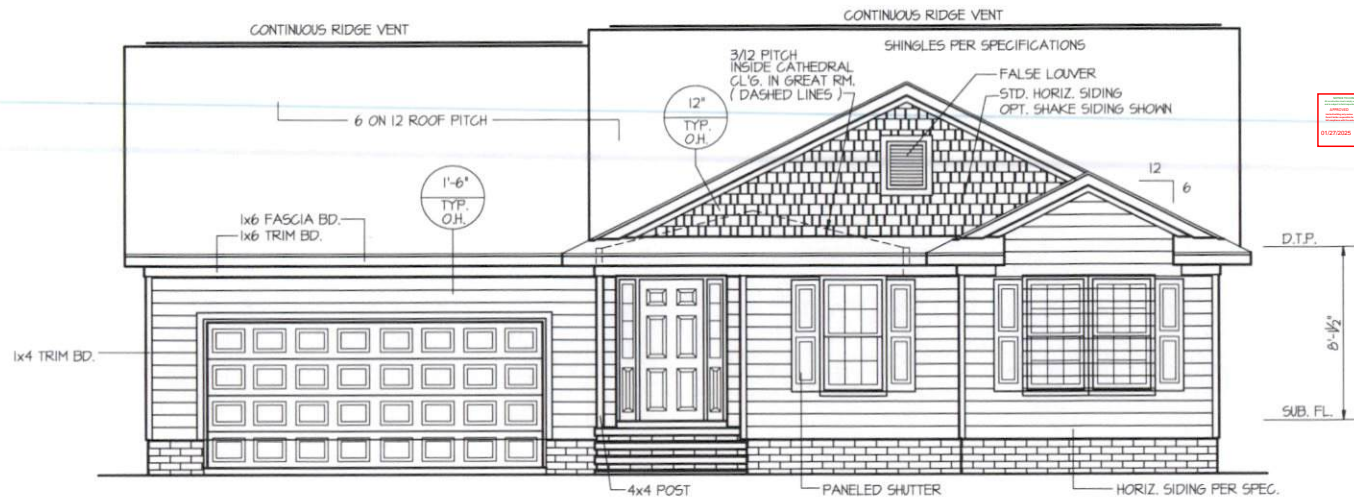


THIS PLAN IS DESIGNED TO MEET THE REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION

DATE:

NOV. 26, 2024



**FRONT ELEVATION**

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

**INSULATION and FENESTRATION REQUIREMENTS**

CLIMATE ZONE	ZONE-3	ZONE-4
FENESTRATION U-FACTOR	0.35	0.35
GLAZED FENESTRATION SHGC	0.30	0.30
MINIMUM CEILING R-VALUE	R-36	R-36
MINIMUM WALL R-VALUE	R-15, (3+2.5)	R-15, (3+2.5)
MINIMUM FLOOR R-VALUE	R-14	R-14
MIN. GRAVE SPACE WALL R-VALUE	5/13	10/15
MIN. SLAB R-VALUE	0	R-10

PROVIDE STEPS AS REQUIRED  
GRADE MAY VARY - BUILDER TO VERIFY

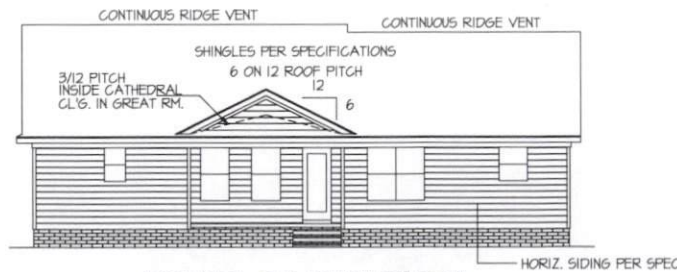
ALL EXTERIOR WALLS TO BE SHEATHED WITH CS-MSP (1/16" OSB) IN ACCORDANCE WITH SECTION R602.10.3 UNLESS OTHERWISE NOTED.

**WIND ZONES (PER TABLE R301.2(4))**

COUNTY	MPH
HARNETT	120
JOHNSTON	120
SAMPSON	130
WAKE	115

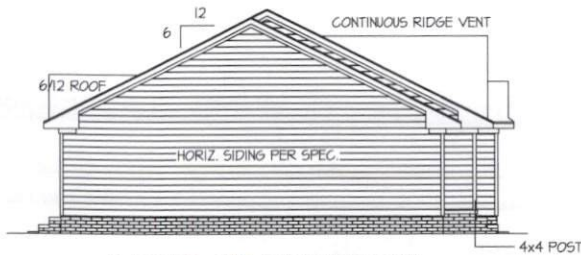
ROOF VENTILATION REQ'N'S.  
1911 ATTIC SQ. FT. / 300 = 6.37

PROVIDED ON PLAN  
70 L.F. RIDGE VENT = 13.1  
104 L.F. SOFFIT VENT = 6.5  
TOTAL = 19.6 S.F. FREE NET AREA



**REAR ELEVATION**

SCALE: 1/8" = 1'-0"



**LEFT ELEVATION**

SCALE: 1/8" = 1'-0"



**RIGHT ELEVATION**

SCALE: 1/8" = 1'-0"

**FREEDOM FAMILY HOMES**

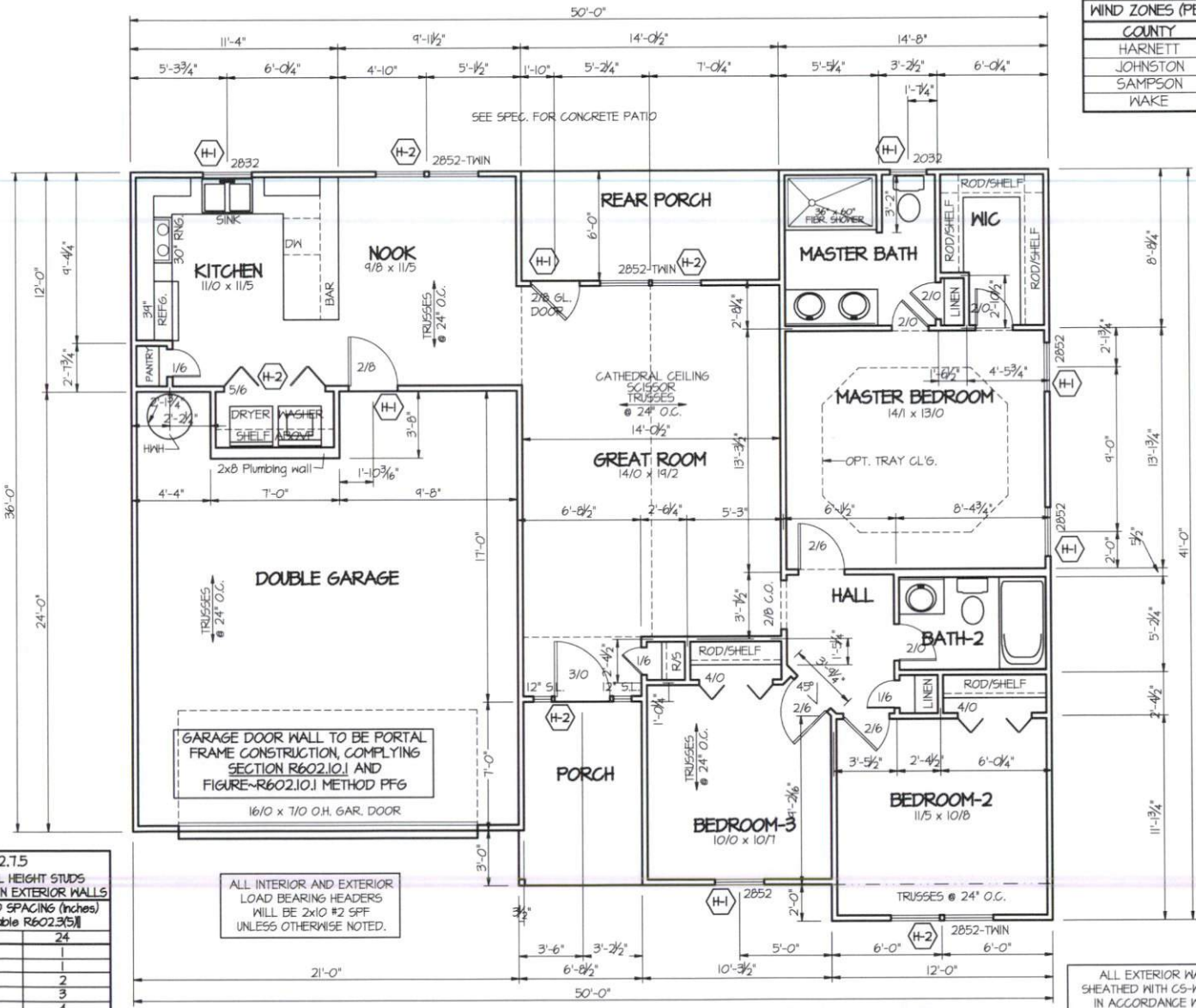
P.O. BOX 608  
DUNN, N.C. - 28335  
O: (910) 892-1231 FAX: (910) 892-5680  
© 2024, FREEDOM FAMILY HOMES



**EXCLUSIVE PLAN FOR  
FREEDOM FAMILY HOMES  
ALEXANDER ~ MERCALDO**

SHEET NO.

**1**



COUNTY	MPH
HARNETT	120
JOHNSTON	120
SAMPSON	130
WAKE	115

DATE:  
DEC. 10, 2024  
REVISION/SHOWER  
DEC. 13, 2024

**FREEDOM FAMILY HOMES**  
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EXCLUSIVE PLAN FOR  
FREEDOM FAMILY HOMES  
**ALEXANDER ~ MERCALDO**

HEADER SPAN (feet)	MAX. STUD SPACINGS (inches) [per Table R602.3(5)]	
	16	24
< 3'	1	1
4'	2	1
8'	3	2
12'	5	3
16'	6	4

ALL INTERIOR AND EXTERIOR  
LOAD BEARING HEADERS  
WILL BE 2X10 #2 SFF  
UNLESS OTHERWISE NOTED.

SECTION R407-COLUMNS  
R407.3 STRUCTURAL REQUIREMENTS.  
THE COLUMNS SHALL BE RESTRAINED TO PREVENT LATERAL  
DISPLACEMENT AT THE TOP AND BOTTOM END. WOOD COLUMNS  
SHALL BE NOT LESS IN NOMINAL SIZE THAN 4 INCHES BY 4 INCHES  
(102 mm BY 102 mm). STEEL COLUMNS SHALL BE NOT LESS THAN  
3-INCH-DIAMETER (76 mm) SCHEDULE 40 PIPE MANUFACTURED IN  
ACCORDANCE WITH ASTM A53 GRADE B OR APPROVED EQUIVALENT.

8' CEILING (UNLESS OTHERWISE NOTED)  
**FLOOR PLAN**  
SCALE: 1/4" = 1'-0"  
TOTAL HEATED SQUARE FOOTAGE = 1282 S.F.  
FRONT PORCH SQUARE FOOTAGE = 65 S.F.  
REAR PORCH SQUARE FOOTAGE = 74 S.F.  
DOUBLE GARAGE SQUARE FOOTAGE = 480 S.F.

SYMBOL #	SIZE	JACKS
H-1	(2) 2x10	1
H-2	(2) 2x10	2
H-3	(2) 2x8	2
H-4	(2) 2x12	2
H-5	(2) 1.75 x 9.25 LVL	3

ALL EXTERIOR WALLS TO BE  
SHEATHED WITH CS-MSP (7/16" OSB)  
IN ACCORDANCE WITH SECTION  
R602.10.3 UNLESS OTHERWISE NOTED.

GIRDER AND HEADER SIZES AND JACK STUD  
REQUIREMENTS ON EXTERIOR AND INTERIOR LOAD  
BEARING WALLS ARE TO COINCIDE WITH TABLE  
EXT.-R602.7 (1) AND INT.-R602.7 (2).

SHEET NO.  
**2**

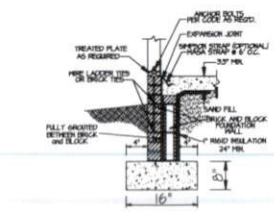
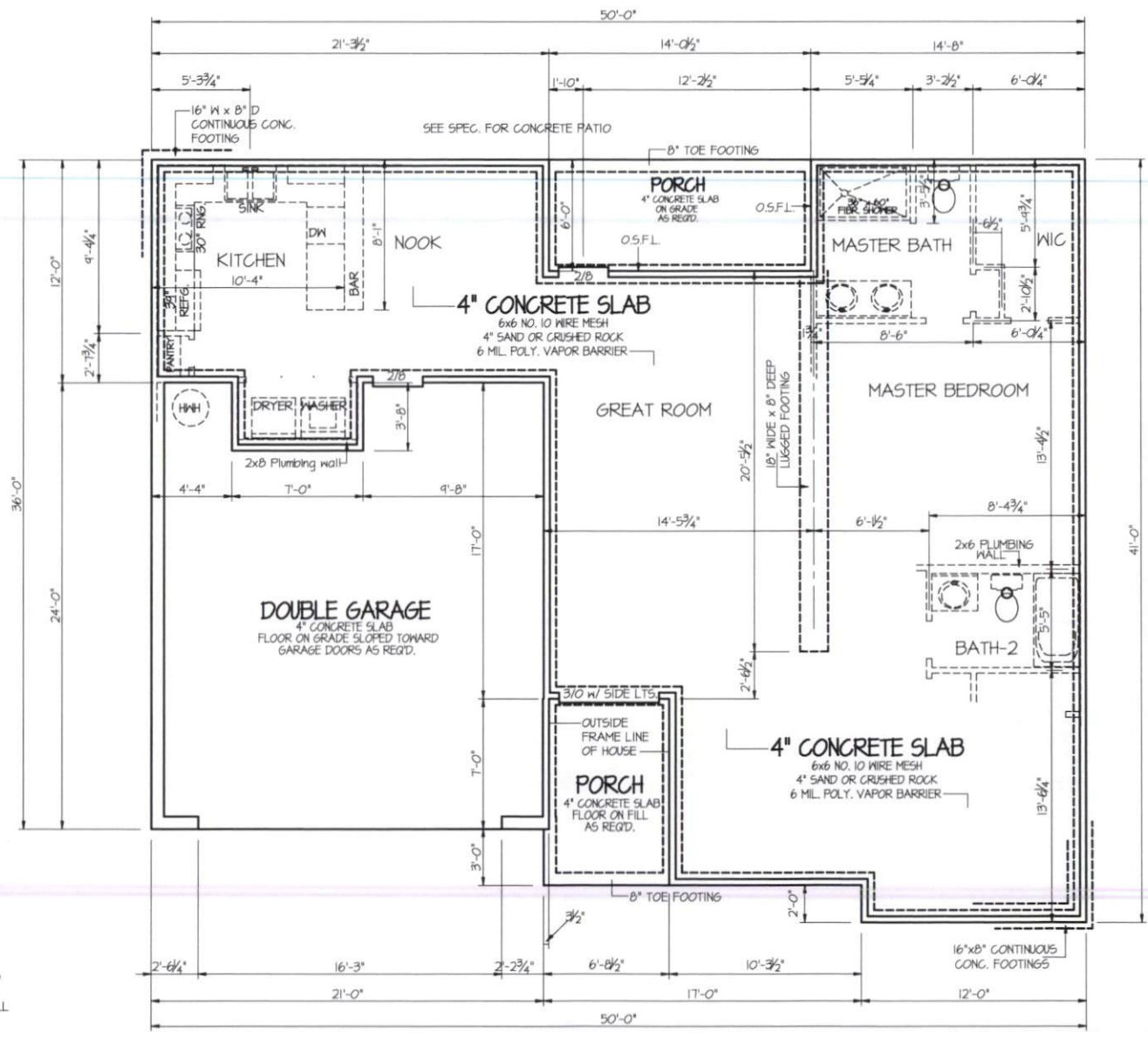
DATE:  
DEC. 10, 2024  
REVISION/SHOWER  
DEC. 13, 2024

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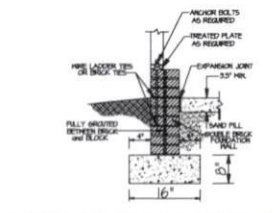


EXCLUSIVE PLAN FOR  
FREEDOM FAMILY HOMES  
ALEXANDER ~ MERCALDO

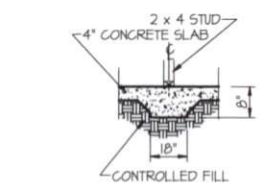
SHEET NO.  
**3s**



TYP. SLAB @ EXT. WALL



TYP. SLAB @ GAR. WALL



LUGGED FOOTING

SLAB NOTES:  
USE 4" CONCRETE SLAB ON FILL AS REQ'D.  
TREAT SOIL FOR TERMITES AS REQ'D. BY LOCAL AND STATE CODES.  
HOLD GARAGE SLAB 4" MIN. BELOW HOUSE SLAB.  
SLOPE GARAGE SLAB FOR PROPER DRAINAGE.  
PROVIDE STEPS TO GRADE.  
PROVIDE HOSE BIBBS AS PER SPECIFICATIONS

FOUNDATION ANCHORAGE  
THE WOOD SILL PLATE ON PERIMETER SHALL BE ANCHORED TO THE FOUNDATION WALLS WITH ANCHOR BOLTS SPACED A MAXIMUM OF 4' ON CENTER. ANCHOR BOLTS SHALL ALSO BE LOCATED WITHIN 12" FROM THE ENDS OF EACH PLATE SECTION. BOLTS SHALL BE AT LEAST 1/2" IN DIAMETER AND SHALL EXTEND A MINIMUM OF 15" INTO MASONRY OR CONCRETE.

N.C. SPECIFIC  
CONCHECK OR ASHRAE 90.1  
2013 CONCHECK SHALL BE PERMITTED  
TO DEMONSTRATE COMPLIANCE  
WITH THE N.C. 2018 ENERGY  
CONSERVATION CODES.  
(SECTION 640.2 (3))

STEM WALL SLAB  
**FOUNDATION PLAN**  
SCALE: 1/4" = 1'-0"

COMPUTER FILED - "ALEXANDER-MERCALDO" - NOV.-2024

