DESIGN LOADS		
	LIVE LOAD	DEAD LOAD
TABLE R301.4	(PSF)	(PSF)
DWELLING UNITS	40	10
SLEEPING ROOMS	30	10
ATTICS WITH STORAGE	20	10
ATTICS WITHOUT STORAGE	10	10
ROOF SNOW	20	10
STAIRS	40	10
DECKS	40	10
EXTERIOR BALCONIES	60	10
PASSENGER VEHICLE GARAGES	50	_
FIRE ESCAPES	40	10
GUARDRAILS AND HANDRAILS	200	-

1. FRAMING LUMBER SHALL BE #2 SPRUCE PINE FIR (SPF) WITH THE FOLLOWING DESIGN PROPERTIES: Fb = 875 PSI
Fv = 70 PSI
E = 1.4E6 PSI

2. FRAMING LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, CONCRETE OR MASONRY SHALL BE #2 SOUTHERN YELLOW PINE (SYP) TREATED IN ACCORDANCE WITH AWPA C22 WITH THE FOLLOWING DESIGN PROPERTIES: $F_b = 1050 \, PSI$. $F_v = 95 \, PSI$. $E = 1.6E6 \, PSI$

3. ENGINEERED WOOD BEAMS SHALL BE LAMINATED VENEER LUMBER (LVL) OR PARALLEL STRAND LUMBER (PSL) WITH THE Fh = 2900 PSI Fv = 285 PSI F = 1 9F6 PSI

4 STRUCTURAL STEEL SHALL CONFORM TO ASTM A-36 MINIMUM GRADE

5. BOLTS SHALL CONFORM TO A307 MINIMUM GRADE.

6. REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615 GRADE 60.

7 POLIRED CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3000 PSLAT 28 DAYS. MATERIALS JSED TO PRODUCE CONCRETE SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN ACI 318 OR ASTM C 1157

8. CONCRETE LOCATED PER TABLE R402.2 SHALL BE AIR ENTRAINED WITH THE TOTAL AIR CONTENT NOT LESS THAN 5

9. MASONRY UNITS SHALL CONFORM TO ACI 530/ASCE 5/TMS 402 AND MORTAR SHALL COMPLY WITH ASTM C 270.

10. ALLOWARI E SOIL BEARING PRESSURE 2000 PSE

ENGINEER'S SEAL APPLIES TO STRUCTURAL COMPONENTS ONLY AND DOES NOT CERTIFY ARCHITECTURAL LAYOUT OR DIMENSIONAL ACCURACY. ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION METHODS OR ANY DEVIATION FROM THE

ALL CONSTRUCTION, WORKMANSHIP, MATERIAL QUALITY AND SELECTION SHALL BE IN ACCORDANCE WITH THE **NORTH**CAROLINA STATE BUILDING CODE - RESIDENTIAL CODE 2012 EDITION FROM THE INTERNATIONAL RESIDENTIAL CODE 2012

(IRC), AND LOCAL CODES AND REGULATIONS. DIMENSIONS SHALL GOVERN OVER SCALE AND CODE SHALL GOVERN OVER

FIGURE R301.2(4) - BASIC DESIGN WIND SPEED 100 MPH

FIGURE R301.2(2) - SEISMIC DESIGN CATEGORY B

TABLE R301.2(4) - DESIGN POSITIVE AND NEGATIVE PRESSURE FOR DOORS AND WINDOW FOR A MEAN ROOF HEIGHT OF 35 FEET OR LESS SHALL BE 25 PSF

TABLE R301.2(2) - COMPONENT AND CLADDING LOADS FOR A MEAN ROOF HEIGHT OF 30 FEET OR LESS LOCATED IN

ROOF VALUES BOTH POSITIVE AND NEGATIVE SHALL BE DESIGNED BASED ON ROOF PITCHES AS FOLLOWS:

45.4 PSF FOR 0:12 TO 2.25:12, 34.8 PSF FOR 2.25:12 TO 7:12 AND 21 PSF FOR 7:12 TO 12:12 WALL CLADDING IS DESIGNED FOR A 24.1 PSF POSITIVE AND NEGATIVE PRESSURE

TABLE N1102.1 - REFER TO TABLE N1101.1 TO DETERMINE THE CLIMATE ZONE BY COUNTY AND REFER TO TABLE N1102.1 FOR R VALUE INSULATION REQUIREMENTS LISTED BY ZONE.

STEEL FLITCH BEAMS SHALL BE FASTENED TOGETHER WITH 12" DIAMETER BOLTS WITH WASHERS PLACED UNDER THE
THREADED END OF THE BOLT. BOLTS SHALL BE SPACED AT MAXIMUM 24" o.c. STAGGERED TOP AND BOTTOM OF BEAM WITH
A MINIMUM 2" EDGE DISTANCE. TWO BOLTS SHALL BE LOCATED AT 6" FROM EACH END OF FLITCH BEAM.

2. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH. BEAMS MUST BE ANCHORED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR TWO 1/2" x 4" LAG SCREWS

3. ENGINEERED WOOD BEAMS SHALL BE INSTALLED WITH ALL CONNECTIONS PER MANUFACTURER'S INSTRUCTIONS.

SHALL BE CONTINUOUS TO THE FOUNDATION OR TO OTHER STRUCTURAL FLEMENTS.

5. SOLID BLOCKING SHALL BE PROVIDED AT ALL POINT LOADS TO TRANSFER LOADS THROUGH FLOOR LEVELS. COLUMNS

6. ENGINEERED WOOD FLOOR SYSTEMS AND ROOF TRUSS SYSTEMS SHALL BE PROVIDED FOR REVIEW AND COORDINATED WITH THE ENGINEER OF RECORD. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

. WALL BRACING REQUIREMENTS SHALL BE IN ACCORDANCE WITH SECTION R602.10 OF THE NORTH CAROLINA RESIDENTIAL

8. BRICK LINTELS SHALL BE 3 1/2 x 3 1/2 x 1/4 STEEL ANGLE FOR UP TO 6'0" MAXIMUM SPAN AND 6 x 4 x 5/16 FOR SPANS

9. BRICK LINTELS AT SLOPED AREAS SHALL BE 4 \times 3 1/2 \times 1/4 STEEL ANGLE WITH 16d NAILS IN 3/16" HOLES IN 4" ANGLE LEG AT 12" o.c. TO DOUBLE RAFTER. WHEN THE SLOPE EXCEEDS 4:12 A MINIMUM OF 3 \times 3 \times 1/4 PLATES SHALL BE WELDED AT 24" o.c. ALONG THE STEEL ANGLE.

Lot 63 Prince Place

SQUARE FOOTAGE						
	HEATED S.F.	UNHEATED S.F.				
FIRST FLOOR	1947					
SECOND FLOOR	847					
SCREENED PORCH		196				
FRONT PORCH		132				
GARAGE		718				
TOTAL	2794	1046				

	REVISION I	_OG				
Rev	Description	Drawn By	Date	Sheets Affected	Brochure Required	Engineering Required
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						I I

MEAN ROOF HEIGHT

CLADDING POSITIVE & NEGATIVE PRESSURE = 21 PSF

1 1/2 STORY = 19'-0" CLADDING POSITIVE & NEGATIVE PRESSURE = 34.8 PSF

CLADDING POSITIVE & NEGATIVE PRESSURE = 34.8 PSF

INSTALL ANCHOR BOLTS, NUTS, AND WASHERS PER CODE AT ALL EXTERIOR WALL TREATED PLATES AND AT INTERIOR BEARING WALL TREATED PLATES ON SLAB FOUNDATIONS. TO BE A MINIMUM OF 6' O.C. AND WITHIN 12" FROM THE ENDS OF EACH PLATE.

DESIGN PRESSURES

MINIMUM RATING: 25 PSF

MI WINDOWS 3500 SERIES LOW E-GLASS WINDOWS

TABLE N1102.1 CLIMATE ZONES 3-5

NC	CONCRETE
NT	CONTINUOUS
L.	DOUBLE
	DOUBLE JOIST
P .	DOUBLE STUD POCKET
	EACH
PT	FLAT PLATE
G	FOOTING
SR .	HANGER
L	LAMINATED VENEER LUMBER
S	NOT TO SCALE
;	ON CENTER
L	PARALLEL STRAND LUMBER
	PRESSURE TREATED
;	STUD COLUMN
)	STUD POCKET
	TDIDI E IOICT

LINI ESS NOTED OTHERWISE

CLIMATE ZONES	FENESTRATION U-FACTOR b	SKYLIGHT ^b U-FACTOR	GLAZED FENESTRATION SHGC b,0	CEILING ^k R-VALUE	WOOD Framed Wall R-Value	MASS Wall R-Value i	FLOOR R-VALUE	BASEMENT C WALL R-VALUE	SLAB ^d R-Value And Depth	CRAWL SPACE C WALL R-VALUE
3	0.35	0.65	0.30	30	13	5/10	19	10/13 ^f	0	5/13
4	0.35	0.60	0.30	38 OR j 30 CONT j	15 OR 13+2.5 ^h	5/10	19	10/13	10 ^d	10/13
5	0.35	0.60	NR	38 OR 1	19 OR 13+5 OR 15+3#,h	13/17	30 g	10/13	10 d	10/13

b. THE FENESTRATION LIFACTOR COLLIMN EXCLUDED SKYLIGHTS. THE SHIGC COLLIMN APPLIES TO ALL GLAZED FENESTRATION.

- "10/13" MEANS R-10 CONT. INSULATED SHEATHING ON THE INTERIOR OR EXTERIOR OF THE HOME OR R-13 CAVITY INSULATION AT THE INTERIOR OF THE BASEMENT WALL OR

- C. "WIST MENNER NIG CONT. INSULATED SHEATHING ON THE INTERIOR OR EXTERIOR OF THE HORSE OR R-13 CAVITY INSULATION AT THE INTERIOR OF THE BASEMENT WALL OR CAWAY. SPACE WILL.

 4. FOR INDUCATION IS JAMES, INSULATION SHALL BE APPLIED FROM THE INSPECTION GAP DOWNWARD TO THE BOTTOM OF THE FOOTING OR A MAXIMUM OF 18 INCHES BELOW GRADE, WICHOEVER IS LESS. FOR ROATING SALES, INSULATION SHALL EXTERIOR TO THE BOTTOM OF THE FOOTING OF THE FOOTING OR A MAXIMUM OR 18 INCHES BELOW GRADE, WICHOEVER IS LESS. FOR ROATING SALES, INSULATION SHALL EXTERIOR TO THE BOTTOM OF THE FOOTING OF THE FOOTING OR A MAXIMUM IS MICHOEVER IS LESS. R-S SHALL BE ADDED TO THE ROATING SHALL OR HAVE AND A MAY HAVE IN NOT DEBENED TO OTHER PROFILED TO THE ROATING SHALL OR HAVE AND A MAY HAVE IN NOTE DEBENED TO THE ROATING SHALL OR HAVE AND A MAY HAVE IN NOTE DEBENED TO THE ROATING SHALL OR HAVE AND A MAY HAVE IN NOTIFICATION IS NOT REQUIRED BY IN WARMHAND LOCATIONS AS DEFINED BY FIGURE HYIGH 2 (1 AND 2) AND TABLE HYIGH.

 5. OR INSULATION SHOT DEBENED TO COME IN SHALL DESIRED SHALL BE SHALL SHALL BE S

ATTIC VENT SCHEDULE									
	LOT 63 PRINCE PLACE								
MAIN	HOUSE		SQ FTG	2731	2731 AT / NEAR RIDGE AT / NEAR EAVE				
VENT TYPE	SQ. REQU		SQ. FT.		POT LARGE (SQ. FT. EACH)	POT SMALL (SQ. FT. EACH)	RIDGE VENT (SQ. FT. PER LF)	EAVE VENT (SQ. IN. EACH)	CONT. VENT (SQ. IN. PERLE)
		NGE	SUPPLIED SUPPLIED		0.4236	0.2778	0.125	0.1944	0.0625
RIDGE VENT	3.64	4.55	4.50	48.65	0 0 36.00				
SOFFIT VENTS	5.46	4.55	4.75	51.35	0 76.0			76.00	
TOTAL (MIN)	0 10	0 10	0.25	100.00	DOT VENTS MAY BE DECHIDED IS THERE IS INSTREMEDIATE DIDGE AVAILABLE				

* SCHEDULE HAS BEEN CALCULATED ASSUMING EAVE VENTILATION AT 50-60% OF TOTAL AND RIDGE AT 40-50% OF TOTAL REQUIRED VENTILATION

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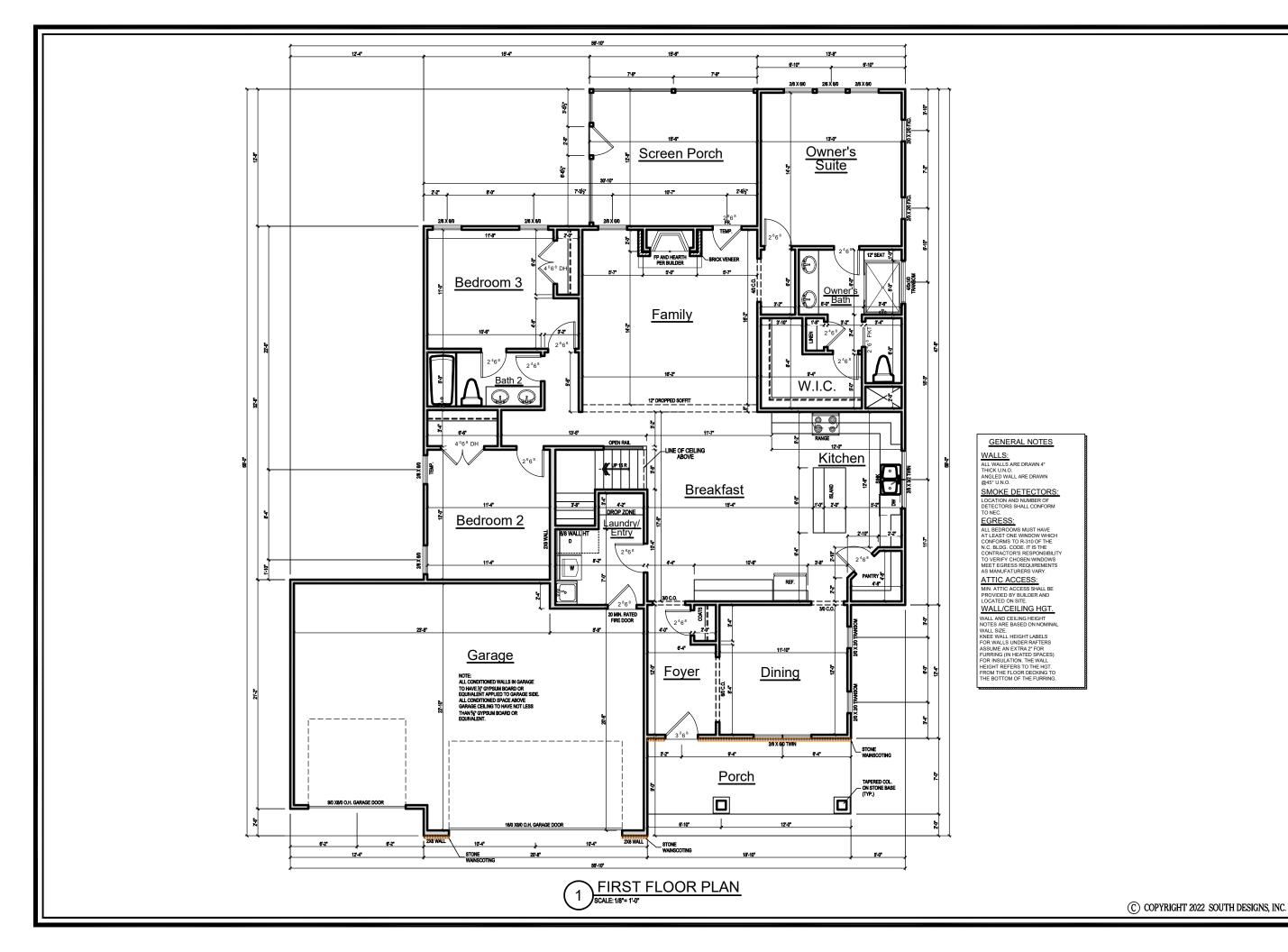


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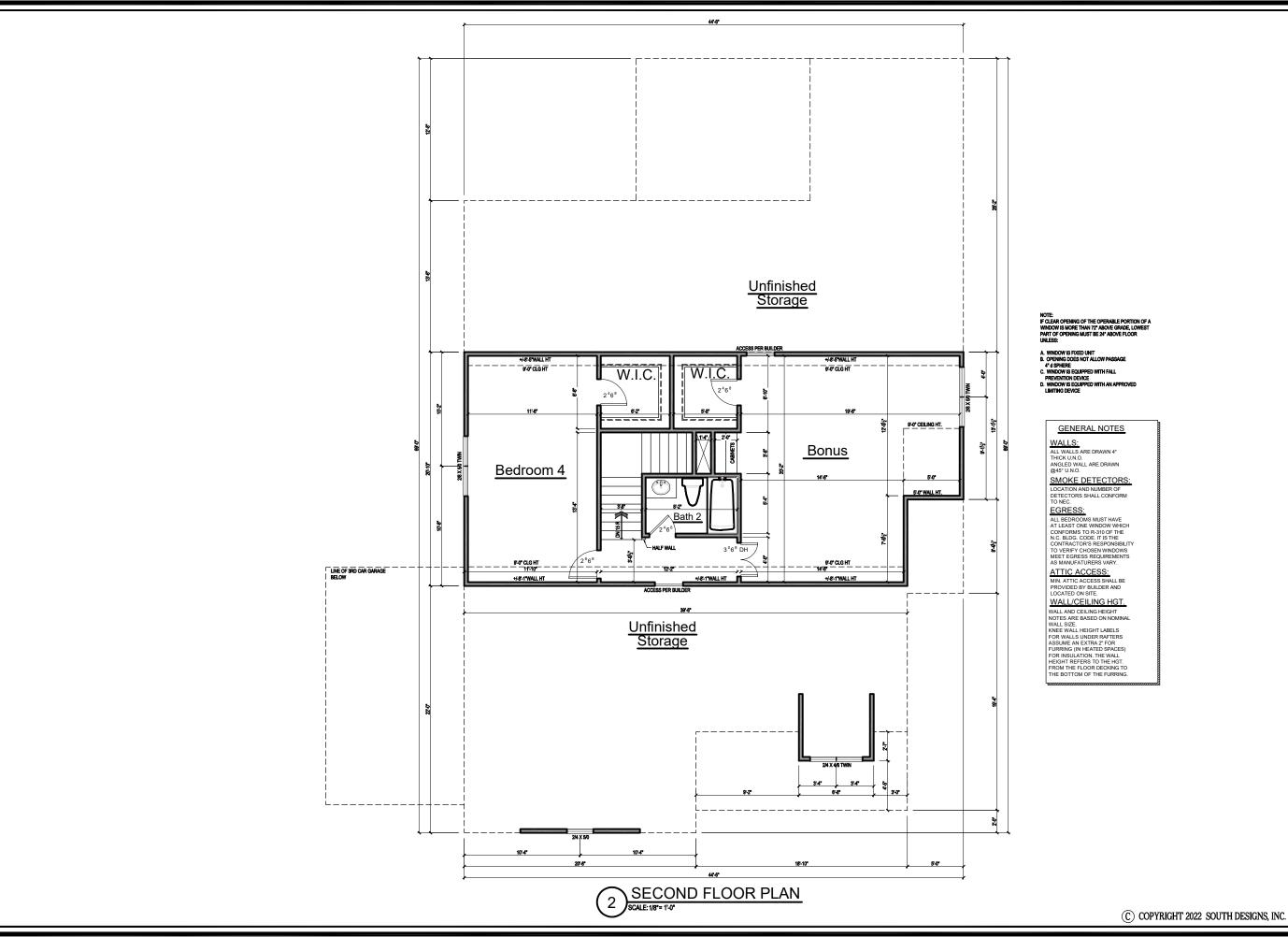
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Triple A Homes

FIRST FLOOR PLAN

Plan No.

Sheet No. A-1





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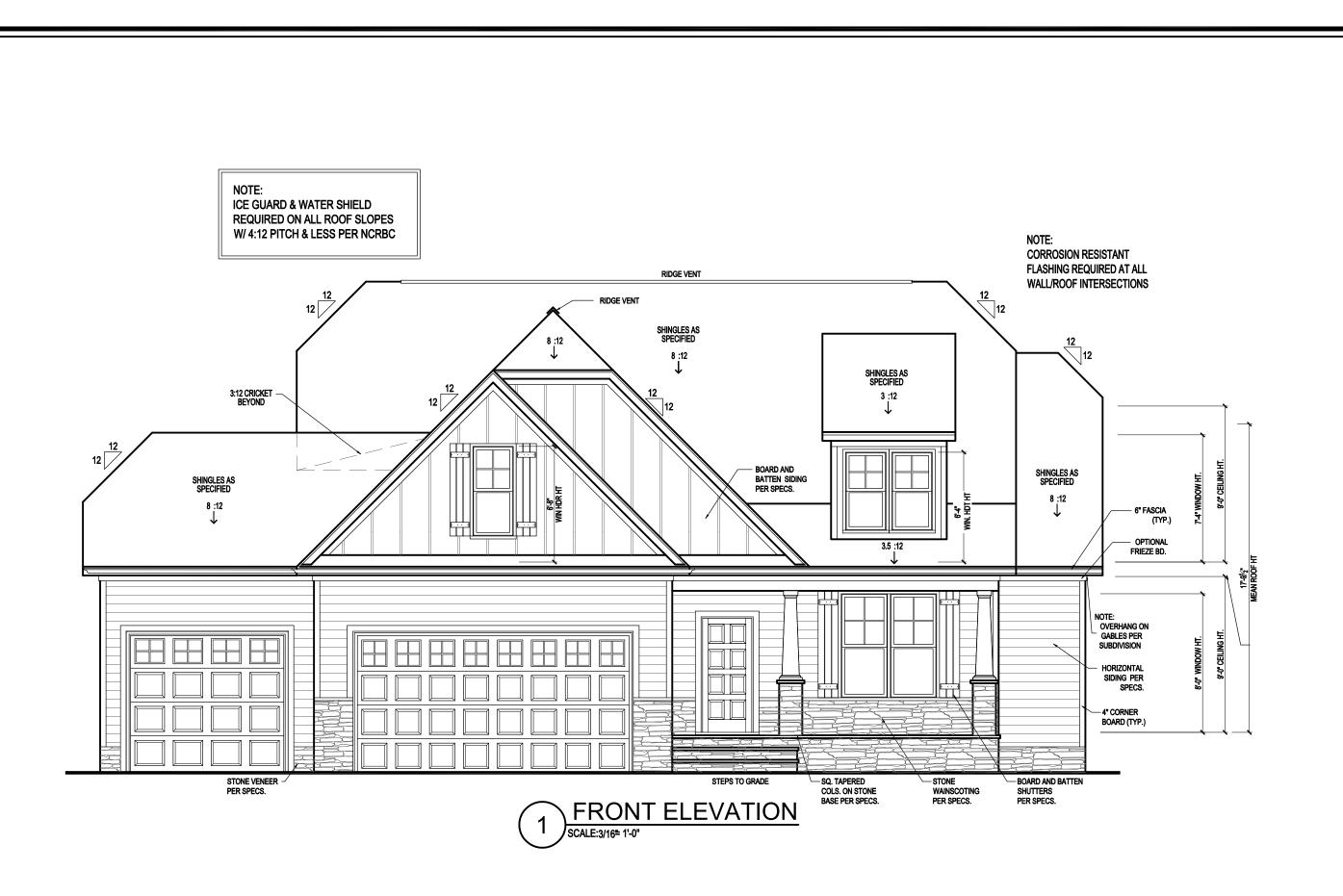
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Triple

FIRST FLOOR PLAN

Plan No.

Sheet No. A-2





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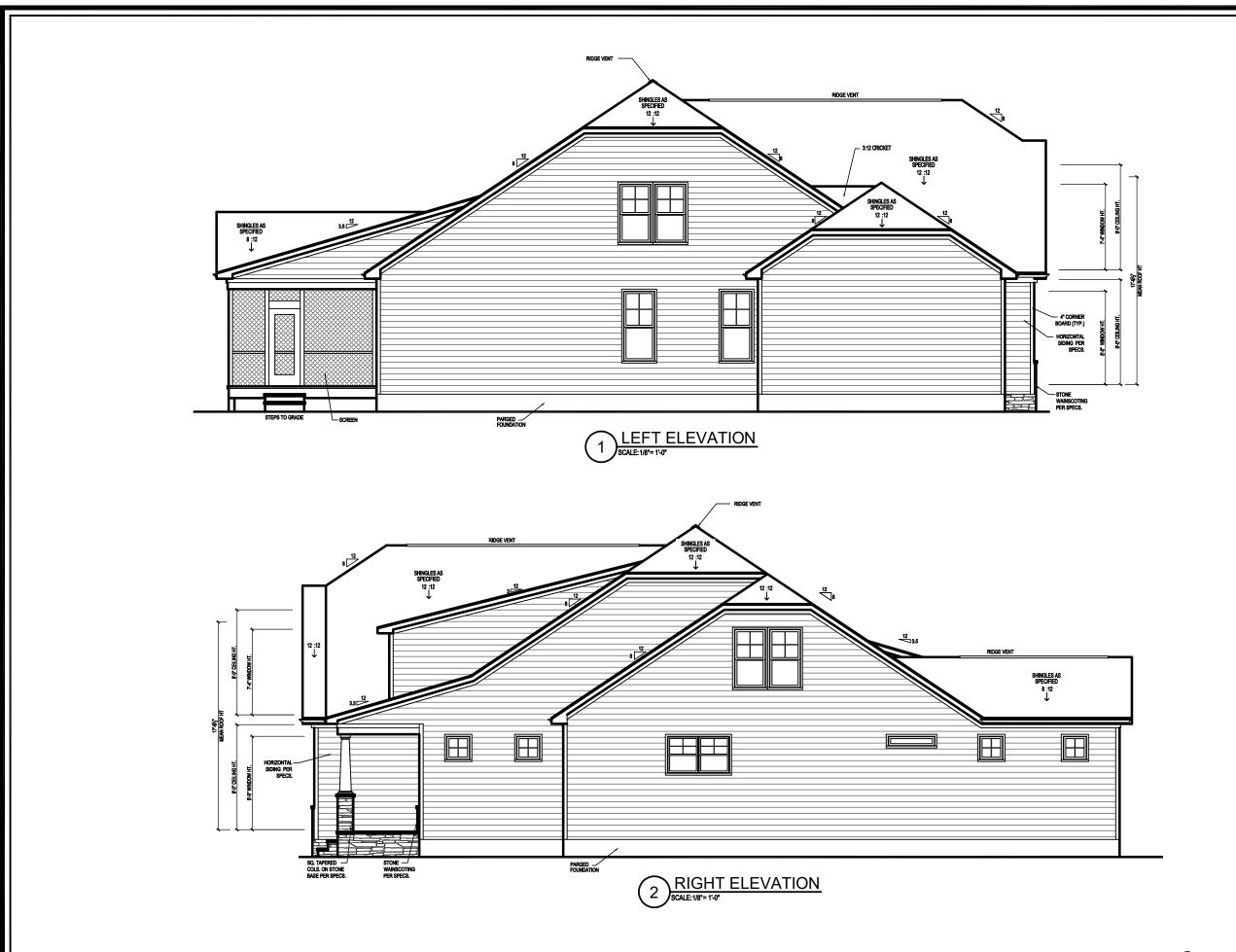
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Triple A Homes

FRONT ELEVATION

Plan No.

 $_{ ext{Sheet No.}} EL-1$





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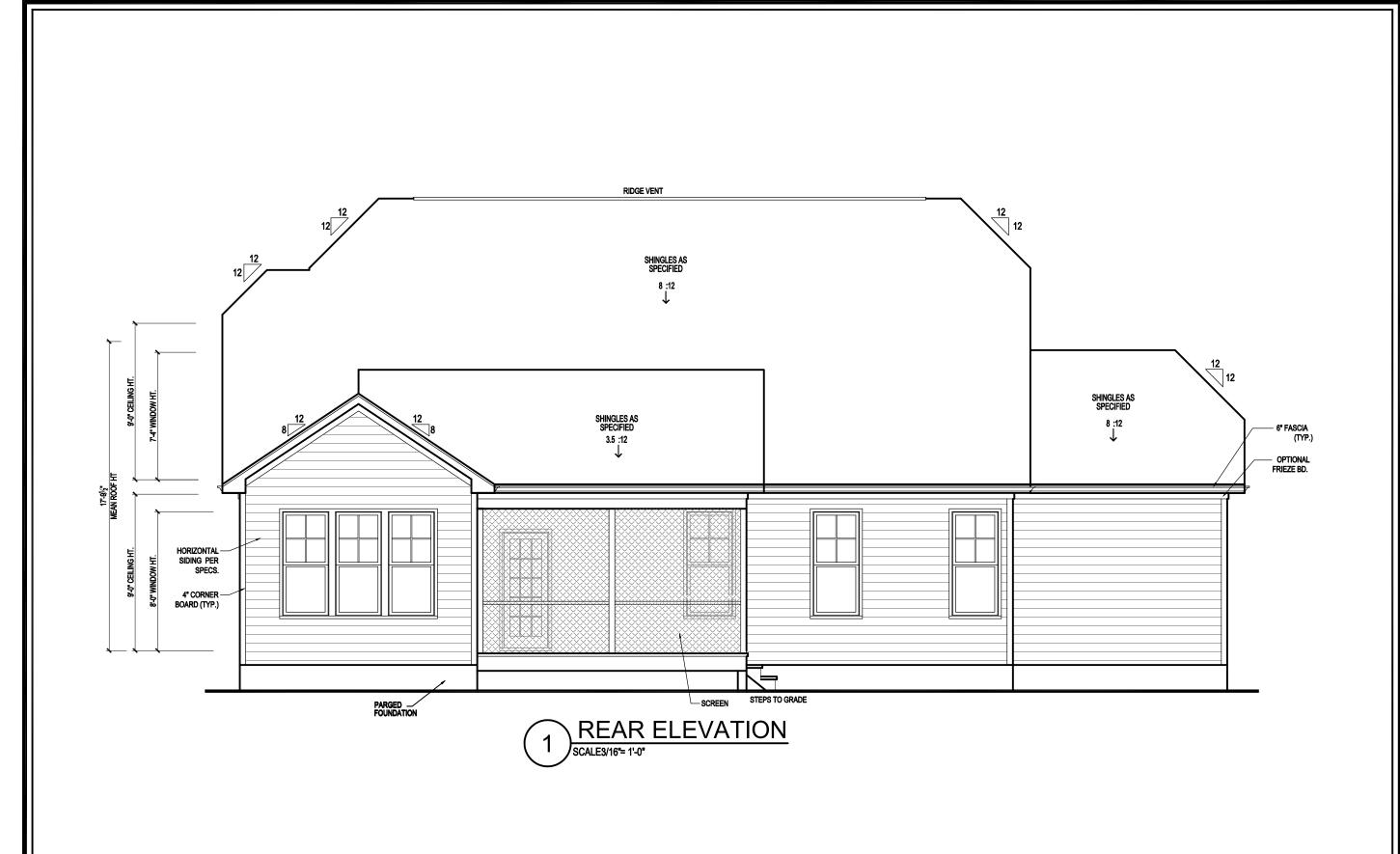
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Triple A Homes

LEFT & RIGHT SIDE ELEVATION

Plan No.

Sheet No. EL-2





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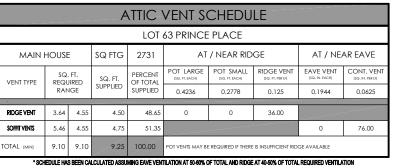
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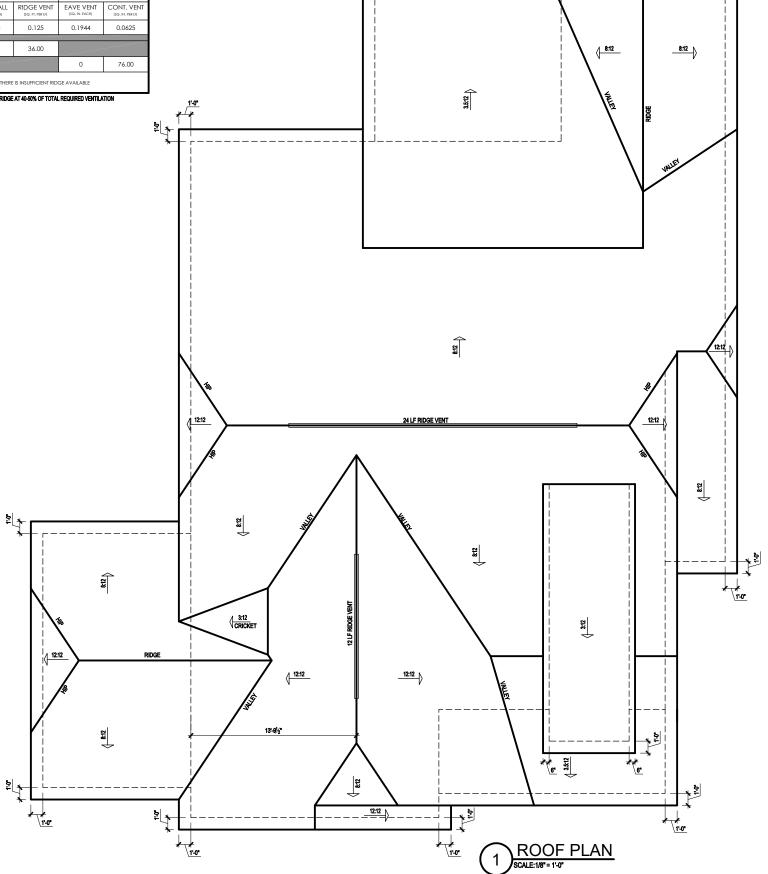
Triple A Homes

REAR ELEVATION

Plan No.

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ROOF PLAN

Plan No.

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