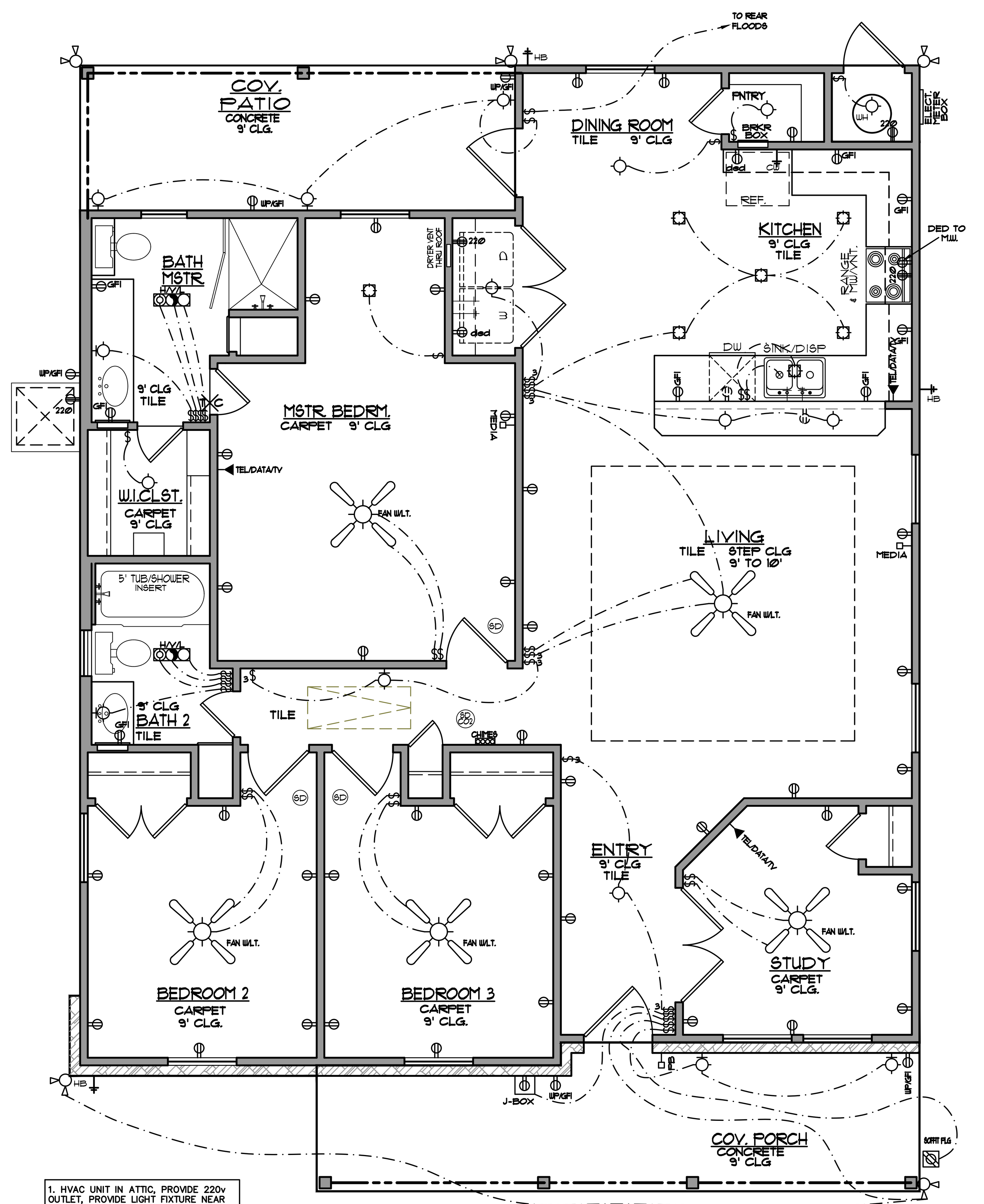
12.0 WIRE TO N.E.C.

13.0 ELECTRICAL CONTRACTOR SHALL PROVIDE 4 BLANK 15 AMP CIRCUITS FOR FUTURE USE AT MAIN PANEL BOX. ALL BREAKERS SHALL BE LABELED.

14.0 INSTALL RHEOSTAT SPEED CONTROL TO ALL FANS.

15.0 INSTALL DIMMER SWITCHES TO ALL RECESSED SPOT AND EYEBALL FIXTURES.

16.0 SMOKE DETECTORS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHEN SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE AND SHALL BE EQUIPPED W/ A BATTERY BACKUP.



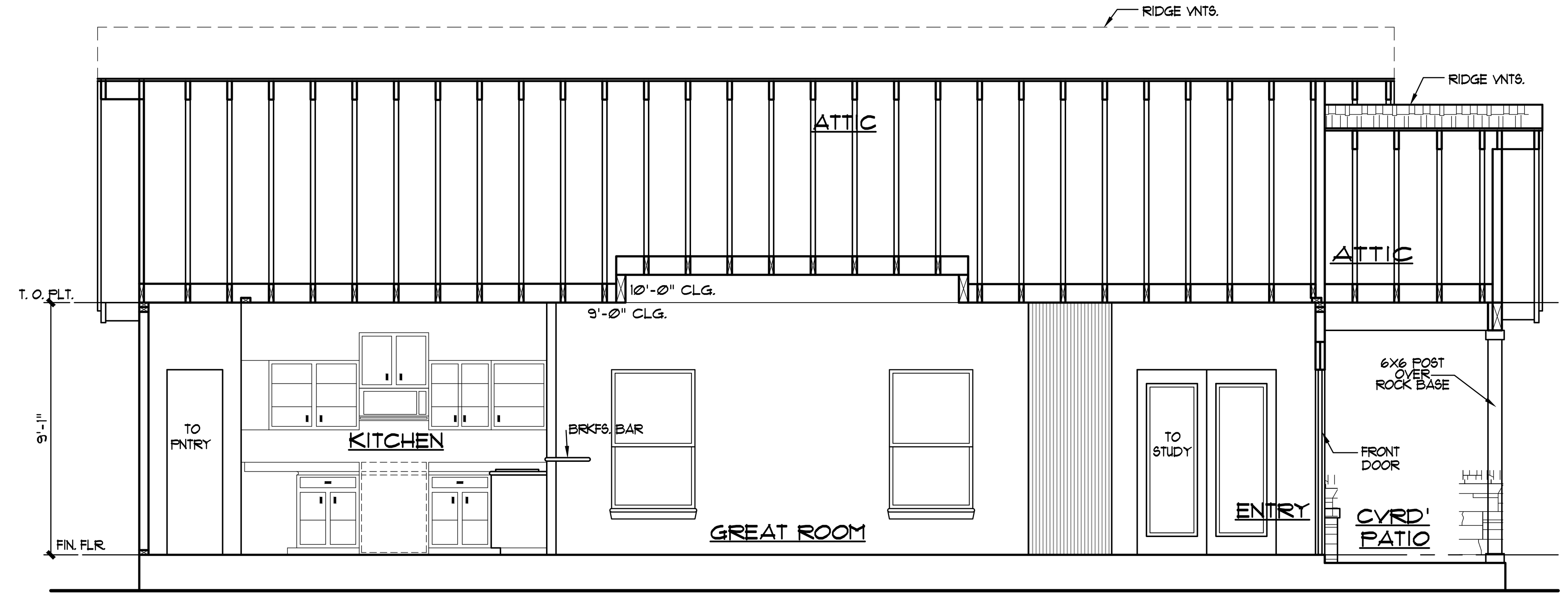
1. HVAC UNIT IN ATTIC, PROVIDE 220v OUTLET, PROVIDE LIGHT FIXTURE NEAR UNIT SWITCHED AT ATTIC ENTRANCE, PROVIDE METAL DRIP PAN WITH OUTSIDE DRAIN LINE. PROVIDE SUB-FLOOR WALKWAY TO & AROUND UNIT COMFORMING TO APPLICABLE CODE.

AC CONTRACTOR MAY REQUIRE THE USE OF ADDITIONAL AREAS FOR THE USE OF DUCTWORK OR EQUIPTMENT. VARIFY ANY CHANGES WITH OWNER & BUILDER

ELECTRICAL PLAN

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

NOTE:
ALL ELECTRICAL WORK TO BE DONE ACCORDING TO THE N.E.C. 2020 (NATIONAL ELECTRICAL CODE)



SECTION A-1

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

VENTED ATTIC CALCULATIONS:

VENTED ATTIC CALCULATIONS:

1753 S.F. OF ATTIC @ 1/300 = 5.84 S.F. NFA
5.84 x 144 SQ. IN. = 841 SQ. IN. x 1/2 = 420..5 SQ. IN.

420.5 SQ. IN. (MIN. EXHAUST REQUIRED)
420.5 SQ. IN. (MIN. IN-TAKE REQUIRED)

MIN. REQUIREMENTS

INTAKE: 420.5 sq. in NFA / 9 sq.in (2" SOFFIT VNT.) = 46.72' MIN.
EXHAUST: 420.5 sq. in. NFA / 18 sq.in. (12" CONT. RDG. VNT) = 23.36' MIN.

OPTIONAL USE OF POWER TURBINS
1753 SQ. FT. X .7 = 1227 CFM

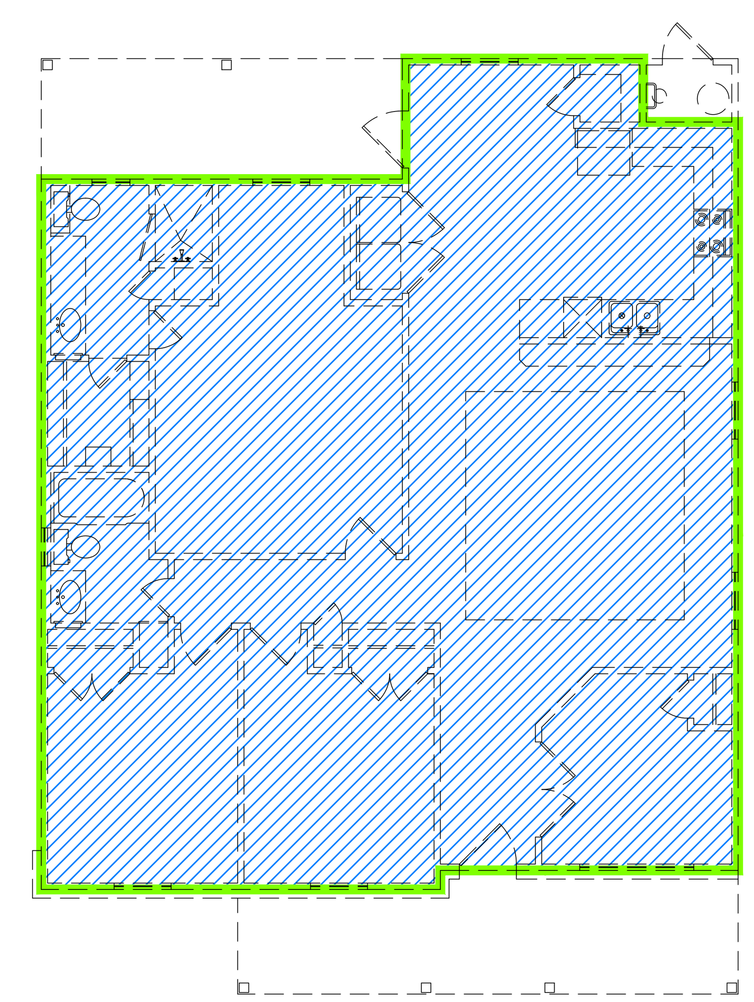
VENTED ATTIC CALCULATIONS

N1102.4 (R402.4) Testing

The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding five air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Testing shall be conducted in accordance with ASTM E 779 or ASTM E 1827 and reported at a pressure of 0.2 inch w.g. (50 Pascals). Where required by the code official, testing shall be conducted by an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

During testing:

Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.
Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.
Interior doors, if installed at the time of the test, shall be open.
Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.
Heating and cooling systems, if installed at the time of the test, shall be turned off.
Supply and return registers, if installed at the time of the test, shall be fully open.



R 13 BATTS INSUL.
BUILDING THERMAL ENVELOP TO BE ACCOMPLISHED BY TYVEK WRAP

R 30 BATTS INSUL.

THERMAL PLAN

SCALE: 1/8"=1'-0"

BUILDING THERMAL ENVELOPE COMPLIANCE
SECTION N1102 (R402)

A. AIR LEAKAGE (MANDATORY)
B. BUILDING THERMAL ENVELOPE. THE BUILDING THERMAL ENVELOPE SHALL BE DURABLY SEALED TO LIMIT INFILTRATION. THE SEALING METHODS BETWEEN DISSIMILAR MATERIALS SHALL ALLOW FOR DIFFERENTIAL EXPANSION AND CONTRACTION. THE FOLLOWING SHALL BE CAULKED, GASKETED, WEATHER STRIPPED, OF OTHERWISE SEALED WITH AN AIR BARRIER MATERIAL, SUITABLE FILM OR SOLID MATERIAL.
1. ALL JOINTS, SEAMS AND PENETRATIONS.
2. SITE BUILT WINDOWS, DOOR AND SKYLIGHTS.
3. OPENINGS BETWEEN WINDOWS AND DOOR ASSEMBLIES AND THEIR RESPECTIVE JAMBS & FRAMING.
4. UTILITY PENETRATIONS.
5. DROPPED CEILINGS OR CHASES ADJACENT TO THE THERMAL ENVELOPE.
6. KNEE WALLS.
7. WALLS AND CEILINGS SEPARATING A GARAGE FROM CONDITIONED SPACES.
8. BEHIND TUBS & SHOWERS ON EXTERIOR WALLS.
9. COMMON WALLS BETWEEN DWELLING UNITS.
10. OTHER SOURCES OF INFILTRATION.

C. FENESTRATION AIR LEAKAGE. WINDOWS, SKYLIGHTS AND SLIDING GLASS DOORS SHALL HAVE AN AIR INFILTRATION RATE OF NO MORE THEN 0.3 cfm PER SQUARE FOOT AND SWINGING DOORS NO MORE THAN 0.5 cfm PER SQUARE FOOT, WHEN TESTED ACCORDING TO "NFRC 400 or AAMA/WDMA/CSA 101/I.S.2/A440 BY AN ACCREDITED, INDEPENDENT LABORATORY AND LISTED AND LABELED BY THE MANUFACTURER.
EXCEPTIONS: SITE-BUILT WINDOWS, SKYLIGHTS & DOORS.

NOTE:
ALL CONSTRUCTION TO BE DONE ACCORDING TO THE 2021 I.R.C. (INTERNATIONAL RESIDENTIAL CODE) AND ADVANCE FRAMING TECHNIQUES FOR ENERGY STAR RATINGS.

FINAL REVIEW NOT FOR CONSTRUCTION

DESIGNS BY:
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(210) 691-2944

PLAN FACTORY

DRK WORKS

227 QUENTIN DR.
SAN ANTONIO, TX

ELECTRICAL PLAN & THERMAL PLAN

DATE DRAWN: APRIL 12, 2023
DRAWN BY: AE
CHECKED BY: AE
PLOT DATE: OCTOBER 4, 2023
SHEET 4 OF 4 SHEETS

PLAN NO.: SR 1459
FILE: 1