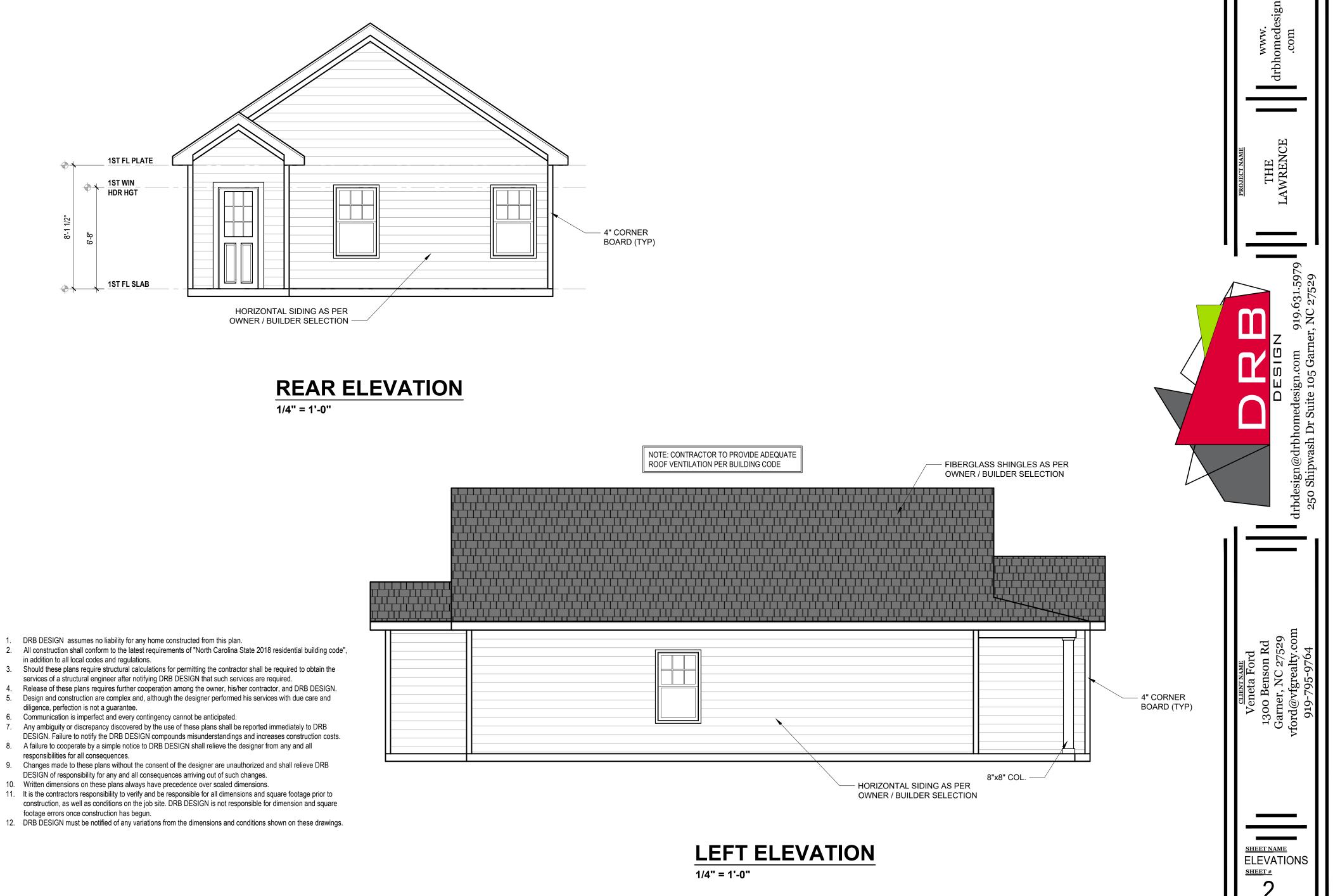
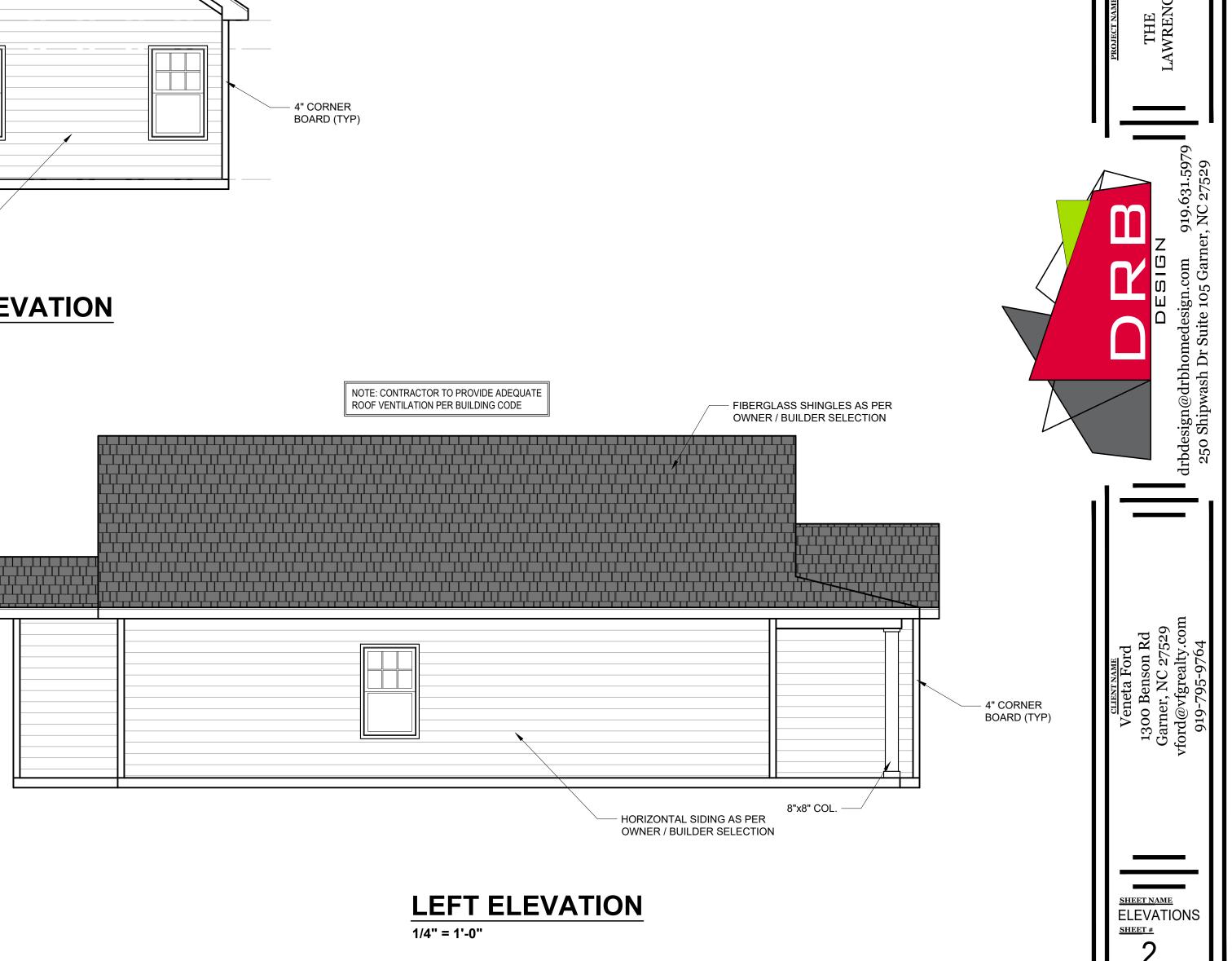


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THE LAWRENCE





- 1. DRB DESIGN assumes no liability for any home constructed from this plan.
- 2. All construction shall conform to the latest requirements of "North Carolina State 2018 residential building code", in addition to all local codes and regulations.
- 3. Should these plans require structural calculations for permitting the contractor shall be required to obtain the services of a structural engineer after notifying DRB DESIGN that such services are required.
- Release of these plans requires further cooperation among the owner, his/her contractor, and DRB DESIGN. Design and construction are complex and, although the designer performed his services with due care and 4. 5.
- 6. Communication is imperfect and every contingency cannot be anticipated.
- 7. Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to DRB DESIGN. Failure to notify the DRB DESIGN compounds misunderstandings and increases construction costs.
- responsibilities for all consequences.

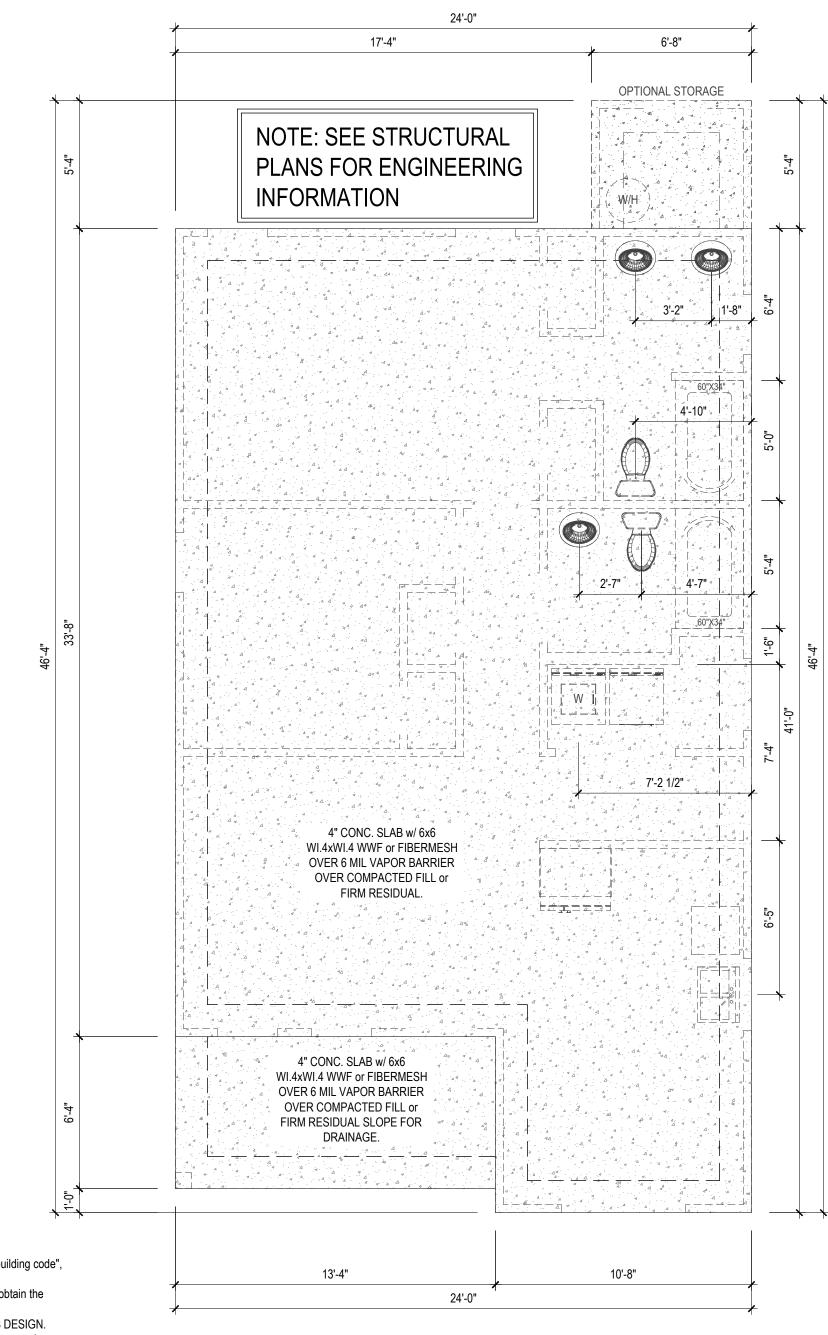
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- construction, as well as conditions on the job site. DRB DESIGN is not responsible for dimension and square footage errors once construction has begun.

PROJECT # DRB2501-0134 A

DESIGNED BY MMB CHECKED BY DRB SCALE 1/4" = 1'-0"

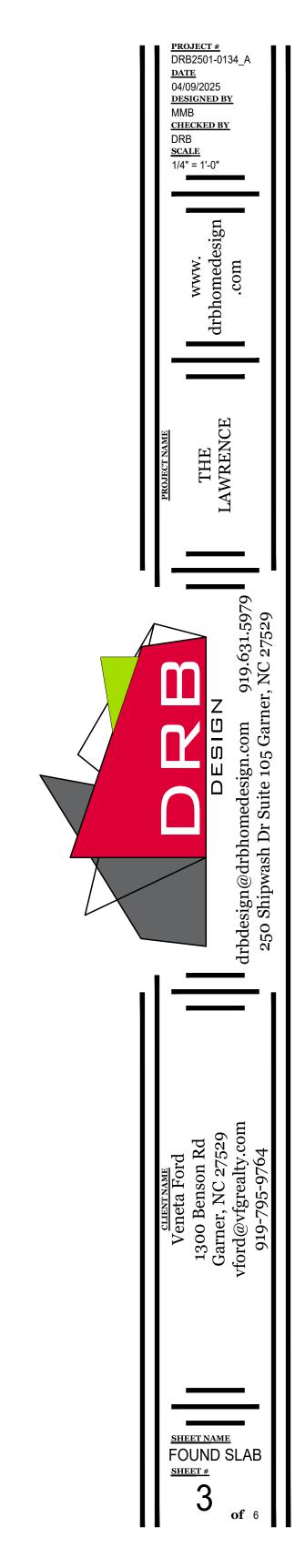
DATE 04/09/2025



- DRB DESIGN assumes no liability for any home constructed from this plan. 1.
- 2. All construction shall conform to the latest requirements of "North Carolina State 2018 residential building code", in addition to all local codes and regulations.
- 3. Should these plans require structural calculations for permitting the contractor shall be required to obtain the services of a structural engineer after notifying DRB DESIGN that such services are required.
- Release of these plans requires further cooperation among the owner, his/her contractor, and DRB DESIGN.
- 5. Design and construction are complex and, although the designer performed his services with due care and diligence, perfection is not a guarantee.
- 6. Communication is imperfect and every contingency cannot be anticipated.
- Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to DRB 7.
- DESIGN. Failure to notify the DRB DESIGN compounds misunderstandings and increases construction costs. 8. A failure to cooperate by a simple notice to DRB DESIGN shall relieve the designer from any and all
- responsibilities for all consequences. 9. Changes made to these plans without the consent of the designer are unauthorized and shall relieve DRB DESIGN of responsibility for any and all consequences arriving out of such changes.
- 10. Written dimensions on these plans always have precedence over scaled dimensions.
- 11. It is the contractors responsibility to verify and be responsible for all dimensions and square footage prior to construction, as well as conditions on the job site. DRB DESIGN is not responsible for dimension and square footage errors once construction has begun.
- 12. DRB DESIGN must be notified of any variations from the dimensions and conditions shown on these drawings.

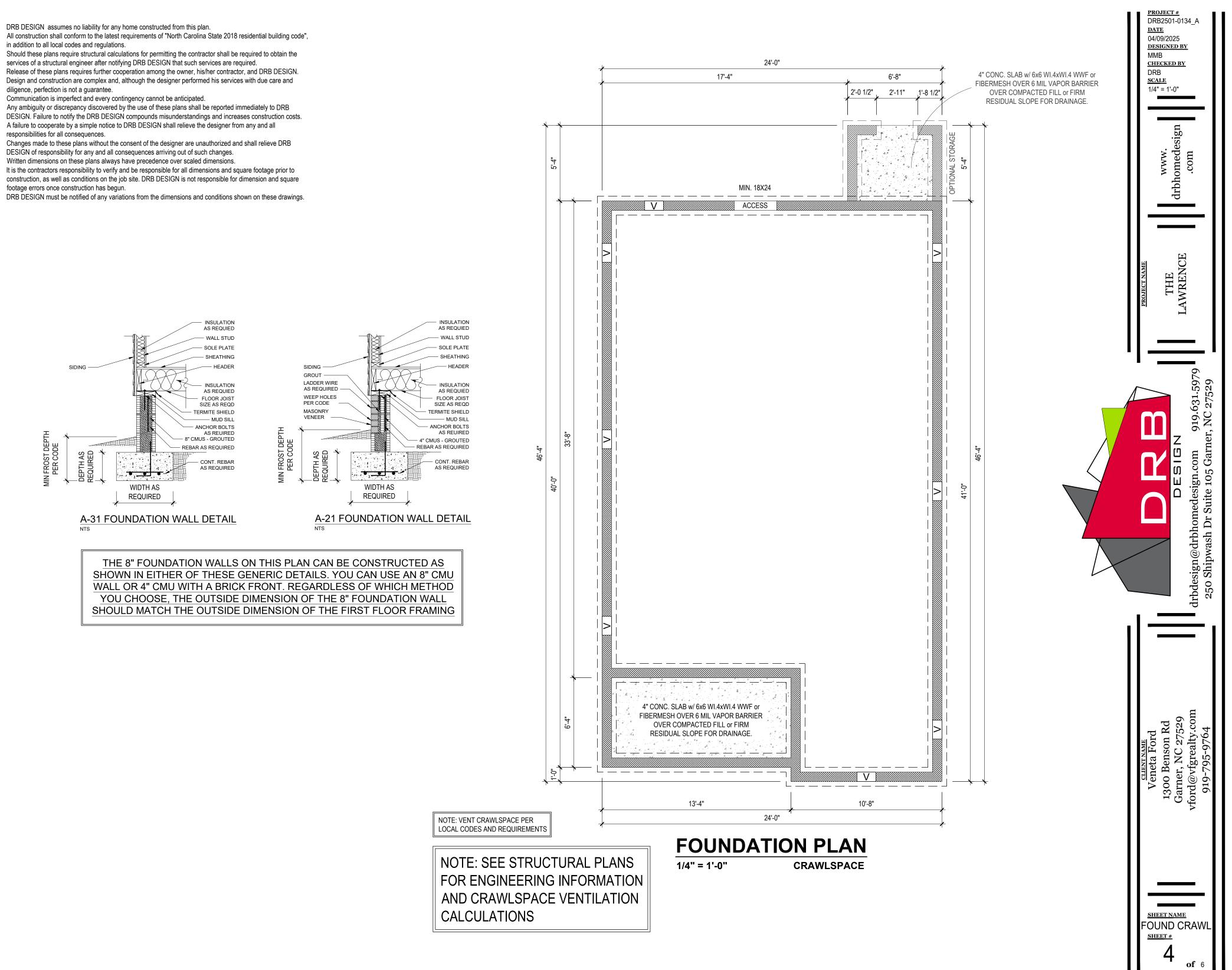


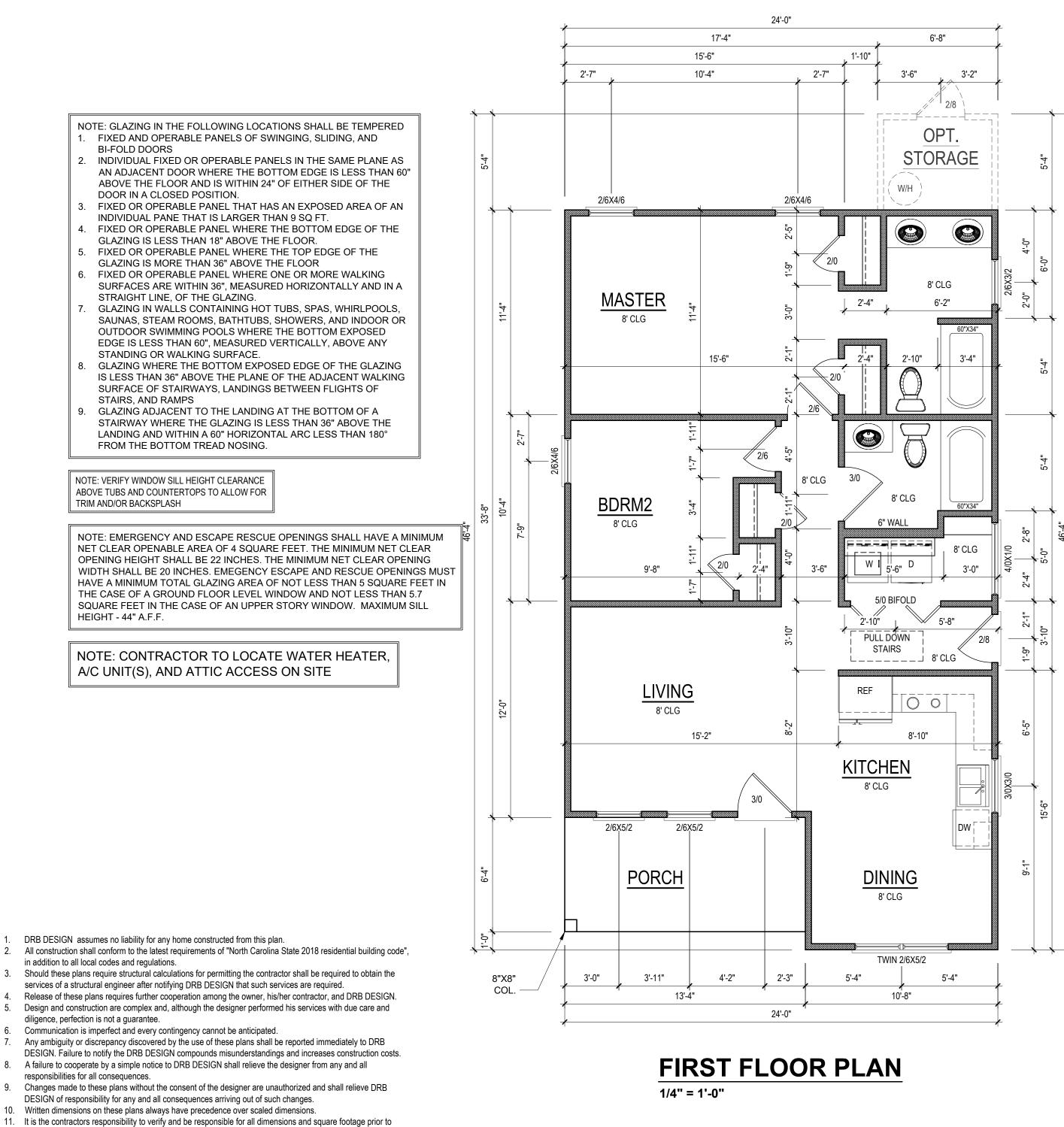
1/4" = 1'-0"



MONOSLAB

- DRB DESIGN assumes no liability for any home constructed from this plan.
- All construction shall conform to the latest requirements of "North Carolina State 2018 residential building code", 2. in addition to all local codes and regulations.
- 3. services of a structural engineer after notifying DRB DESIGN that such services are required.
- 4 Design and construction are complex and, although the designer performed his services with due care and 5.
- Communication is imperfect and every contingency cannot be anticipated. 6.
- 7. DESIGN. Failure to notify the DRB DESIGN compounds misunderstandings and increases construction costs.
- 8. responsibilities for all consequences.
- 9
- 10. Written dimensions on these plans always have precedence over scaled dimensions.
- 11. It is the contractors responsibility to verify and be responsible for all dimensions and square footage prior to construction, as well as conditions on the job site. DRB DESIGN is not responsible for dimension and square footage errors once construction has begun.
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11. It is the contractors responsibility to verify and be responsible for all dimensions and square footage prior to construction, as well as conditions on the job site. DRB DESIGN is not responsible for dimension and square footage errors once construction has begun.

12. DRB DESIGN must be notified of any variations from the dimensions and conditions shown on these drawings.

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2.

3.

5.

6.

HEATED SQUARE FOO First Floor	DTAGE 887
TOTAL HEATED	887
UNHTD SQUARE FOO Front Porch Optional Storage*	<u>DTAGE</u> 84 36
TOTAL UNHEATED	120
TOTAL SQ FT	1007

NOTE: SEE ELEVATIONS FOR WINDOW HDR HGTS

NOTE: ALL DOORS ARE 6'-8" TALL UNO

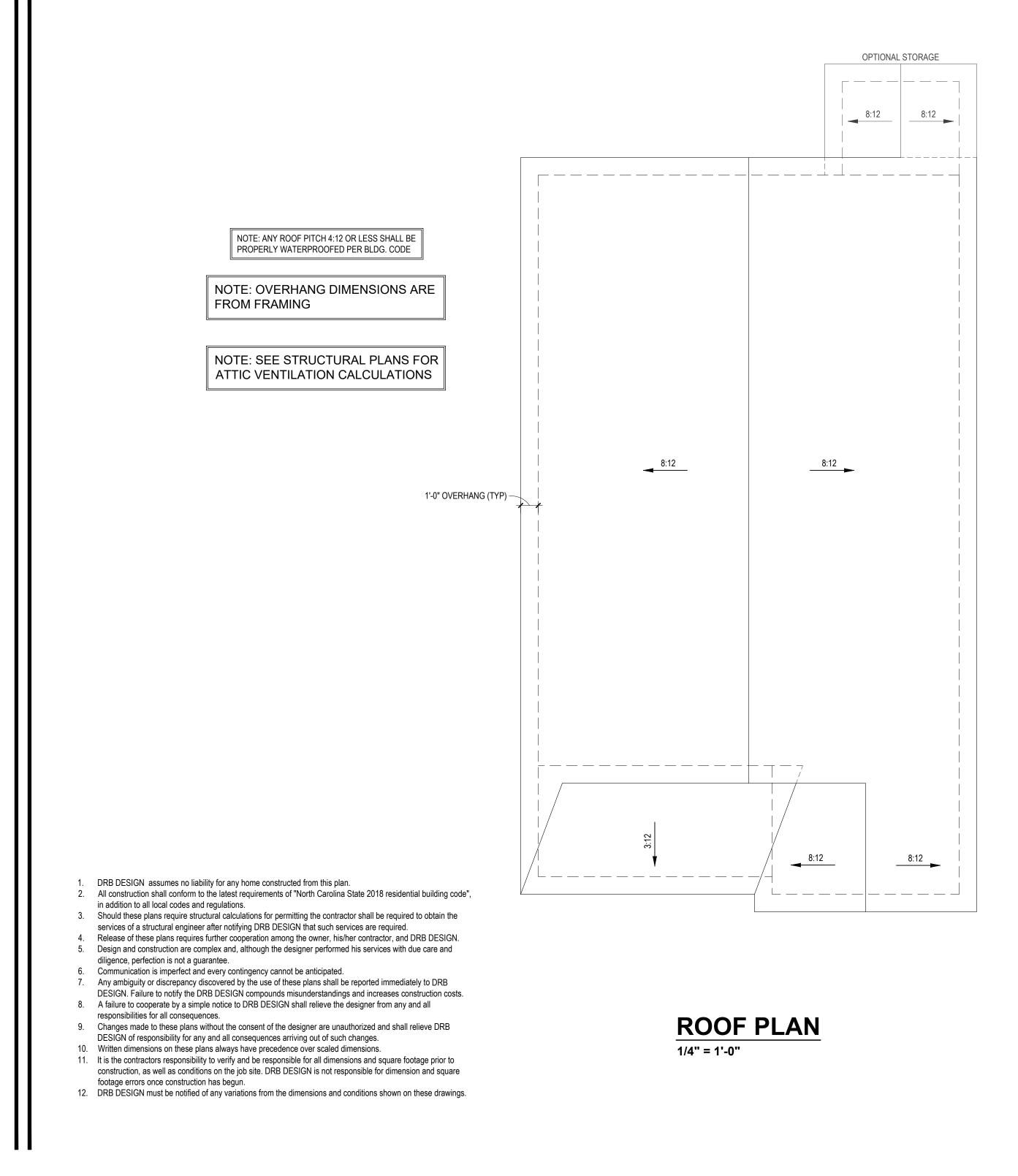
NOTE: ALL EXTERIOR WALLS ARE NOMINAL 4" UNO

NOTE: ALL INTERIOR WALLS ARE NOMINAL 4" UNO

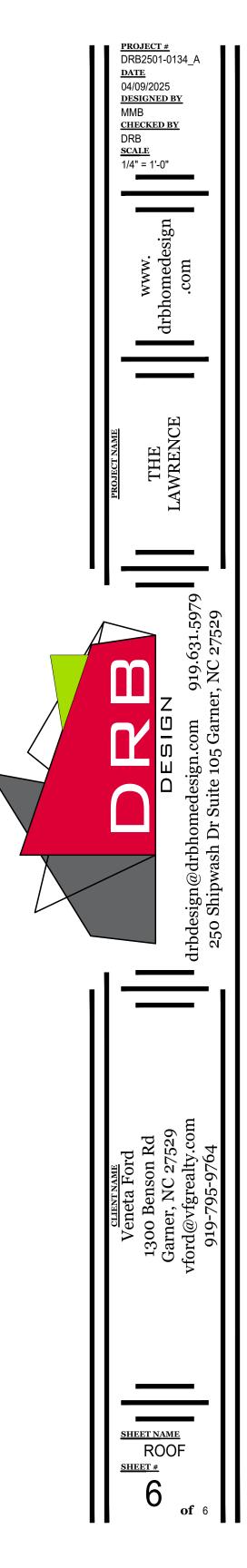
NOTE: ALL ANGLED WALLS ARE 45° UNO

NOTE: ALL DIMENSIONS ARE FRAME TO FRAME





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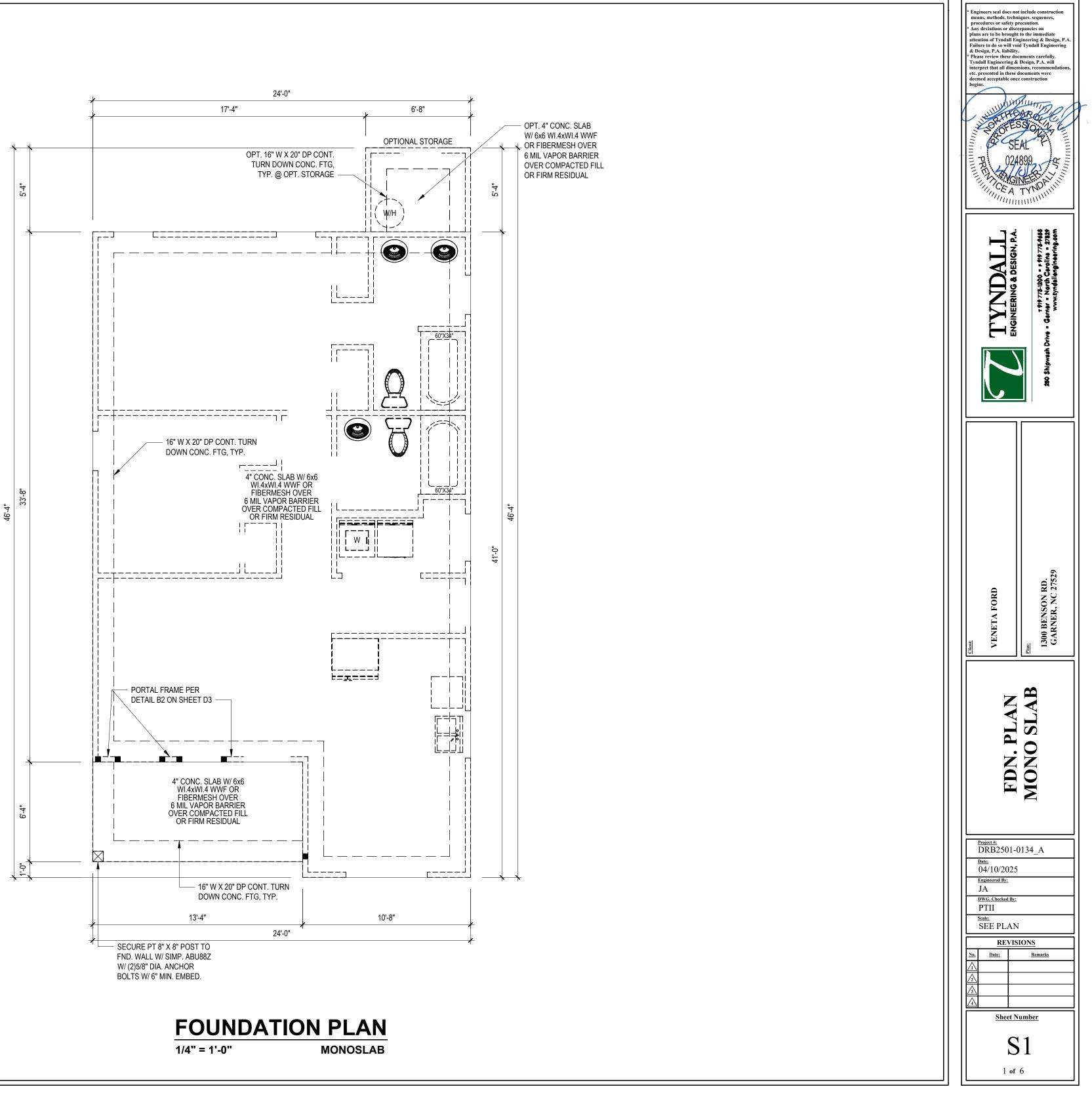


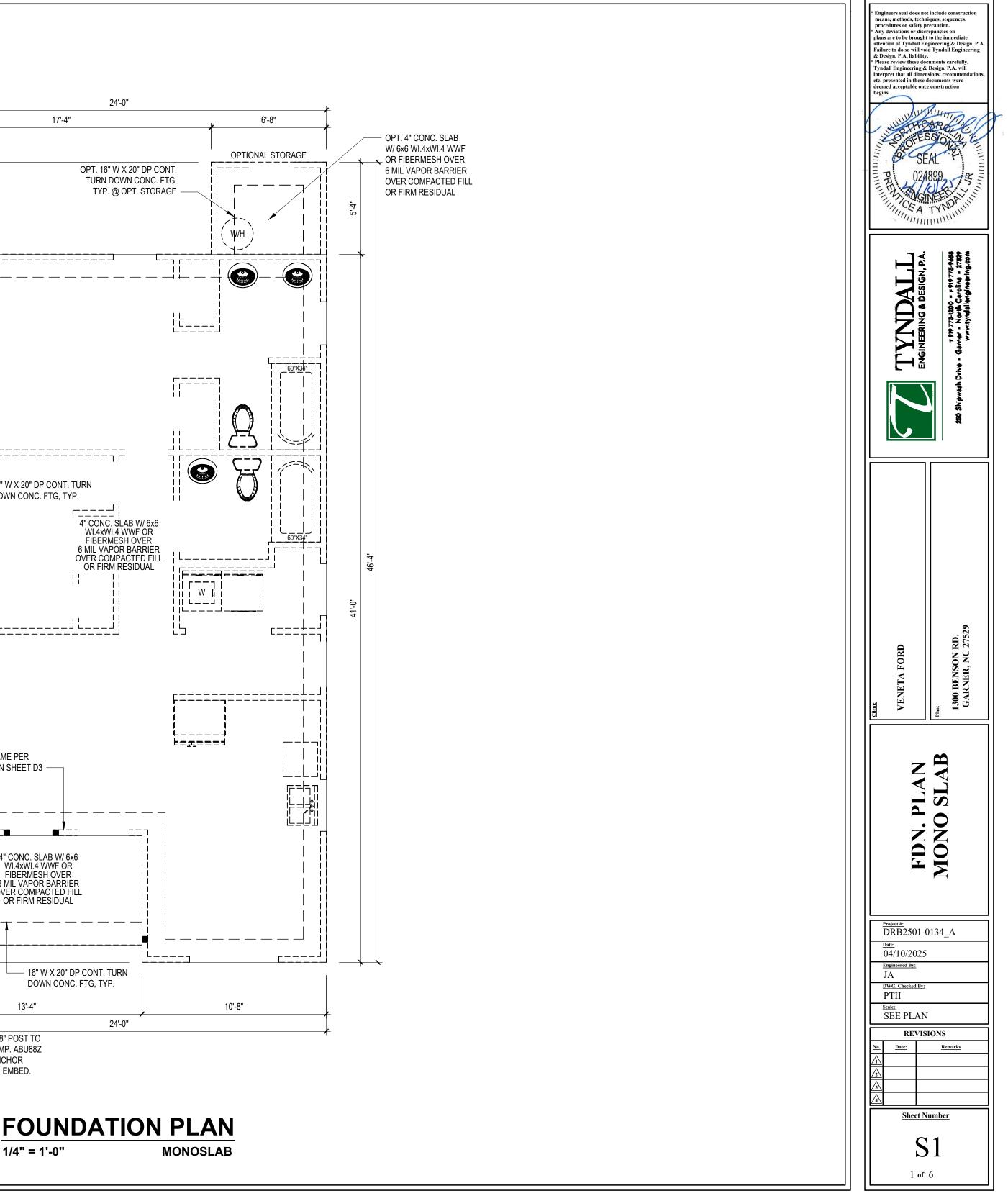
DESIGN LOADS

		0/100			
	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLE	CTION	
	()	(* 5.)	LL	TL	
FLOOR (primary)	40	10	L/360	L/240	
FLOOR (secondary)	40	10	L/360	L/240	
ATTIC (w/ storage)	20	10	L/240	L/180	
ATTIC (no access)	10	L/240	L/180		
EXTERNAL BALCONY	40	10	L/360	L/240	
ROOF	20	10	L/240	L/180	
ROOF TRUSS	20	20	L/240	L/180	
WIND LOAD	BASED ON 130 MPH (EXPOSURE B)				
SEISMIC	BASED ON SEISMIC ZONES A, B & C				

STRUCTURAL NOTES:

- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF "NORTH CAROLINA STATE 2018 RESIDENTIAL BUILDING CODE", IN ADDITION TO ALL LOCAL CODES AND REGULATIONS.
- TO DESIGN REGULATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND SQUARE FOOTAGE PRIOR TO CONSTRUCTION. TYNDALL ENGINEERING & DESIGN, PA IS NOT RESPONSIBLE FOR DIMENSIONS AND SQUARE FOOTAGE ERRORS ONCE 2)
- CONSTRUCTION BEGINS. ALL LUMBER SHALL BE SYP #2 (UNO) 3)
- ALL LVL LUMBER TO BE 1.75" WIDE (ACTUAL) EACH SINGLE MEMBER AND FB = 2600 PSI, E = 1.9M PSI (OR GREATER)
- (I.E. ILEVEL MICROLAM) ALL LSL LUMBER IS TO BE 1.55E (FB = 2325 PSI) (OR GREATER)
- ALL PSL LUMBER IS TO BE 1.8E (FB = 2,400 PSI) (OR GREATER)
- ALL LOAD BEARING EXTERIOR WINDOW HEADERS ARE TO BE (2) 2x10 w/ (1) 2x4 JACK 4) STUD (U.N.O.) AND KING STUDS PER TABLE R602.7.5, AND TOGETHER w/ (2) 10d NAILS @ 8" O.C., PROVIDED THAT THE TOP OF THE WINDOW HEIGHT IS 6'-8", MINIMUM BOTTOM OF THE WINDOW HEIGHT IS 1'-6". OTHERWISE REFER TO TABLES R602.7(1) AND R602.7(2).
- ALL INTERIOR LOAD BEARING HEADERS TO BE (2) 2x10 (U.N.O.) REFER TO TABLES 5) R602.7(1) AND R602.7(2) FOR JACK STUD REQUIREMENTS FOR HEADER SPANS FOR INTERIOR AND EXTERIOR LOAD CONDITIONS (UNO)
- REFER TO 2018 NC BUILDING CODE SECTION R602 FOR CONSTRUCTION OF ALL 6)
- WALLS OVER 10'-0" IN HEIGHT. ALL STRUCTURAL STEEL SHALL BE ASTM A992 GRADE 50
- 7) Fy = 50 KSI MIN. (UNO)
- ALL EXTERIOR LUMBER TO BE #2 SYP PT 8)
- ALL CONCRETE, fc = 3000 PSI MIN.
- PRESUMPTIVE BEARING CAPACITY = 2000 PSF 10) 1/2"Ø ANCHOR BOLTS SPACED AT MAXIMUM OF 4'-0" O.C. AND NOT MORE THAN 12" 11)
- FROM THE CORNER. THERE SHALL BE A MINIMUM OF (2) BOLTS PER PLATE SECTION. ANCHOR BOLT SHALL EXTEND 15" INTO MASONRY AND 7" INTO CONCRETE.
- PSL COLUMNS DESIGNED WITH MAX. HEIGHT OF 9'-0" (UNO) 12) PROVIDE A MINIMUM OF 500# UPLIFT & LATERAL CONNECTION AT TOP AND BOTTOM 13)
- OF PORCH COLUMNS. (U.N.O.) PROVIDE CONTINUOUS SHEATHING PER SECTION 602.10.4 OF THE 2018 IRC. 14)
- MAXIMUM MASONRY PIER HEIGHT SHALL NOT EXCEED FOUR TIMES ITS LEAST 15)
- HORIZONTAL DIMENSION. 16) UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY ANCHORED TO THE
- FOUNDATION. 17) METAL HANGERS SHALL BE SIMPSON OR APPROVED EQUAL.





DESIGN LOADS

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLE	CTION	
	()	(/	LL	TL	
FLOOR (primary)	40	10	L/360	L/240	
FLOOR (secondary)	40	10	L/360	L/240	
ATTIC (w/ storage)	20	10	L/240	L/180	
ATTIC (no access)	10	5	L/240	L/180	
EXTERNAL BALCONY	40	10	L/360	L/240	
ROOF	20	10	L/240	L/180	
ROOF TRUSS	20	20	L/240	L/180	
WIND LOAD	BASED ON 130 MPH (EXPOSURE B)				
SEISMIC	BASED ON SEISMIC ZONES A, B & C				

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- 2) IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND SQUARE FOOTAGE PRIOR TO CONSTRUCTION. TYNDALL ENGINEERING & DESIGN, PA IS NOT RESPONSIBLE FOR DIMENSIONS AND SQUARE FOOTAGE ERRORS ONCE
- CONSTRUCTION BEGINS. 3) ALL LUMBER SHALL BE SYP #2 (UNO)
- ALL LVL LUMBER TO BE 1.75' WIDE (ACTUAL) EACH SINGLE MEMBER AND FB = 2600 PSI, E = 1.9M PSI (OR GREATER) (I.E. ILEVEL MICROLAM)
- ALL LSL LUMBER IS TO BE 1.55E (FB = 2325 PSI) (OR GREATER)
- ALL PSL LUMBER IS TO BE 1.8E (FB = 2,400 PSI) (OR GREATER) ALL LOAD BEARING EXTERIOR WINDOW HEADERS ARE TO BE (2) 2x10 w/ (1) 2x4 JACK
- ALL LOAD BEARING EXTERIOR WINDOW HEADERS ARE TO BE (2) 2x10 w/ (1) 2x4 JACK STUD (U.N.O.) AND KING STUDS PER TABLE R602.7.5, AND TOGETHER w/ (2) 10d NAILS
 @ 8" O.C., PROVIDED THAT THE TOP OF THE WINDOW HEIGHT IS 6'-8", MINIMUM BOTTOM OF THE WINDOW HEIGHT IS 1'-6". OTHERWISE REFER TO TABLES R602.7(1) AND R602.7(2).
- ALL INTERIOR LOAD BEARING HEADERS TO BE (2) 2x10 (U.N.O.) REFER TO TABLES R602.7(1) AND R602.7(2) FOR JACK STUD REQUIREMENTS FOR HEADER SPANS FOR INTERIOR AND EXTERIOR LOAD CONDITIONS (UNO)
- REFER TO 2018 NC BUILDING CODE SECTION R602 FOR CONSTRUCTION OF ALL
- WALLS OVER 10'-0" IN HEIGHT. 7) ALL STRUCTURAL STEEL SHALL BE ASTM A992 GRADE 50
- Fy = 50 KSI MIN. (UNO)
- 8) ALL EXTERIOR LUMBER TO BE #2 SYP PT
- ALL CONCRETE, fc = 3000 PSI MIN.
 PRESUMPTIVE BEARING CAPACITY = 2000 PSF
- PRESUMPTIVE BEARING CAPACITY = 2000 PSF
 1/2"Ø ANCHOR BOLTS SPACED AT MAXIMUM OF 4'-0" O.C. AND NOT MORE THAN 12" FROM THE CORNER. THERE SHALL BE A MINIMUM OF (2) BOLTS PER PLATE SECTION. ANCHOR BOLT SHALL EXTEND 15" INTO MASONRY AND 7" INTO CONCRETE.
- PSL COLUMNS DESIGNED WITH MAX. HEIGHT OF 9'-0" (UNO)
 PROVIDE A MINIMUM OF 500# UPLIFT & LATERAL CONNECTION AT TOP AND BOTTOM OF PORCH COLUMNS. (U.N.O.)
- PROVIDE CONTINUOUS SHEATHING PER SECTION 602.10.4 OF THE 2018 IRC.
 MAXIMUM MASONRY PIER HEIGHT SHALL NOT EXCEED FOUR TIMES ITS LEAST
- HORIZONTAL DIMENSION.
 UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY ANCHORED TO THE
- 17) METAL HANGERS SHALL BE SIMPSON OR APPROVED EQUAL.



NOTE: ADDITIONAL JOISTS

INSTALL A DOUBLE JOIST UNDER NON-LOAD BEARING WALLS, BUILT-INS, AND CABINETRY ABOVE THAT ARE PARALLEL TO THE FRAMING SYSTEM ON THIS PAGE, TYP UNO, BUILDER TO INSTALL AS REQUIRED, VIF DIMENSIONS

887 SQ. FT. OF CRAWL SPACE / 150 = 5.92 SQ. FT. OF REQ'D VENTILATION WITHOUT CROSS VENTILATION 5.92 SQ. FT. OF VENTILATION REQ'D / 0.88 SQ.FT. PER VENT = 7.0 VENTS REQ'D (BASED ON 8" X 16" VENTS)¹

-OR-

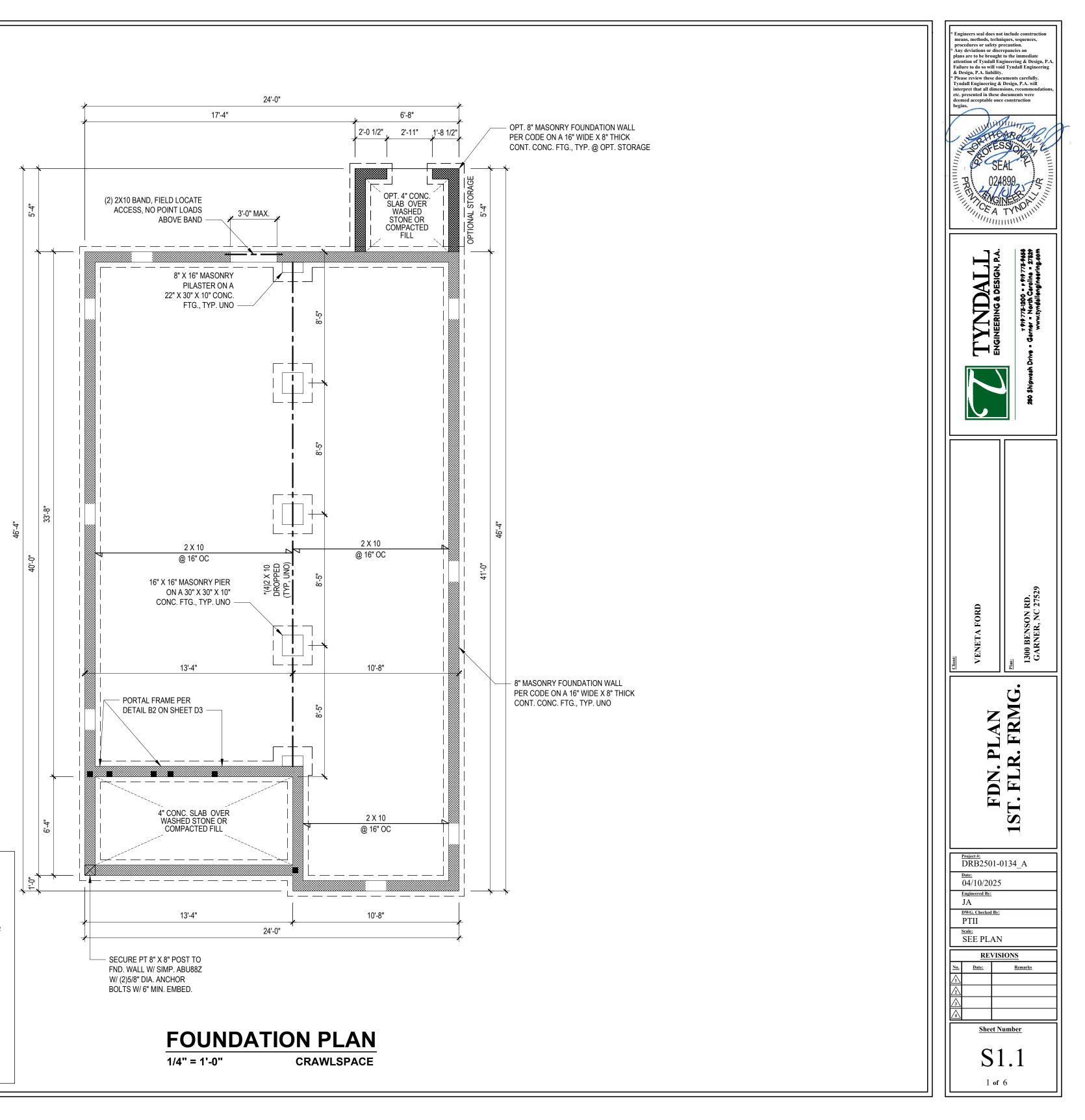
887 SQ. FT. OF CRAWL SPACE / 1500 = 0.59 SQ. FT. OF REQ'D VENTILATION WITH CROSS VENTILATION 0.59 SQ. FT. OF VENTILATION REQ'D / 0.88 SQ.FT. PER VENT = 2.0 VENTS REQ'D (BASED ON 8" X 16" VENTS)²

1) VENT LOCATIONS MAY VARY FROM THOSE SHOWN ON PLAN, HOWEVER VENTS SHALL BE PLACED TO PROVIDE ADEQUATE VENTILATION AT ALL POINTS AND TO PREVENT DEAD AIR POCKETS.

2) THE TOTAL AREA OF VENTILATION OPENINGS MAY BE REDUCED TO 1/1500 OF THE CRAWL SPACE GROUND AREA WHERE THE REQUIRED OPENINGS ARE PLACED SO AS TO PROVIDE CROSS VENTILATION OF THE CRAWL SPACE. THE INSTALLATION OF OPERABLE LOUVERS SHALL NOT BE PROHIBITED. ONE FOUNDATION VENT SHALL BE WITHIN 3 FEET OF EACH CORNER OF THE BUILDING. TO PREVENT RAINWATER ENTRY WHEN THE CRAWL SPACE IS BUILT ON A SLOPED SITE, THE UPHILL FOUNDATION WALLS MAY BE CONSTRUCTED WITHOUT WALL VENT OPENINGS. VENT DAMS SHALL BE PROVIDED WHEN THE BOTTOM OF THE FOUNDATION VENT OPENING IS LESS THAN 4 INCHES ABOVE THE FINISHED EXTERIOR GRADE.

WALL VENTED CRAWL SPACES REQUIRE FULL COVERAGE GROUND VAPOR RETARDERS.

(*) CRAWL SPACE VENTILATION CALCULATION



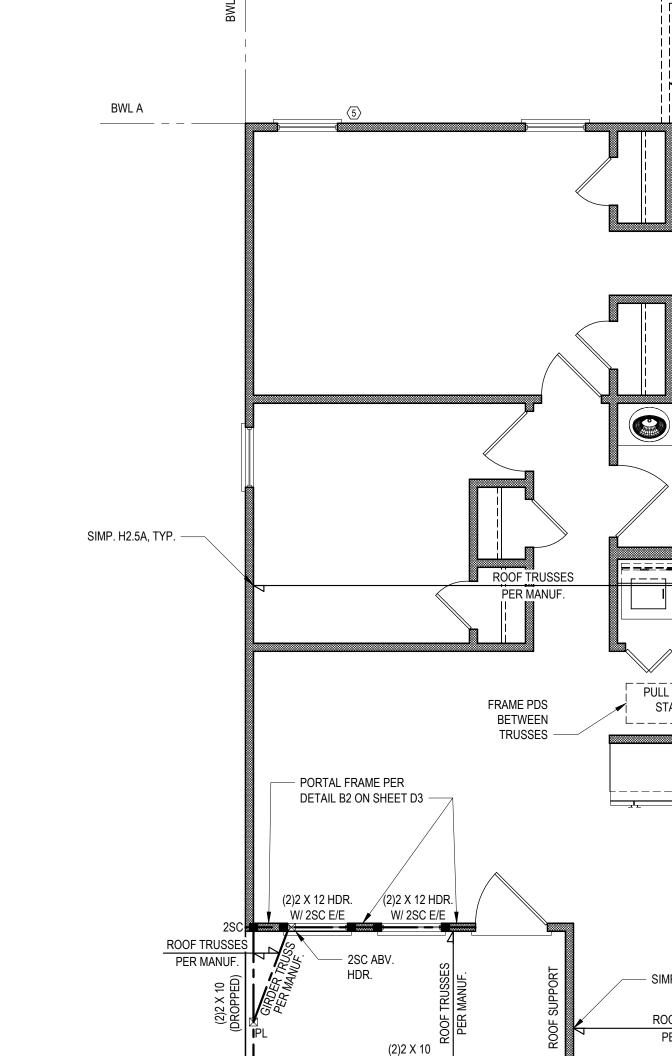
NO SCALE

DESIGN LOADS

DESIGN LOADS								
	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLE	CTION				
	()	(,	LL	TL				
FLOOR (primary)	40	10	L/360	L/240				
FLOOR (secondary)	40	10	L/360	L/240 L/180				
ATTIC (w/ storage)	20	10	L/240					
ATTIC (no access)	10	5	L/240	L/180				
EXTERNAL BALCONY	40	10	L/360	L/240				
ROOF	20	10	L/240	L/180				
ROOF TRUSS	20	20	L/240 L/180					
WIND LOAD	BASED ON 130 MPH (EXPOSURE B) BASED ON SEISMIC ZONES A, B & C							
SEISMIC								

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- IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND SQUARE 2) FOOTAGE PRIOR TO CONSTRUCTION. TYNDALL ENGINEERING & DESIGN, PA IS NOT RESPONSIBLE FOR DIMENSIONS AND SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS.
- ALL LUMBER SHALL BE SYP #2 (UNO) 3) ALL LVL LUMBER TO BE 1.75" WIDE (ACTUAL) EACH SINGLE MEMBER AND FB = 2600 PSI, E = 1.9M PSI (OR GREATER) (I.E. ILEVEL MICROLAM)
- ALL LSL LUMBER IS TO BE 1.55E (FB = 2325 PSI) (OR GREATER)
- ALL PSL LUMBER IS TO BE 1.8E (FB = 2,400 PSI) (OR GREATER)
- ALL LOAD BEARING EXTERIOR WINDOW HEADERS ARE TO BE (2) 2x10 w/ (1) 2x4 JACK 4) STUD (U.N.O.) AND KING STUDS PER TABLE R602.7.5, AND TOGETHER w/ (2) 10d NAILS @ 8" O.C., PROVIDED THAT THE TOP OF THE WINDOW HEIGHT IS 6'-8", MINIMUM BOTTOM OF THE WINDOW HEIGHT IS 1'-6". OTHERWISE REFER TO TABLES R602.7(1) AND R602.7(2).
- ALL INTERIOR LOAD BEARING HEADERS TO BE (2) 2x10 (U.N.O.) REFER TO TABLES R602.7(1) AND R602.7(2) FOR JACK STUD REQUIREMENTS FOR HEADER SPANS FOR INTERIOR AND EXTERIOR LOAD CONDITIONS (UNO)
- 6) REFER TO 2018 NC BUILDING CODE SECTION R602 FOR CONSTRUCTION OF ALL WALLS OVER 10'-0" IN HEIGHT.
- ALL STRUCTURAL STEEL SHALL BE ASTM A992 GRADE 50 7)
- $F_{y} = 50 \text{ KSI MIN.} (UNO)$
- ALL EXTERIOR LUMBER TO BE #2 SYP PT
- ALL CONCRETE, fc = 3000 PSI MIN.
- PRESUMPTIVE BEARING CAPACITY = 2000 PSF 10) 1/2"Ø ANCHOR BOLTS SPACED AT MAXIMUM OF 4'-0" O.C. AND NOT MORE THAN 12" 11) FROM THE CORNER. THERE SHALL BE A MINIMUM OF (2) BOLTS PER PLATE SECTION. ANCHOR BOLT SHALL EXTEND 15" INTO MASONRY AND 7" INTO CONCRETE.
- PSL COLUMNS DESIGNED WITH MAX. HEIGHT OF 9'-0" (UNO) 12) PROVIDE A MINIMUM OF 500# UPLIFT & LATERAL CONNECTION AT TOP AND BOTTOM 13)
- OF PORCH COLUMNS. (U.N.O.) PROVIDE CONTINUOUS SHEATHING PER SECTION 602.10.4 OF THE 2018 IRC.
- MAXIMUM MASONRY PIER HEIGHT SHALL NOT EXCEED FOUR TIMES ITS LEAST HORIZONTAL DIMENSION.
- UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY ANCHORED TO THE 16) FOUNDATION.
- 17) METAL HANGERS SHALL BE SIMPSON OR APPROVED EQUAL.





- 1) DESIGNED FOR SEISMIC ZONE A-C AND WIND SPEEDS OF 130 MPH OR
- LESS. 2) WALLS SHALL BE BRACED IN ACCORDANCE WITH SECTION R602.10 OF
- THE 2018 NCRC. 3)
- BRACING REQUIREMENTS SHALL BE PER TABLE R602.10.3. REFER TO SECTION R602.10.4 FOR LOAD PATH DETAILS INCLUDING CONNECTIONS & SUPPORT OF BRACED WALL PANELS. (1) REFERENCE FIGURE R602.10.4.3 OF THE 2018 NCRC.
- 4) INTERIOR BRACED WALL PANELS (BWP) INDICATED SHALL BE SHEATHED IN ACCORDANCE WITH THE GB METHOD OR WSP METHOD AS PRESCRIBED IN SECTION R602.10.1 (UNO)
- 2 1/2" GYPSUM BOARD (GB) MINIMUM LENGTH OF 8'-0" (ISOLATED PANELS) OR 4'-0" (CONTINUOUS SHEATHING). SECURE w/ 5d COOLER NAILS (OR EQUAL PER TABLE R702.3.5) SPACED @ 7" O.C. AT PANEL EDGES, INCLUDING TOP AND BOTTOM PLATES & 7" O.C. AT INTERMEDIATE SUPPORTS
- 3/8" WOOD STRUCTURAL PANEL (WSP) SECURE w/ 8d COMMON NAILS SPACED AT 4" O.C. AT PANEL EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS
- 5) EXTERIOR BRACED WALL PANELS (BWP) SHALL BE CONSTRUCTED IN ACCORDANCE WITH CS-WSP METHOD AS PRESCRIBED IN SECTION R602.10.3 (UNO)
- ALL SHEATHABLE SURFACES OF EXTERIOR WALLS (INCLUDING AREAS 6) ABOVE AND BELOW OPENINGS AND GABLE END WALLS) SHALL BE CONTINUOUSLY SHEATHED WITH WOOD STRUCTURAL PANEL (WSP) SHEATHING WITH A MINIMUM THICKNESS OF 7/16". SHEATHING SHALL BE SECURED WITH MINIMUM 8d COMMON OR GALVANIZED BOX NAILS (2-1/2" LONG X 0.131" DIA.) SPACED AT 4" O.C. AT PANEL EDGES AND SPACED AT 6" O.C. AT INTERMEDIATE SUPPORTS.
- MINIMUM BRACED WALL PANEL LENGTHS WITH CS-WSP METHOD SHALL 7) BE AS FOLLOWS: - 24" ADJACENT TO OPENINGS NOT MORE THAN
 - 67% OF WALL HEIGHT
 - 30" ADJACENT TO OPENINGS GREATER THAN 67% AND LESS THAN 85% OF WALL HEIGHT. 48" FOR OPENINGS GREATER THAN 85% OF
 - WALL HEIGHT
- $\langle 4 \rangle$ SHEATH INTERIOR & EXTERIOR
- FOR CS-WSP METHOD, A MINIMUM 24" BRACED WALL PANEL CORNER RETURN SHALL BE PROVIDED AT BOTH ENDS OF A BRACED WALL LINE IN ACCORDANCE WITH FIGURE R602.10.3(4). IN LIEU OF A CORNER RETURN, EITHER A MIN. 48" BRACED WALL PANEL SHALL BE PROVIDED AT THE CORNER OR A HOLD-DOWN DEVICE WITH A MINIMUM UPLIFT DESIGN VALUE OF 800# SHALL BE FASTENED TO THE EDGE OF THE BRACED WALL PANEL CLOSEST TO THE CORNER AND TO THE FOUNDATION OR FRAMING BELOW.

5 MINIMUM 800# HOLD-DOWN DEVICE

6

FIRST FLOOR PLAN 1/4" = 1'-0"

2SC

SIMP. H2.5A, TYP.

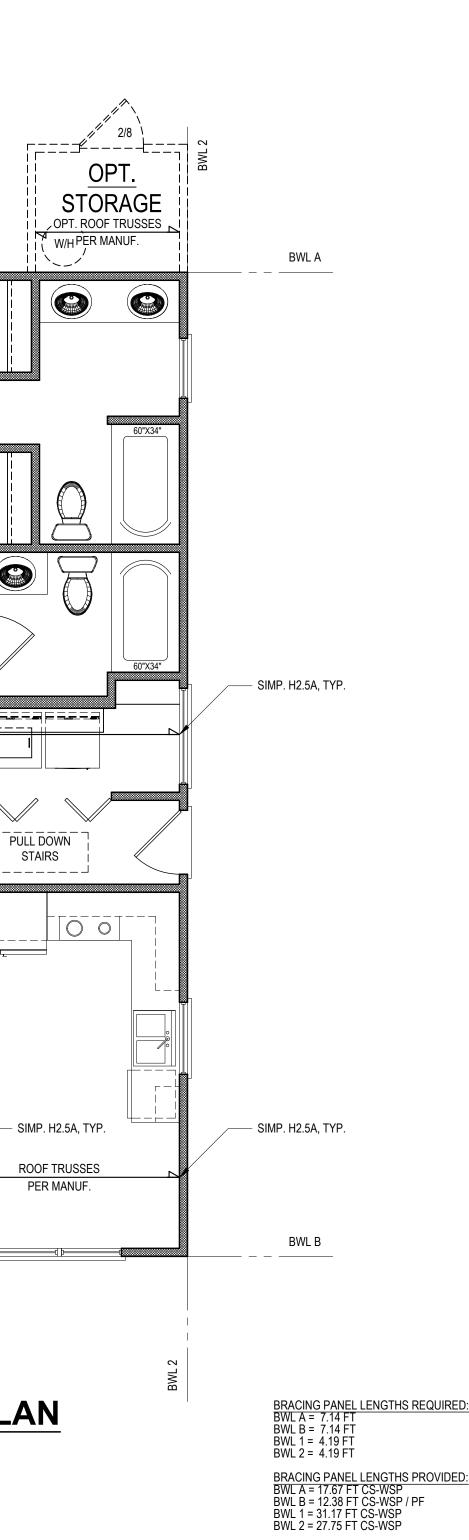
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- PT 8" X 8" POST

BWI

W/ (2)SIMP. LCE4Z

BWL B

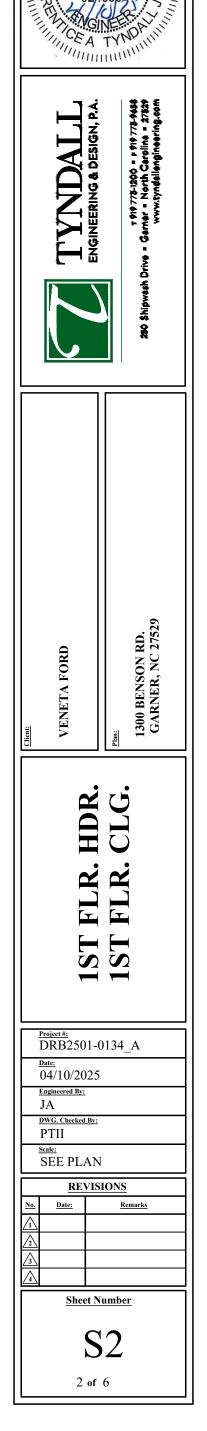


KING STUD SCHEDULE								
	MIN. # OF FULL HEIGHT STUDS (KING) E.E. OF OPENING PER WALL DEPTH							
HEADER SPAN (FT)	2 X 4 STUD WALL	2 X 6 STUD WALL						
UP TO 3'-0"	2	1						
3'-1" TO 6'-0"	3	2						
6'-1" TO 9'-0"	4	3						
9'-1" TO 12'-0"	5	4						
12'-1" TO 15'-0"	6	5						
15'-1" TO 18'-0"	7	5						
NOTES*:								

TABLE DENOTES REQUIRED MINIMUM NUMBER OF STUDS EE OF HEADER, TYP UNO ON PLANS

NUMBER OF KING STUDS LISTED ABOVE ARE BASED 10' NOMINAL WALL HEIGHT, STUD SPACING OF 16"

- O.C., AND ULTIMATE WIND SPEED OF 130 MPH (EXPOSURE B) HEADER SPANS IN TABLE ARE BASED ON ROUGH OPENINGS. INTERPOLATION BETWEEN SPAN VALUES
- IS PERMITTED, ROUND UP NUMBER OF KING STUDS, EXTRAPOLATION IS PROHIBITED. CONTACT TYNDALL ENGINEERING AND DESIGN IF HEADER SPANS EXCEED TABLE VALUES



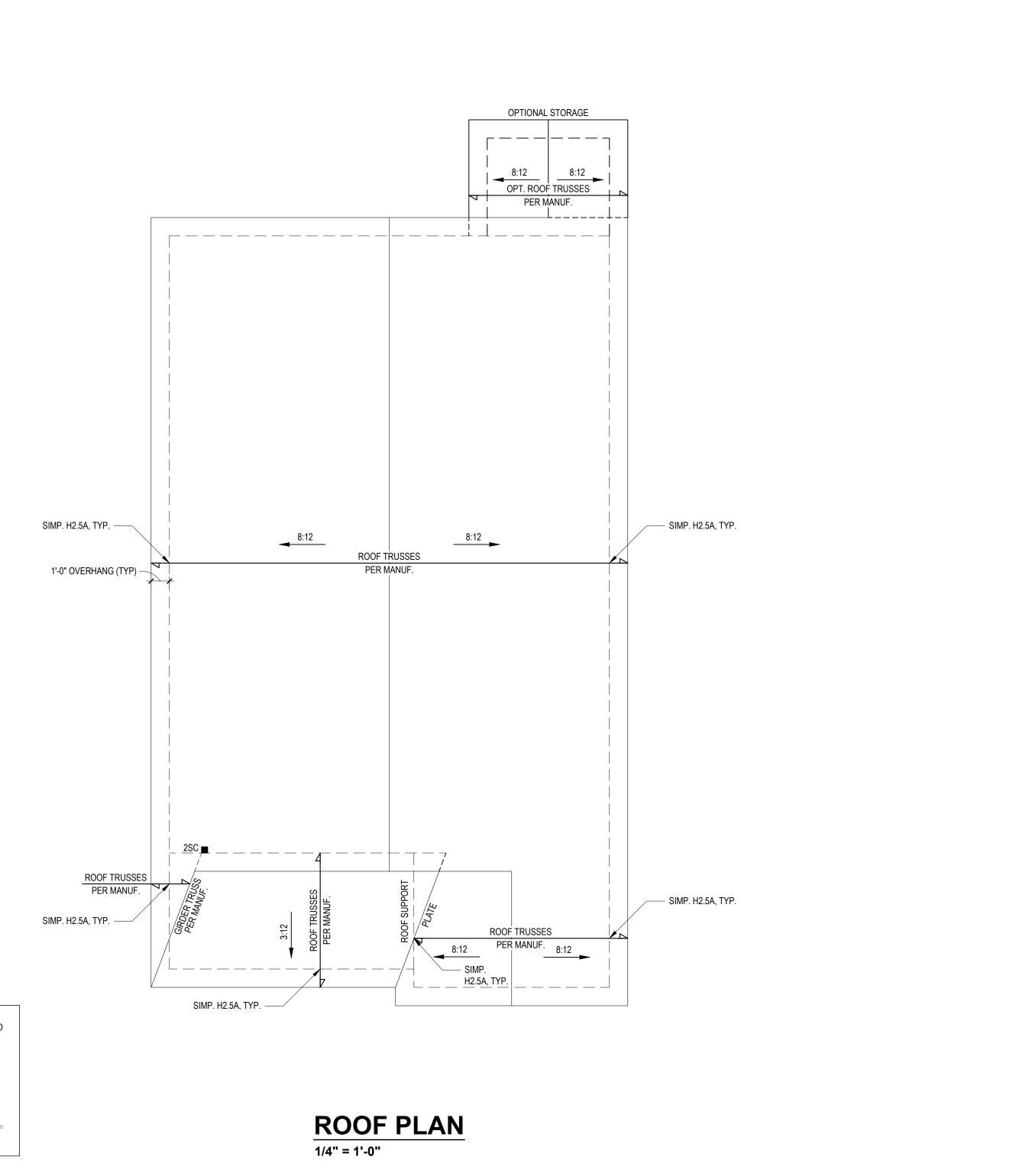
ineers seal does not include construction

* Any deviations or discrepancies on plans are to be brought to the immediate attention of Tyndall Engineering & Design, P.A. Failure to do so will void Tyndall Engineering & Design, P.A. liability. * Please review these documents carefully. Tyndall Engineering & Design, P.A. will interpret that all dimensions, recommendations.

means, methods, techniques, sequences, procedures or safety precaution. Any deviations or discrepancies on

terpret that all dimensions, reco tc. presented in these documents were ned acceptable once construction

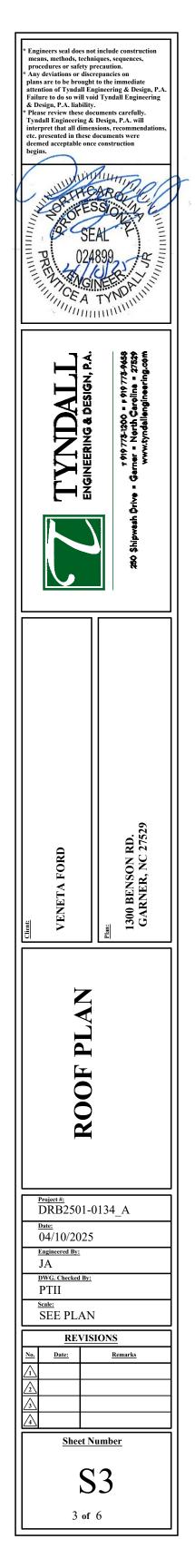
	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLE	CTION	
		(1 01)	LL	TL	
FLOOR (primary)	40	10	L/360	L/240	
FLOOR (secondary)	40	10	L/360	L/240	
ATTIC (w/ storage)	20	10	L/240	L/180 L/180 L/240	
ATTIC (no access)	10	5	L/240		
EXTERNAL BALCONY	40	10	L/360		
ROOF	20	10	L/240	L/180	
ROOF TRUSS	20	20	L/240	L/180	
WIND LOAD	BASED ON 130 MPH (EXPOSURE B) BASED ON SEISMIC ZONES A, B & C				
SEISMIC					



887 SQ. FT. OF ATTIC / 300 = 2.96 SQ. FT. INLETS/OUTLETS REQUIRED

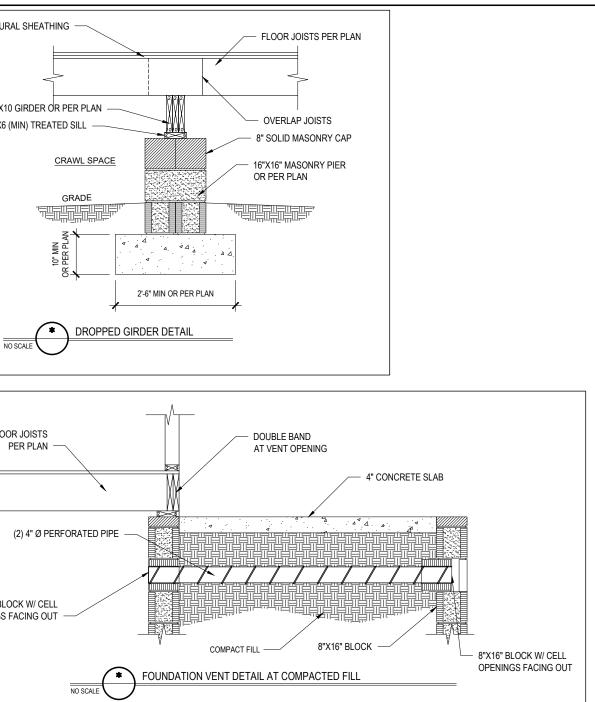
- CALCULATION BASED ON VENTILATORS USED AT LEAST 3'-0" ABOVE THE COMICE VENTS WITH THE BALANCE OF VENTILATION PROVIDED BY EAVE VENTS.
- CATHEDRAL CEILINGS SHALL HAVE A 1" MINIMUM CLEARANCE BETWEEN THE BOTTOM OF THE ROOF DECK AND THE INSULATION.

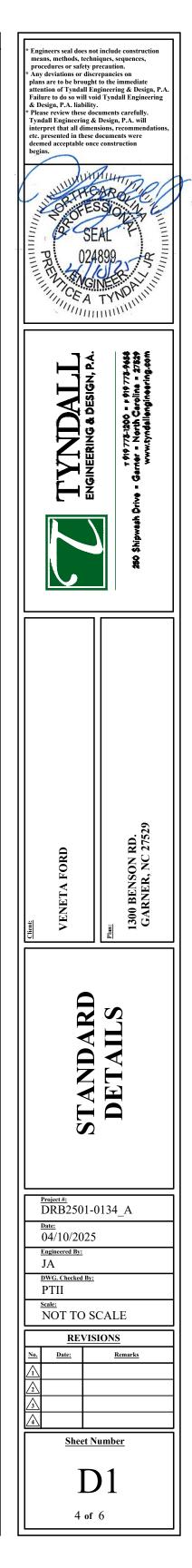
ATTIC VENTILATION CALCULATION NO SCALE

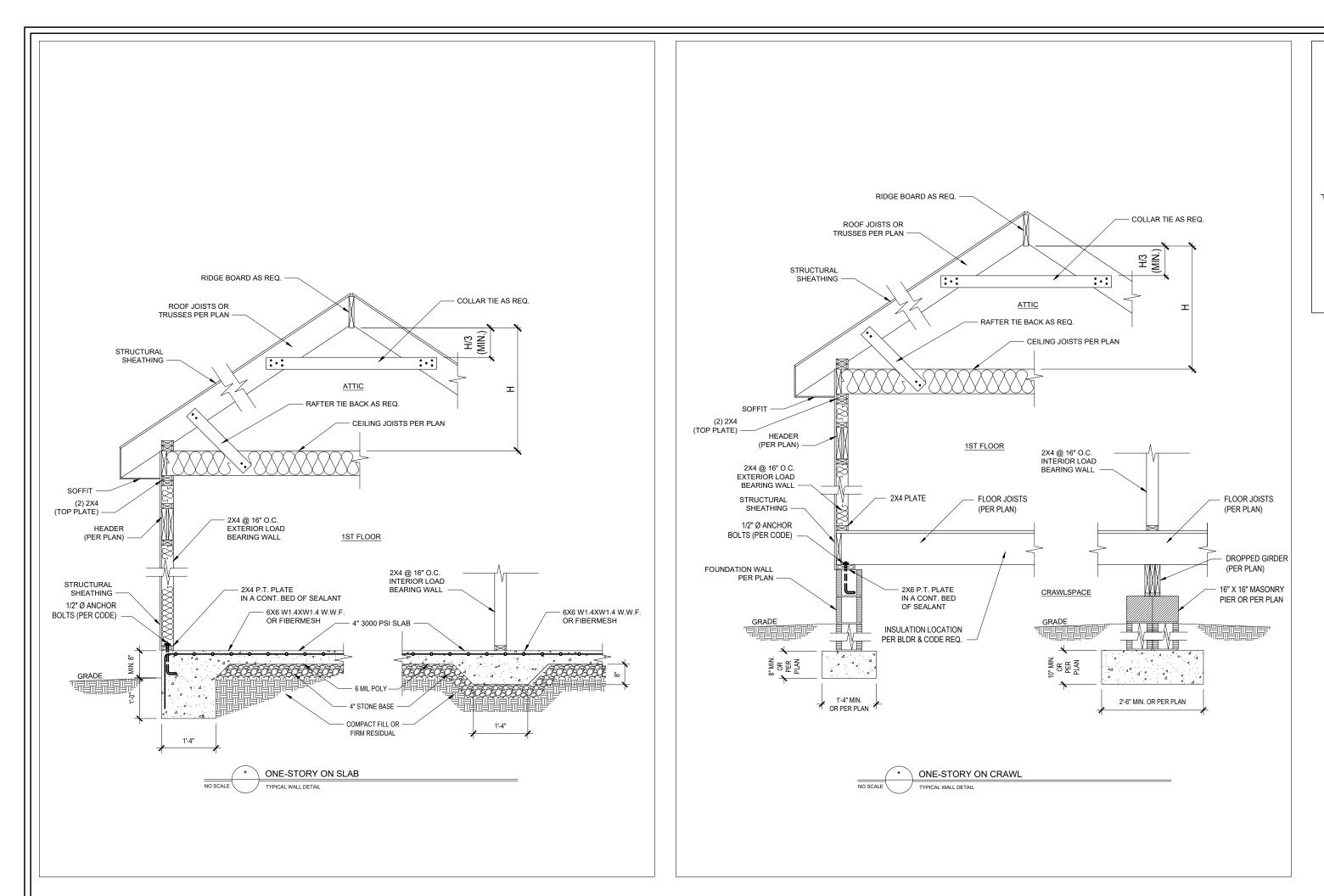


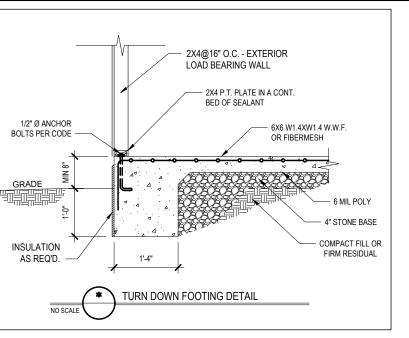
												DEFINITIONS FOR COMMON ABBREVIATIONS	STRUCTURA
						_				ALT CANT	= =	ALTERNATE MANUF = MANUFACTURER CANTILEVER MAX = MAXIMUM	
,			O THE LATEST REQU		NORTH CAROLINA ST	TATE 2018 RESIDEN	ITIAL BUILDING	i		CANT CJ CMU	=	CANTILEVER MAX = MAXIMUM CEILING JOIST MIN = MINIMUM CONCRETE MASONRY UNIT NOM = NOMINAL	
2) D	ESIGN LOADS:			LIVE	LOAD DEAL	DLOAD	DEFLEC	CTION		COL	=	COLUMN O.C. = ON CENTER CONCRETE PL = POINT LOAD	(3) 2X10
				``		PSF)	LL	TL		CONT CT	= =	CONTINUOUS PT = PRESSURE TREATED COLLAR TIE REINF = REINFORCED	(3) 2×10 2X6 (N
	-		L FLOORS v/ walk up stairs)			10 10	L/360 L/360	L/240 L/240		DBL DIA	=	DOUBLE REQ'D = REQUIRED DIAMETER RJ = ROOF JOIST	
	-		ull down access) C (no access)			10 5	L/240 L/240	L/180 L/180		DJ DR DSP	= = =	DOUBLE JOIST RS = ROOF SUPPORT DOUBLE RAFTER SC = STUD COLUMN DOUBLE STUD POCKET SCH = SCHEDULE	
	-		NAL BALCONY ROOF			10	L/360 L/240	L/240 L/180		EA EE	=	EACH SPEC = SPECIFIED EACH END TH = THICK	
	-		OF TRUSS			20	L/240	L/180		FJ FND	=	FLOOR JOIST TJ = TRIPLE JOIST FOUNDATION TRTD = TREATED	
	-		IND LOAD			D ON 130 MPH (EX	,			FTG GALV	= =	FOOTING TSP = TRIPLE STUD POCKET GALVANIZED TYP = TYPICAL	
		S	SEISMIC			SEISMIC ZONES A,	B & C			HORIZ HT	=	HORIZONTAL UNO = UNLESS NOTED OTHERWISE HEIGHT W = WIDE FLANGE BEAM	
										JSC KS	=	JACK STUD WWF = WELDED WIRE FABRIC KING STUD XJ = EXTRA JOIST	
- /			ESSURE = 2000 PSF DAY COMPRESSIVE S										
΄ U	NLESS NOTED OTH	ERWISE. (U.N.O.)											
B	RACING. REFER TO	SECTION R404 OF 2	AGAINST FOUNDATIC 2018 NC BUILDING CO ED BACKFILL HEIGHT	DE FOR BACKFI									NO
			! (Fb = 800 PSI, BASED E ELEMENTS SHALL B							1) M	XIMUM HEIGH	GHT OF DECK SUPPORT POSTS AS FOLLOWS:	
A	LL LVL LUMBER TO	BE 1.75" WIDE NOMI	INAL EACH SINGLE MI	EMBER AND Fb	= 2600 PSI, E = 1.9M F								
			VAL EACH SINGLE ME								POST SIZE		
			S SHALL BE AT (2) 2x1 DR INTERIOR AND EX								6 x 6		FLOOF P
			EAMS) SHALL BE AST		50.						***	OVER 20'-0"	
		LL BE ASTM A53 GR	ANNELS SHALL BE AS ADE B.	IM A36.						* Tł		BASED ON NO. 2 TREATED SOUTHERN PINE POSTS. UM TRIBUTARY AREA IS BASED ON 128 TOTAL SQUARE FEET	
, P L	ROVIDE SOLID BEA AG SCREWS (1/2"Ø :	RING FROM BEAM S x 4" LONG). LATERAI	FEACH END WITH A M UPPORT TO FOUNDA L SUPPORT IS CONSIL	TION. BEAMS SH DERED ADEQUA	HALL BE ATTACHED T TE PROVIDED THE J	TO EACH SUPPORT OISTS ARE TOE NA	WITH TWO (2)				WHICH M. OM TOP OF FO	MAY BE LOCATED AT DIFFERENT LEVELS. FOOTING TO BOTTOM OF GIRDER POST HEIGHTS OVER 20'-0" SHALL BE DESIGNED AND	
10) P	ROVIDE ANCHOR B	OLT PLACEMENT PE	RE NAILED OR BOLTE	/2"Ø ANCHOR B	OLTS SPACED AT 4'-()" O.C. AND PLACE				2) DE		D BY A PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT.	
			CHOR BOLT SHALL EX WIDTH OF THE PLATE							΄ Τŀ	IESE METHOD	DDS:	
11) F	OUNDATION DRAIN	AGE-DAMP PROOFIN	NG OR WATERPROOF	ING PER SECTION	ON 405 AND 406 OF N	C BUILDING CODE.				A. Th	ATTACHE	DOR HEIGHT IS LESS THAN 4'0" AND THE DECK IS HED TO THE STRUCTURE IN ACCORDANCE WITH SECTION (4) LATERAL BRACING IS NOT REQUIRED.	8"X16" BLO
Ý W		ALL BE DESIGNED FO	OR 28.0 POUNDS PER		(LBS/SQFT) OR GRE	ATER POSITIVE AN	D NEGATIVE PF	RESSURE.		B. 4:	4 WOOD KNE	DIRECTIONS. THE KNEE BRACES SHALL ATTACH TO EACH POST	OPENINGS F
3	9.0 LBS/SQFT FOR F	POSITIVE AND NEG ROOF PITCHES 0/12 ROOF PITCHES 1.5/12		OLLOWS:							AT A POIN	OINT NOT LESS THAN 1/3 OF THE POST LENGTH FROM THE F THE POST, AND THE BRACES SHALL BE ANGLED BETWEEN	
18		ROOF PITCHES 6/12									TO THE P	D 60° FROM THE HORIZONTAL. KNEE BRACES SHALL BE BOLTED E POST AND GIRDER WITH ONE 5/8"Ø HOT DIPPED GALVANIZED	
			H 4/12. BUILDER TO IN	ISTALL 2 LAYER	S OF 15# FELT PAPE	R.				C. FC	R FREESTAND	IT EACH END OF THE BRACE. INDING DECKS WITHOUT KNEE BRACES OR DIAGONAL	
14) R	EFER TO SECTION	R602.3 FOR FRAMIN	G OF ALL WALLS OVE	R 10'-0" IN HEIG	HT.							VG, LATERAL STABILITY MAY BE PROVIDED BY EMBEDDING THE IN ACCORDANCE WITH THE FOLLOWING:	
15) P	ROVIDE CONTINUO	US SHEATHING PER	SECTION 602.10.3 OF	F THE 2018 NCR	С.						DOCT OF	NAX. TRIBUTARY MAX. POST EMBEDMENT CONCRETE	
16) U	PLIFT LOADS GREA	TER THAN 500# SHA	ALL BE CONTINUOUSL	Y ANCHORED T	O THE FOUNDATION						POST SIZ	AREA HEIGHT DEPTH DIAMETER	
17) R	EFER TO TABLE N1	102.1 FOR PRESCRI	PTIVE BUILDING ENVE	ELOPE THERMA	L COMPONENT CRITE	ERIA.					4 x 4		
18) P	SL COLUMNS DESIC	GNED WITH MAXIMU	M HEIGHT OF 9'-0" (U.	N.O.)						l	6 x 6	6 120 SQ. FT. 6'-0" 3'-6" 1'-8"	
,			ATERAL CONNECTIO			, ,				D. 2:		AL VERTICAL CROSS BRACING MAY BE PROVIDED IN TWO	
,											TO THE S	E STRUCTURE AT THE EXTERIOR COLUMN LINE FOR ATTACHED DECKS. x 6s SHALL BE ATTACHED TO THE POSTS WITH ONE 5/8"Ø HOT	
			TY TO VERIFY ALL DIN S NOT RESPONSIBLE I					ON BEGINS.		E. FC		D GALVANIZED BOLT AT EACH END OF EACH BRACING MEMBER. ENT OF PILES IN COASTAL REGIONS, SEE CHAPTER 46.	
			GLAZED		WOOD	MASS		BASEMENT ^{c,o}	SLAB ^d	CRAWL SP	ACE °	WALL, ISLAND, OR CABINETRY	
CLIMATE ZONES	FENESTRATIO U-FACTOR	N SKYLIGHT ^b	FENESTRATION SHGC ^{b,<u>k</u>}	CEILING ^m R-VALUE	FRAMED WALL R-VALUE	WALL R-VALUE	FLOOR R-VALUE	WALL R-VALUE	R-VALUE AND DEPTH	WALL R-VALU			
3	0.35	0.55	0.30	38 or 30 cont	<u>15</u> or 13 + 2.5 ^h	<u>5/13 or</u> 5/10 cont	19	<u>5/13</u> f	0	5/13			
4	0.25	0.55	0.20	38 or 30	15 or	<u>5/13 or</u>	10	40/45	10	40/45			
5	0.35	0.55	0.30	cont j	13 + <u>2.5</u> " " 19, or 13 + 5	5/10 cont h 13/17 or	19	<u>10/15</u>	10	<u>10/15</u>			
5	<u>0.35</u>	0.55	NR	<u>38 or 30</u> <u>cont</u> j	$rac{13, 0113 + 3}{0115 + 3}$ h	<u>13/12.5 cont</u>	30 ^g	<u>10/15</u>	10	<u>10/19</u>			
		LE N1102.1 CLI	MATE ZONES 3-	5								DOUBLE JOIST AS REQ'D FLOOR JOISTS PER PLAN	
NO SCAL		F THE INSULATION, THE INST.	ORS AND SHGC ARE MAXIMUMS ALLED R-VALUE OF THE INSULA JUUMN EXCLUDED SKYLIGHTS. T	TION SHALL NOT BE LE	SS THAN THE R-VALUE SPECIF		OR DESIGN THICKNESS	3				DOUBLE JOIST DETAIL	
	(SHGC) COLUMN APPLIES TO A										NO SCALE	
	d. FOR I	R R-15 CAVITY INSULATION A MONOLITHIC SLABS, INSULATI	T THE INTERIOR OF THE BASEM ION SHALL BE APPLIED FROM TH	IENT WALL OR CRAWL S HE INSPECTION GAP DO	PACE WALL. WNWARD TO THE BOTTOM								
	SH	ALL EXTEND TO THE BOTTOM	M OF 24" BELOW GRADE WHICHE I OF THE FOUNDATION WALL OF EDGE R-VALUES FOR HEATED :	R 24", WHICHEVER IS LE	ATING SLABS, INSULATION SS. R-5 SHALL BE							FLOOR JOISTS PER PLAN	
		MENT WALL INSULATION IS NO	OT REQUIRED IN WARM-HUMID L		BY FIGURE N1101.7 AND TABL	<u>E N1101.7</u> .						<u> </u>	
	h. THE I	FIRST VALUE IS CAVITY INSUL	L THE FRAMING CAVITY. R-19 N ATION, THE SECOND VALUE IS (CONTINUOUS INSULATI									
	<u>I</u>	NSULATING SHEATHING IS NO	I5 CAVITY INSULATION. PLUS R- TREQUIRED WHERE THE STRU SUPPLEMENTED WITH INSULATE	ICTURAL SHEATHING IS	USED. IF STRUCTURAL SHEAT	HING COVERS MORE THAN 2						DOUBLE JOIST 2X4 SPACER @ 24" OC	
	i. FOR M	NSULATION PLUS R-2.5 SHEAT MASS WALLS, THE SECOND R-		HAN HALF THE INSULAT	ION IS ON THE INTERIOR MASS	WALL.	0 CREATER T					DOUBLE JOIST	
	PE	RMITTED TO BE SUBSTITUTED	D FOR MINIMUM CODE COMPLIA N SECTION N1102.3.3, A MAXIMU	NT FENESTRATION PRO	DUCT ASSEMBLIES WITHOUT	PENALTY.							
	<u>PE</u> I. R-30 S	RMITTED TO BE SUBSTITUTED SHALL BE DEEMED TO SATISF	D FOR MINIMUM CODE COMPLIA Y THE CEILING INSULATION REC B INSULATION IS REQUIRED WHE	NT FENESTRATION PRO QUIREMENT WHEREVER	DUCT ASSEMBLIES WITHOUT I THE FULL HEIGHT OF UNCOM	PENALTY. PRESSED R-30 INSULATION I	EXTENDS OVER THE W	ALL TOP PLATE					
	OF m. TABLE	THE ATTIC ROOF DECK. VALUE REQUIRED EXCEPT F	OR ROOF EDGE WHERE THE SP	PACE IS LIMITED BY THE	PITCH OF THE ROOF; THERE 1	THE INSULATION MUST FILL	THE SPACE UP TO THE	AIR BAFFLE.					
	AN	D INSTALLED IN A 2X4 WALL IS	SED AND INSTALLED IN A NOMI S NOT DEEMED TO COMPLY. IIMUM MASS WALL SPECIFIC HE					<u>IEGGED</u>					
												DOUBLE JOIST	
												AS REQ'D PER PLAN 2X4 SPACER @ 24" OC,	
												SECURED W/ (3)10d NAILS EACH SIDE	
												* SPACED DOUBLE JOIST DETAIL	
												NO SCALE	

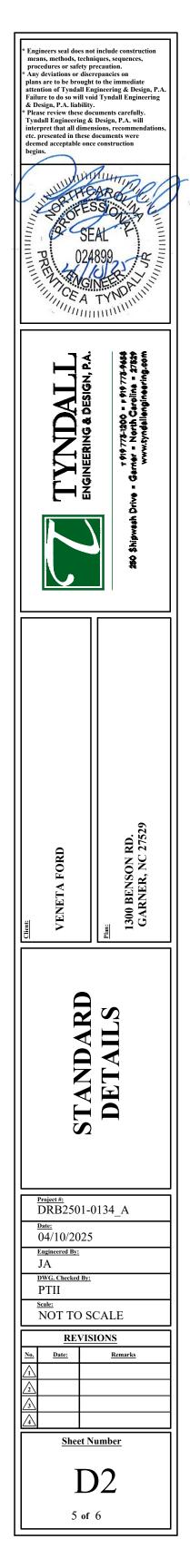
0rb\drb_2025\drb2501-0134_deneta_ford\drb2501-0134_A_veneta_ford\cad_file\$\drb2501-0134_A_e.dwg saved by: Jay Last plot date4/10/2025 8:40 am

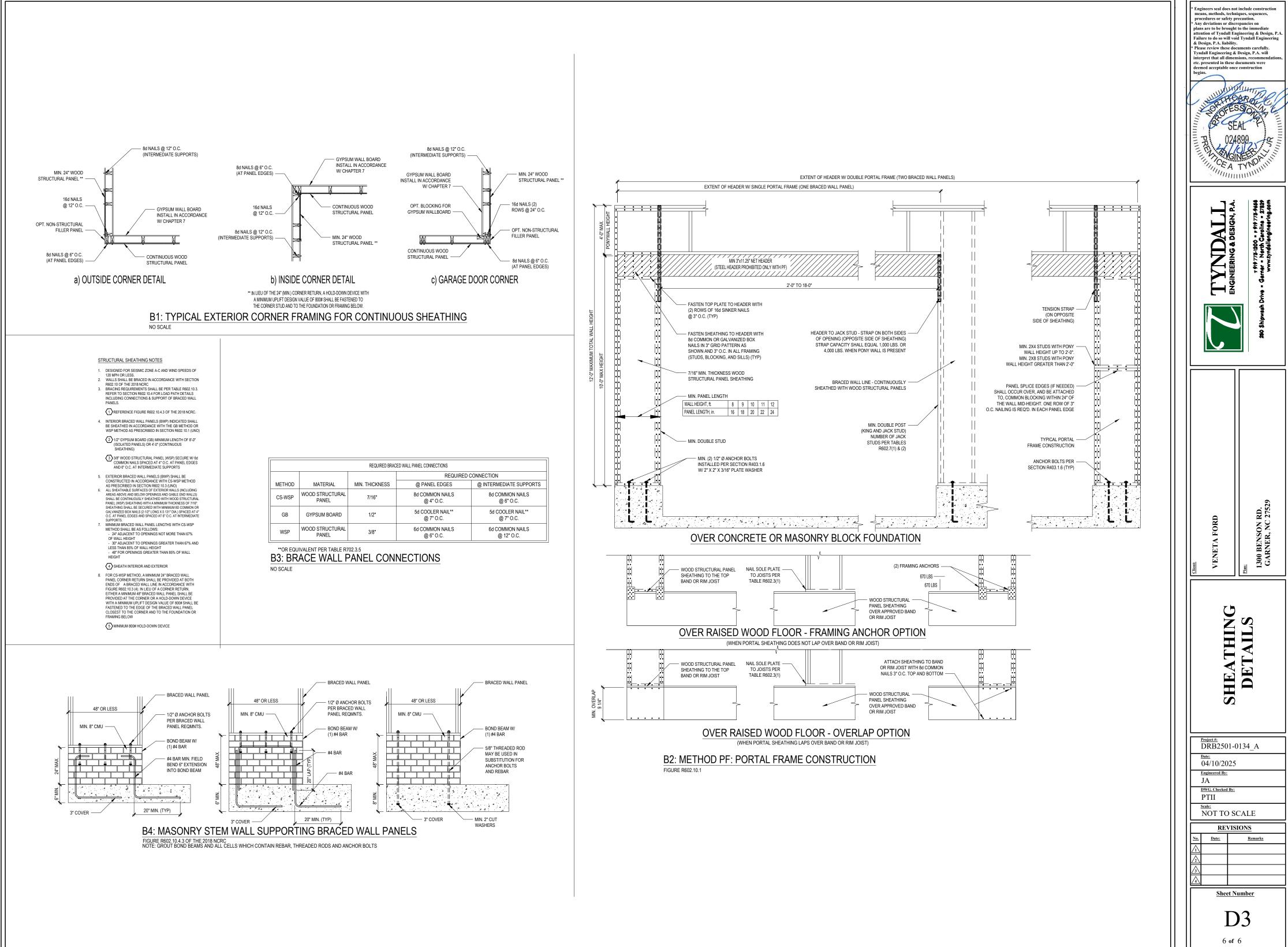












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