



Purchaser must verify all dimensions and conditions before beginning construction.

MidTown Designs Inc. assumes no liability for contractors practices and procedures

These drawings are instruments of service and as such shall remain property of the designer

© Copyright 2023

MidTown Designs Inc. All Rights Reserved

THIS PLAN DESIGNED UNDER NORTH CAROLINA
RESIDENTIAL CODE 2018 EDITION (2018 IRC)
NC (2018 NCRC) / Proj. : 115 - 120 mph

CAMDEN GARAGE RIGHT

1/17/2024

PROJECT #
230913



FRONT ELEVATION
SCALE 1/4" = 1'0"

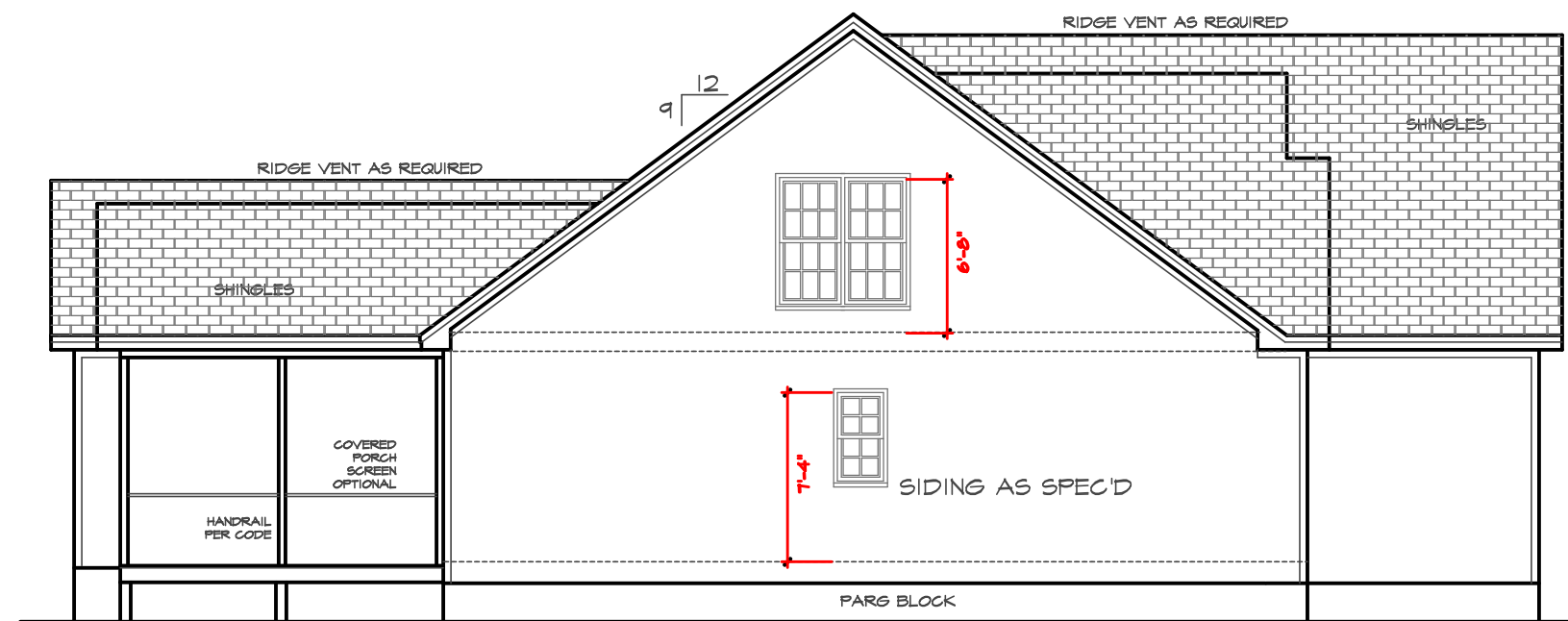


REAR ELEVATION
SCALE 1/8" = 1'0"

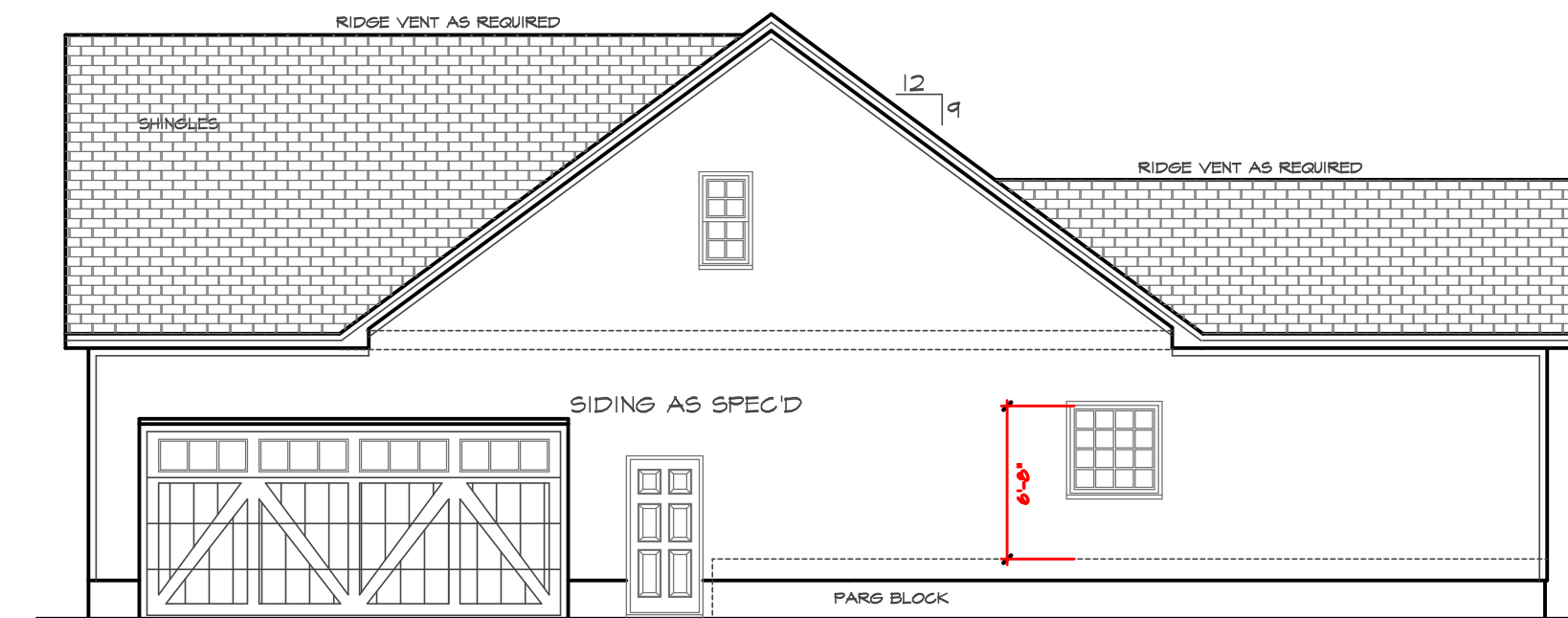
ATTIC VENTILATION:

THE NET FREE VENTILATING AREA SHALL BE NOT LESS THAN 1 TO 150 OF THE AREA OF THE SPACE VENTILATED EXCEPT THAT THE AREA MAY BE 1 TO 500, PROVIDED AT LEAST 50 PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3 FEET ABOVE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION TO BE PROVIDED BY EAVE OR CORNICE VENTS.

GROSS ATTIC AREA TO BE VENTILATED 2341 SQ.FT.
2341/500 = 7.91 SQ.FT. NET FREE AREA
50% OF VENTING MUST BE 3FT. ABOVE EAVE OR SOFFIT VENTS.



LEFT SIDE ELEVATION
SCALE 1/8" = 1'0"



RIGHT SIDE ELEVATION
SCALE 1/8" = 1'0"



SCALE 1/4" = 1'-0"

THIS PLAN DESIGNED UNDER NORTH CAROLINA
RESIDENTIAL CODE 2018 EDITION (2018 IRC)

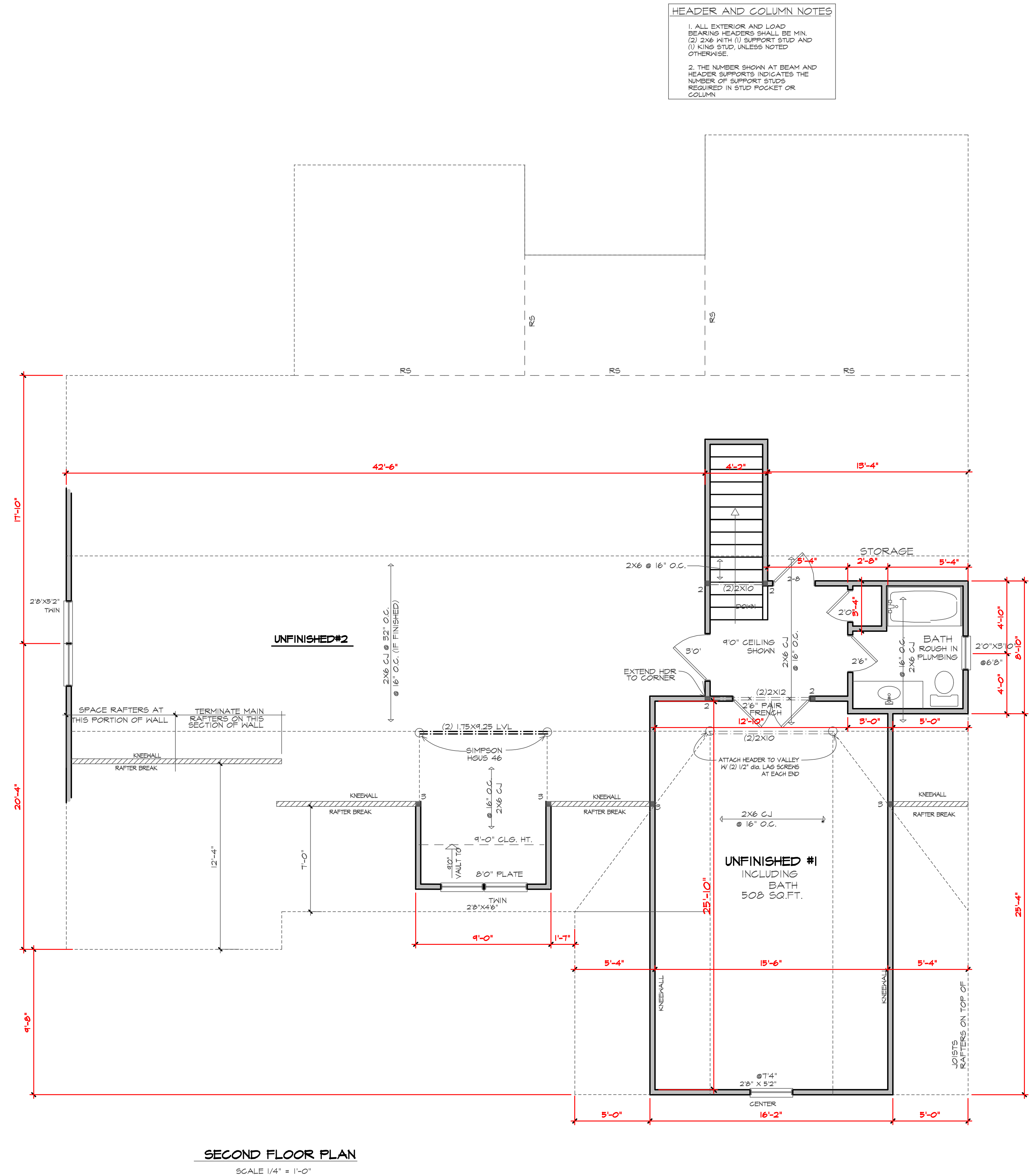
NC (2018 NRC) , Wind - 115 - 120 mph

CAMDEN

GARAGE RIGHT

DATE 1/17/2024

PROJECT #
230913

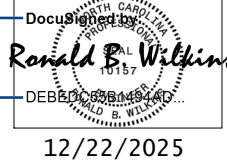


GENERAL FOUNDATION NOTES:

1. THIS PLAN DESIGNED IN ACCORDANCE WITH THE NORTH CAROLINA RESIDENTIAL BUILDING CODE, 2018 EDITION.
2. EXTERIOR WALL FOOTING TO BE A MINIMUM OF 16" WIDE AND CONSTRUCTED WITH 3000 PSI CONCRETE. FOR FOUNDATION WALL HEIGHT, THICKNESS AND BACKFILL REQUIREMENTS REFER TO STATE AND LOCAL BUILDING CODES. THE ASSUMED SOIL BEARING CAPACITY FOR THIS PROJECT IS 2000 PSF. THE CONTRACTOR MUST VERIFY THE SITE CONDITIONS AND CONTACT A SOILS ENGINEER IF MARGINAL OR UNSTABLE SOILS ARE ENCOUNTERED.
3. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SUB-GRADE A MINIMUM OF 12" BELOW ADJACENT FINISHED GRADE OR AS OTHERWISE DIRECTED BY THE LOCAL INSPECTOR.
4. FOUNDATION DRAINAGE SHALL BE IN ACCORDANCE WITH SECTION R405 "FOUNDATION DRAINAGE" AND SECTION R406 "FOUNDATION WATERPROOFING AND DAMPPROOFING".
5. ANCHOR BOLTS SHALL BE 1/2" DIAMETER AND INSTALLED AT 12" ON CENTER AND 12" FROM EACH CORNER OR SILL PLATE SPICE LOCATIONS.

STRUCTURAL EVALUATION BY:

WILKINS ENGINEERING, P.C.
Post Office Box 37446
Raleigh, North Carolina 27627



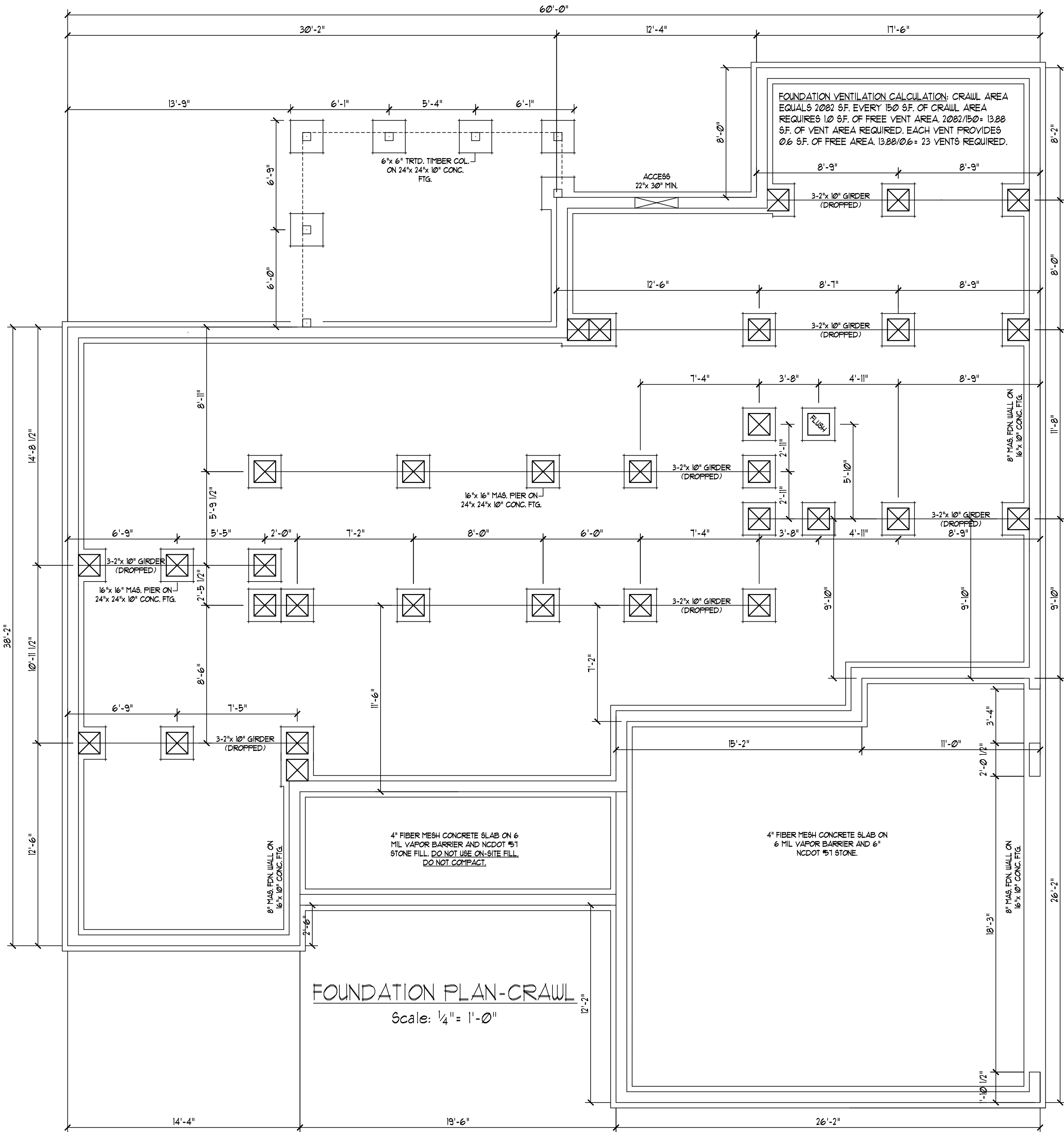
12/22/2025

FILE: CAMDEN REV.

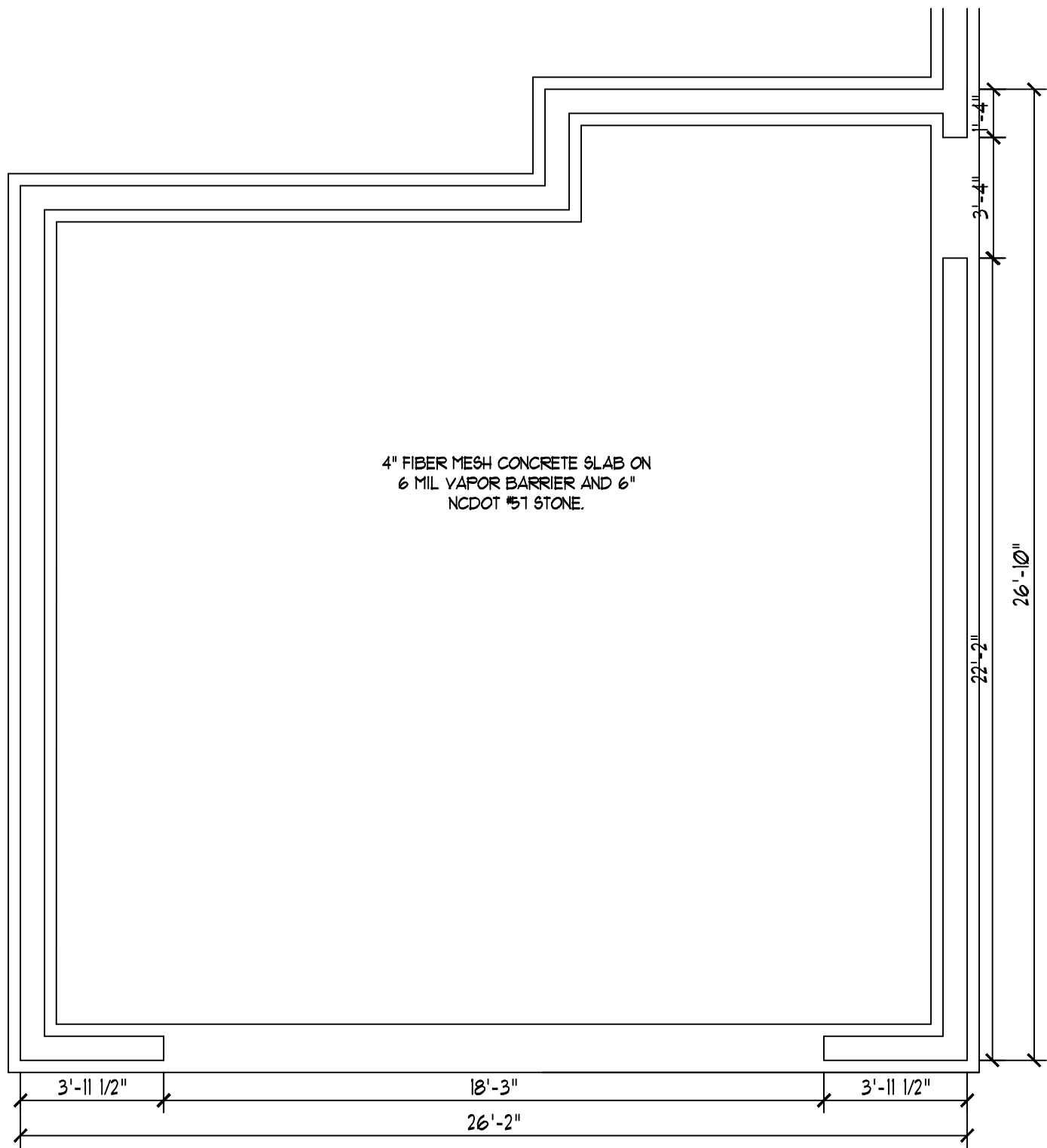
*THE ENGINEER'S SEAL AND SIGNATURE APPLY ONLY TO THE STRUCTURAL ELEMENTS OF THIS DOCUMENT. ENGINEER'S APPROVAL DOES NOT INCLUDE CONSTRUCTION REVIEW, MEANS, METHODS, TECHNIQUES OR SEQUENCES OF CONSTRUCTION OR SAFETY REQUIREMENTS. THE CONTRACTOR IS REQUIRED TO ENSURE PROPER SAFETY PRECAUTIONS.

*ANY DEVIATIONS OR DISCREPANCIES IN THESE DRAWINGS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER AND FAILURE TO DO SO WILL VOID THE ENGINEER'S LIABILITY. CHANGES TO THE DESIGN ARE ONLY ALLOWED WITH THE WRITTEN APPROVAL OF THE ENGINEER.

*DO NOT SCALE THESE DRAWINGS. ENGINEERING APPROVAL EXPIRES ONE YEAR FROM THE DATE OF THE ENGINEER'S SIGNATURE ABOVE.



FOUNDATION VENTILATION CALCULATION: CRAWL AREA EQUALS 2082 SF. EVERY 150 SF. OF CRAWL AREA REQUIRES 10 SF. OF FREE VENT AREA. 2082/150 = 13.88 SF. OF VENT AREA REQUIRED. EACH VENT PROVIDES 0.6 SF. OF FREE AREA. 13.88/0.6 = 23 VENTS REQUIRED.



FRONT LOAD OPTION

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

WILKINS ENGINEERING
Post Office Box 37446
Raleigh, NC 27627

GREYLAND CONST.
"THE CAMDEN PLAN"

Sheet No.

S1

COPYRIGHT 2020 WILKINS ENGINEERING, P.C.
THESE DRAWINGS ARE PROTECTED UNDER FEDERAL COPYRIGHT LAWS. THE ORIGINAL PURCHASER OF THESE DRAWINGS IS GRANTED THE RIGHT TO USE THEM FOR THE CONSTRUCTION OF THE PROJECT ONLY. ANY REUSE, REPRODUCTION, MODIFICATION, OR REUSE OF THESE DRAWINGS WITHOUT THE WRITTEN CONSENT OF THE ENGINEER IS EXPRESSLY PROHIBITED.

DO NOT SCALE THESE DRAWINGS
ALL DIMENSIONS AND SITE DIMENSIONS ARE TO BE VERIFIED BEFORE CONSTRUCTION BEGINS. SHOULD ANY DISCREPANCIES OR OMISSIONS BE NOTED, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY. THESE DRAWINGS APPLY TO SPECIFIC ELEMENTS ONLY. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR CODE COMPLIANCE OF NON-STRUCTURAL ITEMS.

wilkinsonrasci.com

919.172.3540

GENERAL NOTES:

1. THIS PLAN IS DESIGNED IN ACCORDANCE WITH THE NORTH CAROLINA RESIDENTIAL BUILDING CODE, 2018 EDITION.
2. WALL CLADDING IS DESIGNED FOR A POSITIVE/NEGATIVE PRESSURE OF NOT LESS THAN 241 PSF.
3. ROOF CLADDING DESIGN VALUES (POSITIVE/NEGATIVE) SHALL BE AS FOLLOWS:
45.5 PSF FOR ROOF PITCHES FROM 0/12 TO 2/25/12
34.5 PSF FOR ROOF PITCHES FROM 2/25/12 TO 1/12
21.0 PSF FOR ROOF PITCHES FROM 1/12 TO 12/12
MEAN ROOF HEIGHT FOR THIS STRUCTURE IS 18'
4. ALL WALLS, CEILINGS, AND FLOORS SHALL BE INSULATED IN ACCORDANCE WITH PART IV, ENERGY CONSERVATION, CHAPTER II, ENERGY EFFICIENCY OF THE CODE FOR ZONE 4A (TABLE N1002.1).
5. DESIGN CRITERIA IS AS FOLLOWS:

	DEAD LOAD (PSF)	LIVE LOAD (PSF)
PRIMARY FLOOR	10	40
SECONDARY FLOOR	10	40
SLEEPING AREAS	10	40
ATTIC (W/ STAIRS)	10	30
ATTIC (W/O STAIRS)	10	20
ROOF	10	20

WIND LOADING IS BASED ON 3 SECOND GUST OF 115 MILES PER HOUR
LIVE LOAD DEFLECTION LIMITS (LIVE LOAD) ARE 1/360 FOR FLOORS, 1/240 FOR ROOF
6. ALL HEADERS IN LOAD BEARING WALL SHALL BE 2-2"x 10" UNLESS NOTED OTHERWISE.
FULL HEIGHT KING STUDS SHALL BE INSTALLED ON EACH SIDE OF EXTERIOR WALL HEADERS AND BEAMS AS FOLLOWS:

HEADER SPAN	STUDS @ 16" O.C.	STUDS @ 24" O.C.
3'-0"	1	
4'-0"	2	1
8'-0"	3	2
12'-0"	5	3
16'-0"	6	4

7. ALL LUMBER USED FOR JOISTS AND RAFTERS SHALL BE #2 SFF OR BETTER LUMBER
USED FOR STUD WALL SHALL BE #2 SFF OR BETTER. DOUBLE FLOOR JOISTS SHALL BE
INSTALLED UNDER INTERIOR WALLS RUNNING PARALLEL WITH THE FLOOR JOISTS.

8. LVL SHALL BE LAMINATED VENEER LUMBER OR PARALLEL STRAND LUMBER WITH THE
FOLLOWING MINIMUM PROPERTIES: Fb=2800 PSI, Fv=1285 PSI, E=1,000,000 PSI. MULTIPLE
LVL PLIES CAN BE USED TO ACHIEVE THE SPECIFIED SIZE SHOWN ON THESE PLANS AND
IS CONSIDERED TO BE STRUCTURALLY EQUIVALENT.
9. THE FOLLOWING SHALL APPLY TO ALL BRACED WALL LINES:
ALL EXTERIOR WALLS SHALL BE CONTINUOUSLY SHEATHED WITH 1/2" OSB OR CDX USP
SHALL BE IN ACCORDANCE WITH R-602.10.3 AND SHALL BE COVERED WITH 1/2" GYP/UM
BOARD ON THE INTERIOR FACE. ALL USP PANELS SHALL BE FASTENED WITH 8d NAILS AT
12" ON CENTER (FIELD) AND 6" ON CENTER (EDGES). ALL EXTERIOR WALLS SHALL BE 2"x
4" AT 16" ON CENTER AS A MINIMUM (EXCEPT FOR BALLOON FRAMED WALL SECTIONS AS
NOTED) AND CONTINUOUSLY SHEATHED.

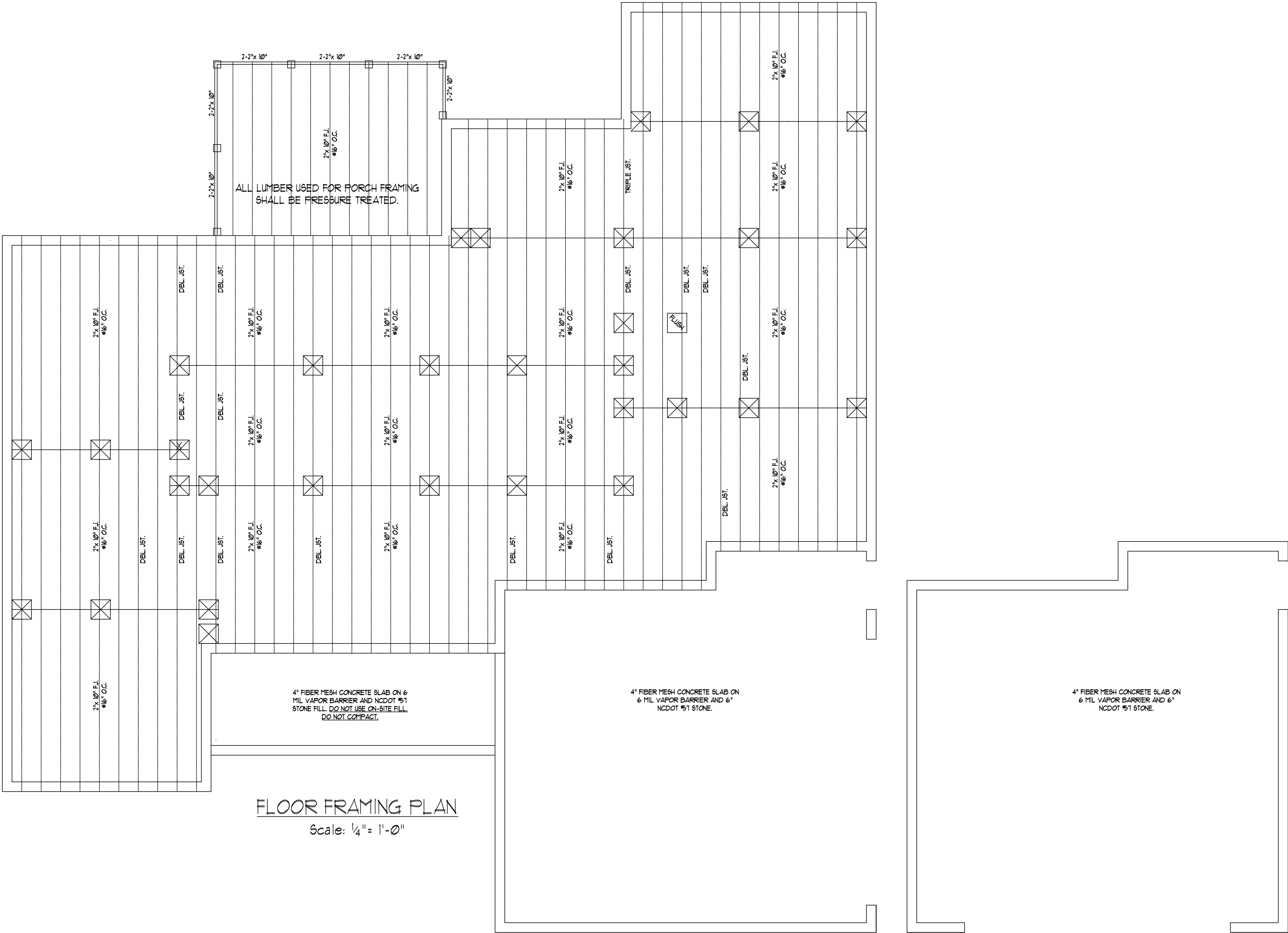
STRUCTURAL EVALUATION BY:

WILKINS ENGINEERING, P.C.
Post Office Box 31446
Raleigh, North Carolina 27621



FILE: CAMDEN REV. 12/22/2025

*THE ENGINEER'S SEAL AND SIGNATURE APPLY ONLY TO THE STRUCTURAL ELEMENTS OF
THIS DOCUMENT. ENGINEER'S APPROVAL DOES NOT INCLUDE CONSTRUCTION REVIEW,
MEANS, METHODS, TECHNIQUES OR SEQUENCES OF CONSTRUCTION OR SAFETY
REQUIREMENTS. THE CONTRACTOR IS REQUIRED TO ENSURE PROPER SAFETY
PRECAUTIONS.
*ANY DEVIATIONS OR DISCREPANCIES IN THESE DRAWINGS ARE TO BE BROUGHT TO THE
IMMEDIATE ATTENTION OF THE ENGINEER AND FAILURE TO DO SO WILL VOID THE
ENGINEER'S LIABILITY. CHANGES TO THE DESIGN ARE ONLY ALLOWED WITH THE WRITTEN
APPROVAL OF THE ENGINEER.
*DO NOT SCALE THESE DRAWINGS. ENGINEERING APPROVAL EXPIRES ONE YEAR FROM
THE DATE OF THE ENGINEER'S SIGNATURE ABOVE.



FLOOR FRAMING PLAN

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

FRONT LOAD OPTION

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

WILKINS ENGINEERING
Post Office Box 31446
Raleigh, NC 27621

wilksengr@aol.com

919.771.3540

GREYLAND CONST.
"THE CAMDEN PLAN"

Sheet No.

S2

DO NOT SCALE THESE DRAWINGS

ALL DIMENSIONS AND SITE DIMENSIONS ARE TO BE
AS SHOWN ON THESE DRAWINGS. THE ENGINEER
TAKES NO RESPONSIBILITY FOR ANY DISCREPANCIES
BETWEEN THESE DRAWINGS AND THE FIELD. THE
BUILDER AGREES TO NOTIFY THE ENGINEER IMMEDIATELY.
THESE DRAWINGS APPLY TO STRUCTURAL ELEMENTS ONLY.
THE ENGINEER ASSUMES NO RESPONSIBILITY FOR CODE
COMPLIANCE OF NON-STRUCTURAL ITEMS.

COPYRIGHT 2020 WILKINS ENGINEERING, P.C.

THESE DRAWINGS ARE PROTECTED UNDER FEDERAL
LAW. ANY REPRODUCTION OR DISSEMINATION OF
THESE DRAWINGS IS LICENSED TO USE THE PLANS FOR
THE CONSTRUCTION OF ONE AND ONLY ONE SINGLE
FAMILY HOME. REPRODUCTION, MODIFICATION, OR
REUSE OF THESE DRAWINGS WITHOUT THE WRITTEN
CONSENT OF THE ENGINEER IS EXPRESSLY
PROHIBITED.

GENERAL NOTES:
1. THIS PLAN IS DESIGNED IN ACCORDANCE WITH THE NORTH CAROLINA RESIDENTIAL BUILDING CODE, 2018 EDITION.
2. WALL CLADDING IS DESIGNED FOR A POSITIVE/NEGATIVE PRESSURE OF NOT LESS THAN 241 PSF.
3. ROOF CLADDING DESIGN VALUES (POSITIVE/NEGATIVE) SHALL BE AS FOLLOWS:
45.5 PSF FOR ROOF PITCHES FROM 0/12 TO 2/25/12
34.5 PSF FOR ROOF PITCHES FROM 2/25/12 TO 1/12
21.0 PSF FOR ROOF PITCHES FROM 1/12 TO 12/12
MEAN ROOF HEIGHT FOR THIS STRUCTURE IS 18'
4. ALL WALLS, CEILINGS, AND FLOORS SHALL BE INSULATED IN ACCORDANCE WITH PART IV, ENERGY CONSERVATION, CHAPTER II, ENERGY EFFICIENCY OF THE CODE FOR ZONE 4A (TABLE N10(2)).
5. DESIGN CRITERIA IS AS FOLLOWS:

	DEAD LOAD (PSF)	LIVE LOAD (PSF)
PRIMARY FLOOR	10	40
SECONDARY FLOOR	10	40
SLEEPING AREAS	10	40
ATTIC (W/ STAIRS)	10	30
ATTIC (W/O STAIRS)	10	20
ROOF	10	20

WIND LOADING IS BASED ON 3 SECOND GUST OF 115 MILES PER HOUR
LIVE LOAD DEFLECTION LIMITS (LIVE LOAD) ARE L/360 FOR FLOORS, L/240 FOR ROOF
6. ALL HEADERS IN LOAD BEARING WALL SHALL BE 2-2"x 10" UNLESS NOTED OTHERWISE.
FULL HEIGHT KING STUDS SHALL BE INSTALLED ON EACH SIDE OF EXTERIOR WALL HEADERS AND BEAMS AS FOLLOWS:

HEADER SPAN	STUDS @ 16" O.C.	STUDS @ 24" O.C.
3'-0"	1	
4'-0"	2	1
8'-0"	3	2
12'-0"	5	3
16'-0"	6	4

7. ALL LUMBER USED FOR JOISTS AND RAFTERS SHALL BE #2 SFF OR BETTER LUMBER USED FOR STUD WALL SHALL BE #2 SFF OR BETTER. DOUBLE FLOOR JOISTS SHALL BE INSTALLED UNDER INTERIOR WALLS RUNNING PARALLEL WITH THE FLOOR JOISTS.

8. LVL SHALL BE LAMINATED VENEER LUMBER OR PARALLEL STRAND LUMBER WITH THE FOLLOWING MINIMUM PROPERTIES: Fb=2800 PSI, Fv=1285 PSI, E=1,000,000 PSI. MULTIPLE LVL PLIES CAN BE USED TO ACHIEVE THE SPECIFIED SIZE SHOWN ON THESE PLANS AND IS CONSIDERED TO BE STRUCTURALLY EQUIVALENT.
9. THE FOLLOWING SHALL APPLY TO ALL BRACED WALL LINES:
ALL EXTERIOR WALLS SHALL BE CONTINUOUSLY SHEATHED WITH 1/2" OSB OR CDX 1/8P SHALL BE IN ACCORDANCE WITH R-602.10.3 AND SHALL BE COVERED WITH 1/2" GYPSUM BOARD ON THE INTERIOR FACE. ALL 1/8P PANELS SHALL BE FASTENED WITH 8d NAILS AT 12" ON CENTER (FIELD) AND 6" ON CENTER (EDGES). ALL EXTERIOR WALLS SHALL BE 2"x 4" AT 16" ON CENTER AS A MINIMUM (EXCEPT FOR BALLOON FRAMED WALL SECTIONS AS NOTED) AND CONTINUOUSLY SHEATHED.

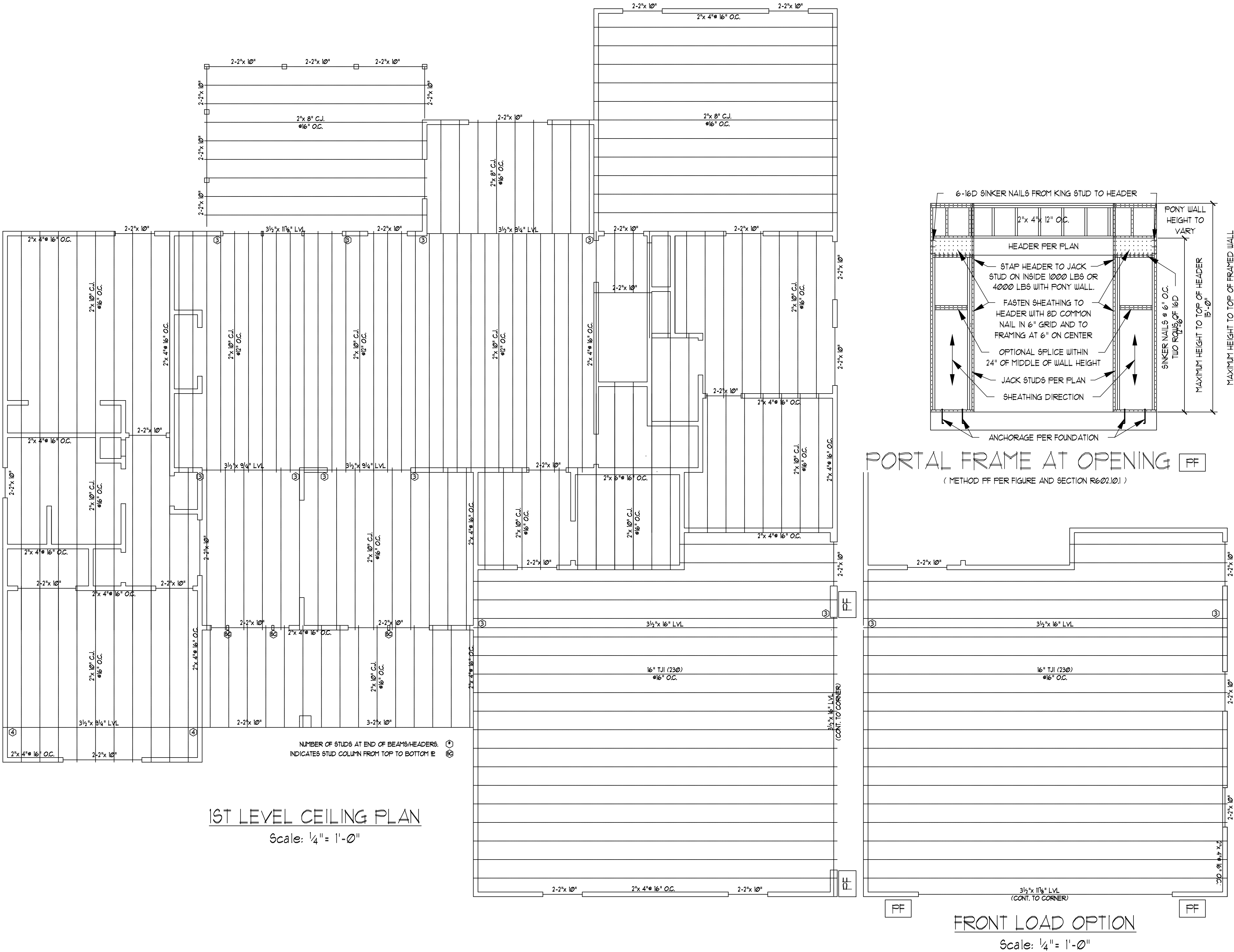
STRUCTURAL EVALUATION BY:

WILKINS ENGINEERING, P.C.
Post Office Box 31446
Raleigh, North Carolina 27621



FILE: CAMDEN REV. 12/22/2025

*THE ENGINEER'S SEAL AND SIGNATURE APPLY ONLY TO THE STRUCTURAL ELEMENTS OF THIS DOCUMENT; ENGINEER'S APPROVAL DOES NOT INCLUDE CONSTRUCTION REVIEW, MEANS, METHODS, TECHNIQUES OR SEQUENCES OF CONSTRUCTION OR SAFETY REQUIREMENTS. THE CONTRACTOR IS REQUIRED TO ENSURE PROPER SAFETY PRECAUTIONS.
*ANY DEVIATIONS OR DISCREPANCIES IN THESE DRAWINGS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER AND FAILURE TO DO SO WILL VOID THE ENGINEER'S LIABILITY. CHANGES TO THE DESIGN ARE ONLY ALLOWED WITH THE WRITTEN APPROVAL OF THE ENGINEER.
*DO NOT SCALE THESE DRAWINGS. ENGINEERING APPROVAL EXPIRES ONE YEAR FROM THE DATE OF THE ENGINEER'S SIGNATURE ABOVE.



GENERAL NOTES:

THIS PLAN IS DESIGNED IN ACCORDANCE WITH THE NORTH CAROLINA RESIDENTIAL BUILDING CODE, 2018 EDITION.

2. WALL CLADDING IS DESIGNED FOR A POSITIVE/NEGATIVE PRESSURE OF NOT LESS THAN 24.1 PSF.

3. ROOF CLADDING DESIGN VALUES (POSITIVE/NEGATIVE) SHALL BE AS FOLLOWS:

45.5 PSF FOR ROOF PITCHES FROM 0/12 TO 2.25/12

34.5 PSF FOR ROOF PITCHES FROM 225/12 TO 7/12

21/0 PSF FOR ROOF PITCHES FROM 1/2 TO 12/12

MEAN ROOF HEIGHT FOR THIS STRUCTURE IS 18'

4. ALL WALLS, CEILINGS, AND FLOORS SHALL BE INSULATED IN ACCORDANCE WITH PART IV, ENERGY CONSERVATION, CHAPTER 11, ENERGY EFFICIENCY OF THE CODE FOR ZONE 4A (TABLE N101.2.)

5. DESIGN CRITERIA IS AS FOLLOWS:

	DEAD LOAD (P&F)	LIVE LOAD (P&F)
PRIMARY FLOOR	10	40
SECONDARY FLOOR	10	40
SLEEPING AREAS	10	40
ATTIC (W/ STAIRS)	10	30
ATTIC (W/O STAIRS)	10	20
ROOF	10	20

WIND LOADING IS BASED ON 3 SECOND GUST OF 115 MILES PER HOUR

LIVE LOAD REFLECTION LIMITS (LIVE LOAD) ARE 1/360 FOR FLOORS, 1/240 FOR ROOF

6. ALL HEADERS IN LOAD BEARING WALL SHALL BE 2-2"x 10" UNLESS NOTED OTHERWISE. FULL HEIGHT KING STUDS SHALL BE INSTALLED ON EACH SIDE OF EXTERIOR WALL.

HEADERS AND BEAMS AS FOLLOWS:

HEADER SPAN	STUDS @ 16" O.C.	STUDS @ 24" O.C.
3'-0"	1	1
4'-0"	2	1
8'-0"	3	2
12'-0"	5	3
16'-0"	6	4

7. ALL LUMBER USED FOR JOISTS AND RAFTERS SHALL BE #2 SFF OR BETTER LUMBER USED FOR STUD WALL SHALL BE #3 SFF OR BETTER DOUBLE FLOOR JOISTS SHALL BE INSTALLED UNDER INTERIOR WALLS RUNNING PARALLEL WITH THE FLOOR JOISTS.

8. LVL SHALL BE LAMINATED VENEER LUMBER OR PARALLEL STRAND LUMBER WITH THE FOLLOWING MINIMUM PROPERTIES: $F_b=2800$ PSI, $F_v=285$ PSI, $E=2,000,000$ PSI. MULTIPLE LVL PLIES CAN BE USED TO ACHIEVE THE SPECIFIED SIZE SHOWN ON THESE PLANS AND IS CONSIDERED TO BE STRUCTURALLY EQUIVALENT.

9. THE FOLLOWING SHALL APPLY TO ALL BRACED WALL LINES:

ALL EXTERIOR WALLS SHALL BE CONTINUOUSLY SHEATHED WITH 1/2" OSB OR CDX. WSP SHALL BE IN ACCORDANCE WITH R-602.103 AND SHALL BE COVERED WITH 1/2" GYPSUM BOARD ON THE INTERIOR FACE. ALL WSP PANELS SHALL BE FASTENED WITH 8d NAILS AT 12" ON CENTER (FIELD) AND 6" ON CENTER (EDGES). ALL EXTERIOR WALLS SHALL BE 2"x4" AT 16" ON CENTER AS A MINIMUM (EXCEPT FOR BALLOON FRAMED WALL SECTIONS AS NOTED) AND CONTINUOUSLY SHEATHED.

STRUCTURAL EVALUATION BY:

WILKINS ENGINEERING, P.C.
Post Office Box 37446
Raleigh, North Carolina 27621

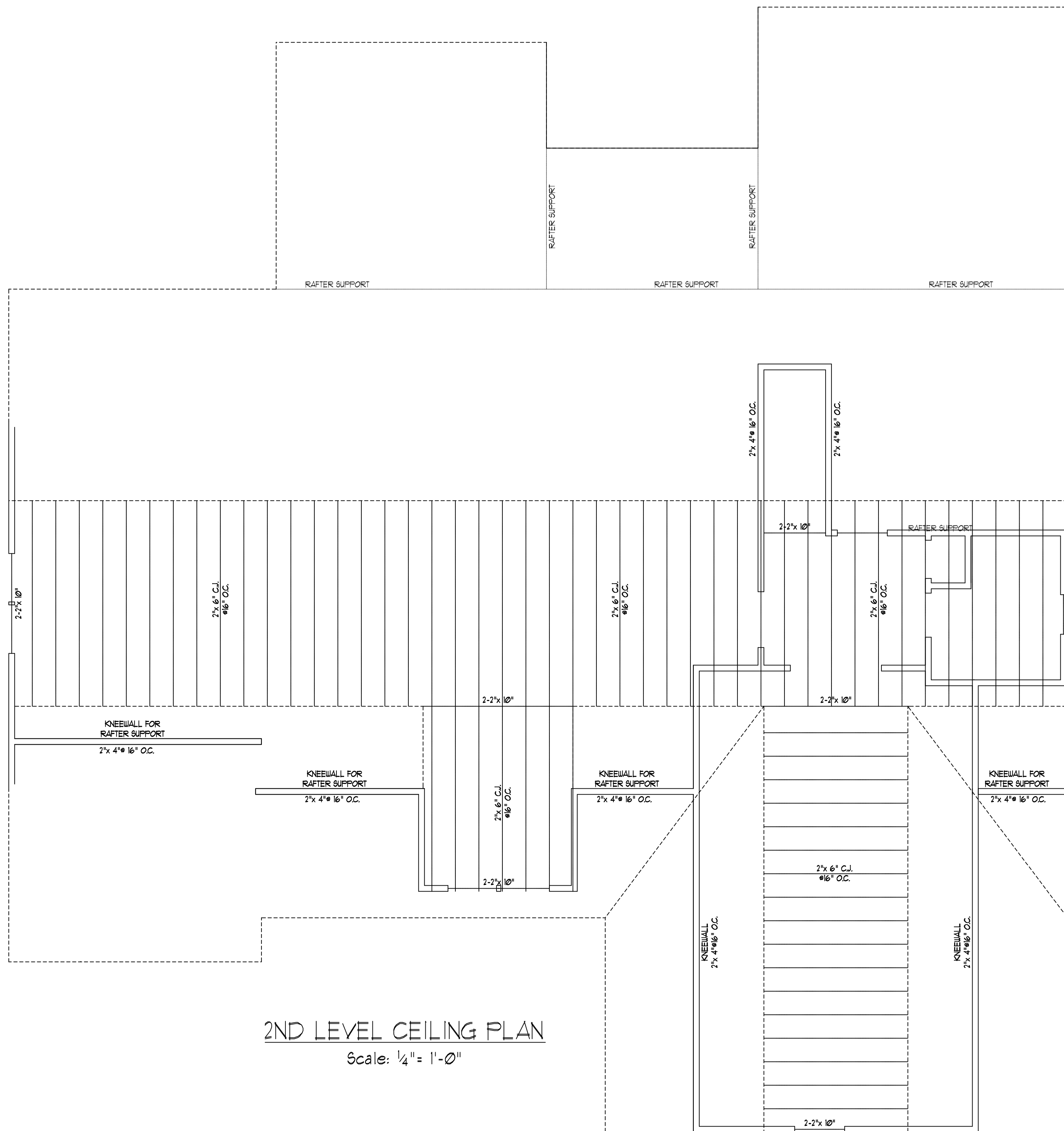
FILE: CAMDEN REV.

12/22/2025

*THE ENGINEER'S SEAL AND SIGNATURE APPLY ONLY TO THE STRUCTURAL ELEMENTS OF THIS DOCUMENT. ENGINEER'S APPROVAL DOES NOT INCLUDE CONSTRUCTION REVIEW, MEANS, METHODS, TECHNIQUES OR SEQUENCES OF CONSTRUCTION OR SAFETY REQUIREMENTS. THE CONTRACTOR IS REQUIRED TO ENSURE PROPER SAFETY PRECAUTIONS.

ANY DEVIATIONS OR DISCREPANCIES IN THESE DRAWINGS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER AND FAILURE TO DO SO WILL VOID THE ENGINEER'S LIABILITY. CHANGES TO THE DESIGN ARE ONLY ALLOWED WITH THE WRITTEN APPROVAL OF THE ENGINEER

*DO NOT SCALE THESE DRAWINGS. ENGINEERING APPROVAL EXPIRES ONE YEAR FROM THE DATE OF THE ENGINEER'S SIGNATURE ABOVE.



2ND LEVEL CEILING PLAN

Scale: $\frac{1}{4}" = 1'-0"$

DO NOT SCALE THESE DRAWINGS

ALL DIMENSIONS AND SITE DIMENSIONS ARE TO BE VERIFIED BEFORE CONSTRUCTION BEGINS. SHOULD ANY DISCREPANCIES OR OMISSIONS BE NOTED, THE BUILDER AGREES TO NOTIFY THE ENGINEER IMMEDIATELY. THESE DRAWINGS APPLY TO STRUCTURAL ELEMENTS ONLY. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR CODE COMPLIANCE OF NON-STRUCTURAL ITEMS.

COPYRIGHT 2020 WILKINS ENGINEERING, P.C.

THESE DRAWINGS ARE PROTECTED UNDER FEDERAL COPYRIGHT LAWS. THE ORIGINAL PURCHASER OF THESE DRAWINGS IS LICENSED TO USE THE PLANS FOR THE CONSTRUCTION OF ONE AND ONLY ONE SINGLE FAMILY HOME. REPRODUCTION, MODIFICATION OR REUSE OF THESE DRAWINGS WITHOUT THE WRITTEN CONSENT OF THE ENGINEER IS EXPRESSLY PROHIBITED.

wilkinseng@aol.com

319.772-3540

WILKINS ENGINEERING
Post Office Box 37446
Raleigh, NC 27627

GREYLAND CONST.
"THE CAMDEN PLAN"

Sheet No.

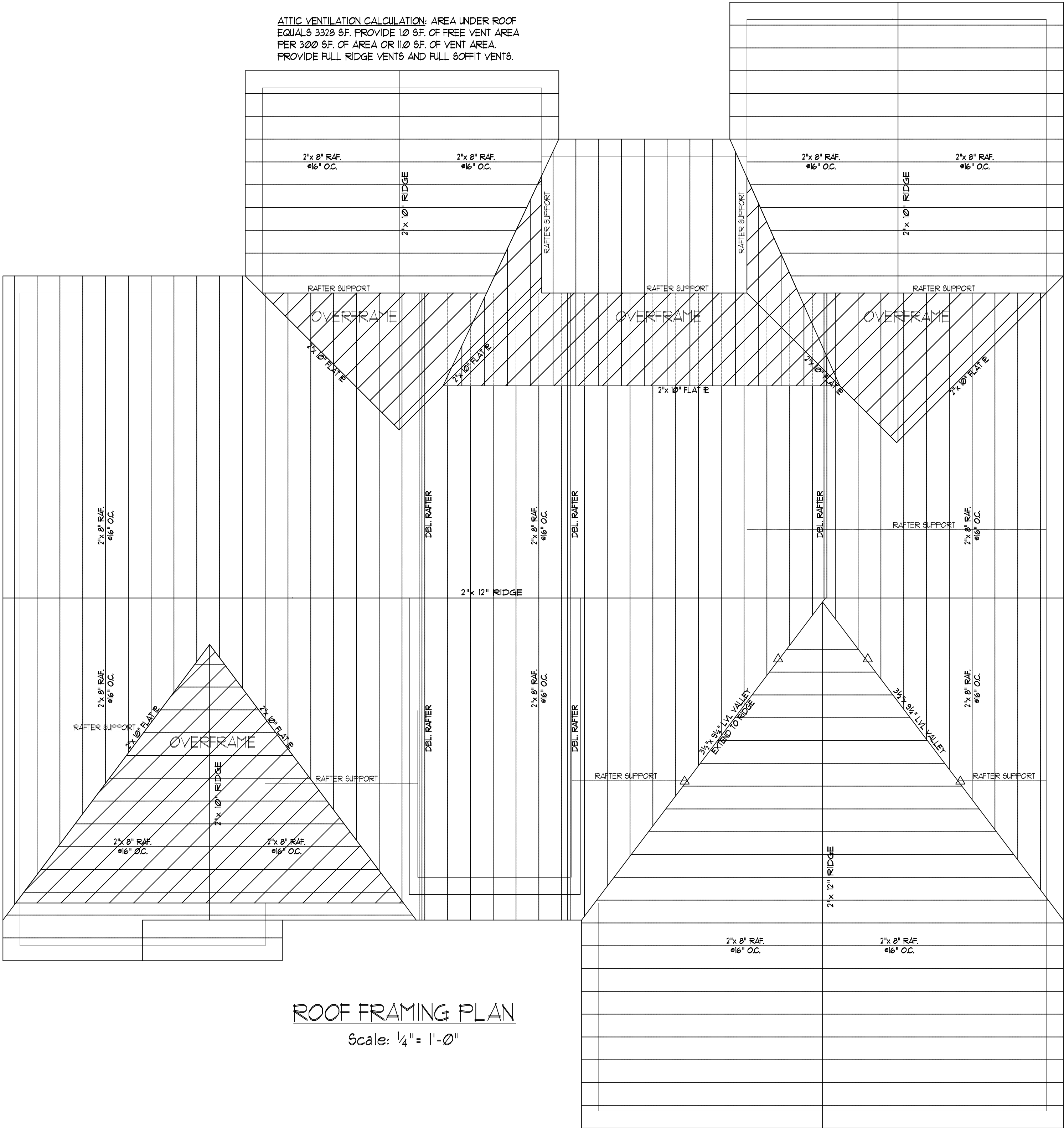
GENERAL ROOF NOTES:

1. THIS PLAN DESIGNED IN ACCORDANCE WITH THE NORTH CAROLINA RESIDENTIAL BUILDING CODE, 2018 EDITION.
2. ROOF CLADDING DESIGN VALUES (POSITIVE/NEGATIVE) SHALL BE AS FOLLOWS:
45.5 PSF FOR ROOF PITCHES FROM 0/12 TO 2.25/12
34.5 PSF FOR ROOF PITCHES FROM 2.25/12 TO 1/12
21.0 PSF FOR ROOF PITCHES FROM 1/12 TO 12/12
MEAN ROOF HEIGHT FOR THIS STRUCTURE IS 10'
3. ALL ROOFING ELEMENTS SHALL MEET THE REQUIREMENTS OF CHAPTER 8 OF THE BUILDING CODE.
4. ALL LUMBER SHALL BE #1 SPF, SYP, OR BETTER.
5. THIS ROOF AND STRUCTURE ARE DESIGNED FOR A DESIGN WIND SPEED OF 115 MPH (THREE SECOND GUST).
6. ROOF TRUSSES (IF USED) SHALL BE DESIGNED BY THE MANUFACTURER AND THE ANALYSIS SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

STRUCTURAL EVALUATION BY:

WILKINS ENGINEERING, P.C.
Post Office Box 31446
Raleigh, North Carolina 27611
12/22/2025

*THE ENGINEER'S SEAL AND SIGNATURE APPLY ONLY TO THE STRUCTURAL ELEMENTS OF THIS DOCUMENT. ENGINEER'S APPROVAL DOES NOT INCLUDE CONSTRUCTION REVIEW, MEANS, METHODS, TECHNIQUES OR SEQUENCES OF CONSTRUCTION OR SAFETY REQUIREMENTS. THE CONTRACTOR IS REQUIRED TO ENSURE PROPER SAFETY PRECAUTIONS.
*ANY DEVIATIONS OR DISCREPANCIES IN THESE DRAWINGS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER AND FAILURE TO DO SO WILL VOID THE ENGINEER'S LIABILITY. CHANGES TO THE DESIGN ARE ONLY ALLOWED WITH THE WRITTEN APPROVAL OF THE ENGINEER.
*DO NOT SCALE THESE DRAWINGS. ENGINEERING APPROVAL EXPIRES ONE YEAR FROM THE DATE OF THE ENGINEER'S SIGNATURE ABOVE.



ROOF FRAMING PLAN
Scale: 1/4" = 1'-0"

DO NOT SCALE THESE DRAWINGS
ALL DIMENSIONS AND SITE DIMENSIONS ARE TO BE VERIFIED BEFORE CONSTRUCTION BEGINS. SHOULD ANY DISCREPANCIES OR OMISSIONS BE NOTED, THE BUILDER AGREES TO NOTIFY THE ENGINEER IMMEDIATELY. THESE DRAWINGS ARE TO BE USED FOR CONSTRUCTION ONLY. THE ENGINEER ASSUMES NO LIABILITY FOR CODE COMPLIANCE OF NON-STRUCTURAL ITEMS.

COPYRIGHT 2020 WILKINS ENGINEERING, P.C.
THESE DRAWINGS ARE PROTECTED UNDER FEDERAL COPYRIGHT LAWS. THE ORIGINAL PURCHASER OF THESE DRAWINGS IS LICENSED TO USE THE PLANS FOR CONSTRUCTION OF THE PROJECT AND FOR SINGLE FAMILY HOME PERSONAL USE ONLY. ANY REUSE, REUSE OF THESE DRAWINGS WITHOUT THE WRITTEN CONSENT OF THE ENGINEER IS EXPRESSLY PROHIBITED.

WILKINS ENGINEERING
Post Office Box 31446
Raleigh, NC 27621
919.712.3540
wilkinsengr@aol.com

GREYLAND CONST.
"THE CAMDEN PLAN"

Sheet No.

SS

GENERAL NOTES:

1. THIS PLAN IS DESIGNED IN ACCORDANCE WITH THE NORTH CAROLINA RESIDENTIAL BUILDING CODE, 2018 EDITION.
2. WALL CLADDING IS DESIGNED FOR A POSITIVE/NEGATIVE PRESSURE OF NOT LESS THAN 241 PSF.
3. ROOF CLADDING DESIGN VALUES (POSITIVE/NEGATIVE) SHALL BE AS FOLLOWS:
45.5 PSF FOR ROOF PITCHES FROM 0/12 TO 2/12
34.5 PSF FOR ROOF PITCHES FROM 2.25/12 TO 1/12
21.0 PSF FOR ROOF PITCHES FROM 1/12 TO 12/12
MEAN ROOF HEIGHT FOR THIS STRUCTURE IS 18'
4. ALL WALLS, CEILINGS, AND FLOORS SHALL BE INSULATED IN ACCORDANCE WITH PART IV, ENERGY CONSERVATION, CHAPTER II, ENERGY EFFICIENCY OF THE CODE FOR ZONE 4A (TABLE N10(2)).
5. DESIGN CRITERIA IS AS FOLLOWS:

	DEAD LOAD (PSF)	LIVE LOAD (PSF)
PRIMARY FLOOR	10	40
SECONDARY FLOOR	10	40
SLEEPING AREAS	10	40
ATTIC (W/ STAIRS)	10	30
ATTIC (W/O STAIRS)	10	20
ROOF	10	20

WIND LOADING IS BASED ON 3 SECOND GUST OF 115 MILES PER HOUR
LIVE LOAD DEFLECTION LIMITS (LIVE LOAD) ARE L/360 FOR FLOORS, L/240 FOR ROOF
6. ALL HEADERS IN LOAD BEARING WALL SHALL BE 2-2"x 10" UNLESS NOTED OTHERWISE.
FULL HEIGHT KING STUDS SHALL BE INSTALLED ON EACH SIDE OF EXTERIOR WALL HEADERS AND BEAMS AS FOLLOWS:

HEADER SPAN	STUDS @ 16" O.C.	STUDS @ 24" O.C.
3'-0"	1	
4'-0"	2	1
8'-0"	3	2
12'-0"	5	3
16'-0"	6	4

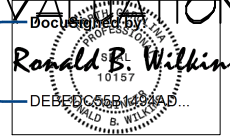
7. ALL LUMBER USED FOR JOISTS AND RAFTERS SHALL BE #2 SFF OR BETTER LUMBER
USED FOR STUD WALL SHALL BE #2 SFF OR BETTER. DOUBLE FLOOR JOISTS SHALL BE INSTALLED UNDER INTERIOR WALLS RUNNING PARALLEL WITH THE FLOOR JOISTS.

8. LVL SHALL BE LAMINATED VENEER LUMBER OR PARALLEL STRAND LUMBER WITH THE FOLLOWING MINIMUM PROPERTIES: Fb=2800 PSI, Fv=260 PSI, E=1,900,000 PSI. MULTIPLE LVL PLIES CAN BE USED TO ACHIEVE THE SPECIFIED SIZE SHOWN ON THESE PLANS AND IS CONSIDERED TO BE STRUCTURALLY EQUIVALENT.

9. THE FOLLOWING SHALL APPLY TO ALL BRACED WALL LINES:
ALL EXTERIOR WALLS SHALL BE CONTINUOUSLY SHEATHED WITH 1/2" OSB OR CDX WSP SHALL BE IN ACCORDANCE WITH R-602.10.3 AND SHALL BE COVERED WITH 1/2" GYP/5/8" BOARD ON THE INTERIOR FACE. ALL WSP PANELS SHALL BE FASTENED WITH 8d NAILS AT 12" ON CENTER (FIELD) AND 6" ON CENTER (EDGES). ALL EXTERIOR WALLS SHALL BE 2"x 4" AT 16" ON CENTER AS A MINIMUM (EXCEPT FOR BALLOON FRAMED WALL SECTIONS AS NOTED) AND CONTINUOUSLY SHEATHED.

STRUCTURAL EVALUATION BY:

WILKINS ENGINEERING, P.C.
Post Office Box 31446
Raleigh, North Carolina 27621

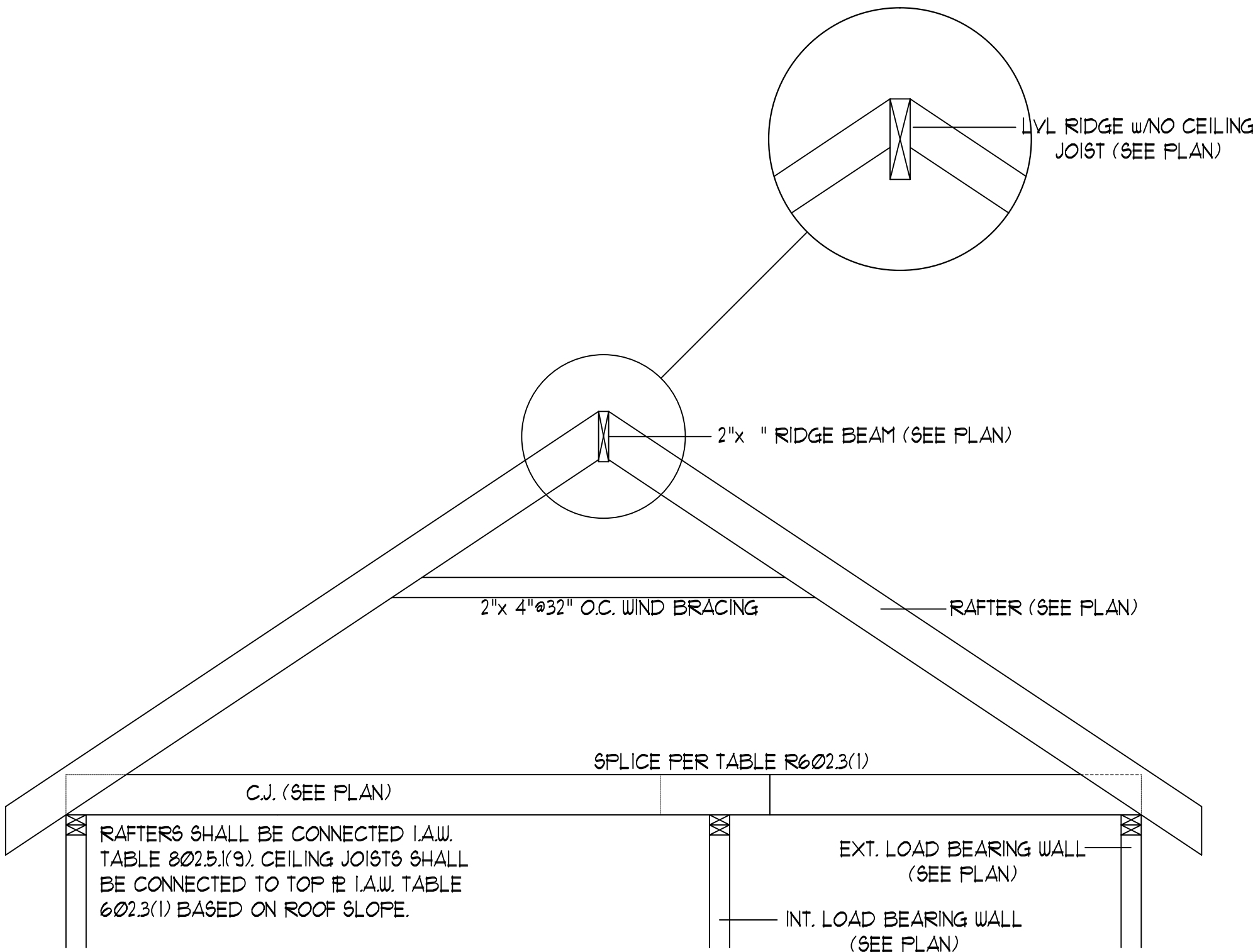


FILE: CAMDEN REV. 12/22/2025

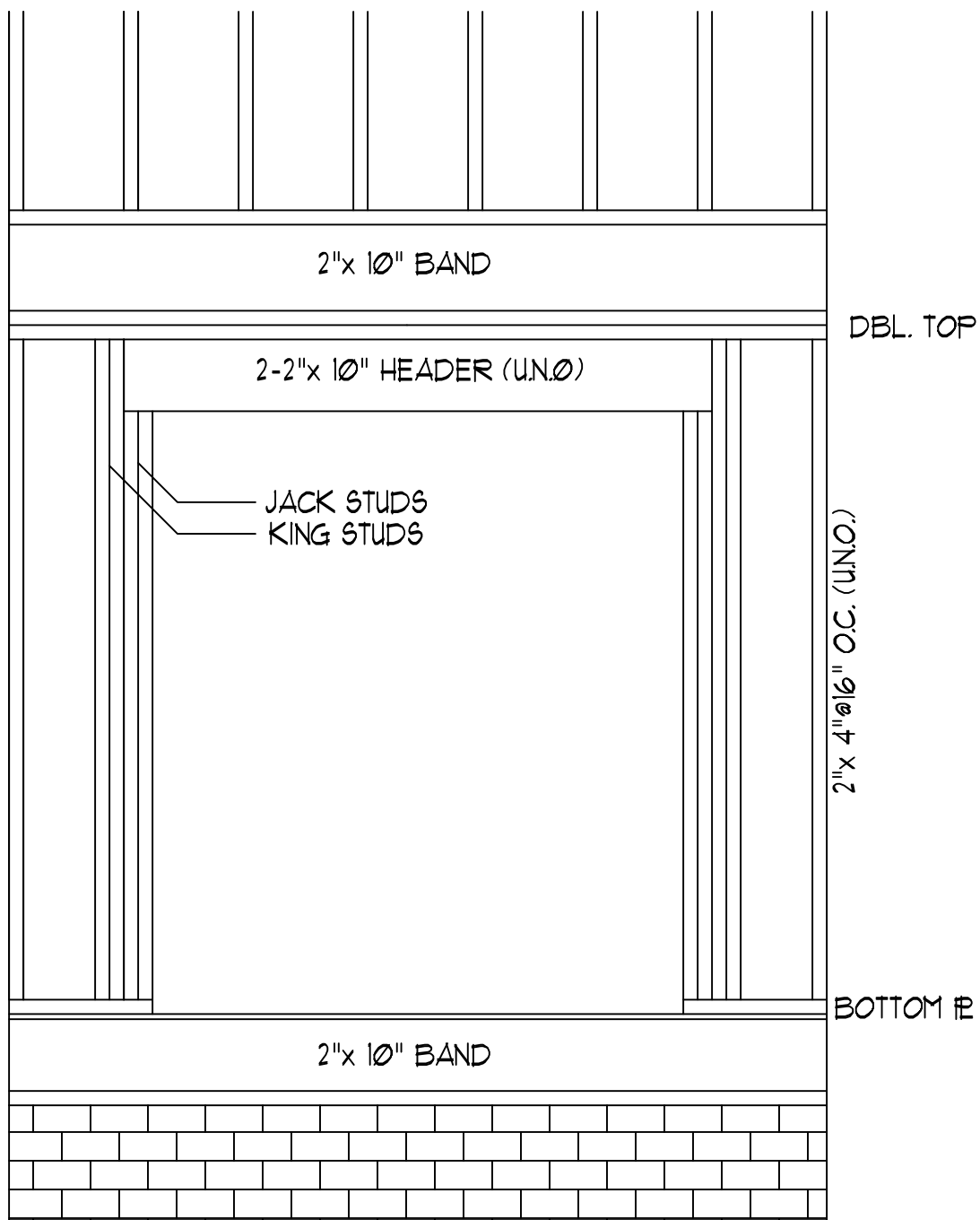
*THE ENGINEER'S SEAL AND SIGNATURE APPLY ONLY TO THE STRUCTURAL ELEMENTS OF THIS DOCUMENT; ENGINEER'S APPROVAL DOES NOT INCLUDE CONSTRUCTION REVIEW, MEANS, METHODS, TECHNIQUES OR SEQUENCES OF CONSTRUCTION OR SAFETY REQUIREMENTS. THE CONTRACTOR IS REQUIRED TO ENSURE PROPER SAFETY PRECAUTIONS.

*ANY DEVIATIONS OR DISCREPANCIES IN THESE DRAWINGS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER AND FAILURE TO DO SO WILL VOID THE ENGINEER'S LIABILITY. CHANGES TO THE DESIGN ARE ONLY ALLOWED WITH THE WRITTEN APPROVAL OF THE ENGINEER.

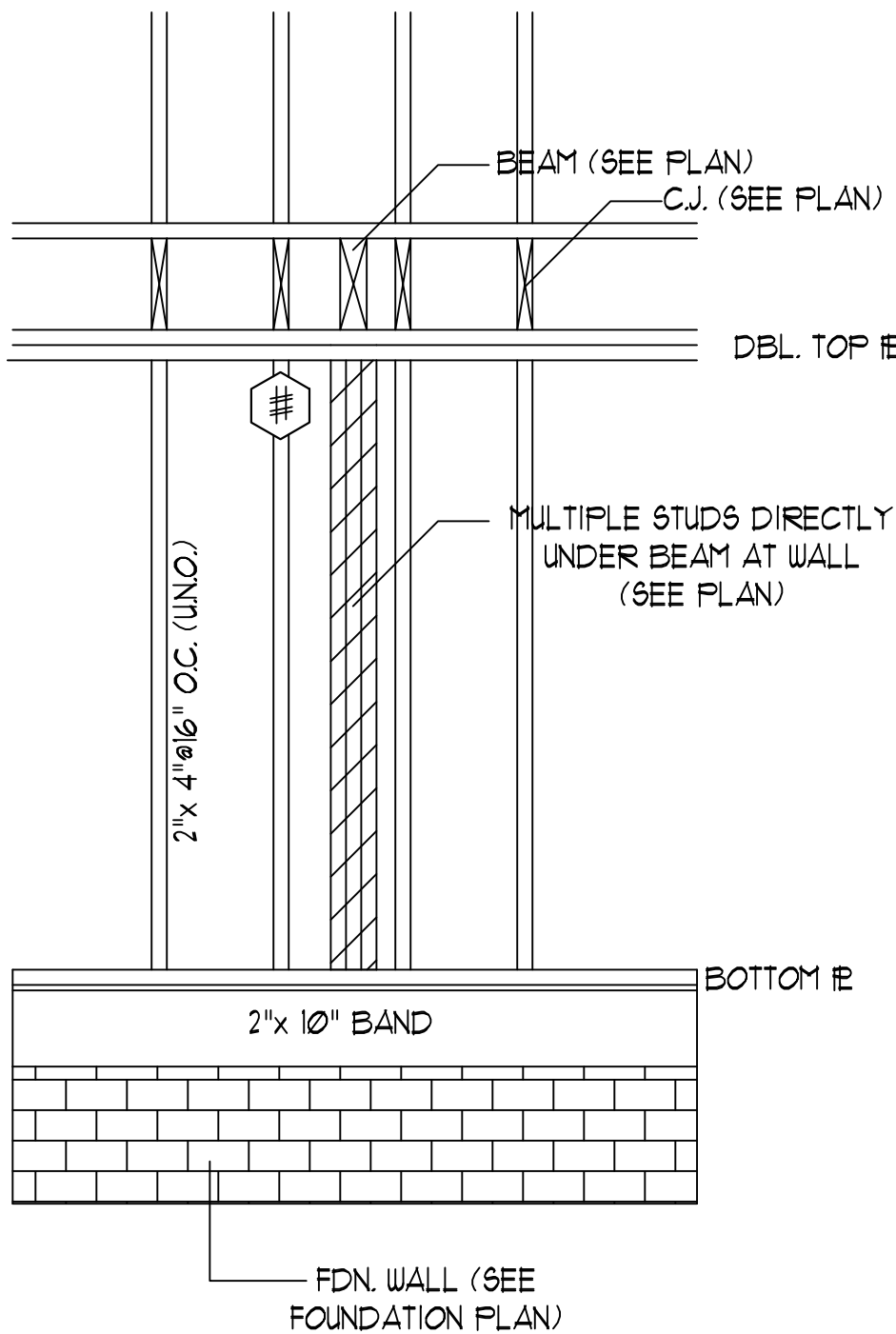
*DO NOT SCALE THESE DRAWINGS. ENGINEERING APPROVAL EXPIRES ONE YEAR FROM THE DATE OF THE ENGINEER'S SIGNATURE ABOVE.



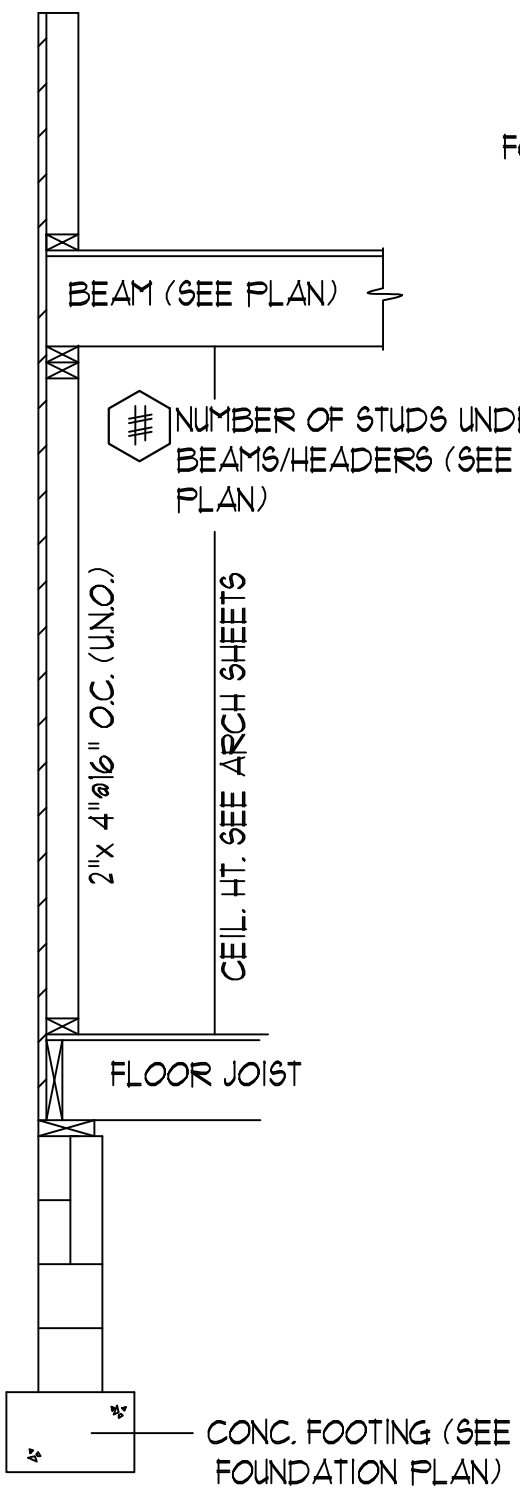
RIDGE BEAM/RAFTER
DETAIL (N.T.S.)



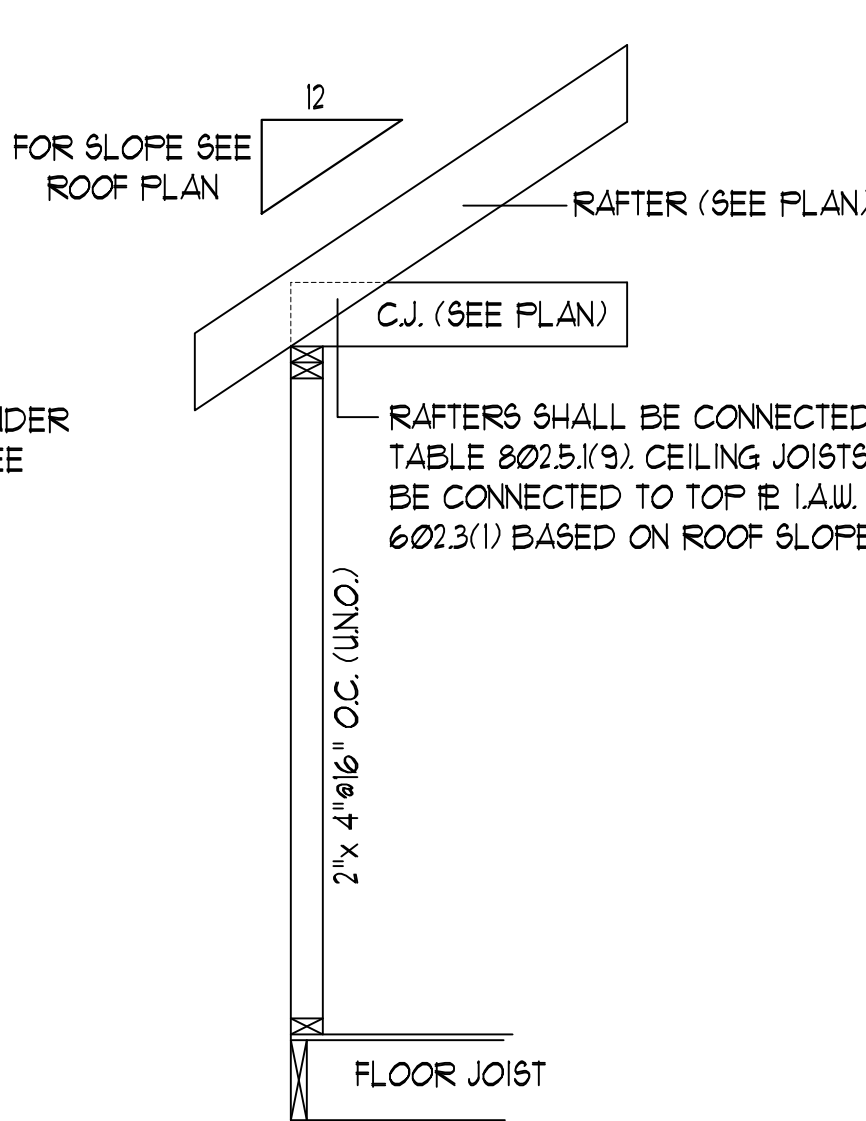
HEADER DETAIL AT EXT.
WALL OPENINGS (N.T.S.)



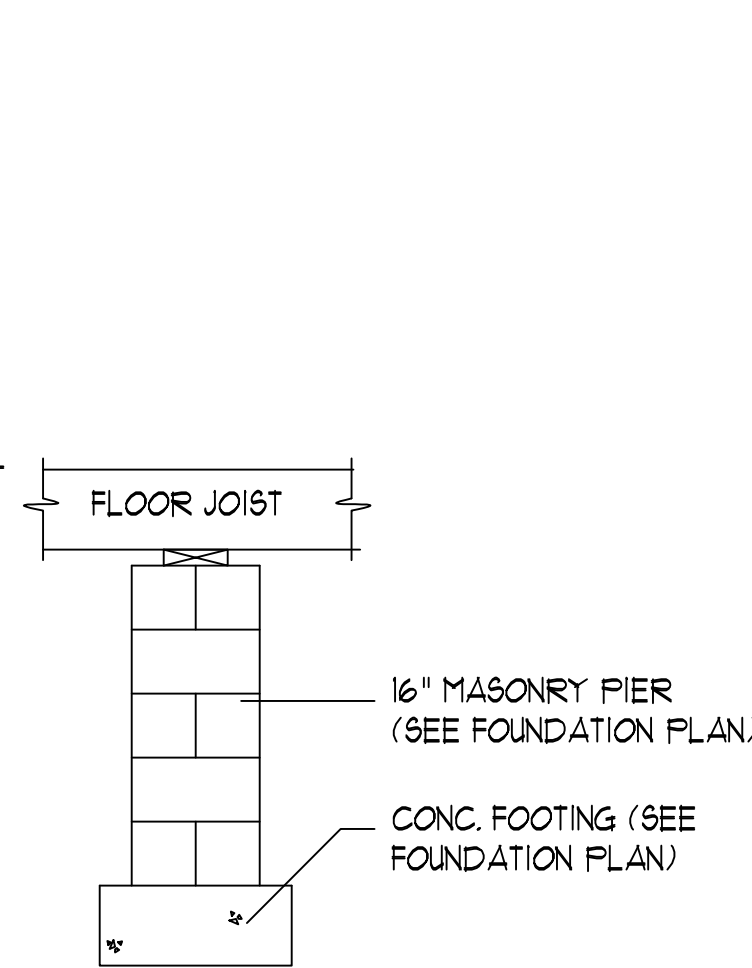
STUD SUPPORT FOR
BEAMS/HEADERS
(ELEV. N.T.S.)



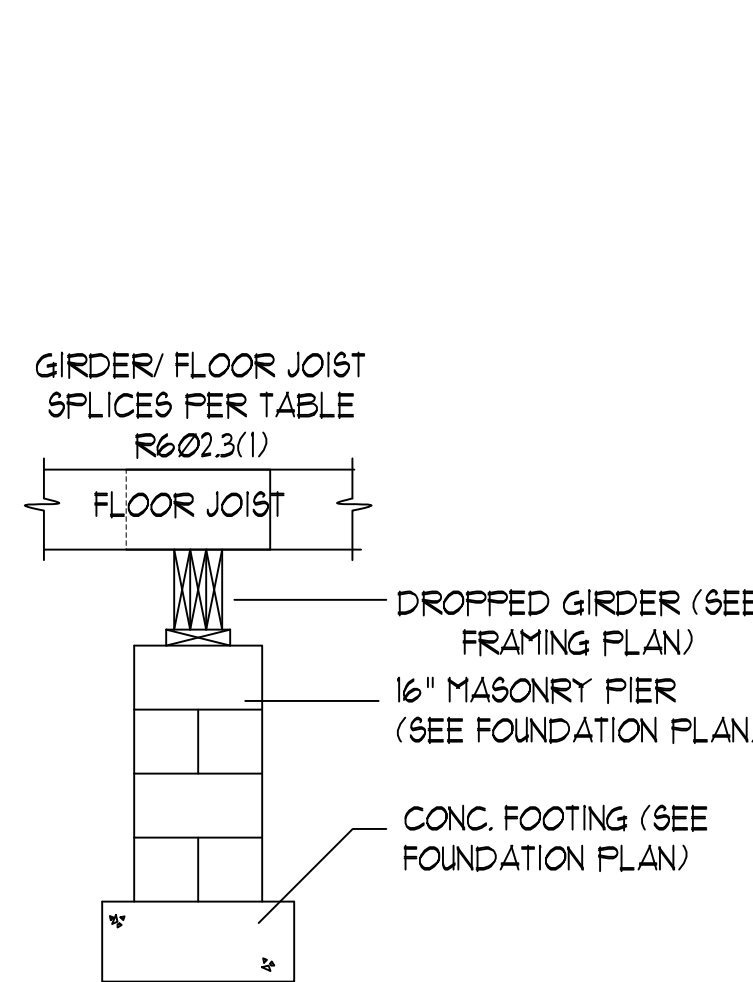
STUD SUPPORT FOR
BEAMS/HEADERS
(SECT. N.T.S.)



RAFTER/CEILING
JOIST CONNECTION
(N.T.S.)



FLUSH PIER W/
FLOOR JOIST
GIRDER (N.T.S.)



MASONRY PIER W/
DROPPED
GIRDER (N.T.S.)

DO NOT SCALE THESE DRAWINGS

ALL DIMENSIONS AND SITE DIMENSIONS ARE TO BE VERIFIED BEFORE CONSTRUCTION BEGINS. SHOULD ANY DISCREPANCIES OR OMISSIONS BE NOTED, THE BUILDER AGREES TO NOTIFY THE ENGINEER IMMEDIATELY. THESE DRAWINGS APPLY TO STRUCTURAL ELEMENTS ONLY. THE ENGINEER'S LIABILITY IS LIMITED TO THE DESIGN AND CONSTRUCTION OF NON-STRUCTURAL ITEMS.

COPYRIGHT 2020 WILKINS ENGINEERING, P.C.
THESE DRAWINGS ARE PROTECTED UNDER FEDERAL COPYRIGHT LAWS. THE ORIGINAL PURCHASER OF THESE DRAWINGS IS LICENSED TO USE THE PLANS FOR THE CONSTRUCTION OF ONE AND ONLY ONE SINGLE FRAME. THESE DRAWINGS ARE NOT TO BE REPRODUCED, COPIED, OR OTHERWISE USED WITHOUT THE WRITTEN CONSENT OF THE ENGINEER. ANY VIOLATION OF THESE TERMS OF THE ENGINEER IS EXPRESSLY PROHIBITED.

WILKINS ENGINEERING
Post Office Box 31446
Raleigh, NC 27621

wilkinseng@aol.com

919.771-3540

GREYLAND CONST.
"THE CAMDEN PLAN"

Sheet No.

56