

**PLANS DESIGNED TO THE  
2018 NORTH CAROLINA STATE  
RESIDENTIAL BUILDING CODE**

MEAN ROOF HEIGHT: 22'-8" HEIGHT TO RIDGE: 28'-4"

CLIMATE ZONE	ZONE 3A	ZONE 4A	ZONE 5A
PERMEATION FACTOR	0.35	0.31	0.35
STAIR FACTOR	0.35	0.35	0.35
CEILING FACTOR	0.35	0.35	0.35
CEILING AREA	38.06 (201)	38.06 (201)	38.06 (201)
MIN. AREA	15	15	15
MAX. AREA	15	15	15
MIN. CLEARANCE	30	30	30
MAX. CLEARANCE	30	30	30
MIN. AREA	57.3	107.5	107.5

PERMITTED SPEED OF WIND, 1 SECOND GUST RE-ENTRY EXPOSURE 'B'

WIND SPEED	ZONE 3A	ZONE 4A	ZONE 5A
UP TO 30	10.37	10.37	10.37
31 TO 35	10.37	10.37	10.37
36 TO 40	10.37	10.37	10.37
41 TO 45	10.37	10.37	10.37
46 TO 50	10.37	10.37	10.37
51 TO 55	10.37	10.37	10.37
56 TO 60	10.37	10.37	10.37
61 TO 65	10.37	10.37	10.37
66 TO 70	10.37	10.37	10.37
71 TO 75	10.37	10.37	10.37
76 TO 80	10.37	10.37	10.37
81 TO 85	10.37	10.37	10.37
86 TO 90	10.37	10.37	10.37
91 TO 95	10.37	10.37	10.37
96 TO 100	10.37	10.37	10.37

**ROOF VENTILATION**

**SECTION B105**  
806.4.1.1. Ventilation required. Excess air and exhausted either: spaces formed where callings are applied directly to the underside of roof eaves shall have cross ventilation for each approach space by ventilating openings having a minimum clear height of 1 1/8 inches (30 mm) minimum and 1 1/2 inches (38 mm) maximum. Ventilation openings having a clear dimension larger than 1/4 inch (6.4 mm) shall be provided with corrosion-resistant wire cloth mesh having a minimum clear height of 1/4 inch (6.4 mm) and a maximum dimension of 1/8 inch (3.2 mm) minimum and 1/4 inch (6.4 mm) maximum. Openings in roof framing members shall conform to the requirements of Section 802.2.

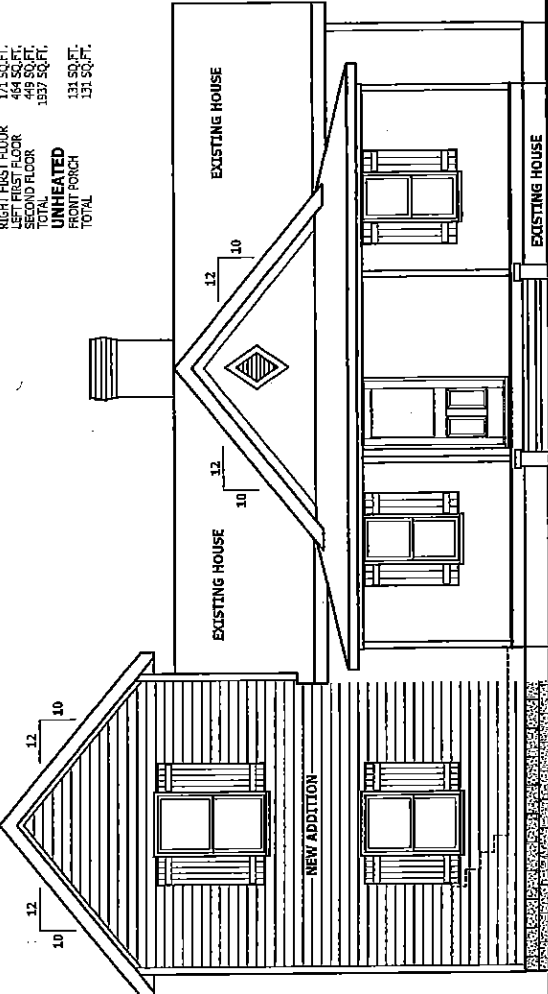
**SECTION B105.2**  
1. Enclosed attic/after spaces requiring less than 1 square foot (0.0929 m<sup>2</sup>) of ventilation may be vented with continuous soffit ventilation only.  
2. Enclosed attic/after spaces over unconditioned space may be vented with square footage of soffit to be vented = 1,488 SQ. FT.  
3. Net free cross ventilation required:  
WITHOUT 50% TO 80% OF VENTING 3'-0" ABOVE EAVE = 9.92 SQ. FT.  
WITH 50% TO 80% OF VENTING 3'-0" ABOVE EAVE, OR WITH CLASS 1 OR 2 VAPOR RETARDER ON WARM-IN-WINTER SIDE OF CEILING = 4.96 SQ. FT.

**GUARD RAIL NOTES**

**SECTION R312.2**  
R312.2.1.1. Guards shall be located along open-side walking surfaces, including stairs, ramps and landings, that are located more than 30 inches (762 mm) measured vertically to the floor or grade below at any point within 36 inches (914 mm) horizontally to the edge of the open side. Insect screens shall be provided on all openings in guards.  
R312.2.1.2. Height. Measured guards as specified walking surfaces, including stairs, porches, balconies or landings, shall be not less than 36 inches (914 mm) high measured vertically above the adjacent walking surface, adjacent to the leading or the line connecting the leading edges of the guard.  
1. Guards on the open sides of stairs shall have a height not less than 34 inches (864 mm) measured vertically from a line connecting the leading edges of the stairs. The top of the guardrails shall be a handrail on the open sides of stairs. The top of the guardrail shall not be less than 34 inches (864 mm) and not more than 38 inches (965 mm) measured vertically from a line connecting the leading edges of the stairs.  
R312.2.1.3. Openings. Measured guards shall not have openings from the walking surface to the required guard height which allow passage of a sphere 4 inches (102 mm) diameter.  
Exceptions:  
1. Guards on the open sides of stairs shall not have openings which allow passage of a sphere 4 inches (102 mm) diameter.  
2. Guards on the open sides of stairs shall not have openings which allow passage of a sphere 4 7/8 inches (111 mm) diameter.

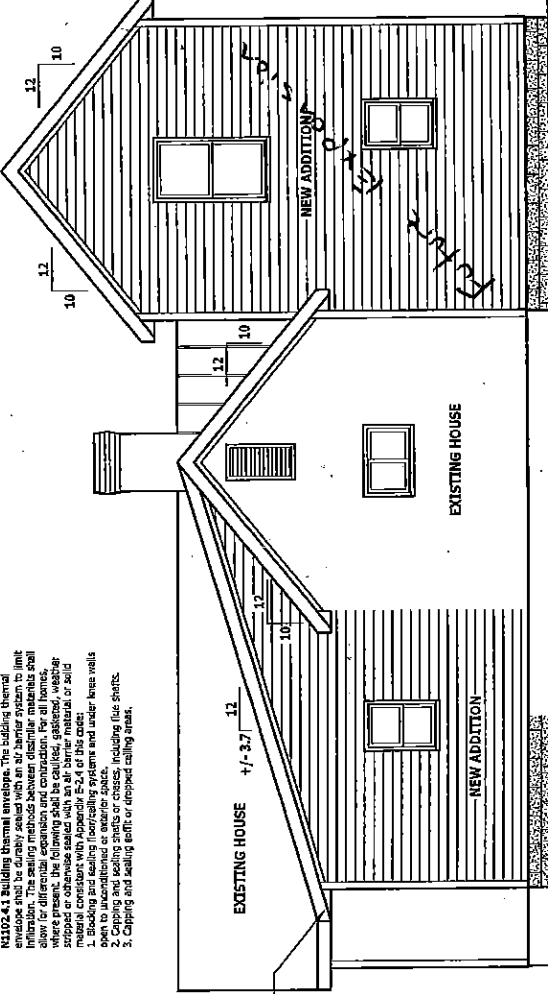
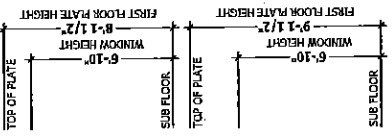
**AIR LEAKAGE**

**SECTION M102.4**  
M102.4.1. Building thermal envelope. The building thermal envelope shall be durably sealed with an air barrier system to limit infiltration. The sealing methods between dissimilar materials shall where present, the finishing shall be caulked, sealed, welded, stapled or otherwise sealed with an air barrier material or solid material consistent with Appendix E-2.4 of this code.  
1. Sealing shall be performed on exterior doors and exterior window doors to unconditioned or exterior facades, including full shades.  
2. Caulking and sealing shall be performed on full shades.  
3. Caulking and sealing shall be performed on full shades.



**SQUARE FOOTAGE**

HEATED	UNHEATED	FRONT PORCH	TOTAL
EXISTING FIRST FLOOR	833 SQ. FT.	131 SQ. FT.	131 SQ. FT.
RIGHT FIRST FLOOR	172 SQ. FT.		
LEFT FIRST FLOOR	448 SQ. FT.		
NEW ADDITION	1577 SQ. FT.		
TOTAL	1577 SQ. FT.		



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EXTENDED OVERHANG AS NEEDED TO ALLOW BOXING (APPROXIMATE 1'-6" OVERHANG)

FRONT & REAR ELEVATIONS

Miller Residence  
8296 Christian Light Road  
Fuquay-Varina, NC 27526

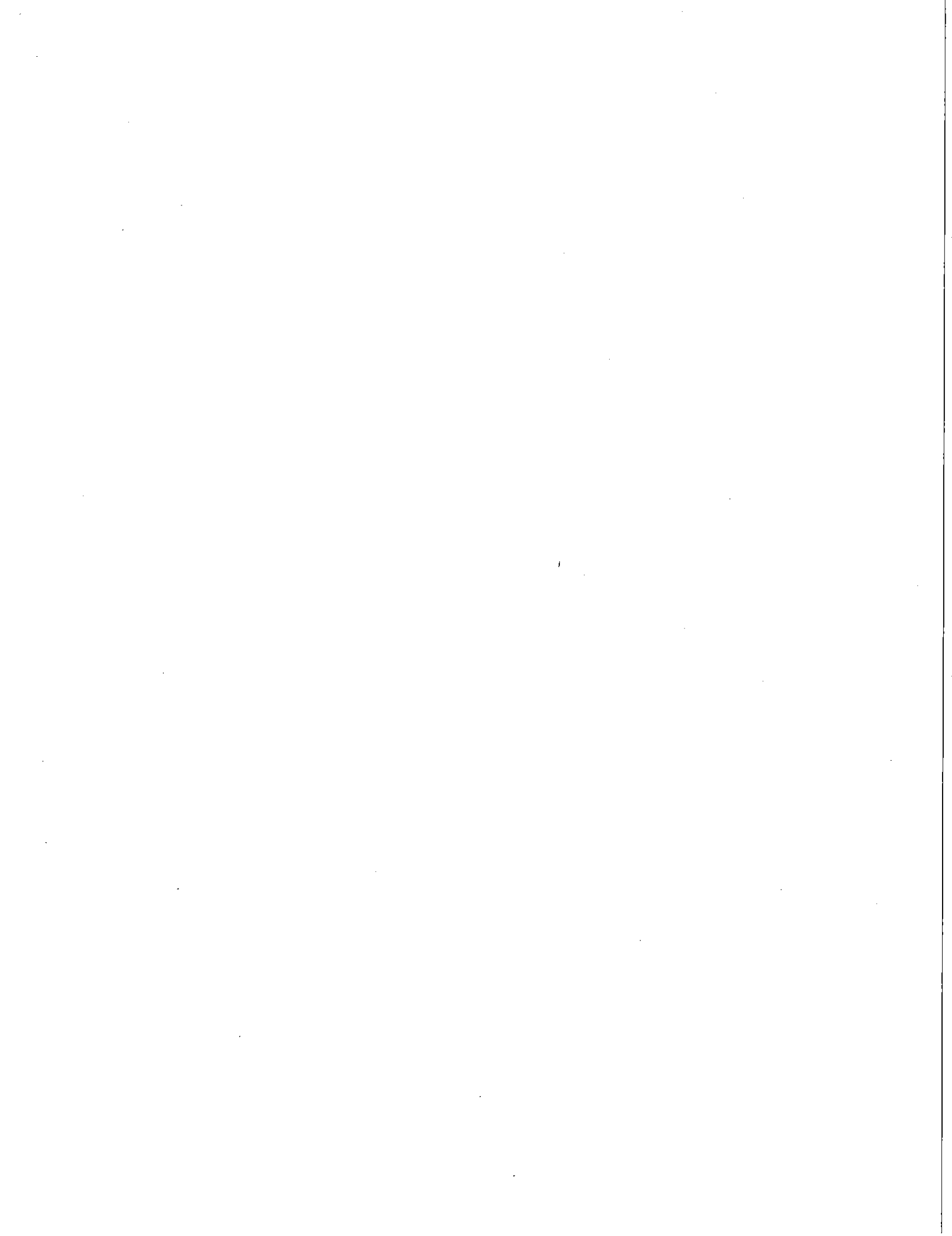
**HAYNES HOME PLANS, INC.**

**SQUARE FOOTAGE**

EXISTING FIRST FLOOR	833 SQ. FT.
RIGHT FIRST FLOOR	172 SQ. FT.
LEFT FIRST FLOOR	448 SQ. FT.
NEW ADDITION	1577 SQ. FT.
FRONT PORCH	131 SQ. FT.
TOTAL	2161 SQ. FT.

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FOR YOUR PROTECTION, WE ADVISE THAT ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT'S PERMITS AND REGULATIONS. ANY DEVIATIONS FROM THE PERMITS AND REGULATIONS SHALL BE AT THE OWNER'S RISK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND REGULATIONS.

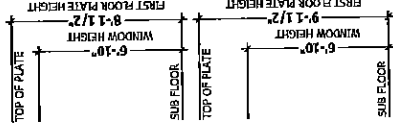
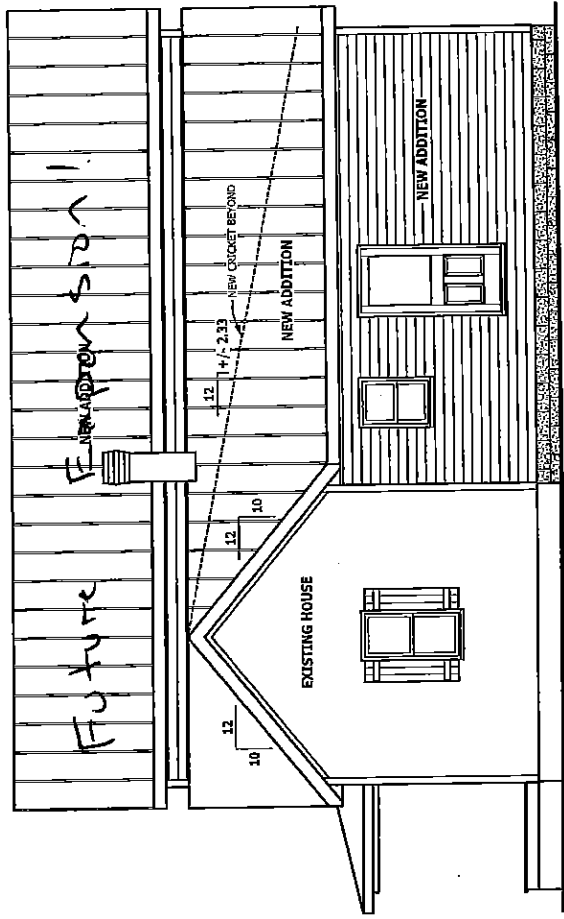
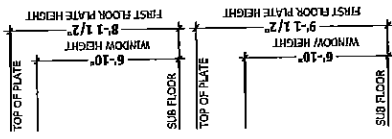
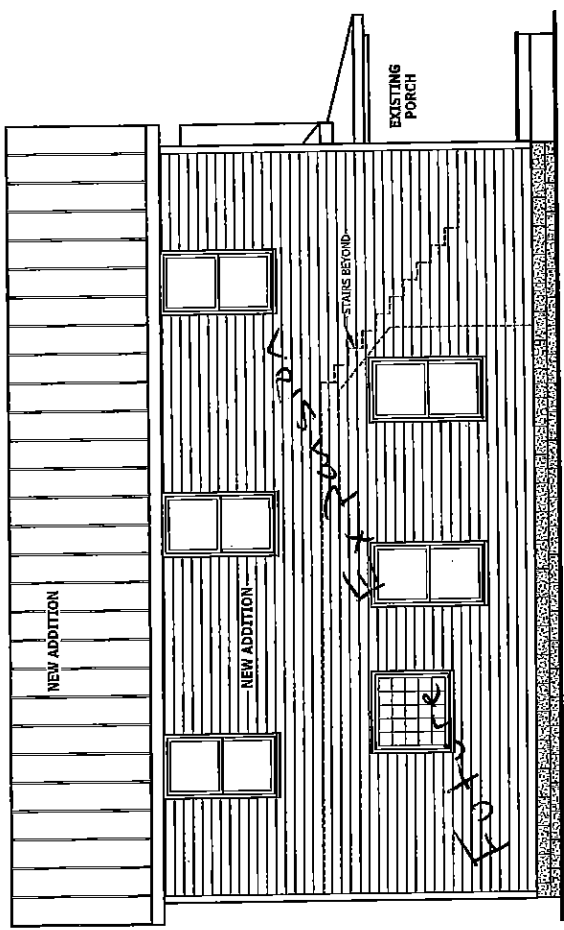
**LEFT & RIGHT ELEVATIONS**

**Miller Residence**  
8296 Christian Light Road

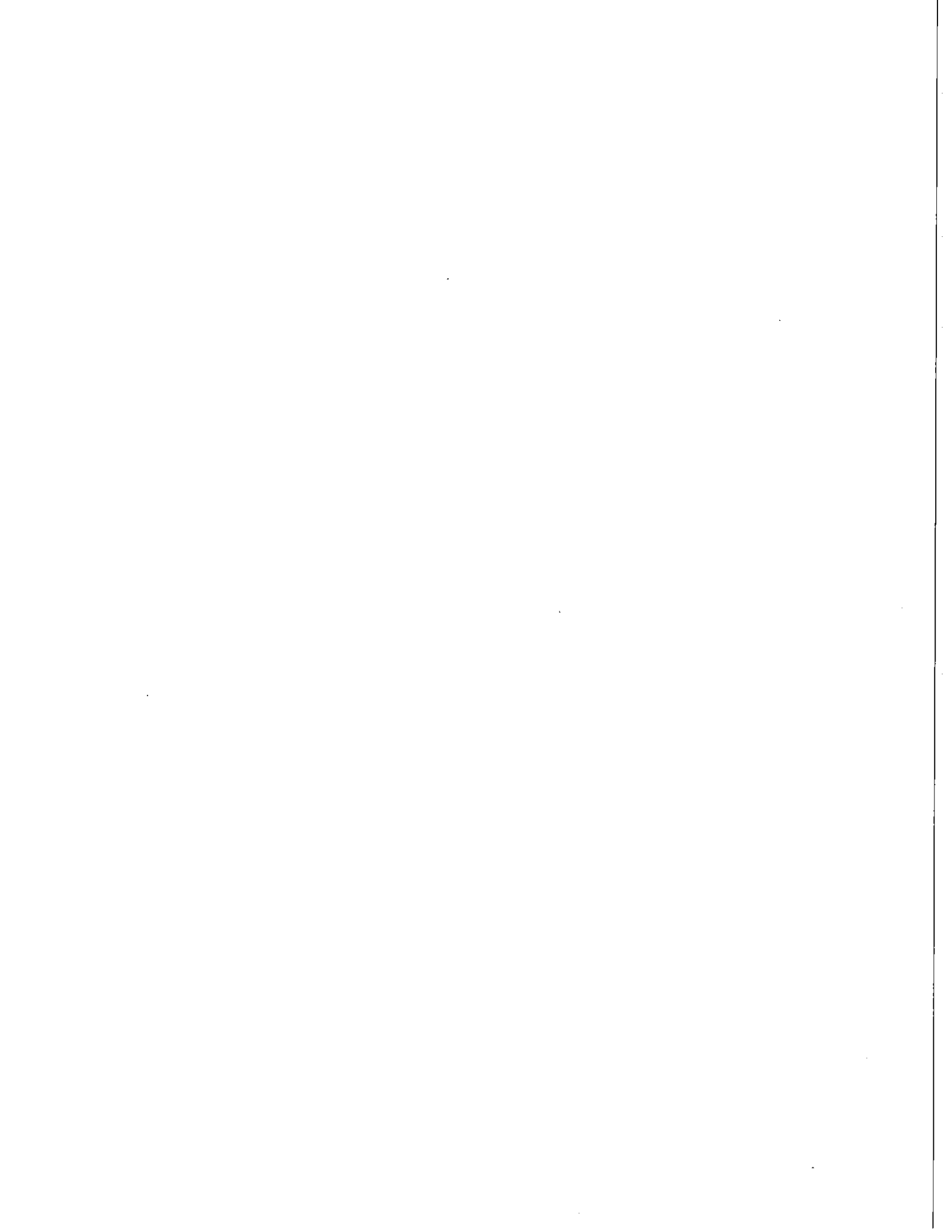
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<b>SQUARE FOOTAGE</b>	63.00 SF
FOUNDATION	42.00 SF
FIRST FLOOR	42.00 SF
SECOND FLOOR	21.00 SF
UNHEATED ATTIC	11.00 SF
TOTAL	135.00 SF

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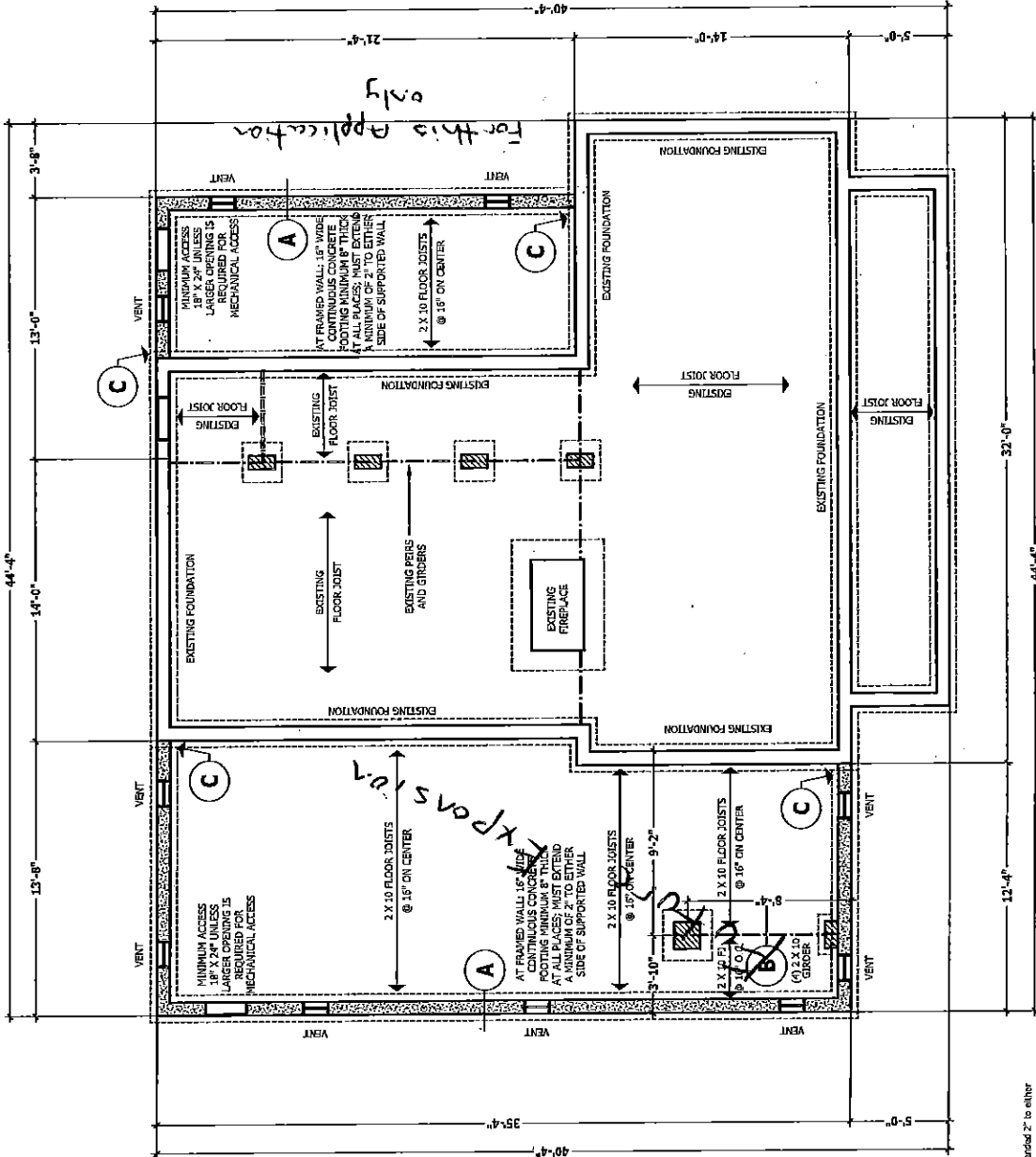
FOUNDATION PLAN

Miller Residence  
8296 Christian Light Road

**HAYNES**  
HOME PLANS INC.  
2115 W. 10th Street, Suite 100  
Tulsa, Oklahoma 74107  
918.438.2222

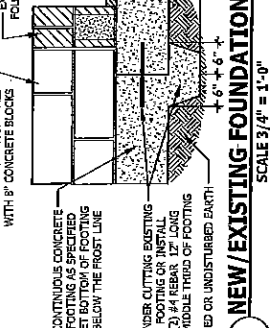
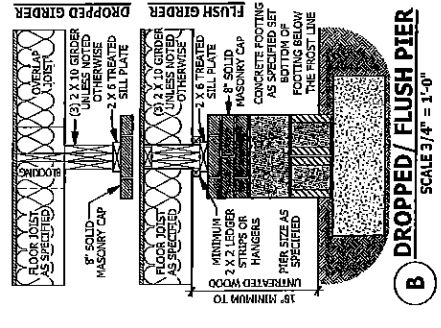
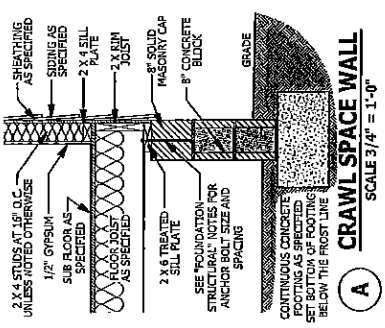
SQUARE FOOTAGE	
FOOTPRINT	111.00
COVERED PATIO	10.00
SCREENED PATIO	10.00
DECK	10.00
PERGOLA	10.00
LANDSCAPE	10.00
TOTAL	151.00

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**CLOSED CRAWL PER R409 OR WALL VENTED CRAWL SPACE**  
UNDER FLOOR SPACE (SECTION A) TOTAL FOUNDATION SQUARE FOOTAGE IS 111.00 SQ. FT. SQUARE FOOTAGE OF WALL VENTED CRAWL SPACE WITH CROSS VENTILATION AREA OF VENTING NEEDED = 10.00 SQ. FT. NOTE: NUMBER OF VENTS NEEDED WILL VARY DEPENDING ON VENTS USED AND CROSS VENTILATION.

**CRAWL SPACE PLAN**  
SCALE 1/4" = 1'-0"



**FOUNDATION STRUCTURAL**

1. ALL 12" WALLS SHALL BE 12" TO 1 1/2" MIN. CONTINUOUS FOOTING: 14" MIN. AND 8" THICK MINIMUM IN BRICK VENTERS. MUST EXTEND 2" TO EITHER SIDE OF EXISTING WALL.

2. ALL 12" WALLS SHALL BE 12" TO 1 1/2" MIN. CONTINUOUS FOOTING: 14" MIN. AND 8" THICK MINIMUM IN BRICK VENTERS. MUST EXTEND 2" TO EITHER SIDE OF EXISTING WALL.

3. 2 X 6 GIRDER UNLESS NOTED OTHERWISE.

4. ALL 2 X 6 GIRDER UNLESS NOTED OTHERWISE.

5. ALL 2 X 6 GIRDER UNLESS NOTED OTHERWISE.

6. ALL 2 X 6 GIRDER UNLESS NOTED OTHERWISE.

7. ALL 2 X 6 GIRDER UNLESS NOTED OTHERWISE.

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10. ALL 2 X 6 GIRDER UNLESS NOTED OTHERWISE.

11. ALL 2 X 6 GIRDER UNLESS NOTED OTHERWISE.

12. ALL 2 X 6 GIRDER UNLESS NOTED OTHERWISE.

13. ALL 2 X 6 GIRDER UNLESS NOTED OTHERWISE.

14. ALL 2 X 6 GIRDER UNLESS NOTED OTHERWISE.

15. ALL 2 X 6 GIRDER UNLESS NOTED OTHERWISE.

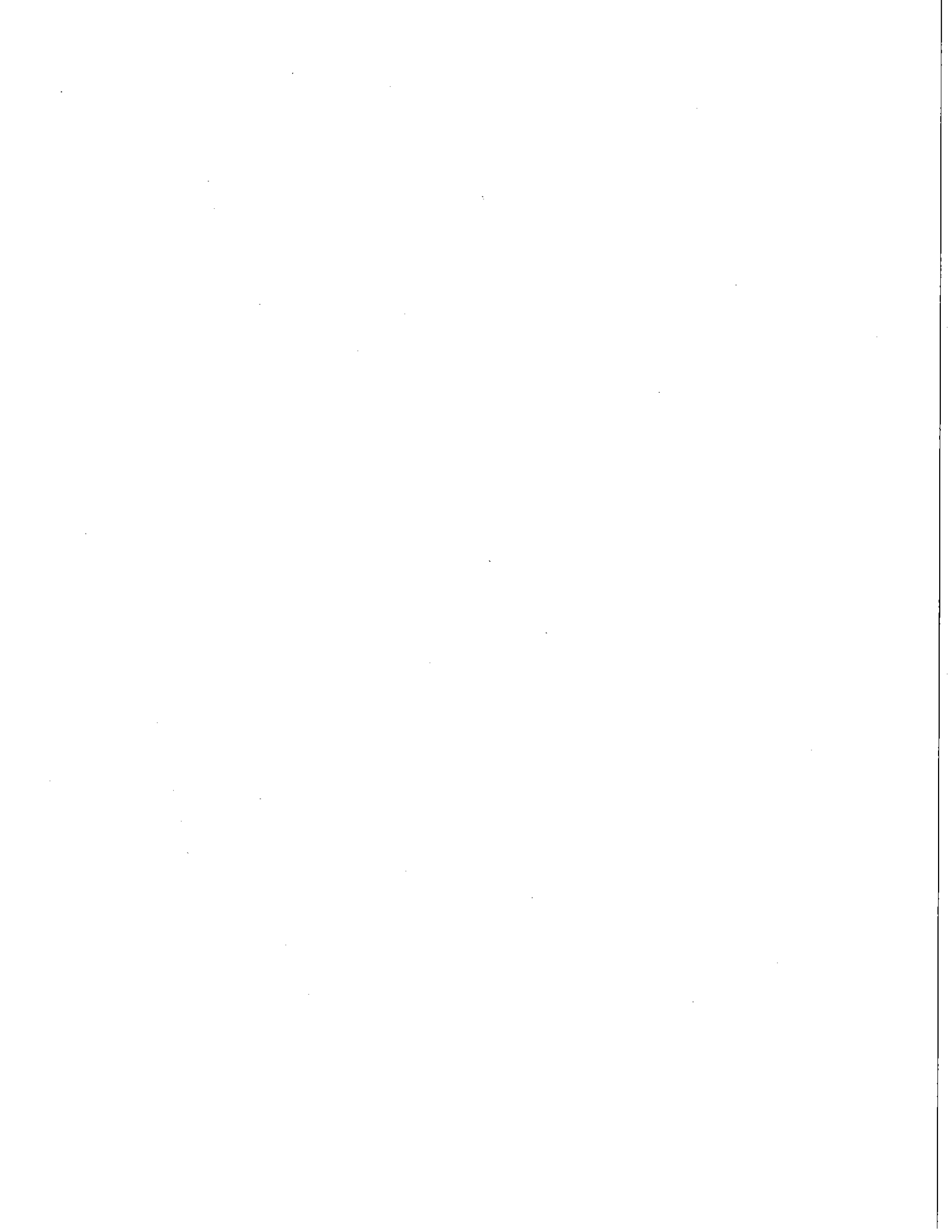
16. ALL 2 X 6 GIRDER UNLESS NOTED OTHERWISE.

17. ALL 2 X 6 GIRDER UNLESS NOTED OTHERWISE.

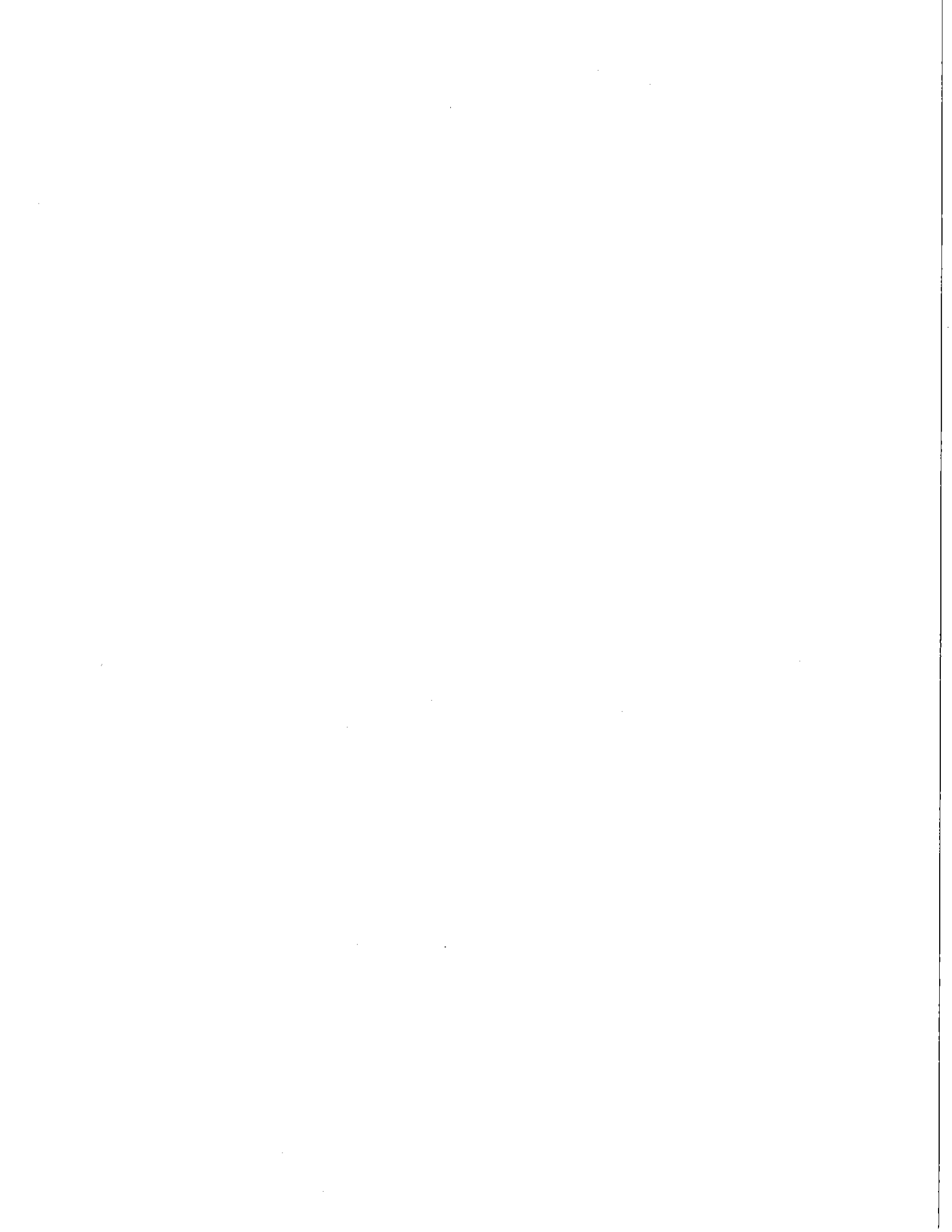
18. ALL 2 X 6 GIRDER UNLESS NOTED OTHERWISE.

19. ALL 2 X 6 GIRDER UNLESS NOTED OTHERWISE.

20. ALL 2 X 6 GIRDER UNLESS NOTED OTHERWISE.

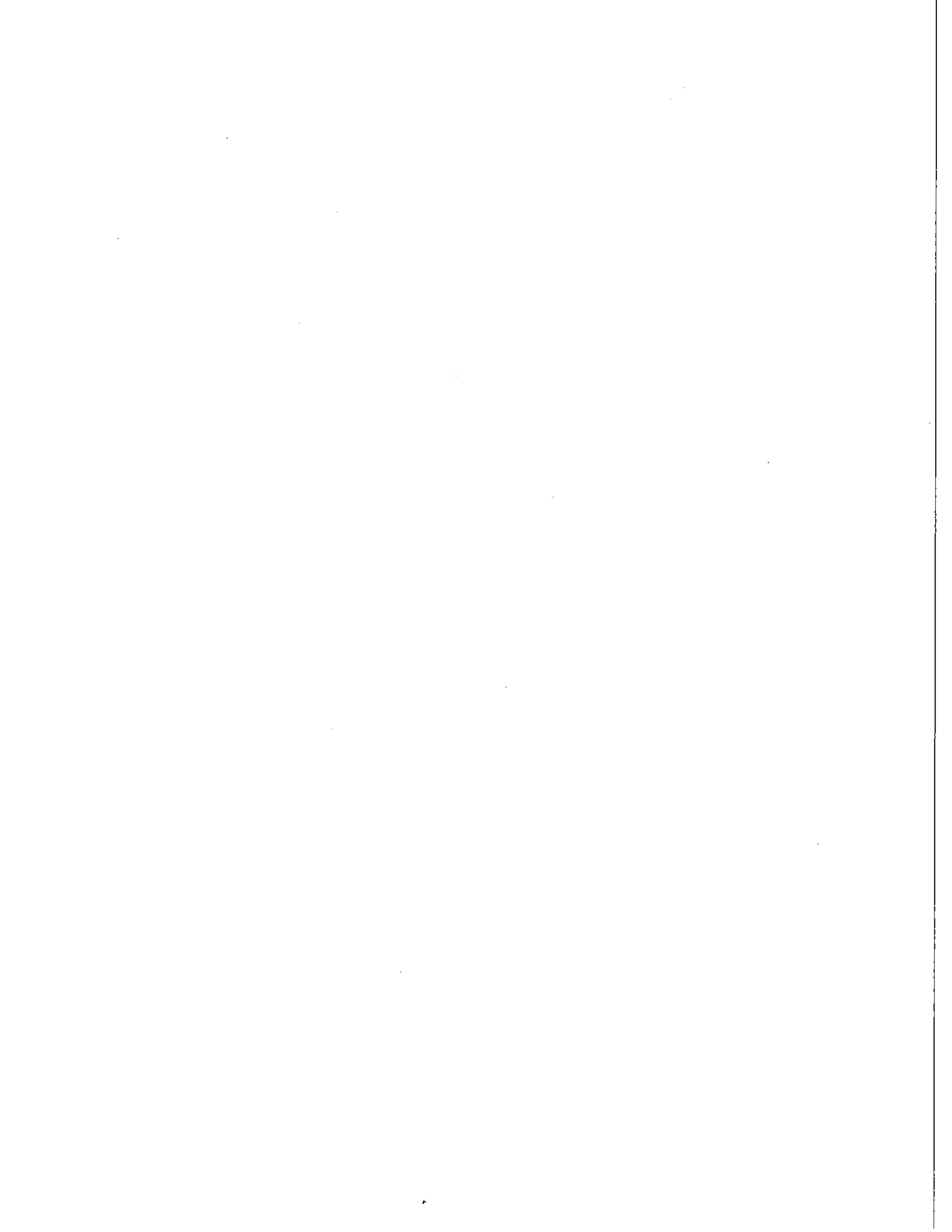




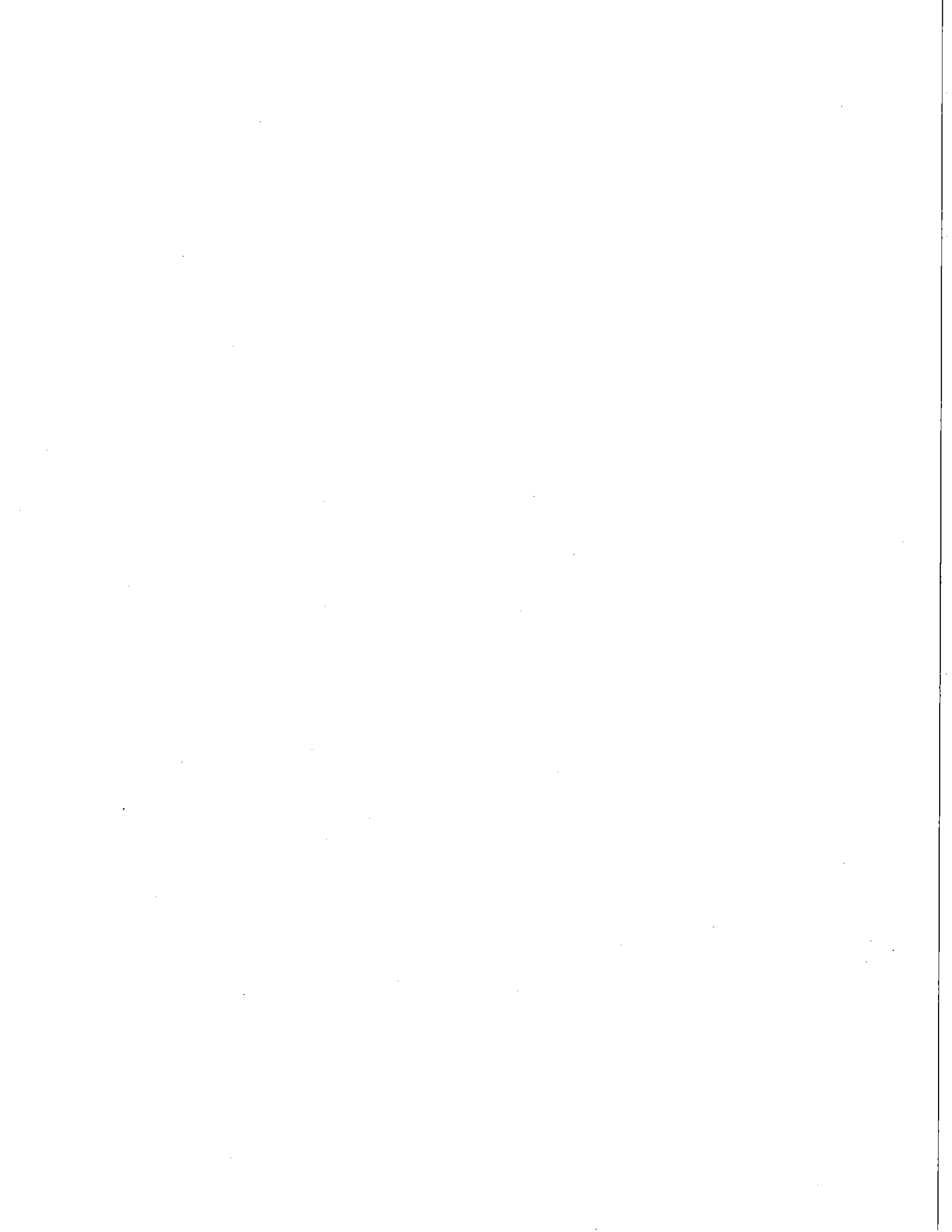












THESE PLANS HAVE BEEN PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF THEY COMPLY WITH ALL CITY, STATE AND FEDERAL REQUIREMENTS AND I AM A LICENSED PROFESSIONAL ARCHITECT IN THE STATE OF CALIFORNIA. I AM NOT PROVIDING CONTRACT ADMINISTRATION SERVICES. THESE PLANS ARE NOT TO BE USED FOR ANY OTHER PROJECT OR IN ANY OTHER JURISDICTION WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. THE ARCHITECT ASSUMES NO LIABILITY FOR DAMAGE TO PERSONS OR PROPERTY CAUSED BY THE USE OF THESE PLANS.

**ROOF PLAN**

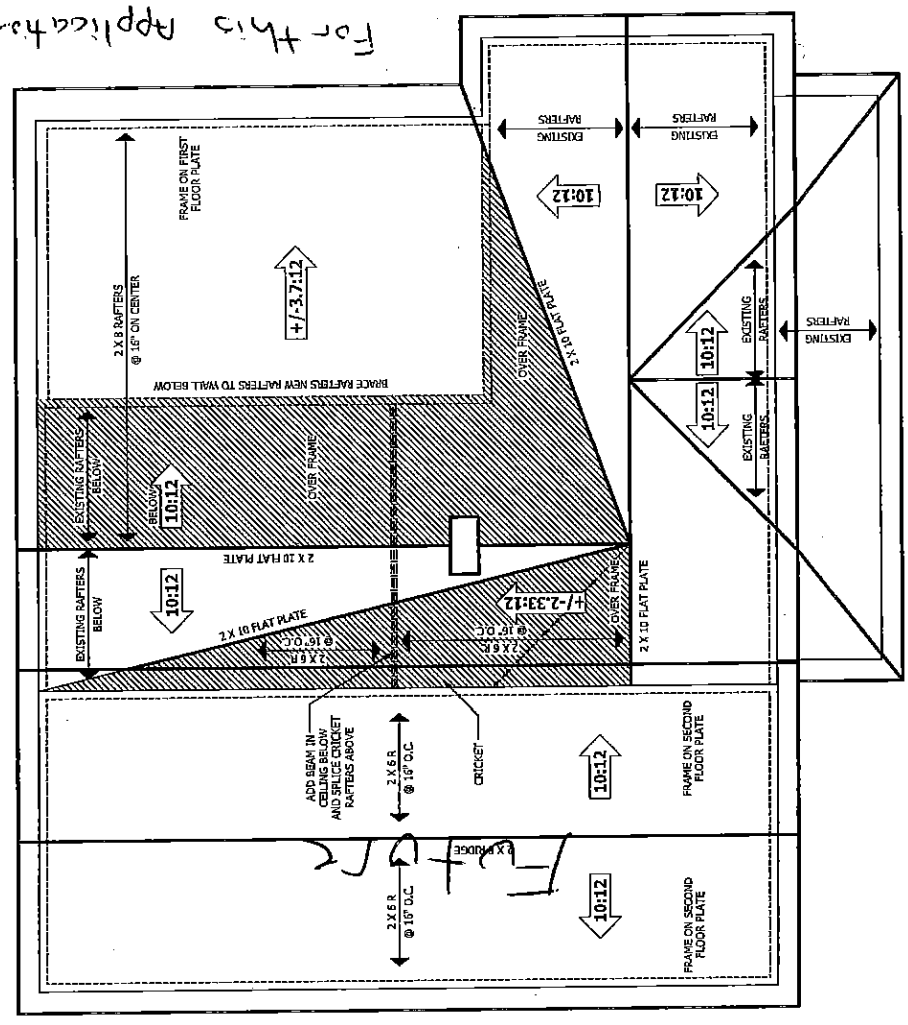
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**FINISH FOOTAGE**  
SQUARE FEET  
COVERED AREA  
UNCOVERED AREA  
TOTAL AREA  
TOTAL PERIMETER  
TOTAL VOLUME

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**ROOF PLAN**  
SCALE 1/4" = 1'-0"

