2021 IECC CODE COMPLIANCE

ALTERNATIVE VALUES R402.1.3.1

R301.1 CLIMATE ZONE 4- EXCEPT MARINE

R401.2 COMPLIANCE METHOD:
PERSCRIPTIVE MARYLAND ALTERNATIVE R-VALUES AS ESTABLISHED TABLE N1102.1.3.1 (R402.1.3.1) IN THE MARYLAND BUILDING PERFORMANCE STANDARDS

402.1.1 VAPOR RETARDER
WALL ASSEMBLIES IN THE BUILDING THERMAL ENVELOPE SHALL COMPLY WITH VAPOR RETARDER REQUIREMENTS OF SECTION R702.7 OF THE 2021 IRC.

R402.1.3.1 ATTIC INSULATION: R-49
RAISED HEEL TRUSSES: R-38

R402.1.3.1 WOOD FRAME WALL:
R-20 OR R-13 + 5 CONTINOUS INSULATION

R402.1.3.1 BASEMENT WALL INSULATION:
R-13 / R-10 FOIL FACED CONTINUOUS, UNINTERRUPTED BATTS FULL HEIGHT

R402.1.3.1 CRAWL SPACE WALL INSULATION:
R-10ci / R-13 BATTS FULL HEIGHT
EXTENDING FROM FLOOR ABOVE TO FINISH GRADE LEVEL AND THEN VERTICALLY OR HORIZONTALLY AN ADDITONAL 2'-0".

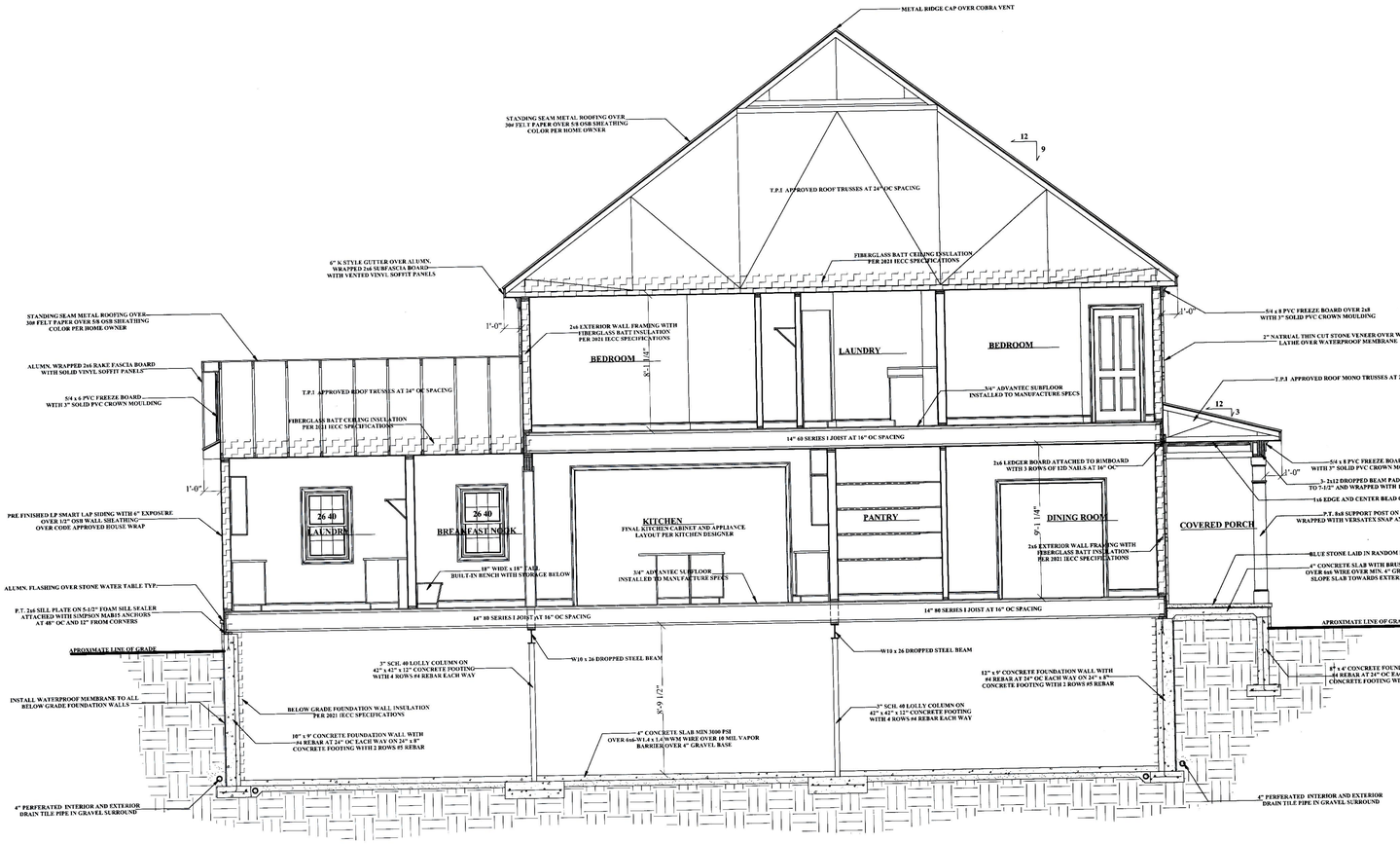
R402.1.3.1 FLOOR INSULATION OVER UNCONDITIONED SPACE
R-19 BATT INSULATION

R402.1.3.1 WINDOW U-VALUE / SHGC
.30 (U-VALUE)
.40 (SHGC)

R402.2.9.1 SLAB ON GRADE FLOORS LESS THAN 12" BELOW GRADE:
R-10 RIGID FOAM BOARD UNDER SLAB EXTENDING EITHER 4'-0" HORIZONTALLY OR 4'-0" VERTICALLY

R402.2.4.1 ATTIC ACCESS:
ATTIC ACCESS SCUTTLE WILL BE WEATHER - STRIPPED AND INSULATED R-49

PERSCRIPTIVE MARYLAND ALTERNATIVE COMPLIANCE REQUIRES THAT AN ADDITIONAL 6% EFFICIENCY BE ACHIEVED THROUGH THE ADDITIONAL ENERGY FEATURES FOR CLIMATE ZONE 4 AS LISTED IN TABLE N1108.3 (R408.3).



SECTION 1-A

SCALE 1/4" = 1'

8/12/25	RB
9/7/25	RB
10/10/25	RB
11/4/26	RB

RB Home Design
1419 CHESAPEAKE AVE MIDDLE RIVER MD 21220
RBHOMEDESIGN@HOTMAIL.COM
443-613-5115

ADAMS RESIDENCE
1839 TRAPPE CHURCH RD
DARLINGTON MD 21034

THE CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS TO BE CONFIRMED AND CORRELATED AT SITE FOR INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION PROCESSES OR TO THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION OF THE WORK OF ALL TRADES

RB HOME DESIGN

DATE: 11/4/26

SCALE: 1/4" = 1'

DRAWN BY: RB

BUILDING SECTIONS

SHEET NO.

A-5

STATE OF MARYLAND
GEOFFREY A. TIANO
No. 15453
PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NO. 15453, EXPIRATION DATE: JULY 2, 2027