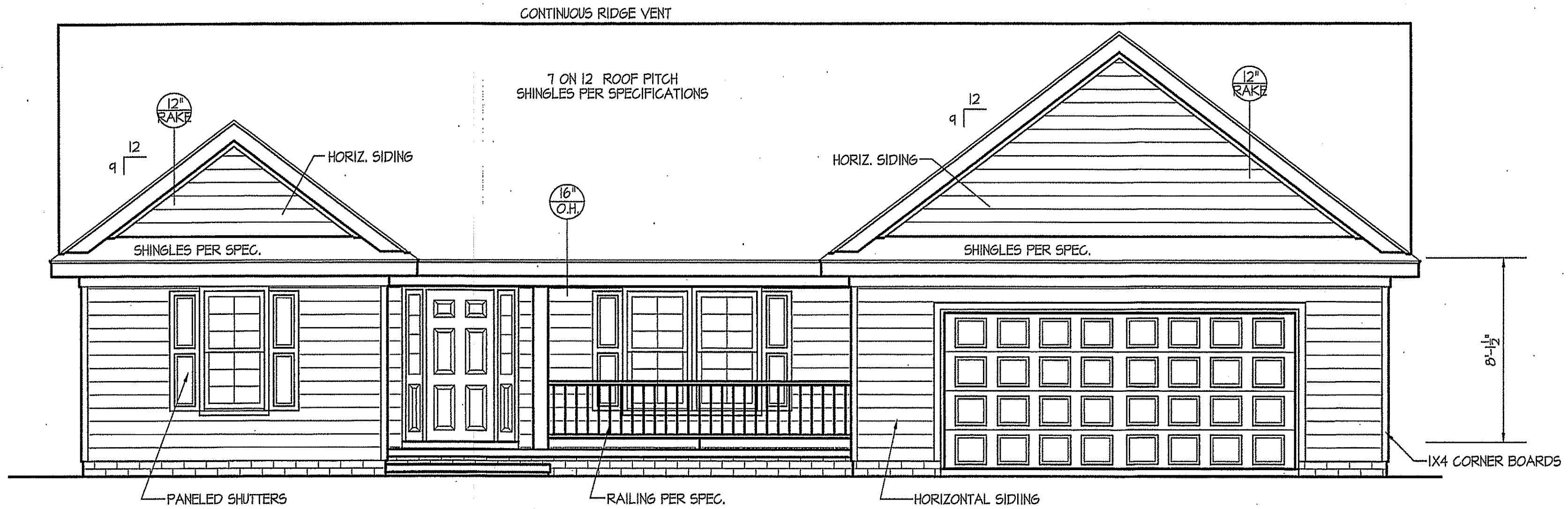


THIS PLAN IS DESIGNED TO MEET THE REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION



FRONT ELEVATION

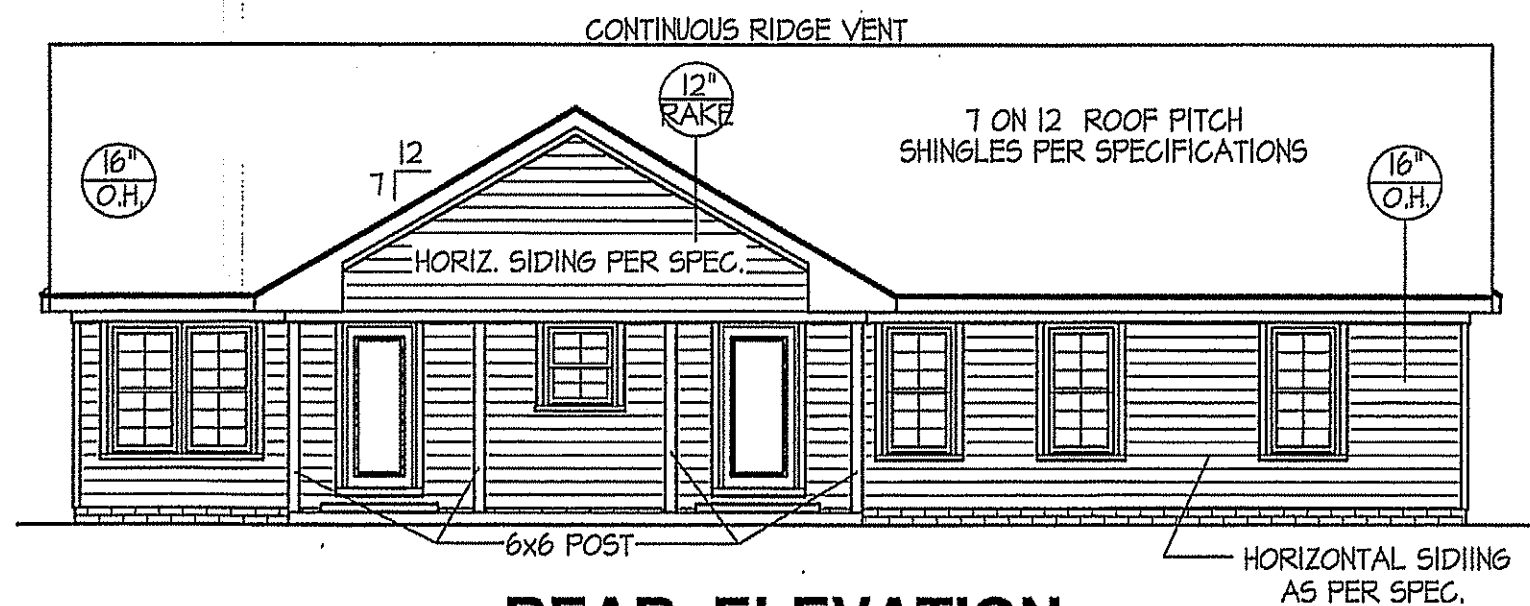
SCALE: 1/4" = 1'-0"

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

COUNTY	MPH
HARNETT	120
JOHNSTON	120
SAMPSON	130
WAKE	115

ROOF VENTILATION REQ'MTS.
2741 ATTIC SQ. FT. / 300 = 9.14

PROVIDED ON PLAN
129 L.F. RIDGE VENT = 24.19
165 L.F. SOFFIT VENT = 10.31
TOTAL = 34.50 S.F. FREE NET AREA



REAR ELEVATION

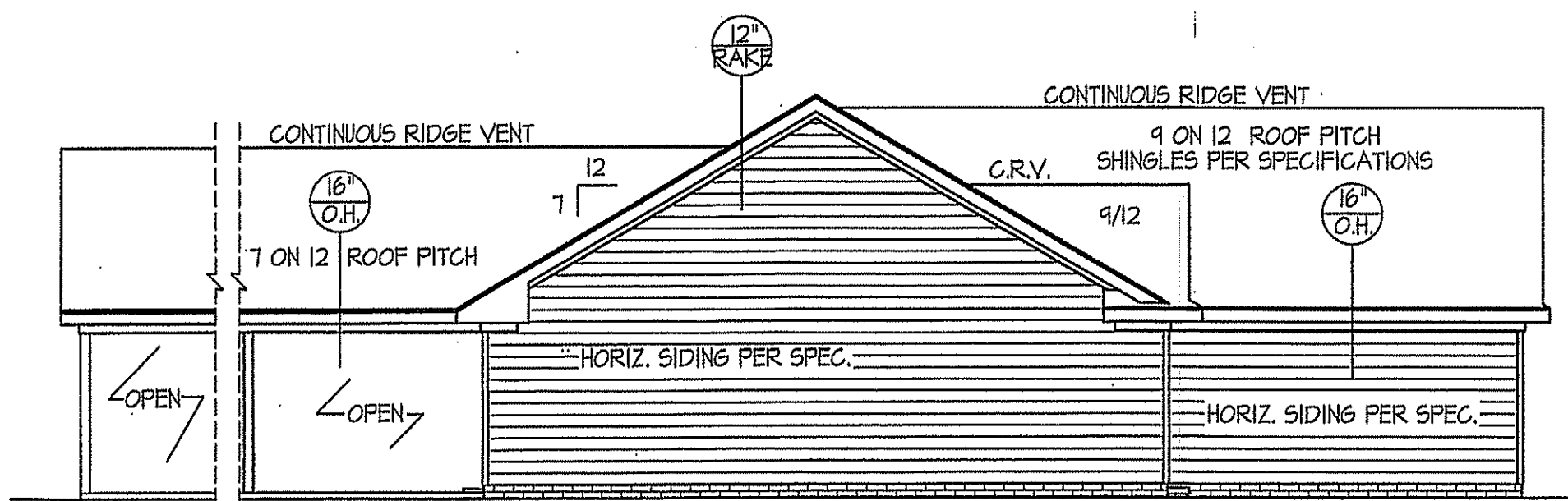
SCALE: 1/8" = 1'-0"

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-38	R-38
MINIMUM WALL R-VALUE	R-15, 13+2.5	R-15, 13+2.5
MINIMUM FLOOR R-VALUE	R-19	R-19
MIN. CRAWL SPACE WALL R-VALUE	5/13	10/15
MIN. SLAB R-VALUE	0	R-10

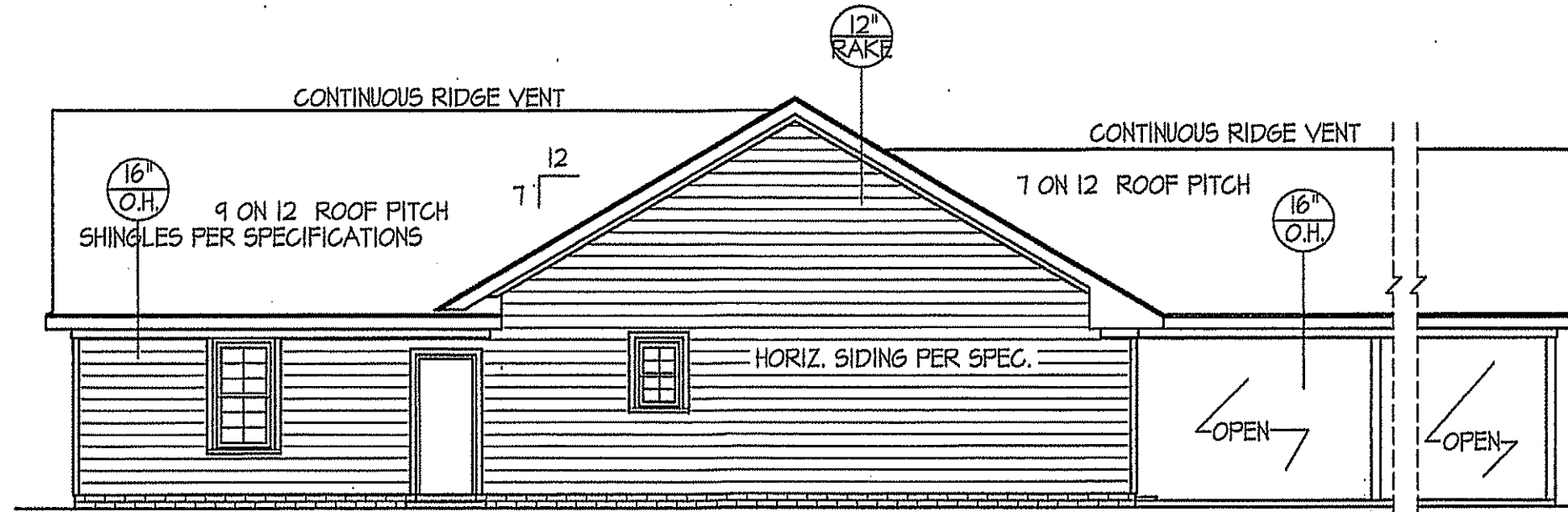
PROVIDE STEPS AS REQUIRED
GRADE MAY VARY - BUILDER TO VERIFY

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



LEFT ELEVATION

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



RIGHT ELEVATION

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

John Strickland
John Strickland

DATE:
JAN. 25, 2021

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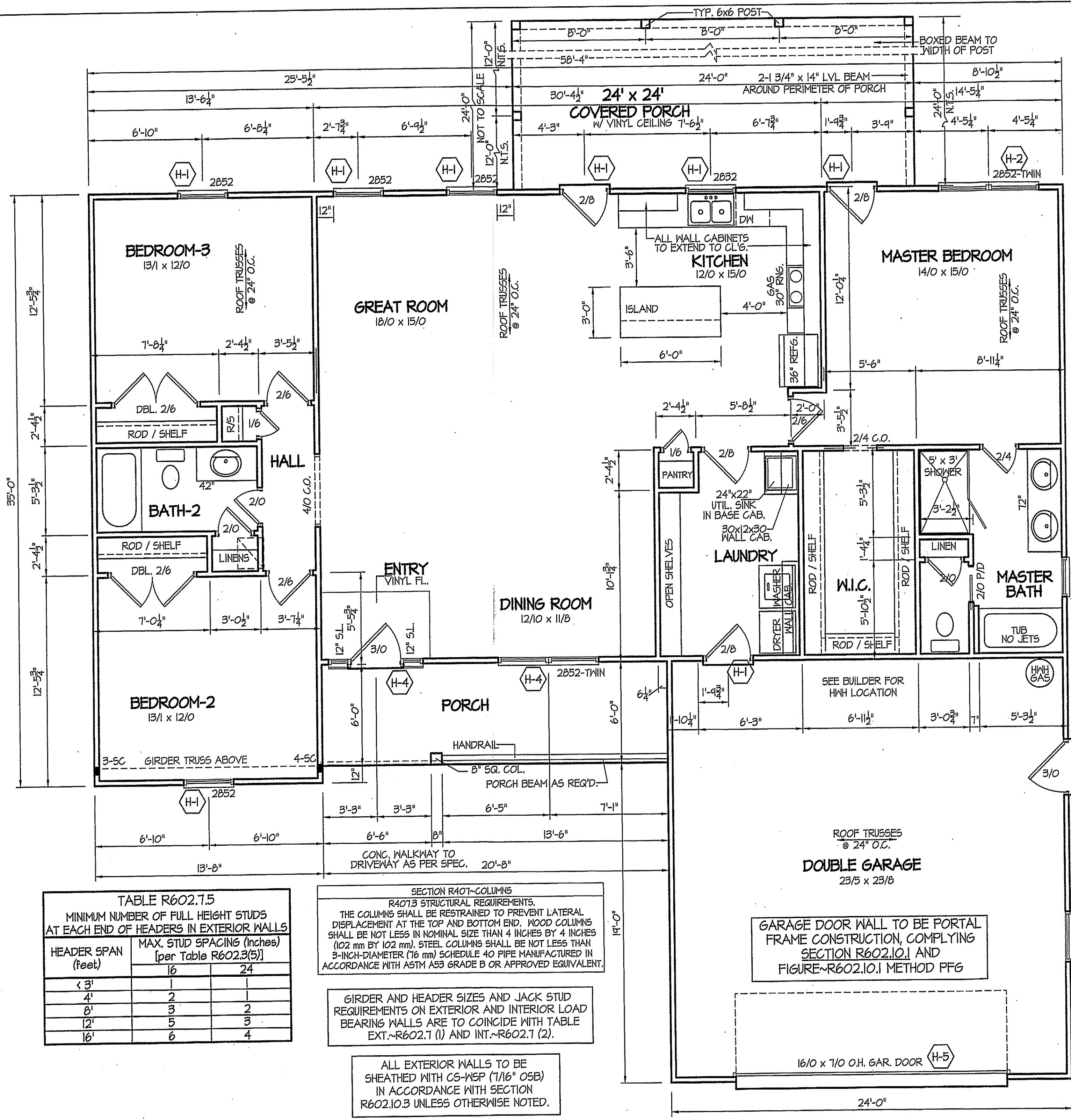
EXCLUSIVE PLAN FOR
FREEDOM FAMILY HOMES

BENSON~STRICKLAND

PLAN:

SHEET NO.

1

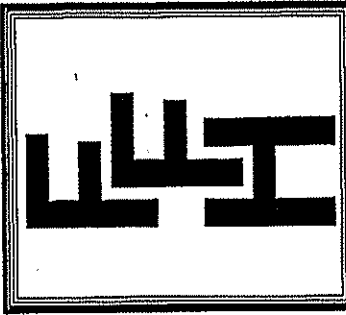


WIND ZONES (PER TABLE R301.2(4))

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JOHNSTON	120
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WAKE	115

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SHEET NO.
2

TABLE R602.7.5
MINIMUM NUMBER OF FULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

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

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.

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).

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

ALL INTERIOR AND EXTERIOR LOAD BEARING HEADERS WILL BE 2x10 #2 SPF UNLESS OTHERWISE NOTED.

HEADER SCHEDULE

JACKS	SIZE	SYMBOL #
1	(2) 2x10	H-1
2	(2) 2x10	H-2
2	(2) 2x8	H-3
2	(2) 3/4" x 9 1/4" LVL	H-4
3	(2) 3/4" x 11 7/8" LVL	H-5

8' CEILINGS
FLOOR PLAN
SCALE: 1/4" = 1'-0"

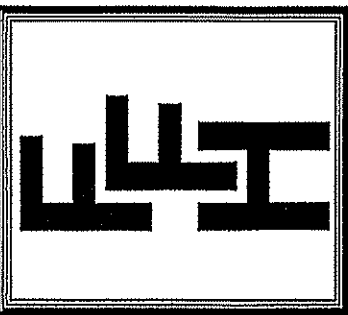
1724 SQUARE FEET - HEATED (FRAME)
600 SQUARE FEET - GARAGE (FRAME)
124 SQUARE FEET - FRONT PORCH
576 SQUARE FEET - COVERED PORCH

Handwritten signature and initials

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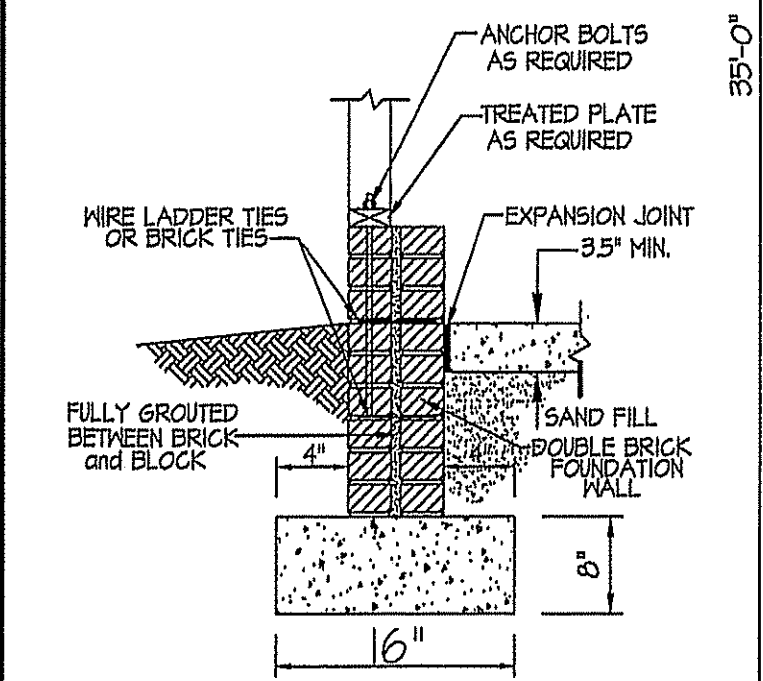
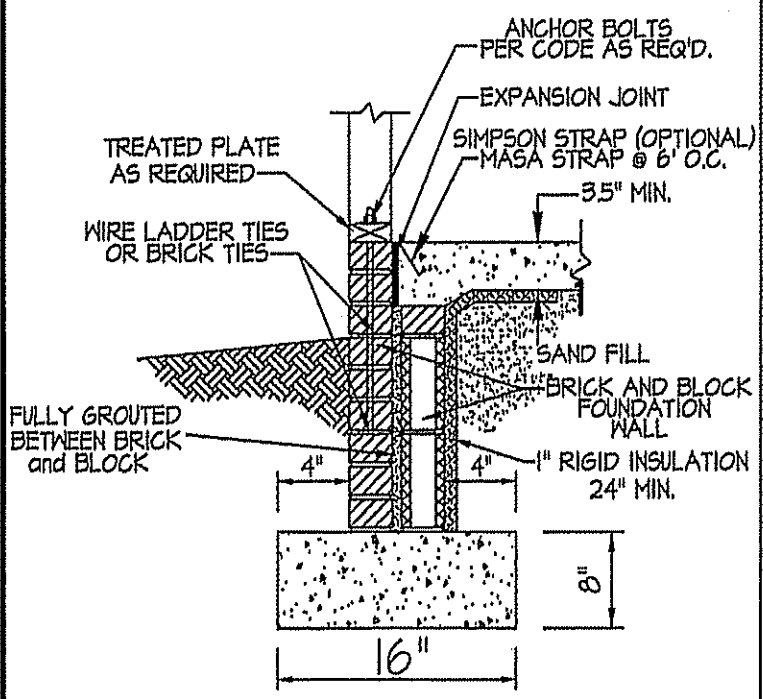
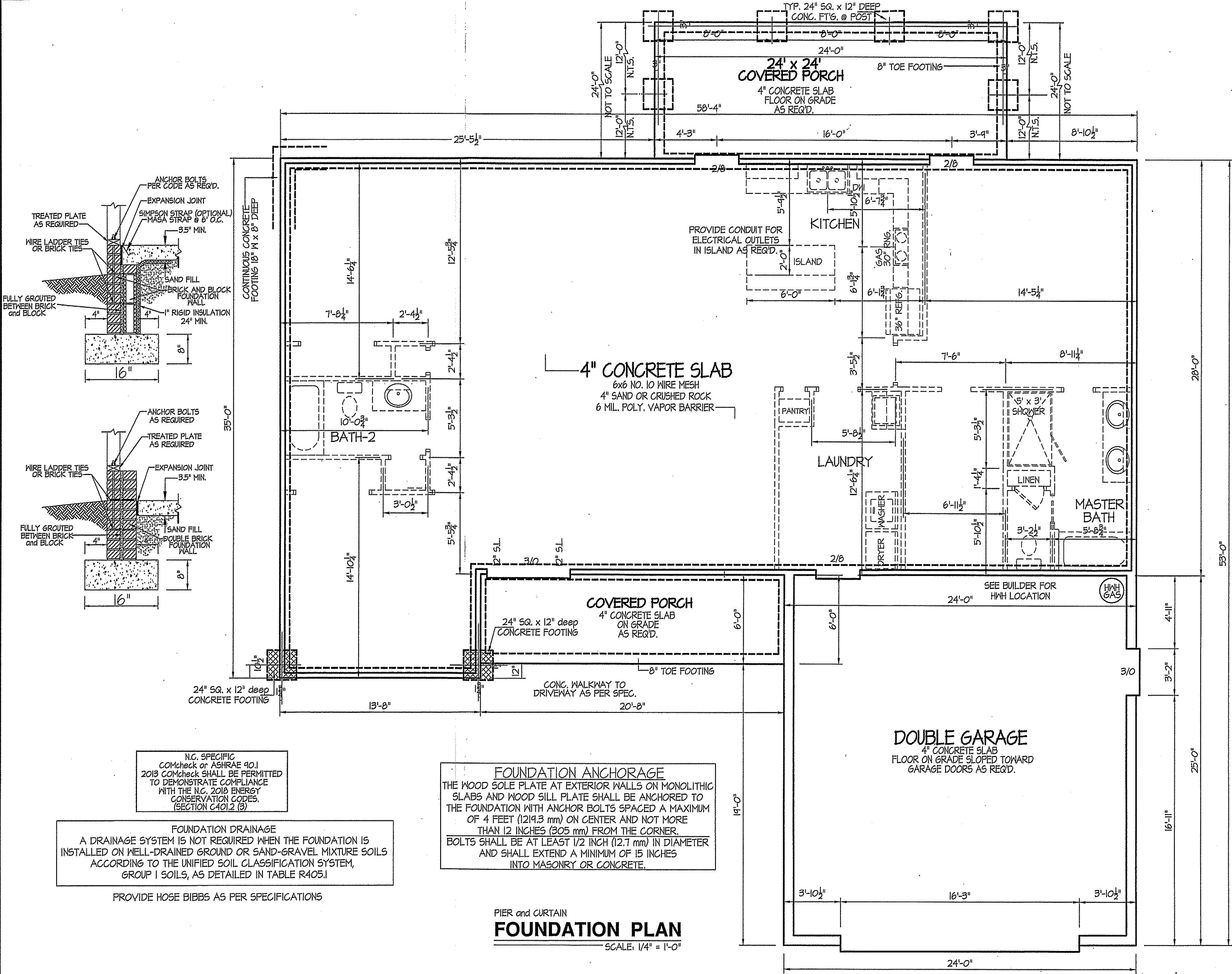
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BENSON~STRICKLAND

SHEET NO.
3S



N.C. SPECIFIC
COMcheck or ASHRAE 90.1
2013 COMcheck SHALL BE PERMITTED
TO DEMONSTRATE COMPLIANCE
WITH THE N.C. 2018 ENERGY
CONSERVATION CODES.
(SECTION C401.2 (3))

FOUNDATION DRAINAGE
A DRAINAGE SYSTEM IS NOT REQUIRED WHEN THE FOUNDATION IS
INSTALLED ON WELL-DRAINED GROUND OR SAND-GRAVEL MIXTURE SOILS
ACCORDING TO THE UNIFIED SOIL CLASSIFICATION SYSTEM,
GROUP 1 SOILS, AS DETAILED IN TABLE R405.1
PROVIDE HOSE BIBBS AS PER SPECIFICATIONS

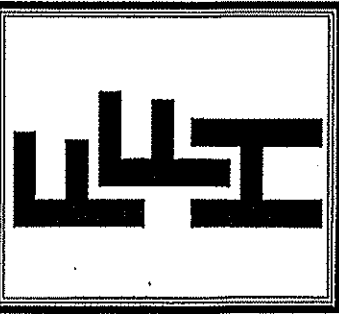
FOUNDATION ANCHORAGE
THE WOOD SOLE PLATE AT EXTERIOR WALLS ON MONOLITHIC
SLABS AND WOOD SILL PLATE SHALL BE ANCHORED TO
THE FOUNDATION WITH ANCHOR BOLTS SPACED A MAXIMUM
OF 4 FEET (1219.3 mm) ON CENTER AND NOT MORE
THAN 12 INCHES (305 mm) FROM THE CORNER.
BOLTS SHALL BE AT LEAST 1/2 INCH (12.7 mm) IN DIAMETER
AND SHALL EXTEND A MINIMUM OF 15 INCHES
INTO MASONRY OR CONCRETE.

PIER and CURTAIN
FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

Handwritten signatures and initials

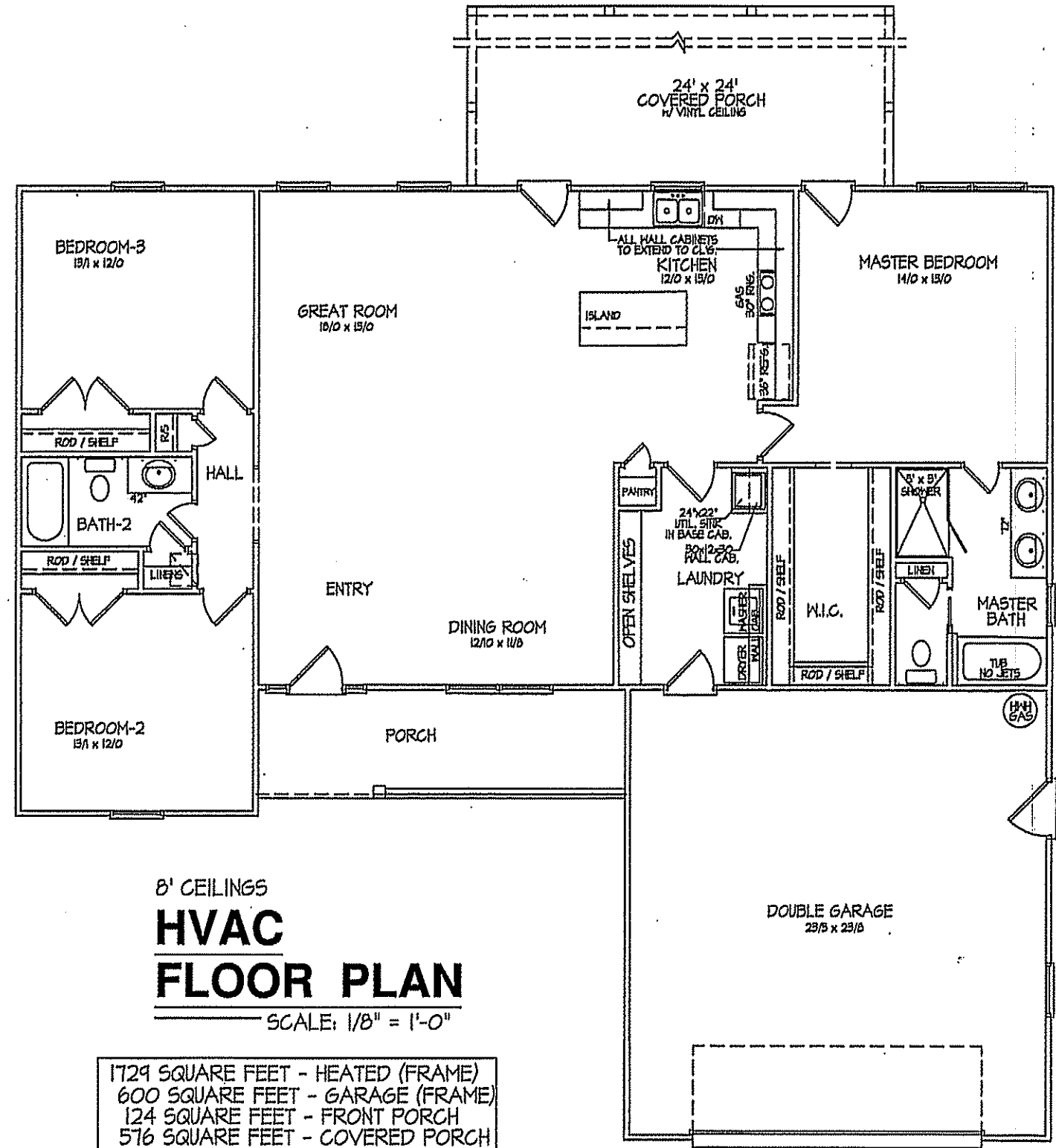
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PLAN:
SHEET NO.
4

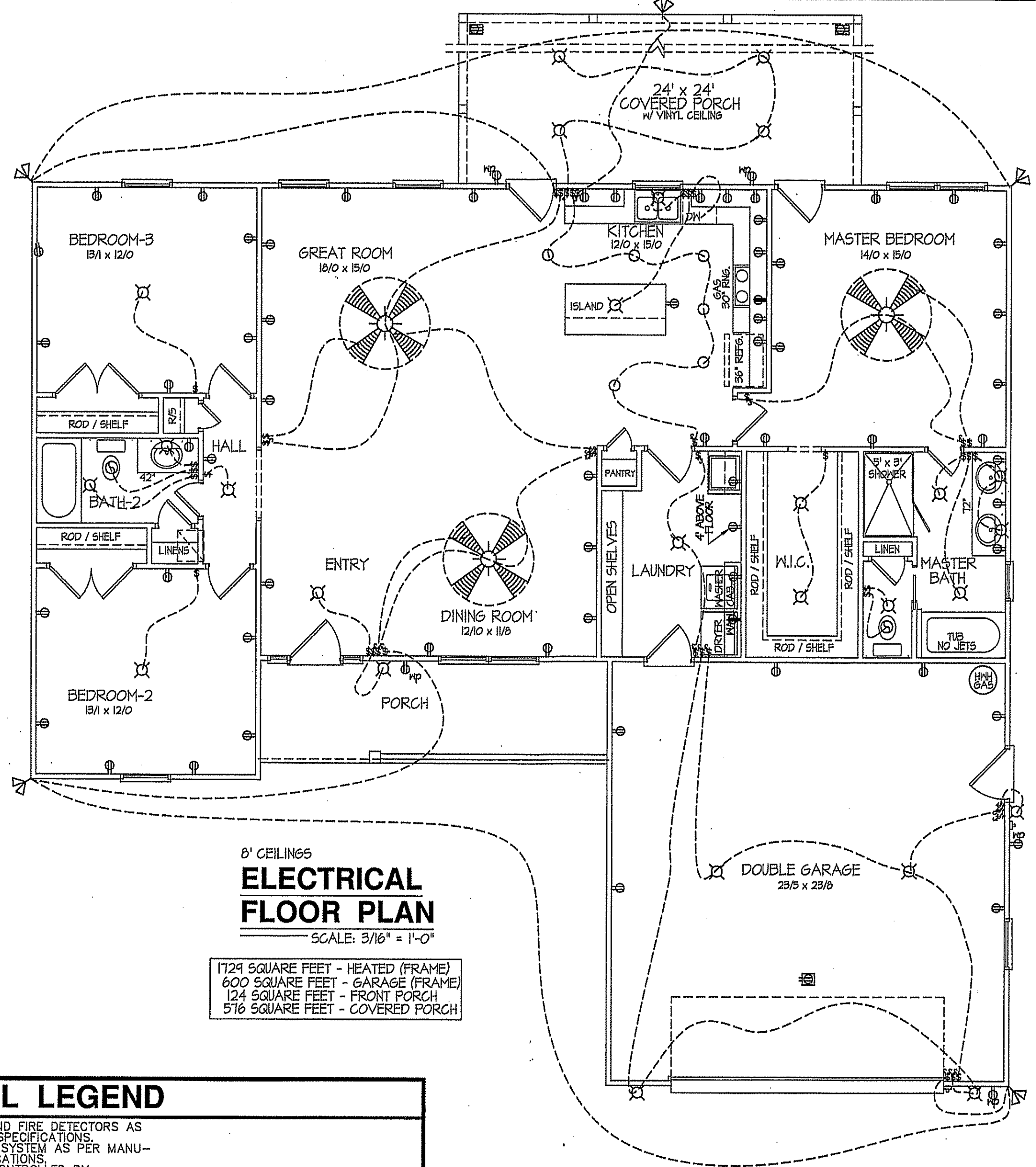


8' CEILINGS
HVAC FLOOR PLAN
SCALE: 1/8" = 1'-0"

1729 SQUARE FEET - HEATED (FRAME)
600 SQUARE FEET - GARAGE (FRAME)
124 SQUARE FEET - FRONT PORCH
576 SQUARE FEET - COVERED PORCH

TOTAL HEAT GAIN = 27,837 B.T.U.H.
TOTAL HEAT LOSS = 44,003 B.T.U.H.

NOTE:
HVAC CONTRACTOR TO VERIFY and PROVIDE OWNERS and BUILDER UNIT INFORMATION, BTUH REQUIREMENTS, and DUCT LAYOUTS BEFORE CONSTRUCTION BEGINS.



8' CEILINGS
ELECTRICAL FLOOR PLAN
SCALE: 3/16" = 1'-0"

1729 SQUARE FEET - HEATED (FRAME)
600 SQUARE FEET - GARAGE (FRAME)
124 SQUARE FEET - FRONT PORCH
576 SQUARE FEET - COVERED PORCH

ELECTRICAL LEGEND		
PROVIDE BURGLAR/SMOKE AND FIRE DETECTORS AS PER MANUFACTURER'S SPECIFICATIONS.		
PROVIDE CENTRAL VACUUM SYSTEM, AS PER MANUFACTURER'S SPECIFICATIONS.		
ALL FANS ARE TO BE CONTROLLED BY VAR/SPEED AND DIRECTIONAL SWITCHES		
⊕ SURF. MOUNTED LIGHT	⊕ TYPICAL WALL RECEP.	⊕ TYPICAL SWITCH
○ RECESSED LIGHT	⊕ TOP 1/2 HOT W/SWITCH	⊕ 3-WAY SWITCH
◉ EYEBALL LIGHT	⊕ CEILING RECEPTACLE	⊕ 4-WAY SWITCH
⊕ FAN/LIGHT COMB.	⊕ FLOOR RECEPTACLE	⊕ KEYLESS ENTRY PN.
— FLUORESCENT TUBE	⊕ WATERPROOF RECEP.	⊕ ELEC. PANEL BOX
□ FLUOR. LIGHT FIXTURE	⊕ GROUND FAULT	⊕ T.V. CABLE RECEP.
⊕ EXHAUST FAN	⊕ DISPOSAL UNIT	⊕ TELEPHONE JACK
⊕ CL'G. FAN	⊕ 220 VOLT RECEPTACLE	⊕ COMPUTER JACK
⊕ FLOOD LIGHT		

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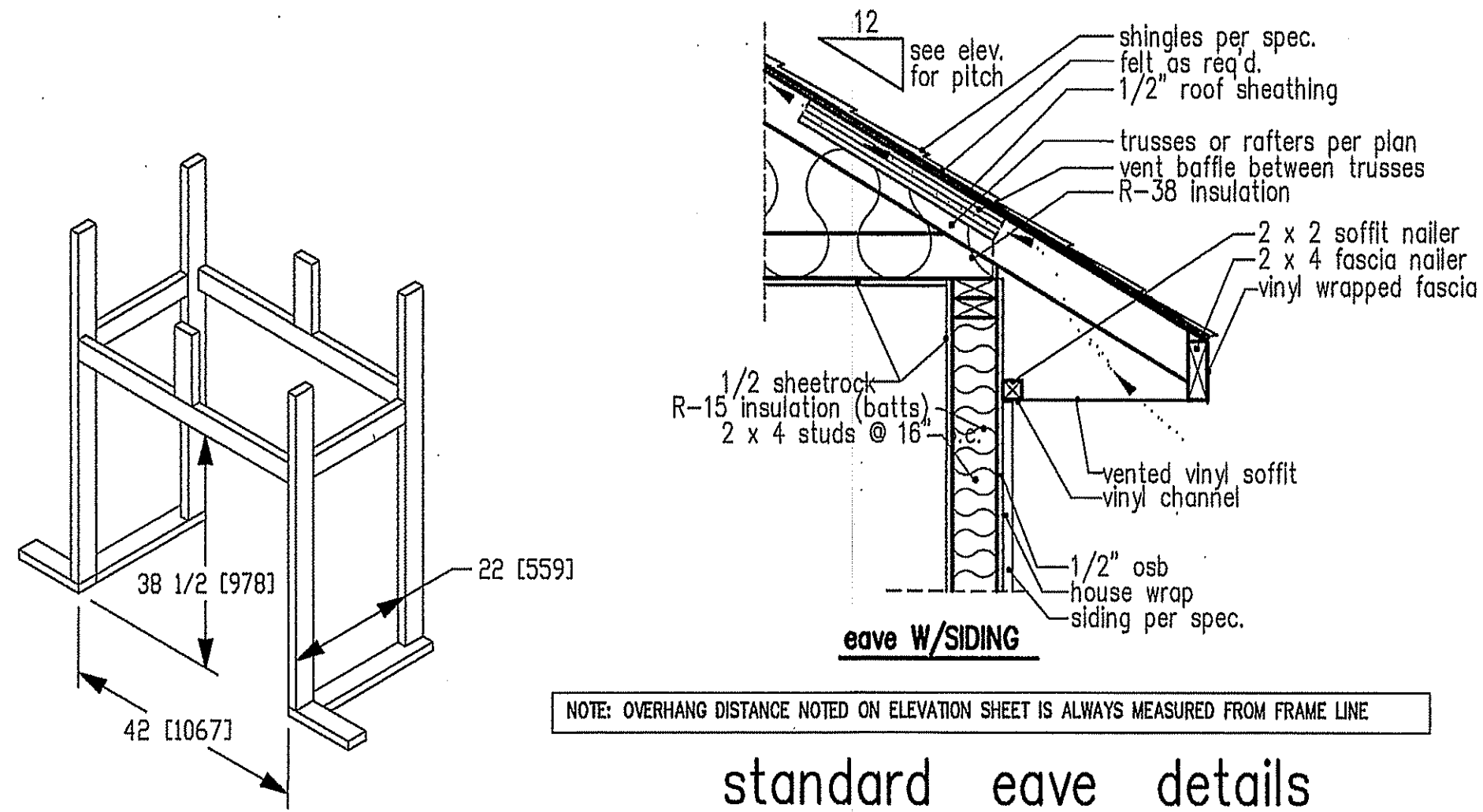
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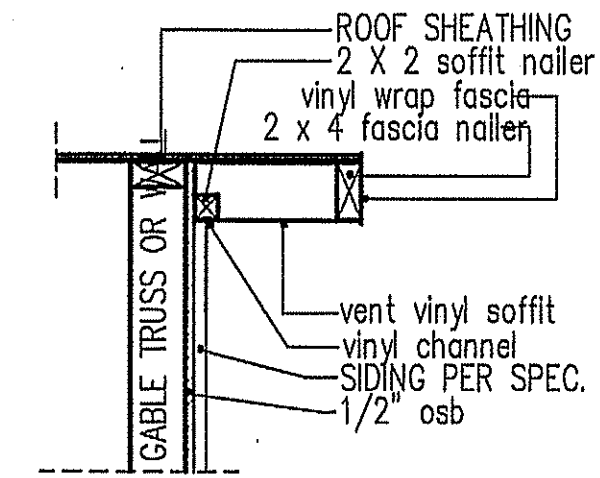
EXCLUSIVE PLAN FOR
FREEDOM FAMILY HOMES
BENSON ~ STRICKLAND

PLAN:
SHEET NO.
5



NOTE: OVERHANG DISTANCE NOTED ON ELEVATION SHEET IS ALWAYS MEASURED FROM FRAME LINE

standard eave details



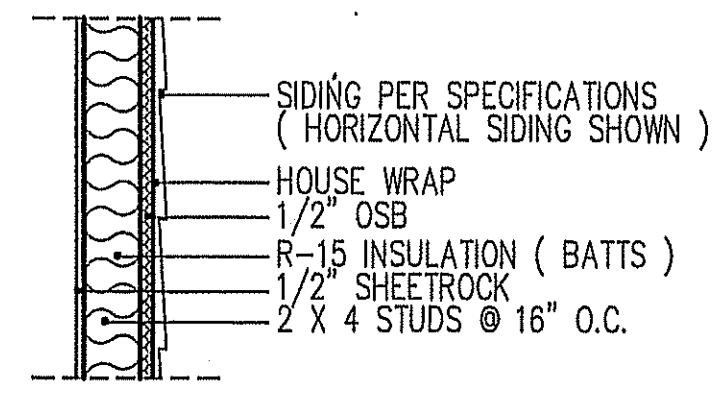
RAKE w/SIDING

NOTE: OVERHANG DISTANCE NOTED ON ELEVATION SHEET IS ALWAYS MEASURED FROM FRAME LINE

DIMENSIONS IN [] ARE MM

Model 6000-TR	Height		Front Width		Back Width		Depth		Glass Size	BTU Input
	Actual	Framing	Actual	Framing	Actual	Framing	Actual	Framing		
Inches	38	38-1/2	41	42	28-1/2	42	21-1/2	22		

Reference dimensions only. We recommend measuring individual units at installation.



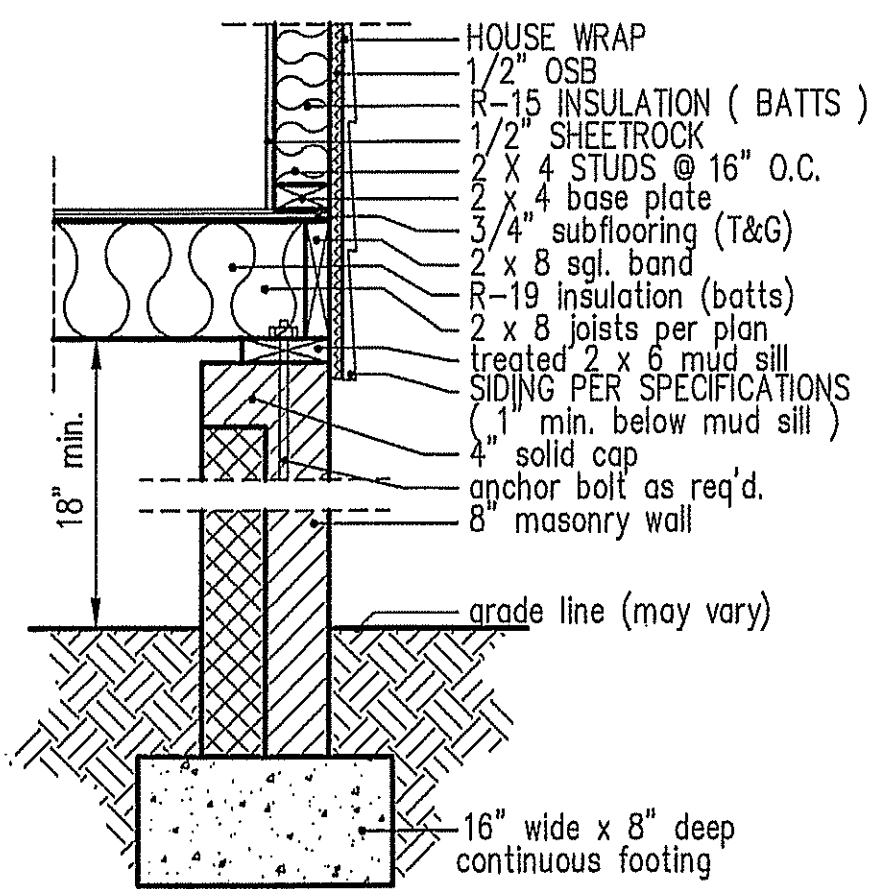
WALL W/siding

intermediate wall details

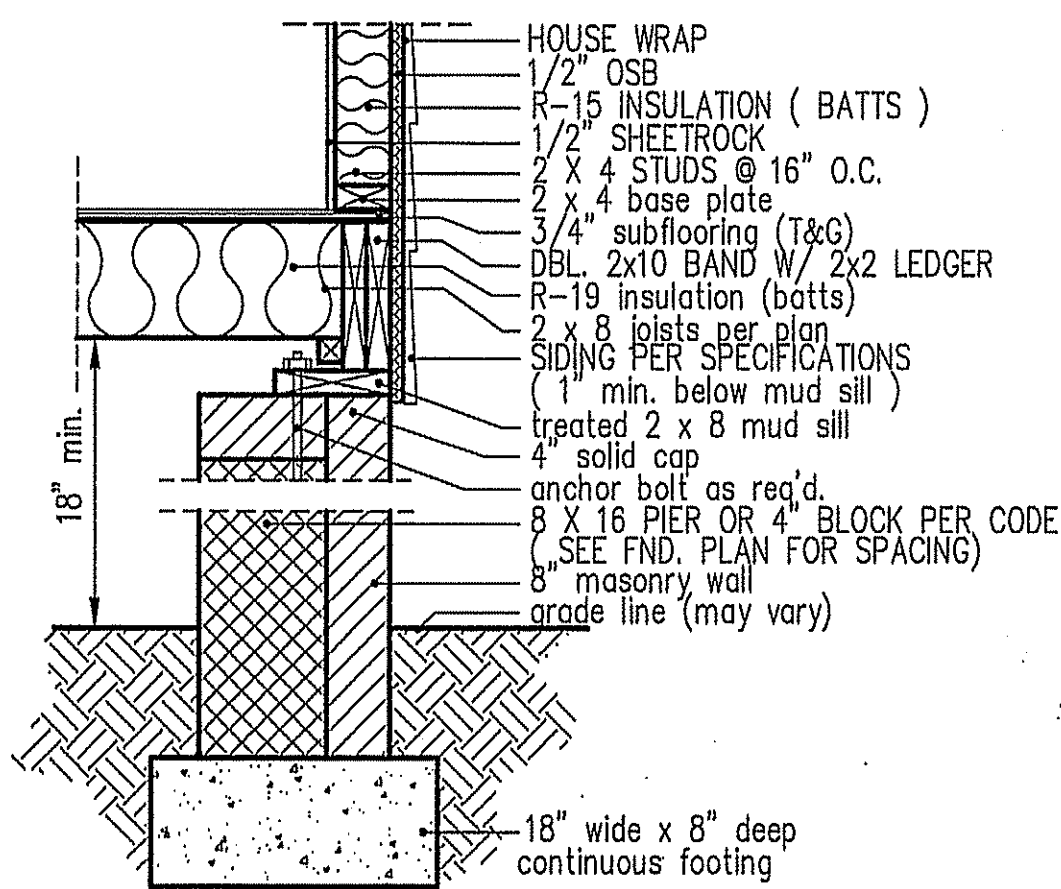
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HEADER SPAN (feet)	MAX. STUD SPACING (inches) [per Table R602.3(5)]	
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4'	2	1
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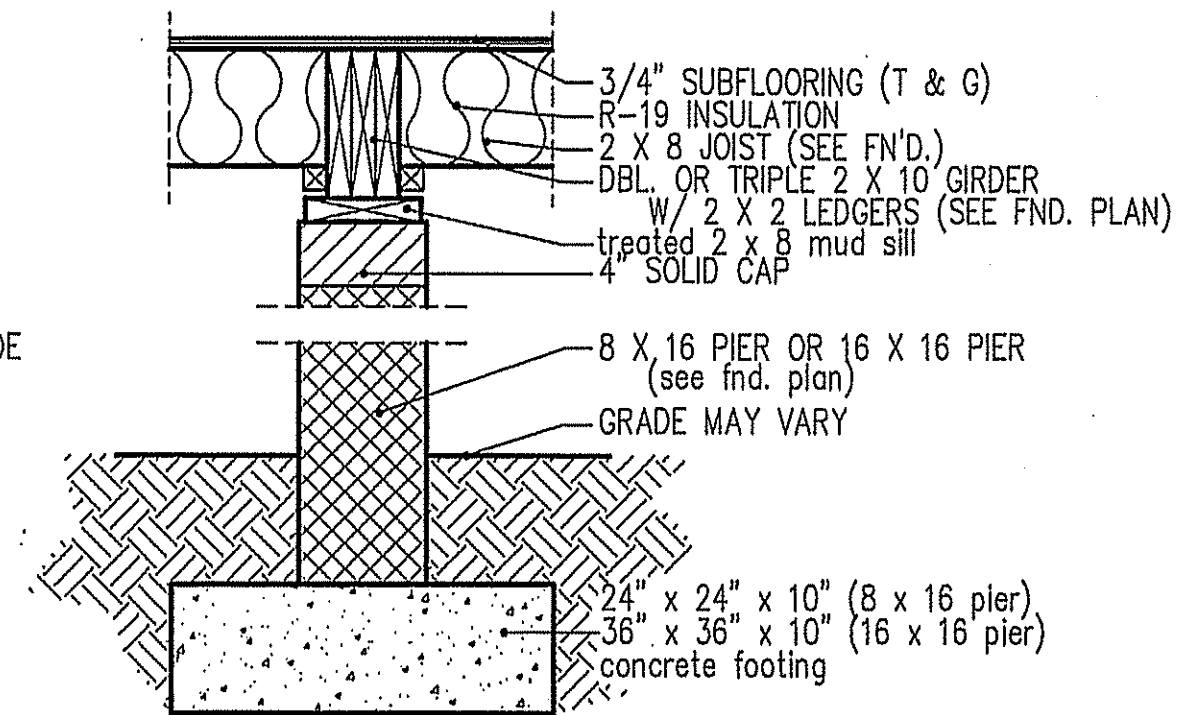
GIRDER AND HEADER SIZES AND JACK STUD REQUIREMENTS ON EXTERIOR AND INTERIOR LOAD BEARING WALLS ARE TO COINCIDE WITH TABLE EXT.~R602.1 (1) AND INT.~R602.1 (2).



8" BOX SILL FOUNDATION WALL



PIER and CURTAIN FOUNDATION WALL



PIER and GIRDER DETAIL

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