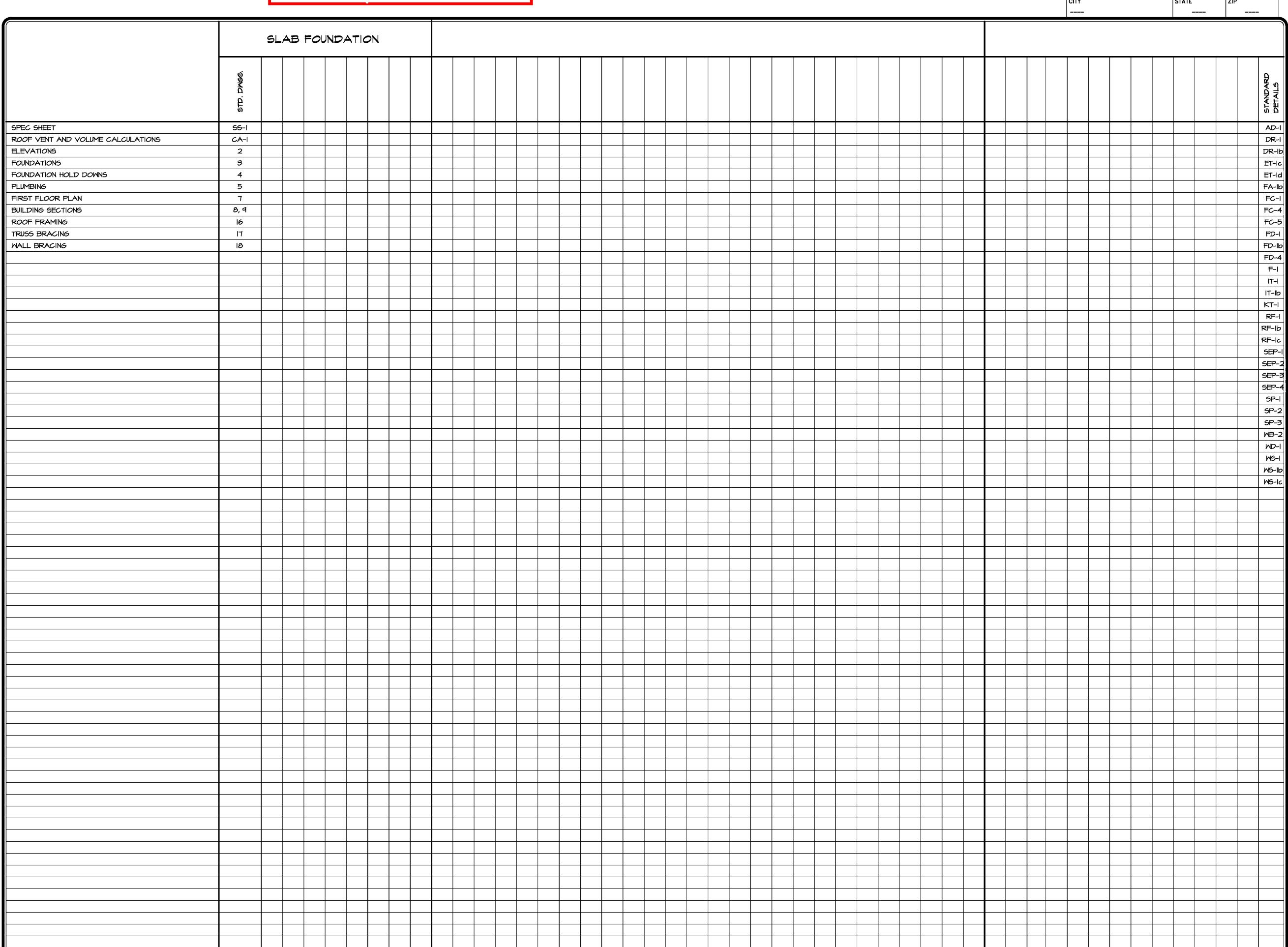
NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes
and is subject to field inspection and verification. Limited building only review Permit holder responsible for full compliance with the code 03/01/2021



# Harnett COUNTY NORTH CAROLINA SPRUCE

DIV-COMM-LOT-UNIT		
COMM-LOT		
STREET ADDRESS		APT. NO.
CITY	STATE	ZIP







NVR, Inc. 5285 Westview Drive, Suite 100 Frederick, MD 21703

FIRST FLOOR SQUARE FO	OTAGE
DESCRIPTION	TOTAL SQ. FT.
IST FLOOR	1296 SF
	1296 SF
	1
GARAGE SQUARE FOOT	
DESCRIPTION	TOTAL 5Q. FT.
TWO CAR FRONT ENTRY GARAGE W/ FSA, FCA	376 SF
	376 SF
	1
TOTAL FINISHED SQUARE F	OOTAGE
DESCRIPTION	TOTAL SQ. FT.
IST FLOOR	1296 SF
	1296 SF
	<del></del>

SPCOO - O

NVR - Business Use Only

[NVR]

VENTILATION VALUES

ROOF VENTILATION CALCULATIONS

HOUSE NAME SPRUCE
HOUSE VERSION SPCOD-01
PRODUCT LINE RYANHOMES SPRUCE
SPC00-01
RYANHOMES
SOFFIT: 9.9 so in of vent per II
RIDGE: 18 so in of vent per II
BOX / GABLE VENT: 45 so in of vent per unit

(any) VENT OK No action req'd.

DK VENT OK No action req'd.

LOW FAIL Increase ridge
HIGH FAIL Decrease ridge
(any) FAIL Increase total vent USER GUIDE

					All	Elevatio	ons (Full B	isement l	Foundatid	on "FBA")					
		Required:	Required:					Upper Box /	Lower Box				A/300	A/300	
	Area (A)	A/150	A/300	Soffic	Soffit Vent	Ridge	Ridge Vent	Sable Vent	Versi	TÖTAL	OK A/150	OK A/300	% went at	40%-50%	
Location / Options	(sy in)	(sq in)	(sq in)	(17)	(sq ler)	(47)	(sq in)	(qty)	(qty)	(sq in)			ridge	OK7	Nates
Aain House Roof	203904	1359.36	679.68	48	475.20	16	6 288.00			763.20	NO	YES	42.37%	ØK.	
eft Side of Hause over Bedraam 3	13824	92.36	46.08	15	148.50	1	1.8.00			166:50	YES	N/A	N/A	N/A	
11.5 t #1.2 t . Y 12 t		Becard	115.20	23	227,70		1 18.00			245.70	YES	N/A	*****	N/A	
ignt side of house over sarage :	34560	230.40		23									N/A	] <b>N</b> Q.A	
igm side of House over Garage	345613	z3U,4U	113:201	4.2			Crawl and	Slab Four	ndation "				:	]:	
ignt side of House over Gamge	34560	231.411 Required:	Required:				Crawl and	Slab Four	y			X/A	A/300	1	
ight side of House over Garage	34567) Aree (A)			Soffit			Crawl and		y			OK A/300	***************************************		
ught side of House over Garage  Location / Options		Required:	Kequired:		All Elev	ations (¢	Crawl and	Upper Box /	Lower Box	FCA and I	5A")		A/300		Notes
Location / Options	Aree (A)	Required: A/150 (sq in)	Required: A/300	Soffit	All Elevi	ations (C	Crawl and	Upper Box / Gable Vant (qty)	Lawer Box Vent	FCA and I	5A")	OK A/300	A/300 % vent at ridge	A/300 40%-50% OK?	
Location / Options  Jacob House Roof  eft Side of House over Bedroom 3	Aree (A) (sq in)	Required: A/150 (sq in)	Required: A/300 (sq In)	Soffit (19)	All Elevi	ations (C	Crawl and Ridge Vent (sq m)	Upper Box / Gable Vant (qty)	Lawer Box Vent	FCA and I	5A") oka/150	OK A/300	A/300 % vent at ridge 42,37%	A/300 40%-50% OK?	

NVR - Business Use Only



Version 2.0 (Last Revised 04/26/19)

HOUSE VO	DLUME CALCULAT	TIONS
HOUSE NAME	SPRUCE	
HOUSE VERSION	SPC00-01	
PRODUCT LINE	RYANHOMES	

Note: The volume of the structure has been computed in acordance with "Title 5. of the Community Affairs, Chapter 23. Uniform Construction Code, Subchapter 2. Administration and enforcement: Process." (5;23-2.28. Volume computation)

ALL ELE\	ALL ELEVATIONS W/ FULL BASEMENT "FBA"							
Location / Area of house	Floor Area (sq. ft.)	Mean height (ft.)	Total volume (cu. Ft.)					
Main section of the house	1440.00	12.57	18105					
Gable left of the house	96.00	9.49	911					
Garage bump out from main house	240.01	10.53	2526					
		Total House Volume	21542					

ALL ELEVATIONS W/	CRAWL SPACE "FO	CA", SLAB FOUNDA	TION "FSA"
Location / Area of house	Floor Area (sq. ft.)	Mean height (ft.)	Total volume (cu. Ft.)
Main section of the house	1440.00	12.57	18105
Gable left of the house	96.00	9.49	911
Garage bump out from main house	160.01	10.53	1684
		Total House Volume	20700

Additional areas of vo	lume to be added	to total house vol	ume as needed
Location / Area of house / option	Floor Area (sq. ft.)	Mean height (ft.)	Total volume (cu. Ft.)
Full Basement "FBA"	1376.61	8.61	11859
Crawl Spaces "FCA"	1308.15	0.80	1047

	CHARLES OF STREET	13.	O O O O O O O O O O O O O O O O O O O	
		APT. NO.	ZIP	
-			STATE	
DIV-COMM-LOT-UNIT	COMM-LOT	STREET ADDRESS	CITY 	
		1		

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NVR	NVR, Inc. Westview Drive, Suite 100 Frederick, MD 21703

\$2C	DRAWN BY	BY ZC
<u>)</u>	DATE:	DATE: 6/7/19
	OPTION	

#### GENERAL

- These plans and specifications are the sole property of NVR. Any unauthorized use of these plans without the written consent of NVR is prohibited.
- . These plans are subjected to modification as necessary to meet code requirements or to facilitate mechanical/plumbing installations or to incorporate design
- These plans are not to be scaled for construction purposes. Dimension lines and notes supersede all scale references.
- 4. Single Family Attached/Detached Automatic residential fire sprinkler systems shall be installed in accordance with NCRBC P2904 or NFPA I3D where required.
- This note sheet only covers major code requirements. The plans are intended to conform to all current applicable codes or engineering design in accordance with Section 301.1.3.

#### CODE ANALYSIS

NCEC 2018, NCFPC 2018

- I. This note sheet only covers major code requirements. The plans are intended to conform to all current applicable codes including, but not limited to: NCRC 2018, NCMC 2018, NCPC 2018, NCFGC 2018, NEC 2017 w/ NC Amendments,
- 2. Use Group: R-3
- 3. Constr. Type: V-B
- 4. Max. Stories: 3

#### ENERGY AND MECHANICAL

Insulation requirements per 2018 NCRC Chapter II, Energy Efficiency, or Chapter 4 of the 2018 North Carolina Energy Conservation Code (NCECC), or Chapter 4 of the 2015 International Energy Conversation Code (IECC), Residential Energy Efficiency by the prescriptive method. See NVR "Standard Energy Package" for field procedures and details.

R-values shown below are the minimum used.

	CL.IMATE ZONE	FENESTRATION U-FACTOR	GLAZED FENESTRATION SHGC	CEILING R-VALUE	FRAME WALL R-VALUE 2x4 / 2x6	FLOOR R-VALUE	BASEMENT WALL R-VALUE UNFIN. / FIN.	SLAB R-VALUE & DEPTH	CRAWL SPACE WALL R-YALUE
Г	3	0.35	0.30	38	15 / 19	19	5 / 15	NA.	5/15
Г	4	0.35	0.30	38	15 / 14	19	10 / 15	10	10 / 15

- 2. All HVAC equipment is sized based on ACCA Manual J calculations. Ductwork is sized using ACCA Manual D. Minimum efficiencies of equipment are as listed below. Upgrades for improved energy performance may be installed.
  - Air conditioner 14 SEER
  - Gas furnace 92% / 96% - Heat Pump - 8.2 HSPF
- . Winter interior design temperatures shall be 70°F and summer interior design temperatures shall be 75°F. Exterior design temperatures vary based on geographic location and are listed on the Manual J calculations
- 4. Roof ventilation calculations are based on the following specifications:

Minimum 18 sq. in. of vent per linear foot Ridae vent: Minimum 9.9 sq. in. of vent per linear foot Roof lack (box vent): Minimum 45 sq. in. of vent per unit

5. See NVR "Standard Energy Package" for field procedures and details.

#### DESIGN LOADS

Floor Sleeping Areas

Table of Loads for House Structure. Per Table 3015

Floor Living Areas	- 40# P.S.F. (LIve)
_	- IO# P.S.F. (Dead) unless noted otherwise
	bu calculations

- 30# P.S.F. (Live) unless noted otherwise

by calculations - IO# P.S.F. (Dead) unless noted otherwise

by calculations - 50# P.S.F. (Live) Garage Floors

- 50# P.S.F. (Dead) - 20# P.S.F. (LIVe) Roof Areas - Top Chord - IO# P.S.F. (Dead)

- Bottom Chord - 10# P.S.F. (Live) (Attics without storage) - 20# P.S.F. (Live) (Attics with limited storage)

 IO# P.S.F. (Dead) - 30# P.S.F. (LIve) Habitable Attics - Areas up to 130 mph ultimate wind speed per

Table R301.2(4)

- Exposure category 'B'

- Areas up to 130 mph ultimate wind speed per Walls

Table R301.2(4) Vult | 115 mph | 130 mph Vasd 89 mph 101 mph

Note: Linear interpolation between

contour lines permitted. - 40# P.S.F. (LIVe) Stairs

- IO# P.5.F. (Dead) Allowable deflection of structural members per IRC Table R301.7

#### <u>Design Criteria</u>

National Design specification for Wood Construction by National Forest

Specification for the Design Fabrication and Erection of Structural Steel for <u>Buildings</u> by American Institute of Steel Construction.

Headers\* Southern Pine (KD-19), No. 1 Grade Spruce-Pine-Fir, Stud Grade Spruce-Pine-Fir, Stud Grade

Beams\*\* Southern Pine (KD-19), No. 1 Grade 2x10 Hem-Fir (KD-19), No. 2 Grade or better (WCLIB & WWPA)

2x8 Southern Pine (KD-19), No. 1 Grade or better 2x10 Spruce-Pine-Fir (KD-19), No. 2 Grade or better (NLGA)

1.9E Minimum

\* Where required, Laminated Veneer Lumber may be used per Engineering \*\* Structural Steel - A.S.T.M. A36

#### FOUNDATIONS

- I. All plain and reinforced concrete shall comply with requirements in ACI 318.
- 2. Concrete footings shall be poured a maximum 5" slump, 5 bag mix, and 2,500 psi minimum strength per Table R4022. Concrete walls shall be poured a maximum 5" slump, 5 1/2-bag mix, and 3,000 psi minimum strength per Foundation Wall Design table below. Special soil and or wall height conditions may require a higher psi mix.
- 3. Walls and footings designed as unreinforced unless otherwise specified on foundation plans or details. Special soil and/or site conditions may require the addition of reinforcing.
- 4. Footing frost depth to be no less than I2" per R403.I.4 and Table R30I.2(I). 5. Minimum Soil Bearing Capacity shall be 2,000 PSF per Table R401.4.1.
- 6. Interior slabs on grade (excluding garage slabs) to be minimum 3-1/2" concrete (may be represented on plans as nominal 4") over 4" sub-base, with vapor barrier (6-mil polyethylene) as required per Section 506 and minimum 2500 PSI per Table R402.2.
- 7. Unconditioned crawl spaces shall have a minimum net area of ventilation not less than I square foot for each 150 square feet of area, unless the ground surface is covered by a Class I vapor retarder, in which case the minimum net area of ventilation shall not be less than I square foot for each 1,500 square feet of area. One such ventilating opening shall be within 3 feet (914 mm) of each corner of the building, per R408.1.2.
- 8. Foundation drains shall be located per local codes and according to local site conditions. Drain discharge by gravity or mechanical means to conform with approved site plan and installed per Section R405.I.
- 9. The top course of block of foundation walls shall be semi-solid block or open cores of hollow
- 10. Block piers to be solid block or mortar-filled hollow block.

block shall be filled with mortar.

- II. A poured concrete foundation wall designed to withstand an equivalent fluid weight of 30# per cubic ft. may be substituted where masonry units (block) are shown on plans.
- 12. Concrete and masonry foundation walls shall be dampproofed with min. 3/8" portland cement parging from footing to top of finished grade. The parging shall be covered with a coat of approved bituminous material applied at the recommended rate per **R406.1**.
- 13. Where required, concrete and masonry foundation walls shall be waterproofed with an approved membrane extending from footing to top of finished grade. The joints in the m'e'mbrane shall be lapped and sealed with an adh'esive compatible with the waterproofing membrane. Waterproofing to be in accordance with R406.2.
- 14. Non-structural garage slabs shall be nominal 3 1/2" thick. Structural garage slabs shall be nominal 4" thick. All garage slabs shall be 3,500 PSI air-entrained concrete on compacted / undisturbed soil per Tablé R402.2.
- 15. Foundation framing anchors shall be 1/2"x18" anchor bolts with 7" minimum embedment or Simpson Strong-Tie MASA / USP FA3 (16 gauge steel, galvanized) or equivalent set in concrete or arouted cell. I'-O" maximum from corners and spaced at a maximum of 6' o.c. and in the middle third of the width of the plate. For walls connecting offset braced wall panels, those 24" in length or shorter shall have min. (I) anchor strap and those 12" or shorter can be installed without anchor straps. Townhouses in seismic design category "C" shall require a .229" x 3" x 3" plate washer per R403.1.6.1 and maximum anchor bolt spacing for buildings
- 16. Steel columns and bases shall be given a shop coating of rust-inhibitive paint or equivalent to provide corrosion resistance per £407.2.
- 17. For masonry veneers:

Per R703.B.4.I - Corrugated sheet metal veneer ties shall be a minimum of No. 22 U.S. gauge by 7/8 inch. Each tie shall be spaced not more than 32" o.c. horizontally and 24" o.c. vertically and shall support not more than 2.67 square feet of wall area. For townhouses in Seismic Design Category C and in wind areas of more than 30 pounds per square foot pressure, each tle shall support not more than 2 square feet of wall area.

Additional metal ties shall be provided around all wall openings greater than 16 inches (406 mm) in either dimension. Metal ties around the perimeter of openings shall be spaced not more than 3 feet (9144 mm) on center and placed within 12 inches (305 mm) of the wall opening. Per R703.2 - One layer of No. 15 asphalt felt or other approved water-resistive barrier shall be provided behind brick.

Per Table R703.8.4 - Provide minimum I-inch air space between brick veneer and sheathing. Per R703.6.6 - Provide minimum 3/16" diameter weep holes at 33" on center maximum, located immediately above the flashing.

Per R703.6.5 - When veneer of brick, clay tile, concrete, or natural or artificial stone are used, 6 mil plastic flashing shall be attached to the sheathing wherever necessary to prevent moisture penetration behind the veneer. See NVR Flashina Details.

- 18. Porch slab and exterior concrete work shall be nominal 4" minimum #3500 air entrained concrete w/ 6x6 #10 M.W.M unless otherwise noted as specified by engineering.
- Foundation wall strip footing thickness to be 8" (or 6" with a single story) unless otherwis noted as specified by engineering. Strip footing projections beyond the face of the foundation wall shall not to exceed the footing thickness. Bump out footings, pier pads, and any other footing identified as being greater than 8" in thickness shall not be reduced.
- 20. Block foundation walls may be substituted for poured foundation walls shown on foundation plans provided all requiréments of Section R404 are met.
- 21. Termite treatment provided below slabs or to framing members per R318.1

#### FOUNDATION WALL DESIGN(c) NCRBC PRESCRIPTIVE CODE OR ENGINEERED DESIGN PER ACI 332

MALL HEIGHT	WALL THICKNESS	LATERAL SOIL LOAD (a)	UNBALANCED FILL	VERTICAL REINFORCING (b)	HORIZONTAL REINFORCING (b)			
		45	6'-0"	NOT REQUIRED	2- #4 BAR5 (f)			
	81	<del>40</del>	7'-0"	NOT REQUIRED (d)	3- #4 BARS (d,e)			
		J	60	6'-0"	NOT REQUIRED (d)	3- #4 BARS (dø)		
8'-0"		60	7'-0"	#4 <b>9</b> 22" O.C. (d)	3- #4 BARS (dø)			
		45	6'-0"	NOT REQUIRED	2- #4 BAR5 (f)			
	10°	10"	101	101	<del></del>	7'-0"	NOT REQUIRED	2- #4 BARS (F)
			60	6'-0"	NOT REQUIRED	2- #4 BAR5 (f)		
		<i>5</i> 0	7'-0"	NOT REQUIRED	2- #4 BARS (F)			
		45	"ט-יד	NOT REQUIRED (d)	4- #4 BARS (d,e)			
	8"	45	8'-0"	#4 <b>ø</b> 19" O.C. (d)	4- #4 BARS (dø)			
			7'-0"	#4 @ 19" O.C. (d)	4- #4 BARS (dø)			
q'-0"	al-oil	60	8'-0"	#4 <b>9</b> 15" O.C. (d)	4- #4 BARS (de)			
	4-0"	ane.	"ס-יד	NOT REQUIRED	3- #4 BARS (g)			
	lo*	45 60	Ð'-O*	NOT REQUIRED (d)	4- #4 BAR5 (dø)			
			7'-0"	NOT REQUIRED (d)	4- #4 BARS (de)			
			8'-0"	#4 <b>e</b> 19" O.C. (d)	4- #4 BAR5 (dø)			

NOTE: BACKFILLING OF THE FOUNDATION SHALL NOT TAKE PLACE BEFORE THE BASEMENT SLAB IS IN PLACE AND THE FLOOR FRAMING IS ERECTED OR

a. SOIL CLASSES GM, GC, SM, SM-SC AND ML - 45 PSF

UNLESS WALLS ARE ADEQUATELY BRACED.

- SOIL CLASSES SC, MH, ML-CL AND CL 60 PSF
- b. SPACING SHOWN IS BASED UPON Fy = 60,000 PSI STEEL FOR Fy = 40,000 PSI STEEL, REDUCE SPACING BY 0.67
- c. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF NOT LESS THAN 3000 PSI
- d. ENGINEERED DESIGN PER ACI 332-14, REQUIREMENTS FOR RESIDENTIAL
- CONCRETE CONSTRUCTION
- e. FOR ALL WALL HEIGHTS, ONE HORIZONTAL BAR SHALL BE LOCATED WITHIN THE TOP 24", ONE IN THE BOTTOM 24" WITH THE REMAINING BARS EQUALLY SPACED. MAINTAIN 2" OF CONCRETE COVER BETWEEN INSIDE FACE OF WALL AND FACE OF
- HORIZONTAL BARS. F. ONE BAR WITHIN 12" OF TOP AND AT MID-HEIGHT OF WALL PER TABLE R404.1.2(1).
- q. ONE BAR WITHIN 12" OF TOP AND ONE EACH AT THIRD POINT OF WALL HEIGHT PER TABLE 404.1.2(1).

#### PLANS

- I. Habitable attics and sleeping rooms shall have a window or door as a second means of egress that shall be minimum 5.7 sq. ft. openable area (5.0 sq. ft. if at grade level) with maximum sill height 44" above finish floor (min. hqt. 24", min. width 20") per R310.1.
- 2. All emergency escape and rescue openings shall have a minimum net clear openable area of 4 sa ft. The minimum net clear opening height shall be 22" and a minimum net clear opening width of 20". Emergency escape and rescue openings must have a minimum total glazing area of not less than 5 sq ft in the case of a ground window and not less than 5.7 sq ft in the case of an upper story window per R310.2.1. Window wells where required, shall be installed per R31023 with a minimum of 9 sq ft and a minimum horizontal projection and width of 36". Wells with a greater depth of 44" shall have permanently affixed ladder or steps per **R3**IO.2.3.I.
- 3. Clear opening heights for exterior doors to be 6'-6" minimum per R311.2. All interior doors providing egress from habitable rooms shall have nominal minimum dimensions of 2'-6" by 6'-8" per R311.6.1. Habitable rooms with double doors less than 5'-O" in total width (less than 2'-6" per door slab) shall have a total opening width of at least 2'-6" with no slide bolts or locking devices installed on either door.
- 4. Sliding glass drs/patio drs/wdws must be safety glazed per R308.4.
- 5. Interior stairway shall have minimum head room of 6'-8" per 311.7.2 and minimum tread depth of 9" and maximum riser height of 8 1/4". Handrails are required for stairs with four or more risers and shall have minimum height of 34" and maximum height of 38" above treads and landings. Handrail to have maximum 4 1/2" projection into width of stair per **Section R3**11.7. Enclosed accessible space under stairs shall have walls, under stair surface and any soffits protected on the enclosed side with 1/2" aupsum board per
- 6. Guard rails to have minimum height of 36" and shall not have openings from the walking surface to the required guard height which allow passage of a sphere 4 inches in diameter per R312.
- 7. The triangular openings at the open side of stair, formed by the riser, tread and bottom rail of a guard, shall not allow passage of a sphere 6 Inches (153 mm) in diameter per R312.1.3.
- 8. Where exterior landings or floors serving the required egress door are not at grade, they shall be provided with access to grade by means of a a stairway in accordance with Section R311.7 (see Item #5 above) or a ramp in accordance with Section R311.8.
- 9. Handrails shall be installed on exterior stairs having (4) or more risers per R311.7.8. Guards shall be installed at exterior porches / decks 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 screening shall not be considered as a guard.
- 10. All flashing used (including at windows, doors, and with stone or masonry veneer) shall be corrosion-resistive per R703.4. See NVR Flashing Details.
- 11. Wood framed walls assumed to be 2 x 4 stud construction unless otherwise noted on plans. Bearing walls shall have stude spaced at 16" o.c. maximum per Table R602.3(3) and Table R602.3(5).
- 12. All exterior sheathing to be structural sheathing designed in accordance with R602.10.
- 13. An approved water-resistive barrier shall be applied over sheathing of exterior walls per Section
- 14. Interior sheathing shall be 1/2" gypsum wall board unless otherwise noted. Exceptions may include, but are not limited to, special requirements for wall bracing and fire separation.
- 15. Screw fastening is typical for gypsum installation and nailing will only be permitted at the perimeter of the board.

• All screws sha	Il be corrosion-resist	ant Type W	I-1/4" drywall screw	15.	
	SCF	REM FAS	STENING SCHED	DULE	
	WITH ADHESIVE				
	Framina Spacina	Ceilinas	Load-bra, walls	Non-load-bra, walls	
	16 '	16	24	24	
	24	16	16	24	
		ITIM	HOUT ADHESIVE		
	Framing Spacing	Ceilings	Load-brg. walls	Non-load-brq. walls	
	16	12	16	16	
	24	12	12	l2	

 For I/2" wallboard, nails shall be I-I/4" long, I/4" head and .096 diameter shanks with annular ring or acceptable equivalent and comply with ASTM C514.

• For 5/8" wallboard, nails shall be 1-3/8" long, 1/4" head and .098 diameter shanks.

- 17. Garages shall be completely separated from the residence and attic area by not less than 1/2" aupsum board applied to the garage side. Garages beneath habitable rooms shall be separated from all habitable rooms above by not less than 578" type X gyp. board. Where a structure is supporting a floor-ceiling assembly due to living space above the garage, the structure shall also be protected by not less than 1/2" qupsum board per Section R302.6. Openings and penetrations through the separation shall be protected by sealing the area around the penetration per Section R3025. The garage door shall be a 20-minute fire-rated door and be equipped with a self-closing device installed per Section R302.5.1.
- 18. Asphalt shingles shall be installed per section R905.2. For roof slopes of 2:12 through 4:12, in lieu of two layers of underlayment, a self-adhering polymer-modified bitumen underlayment shall be used per section RÁO5.I.I Exception #I.
- 19. Attic spaces shall be ventilated w/ ridge and soffit vents unless otherwise noted. Venting provided per
- 20. Fireblocking shall be installed between ceiling and floor openings per R302.II. Draftstopping to be installed in accordance with R302.12.
- 21. Water closet, lavatory or bidet shall not be set closer than 15 inches from its center to any side wall, partition or vanity or closet than 30 inches center-to center- between adjacent fixtures. There shall be a clearance of not less than 21 inches in front of the water closet, lavatory or bidet to any wall, fixture or door per **P2705**.l
- 22. Heating and cooling equipment installation shall be in accordance with IRC Chapter 14 and the International
- 23. Mechanical fireplaces shall be installed per Section RIOO4 and IOO5.
- 24. Single family attached structures to have 2-hour dwelling unit separation wall continuous to roof deck. Roofing material to be minimum class "C" over approved fire retardant wood decking extending 4' each side of dwelling unit separation wall per R302.2 and R302.3.
- 25. Untreated wood shall be minimum 6" above finish grade per R317.1 Item #2.
- 26. Bottom plates on slabs and any wood in contact w/ concrete or masonry to be pressure treated material per Section R3I7.

27. Exterior egress swing doors shall open onto a landing not more than 8 1/4" below the top of the threshold

- when door swings in and I 1/2" below the top of the threshold when the door swings out. The landing shall extend a minimum of 36" in the direction of travel and be at least the width of the doorway served per 28. Air exhaust and intake openings that terminate outdoors shall be protected with corrosion-resistant
- screen, louvers, or grills having a min. opening size of 1/4" and maximum of 1/2" in any dimension per
- 29. Fasteners and connectors for pressure preservative-treated wood shall be hot-dipped galvanized steel. 30. Windows that have an operable opening more than 72" above finished grade or surface below, the lowest part of the clear opening of the window shall be a minimum of 24" above the finished floor of the room in which the window is located. Glazing between the floor and 24" shall be fixed or have openings through which a 4" dia. sphere cannot pass per Section R312.2.
- 31. The final grade shall fall a minimum of 6 inches within the first 10 feet of the foundation per R401.3.
- 32. One- and two-family dwelling construction (R302.I.I): Vinyl or aluminum soffit material shall be securely attached to framing members and use an underlayment material of either fire retardant treated wood, 3/4-inch wood sheathing or 5/8-inch gypsum board.
- Venting requirements shall apply to both soffit and underlayment and shall be per Section R806. Where the property line is 10 feet or more from the building face, the provisions of this code section shall not Townhouse construction (R302.2.5): Projections extending into the fire-separation distance shall have not less than I-hour fire-resistive construction on the underside. Vinyl or aluminum soffit material shall be securely attached to framing members and use an underlayment material of either fire retardant treated wood, 3/4-inch wood sheathing

or 5/8-inch gypsum board. Venting requirements shall apply to both soffit and underlayment. Vents shall be

requirements of **Section R806.2** by more than 50%. Vents in soffit are not allowed within 4 feet of fire walls or property lines per R302.25 and R302.26. 33. I-hour fire-rated construction required on projections within 2' to 3' of lot line per **R302.**I. No projections allowed within 2' of property line.

nominal 2-inch continuous or equivalent intermittent and shall not exceed the minimum net free air

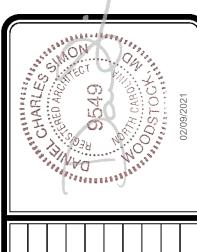
- I-hour fire-rated construction required on townhouse eaves within 3' of the property line. Note: Single Family Detached product will NOT be built within 3' of the property line.
- 34. Wall bracing is designed in compliance with Section R602.10. When wall bracing is beyond the criteria for a prescriptive approach, the structure is analyzed utilizing engineering in compliance with the North Carolina Building Code (NCBC). Refer to house-specific wall bracing detail sheets and wall bracing standard details. Adhesive attachment of wall sheathing, including Method GB, shall not be permitted in Seismic
- Design Category C. 35. Minimum floor sheathing shall be 5/8" tonque 🕏 groove decking underlayment grade plugged and sanded, exterior glue, glued and nailed on joists to meet. "American Plywood Association" approved glued floor system, unless otherwise specified.

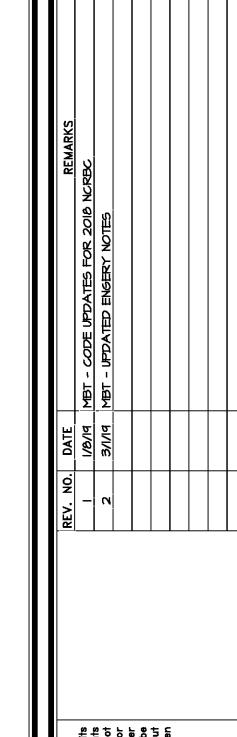
#### ELECTRICAL

- I. Ground-fault and arc-fault circuit interrupter protection is provided per NFPA 70 (National Electric Code).
- 2. Electric panel box installation to be in accordance with NFPA 70. Article 408 Section III. Location may vary by design.

from the building wiring and be equipped with a battery backup.

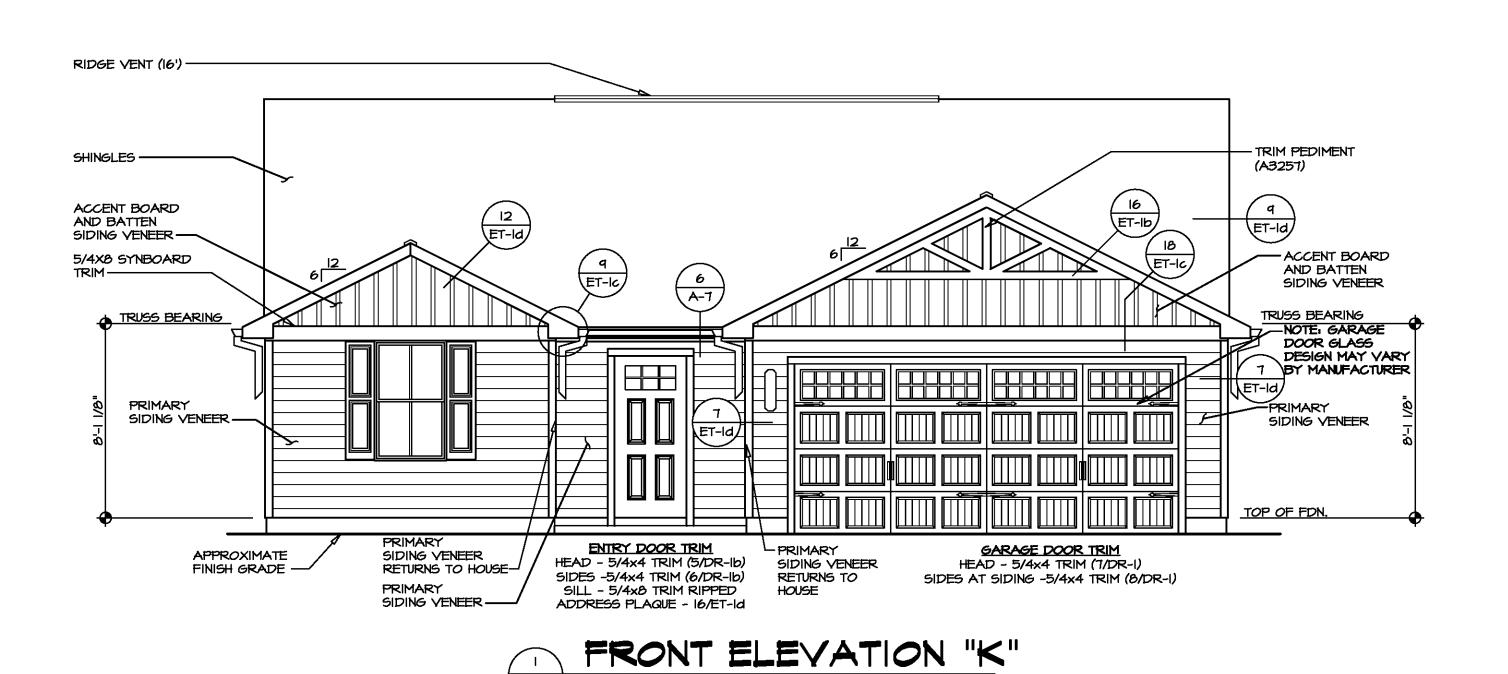
- 3. Approved smoke detectors shall be installed in each sleeping room; outside each separate sleeping area In the immediate vicinity of the bedrooms, and on each additional story of the dwelling, including basements and habitable attics but not including crawl spaces and uninhabitable attics. Where more than one smoke detector is required, the devices shall be interconnected in such a manner that the actuation of one alarm will activate all of the alarms in the individual unit. All smoke detectors shall receive their primary power
- 4. Unless listed for installation in such locations, smoke detectors shall be installed at least IO feet from a cooking appliance, at least 3 feet from the door to a bathroom containing a tub or shower, at least 3 feet from forced air supply registers, and at least 3 feet from the tip of a ceiling fan blade. In sleeping rooms, smoke detectors should be located in the vicinity of the room entrance. They shall be installed at the highest portion of the ceiling (including tray or coffered ceilings) or within 12 inches vertically from the highest point in rooms with sloped ceilings.
- 5. Interior stairs shall be provided with an artificial light source in the vicinity of each landing or directly over each stair section and capable of illuminating treads and landings to a level not less than Ifc measured at the center of the tread or landing per R303.7.
- 6. Outlets within 6' of a sink must be GFI protected.
- 7. An approved carbon monoxide alarm shall be installed outside of each separate sleeping area in the immediate vicinity of the bedrooms. Where a fuel-burning appliance is located within a bedroom or its attached bathroom, a carbon monoxide alarm shall be installed within the bedroom. R315.3.
- 8. Outlets installed in laundry areas must be GFI protected.



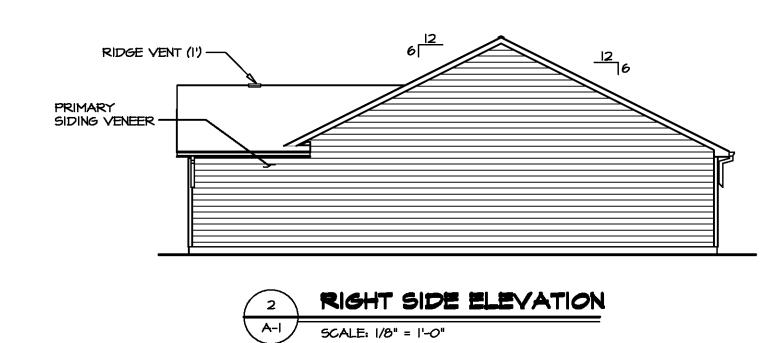


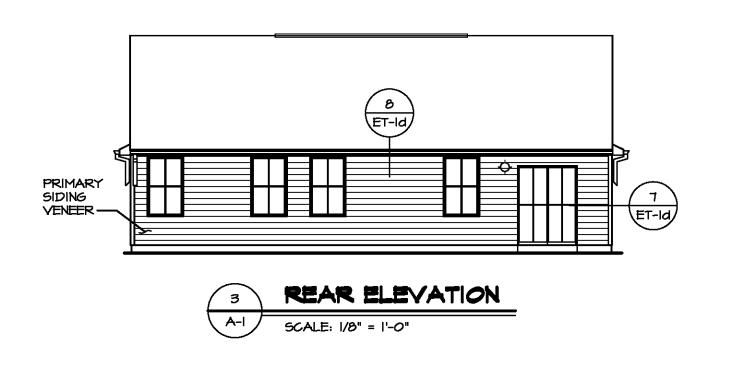
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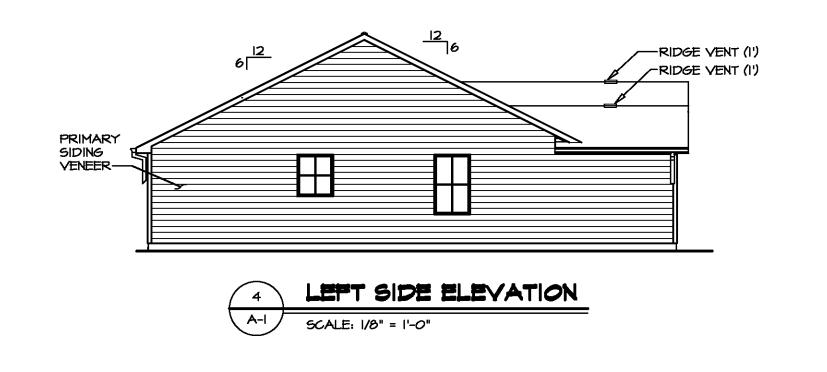
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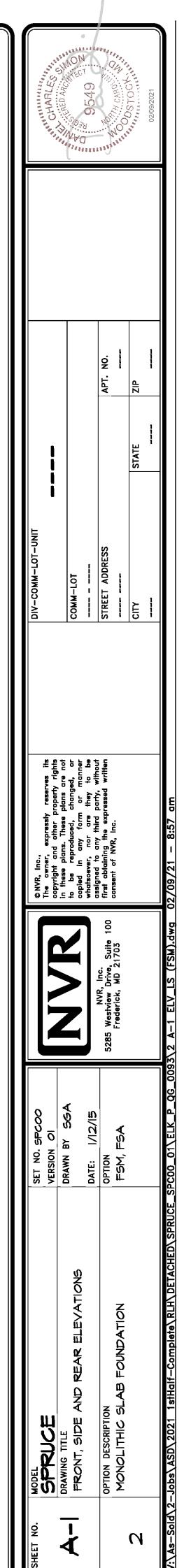


A-I SCALE: 1/4" = 1'-0"









	PAD FOOTING SCHEDULE								
	PAD FOOTING SCHEDULE								
IDENTIFIER	LENGTH	MIDTH	HEIGHT	ENG. NUM.	REMARKS				
F007	10'-0"	l' <del>-4</del> "	O'-8"						

FOUNDATION DIAGONALS							
A B							
0"	A 40'-0"						
40'-0"	B	0"					
20'-0"	v	20'-0"					
59'-5 9/16"	ם	44'-0"					
44'-0"	E 59'-5 9/16"						
	0" 40'-0" 20'-0" 59'-5 9/16"	O" A 40'-O" B 20'-O" C 59'-5 9/16" D					

#### FOUNDATION NOTES - SLAB

- I. FOUNDATION UNDER HABITABLE SPACE: I.I. CONCRETE SLAB ON 6 MIL VAPOR BARRIER OVER
- SUB-BASE (SEE SPEC SHEET FOR SLAB NOTES)
- 2. FOUNDATION UNDER GARAGE: 2.I. UNEXCAVATED WITH CONCRETE SLAB ON VAPOR BARRIER OVER SUB-BASE (SEE SPEC SHEET FOR
- SLAB NOTES)
- 3. SEE SHEET (A-4) FOR FOUNDATION CONNECTION INFORMATION. . SLAB LEDGE LOCATIONS VARY W GRADE BEAM(S)

ORIENTATION. SEE GB-I FOR DETAILS.

LEGEND

BEARING WALL

NON BEARING WALL

L JACKS

BEAM/HEADER

PAD FOOTING

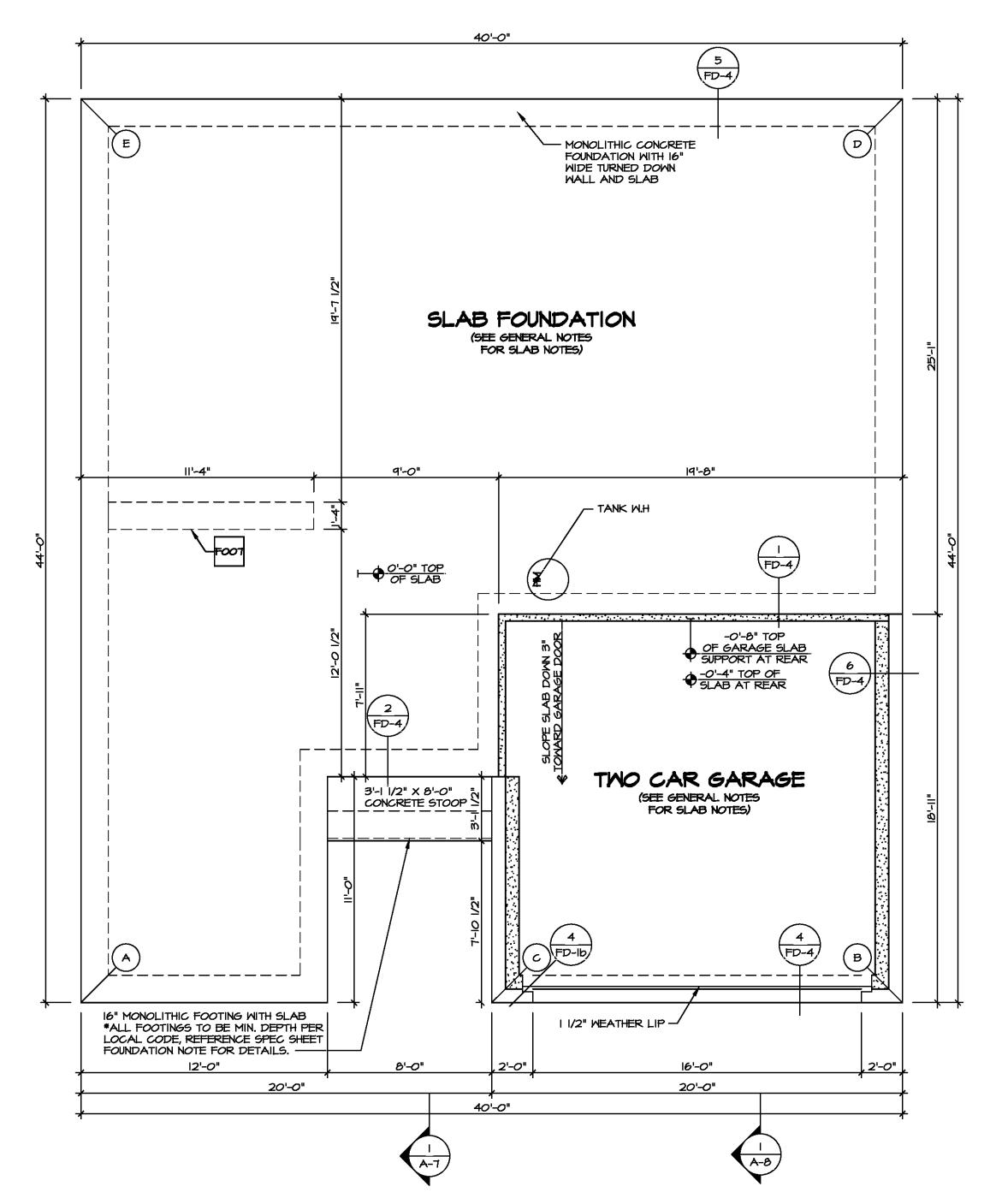
STEEL COLUMN

X PORTAL FRAME X JOIST/TRUSS

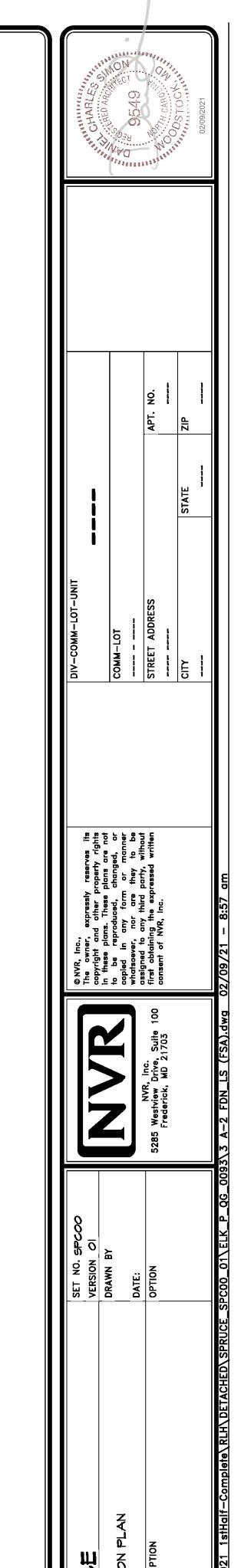
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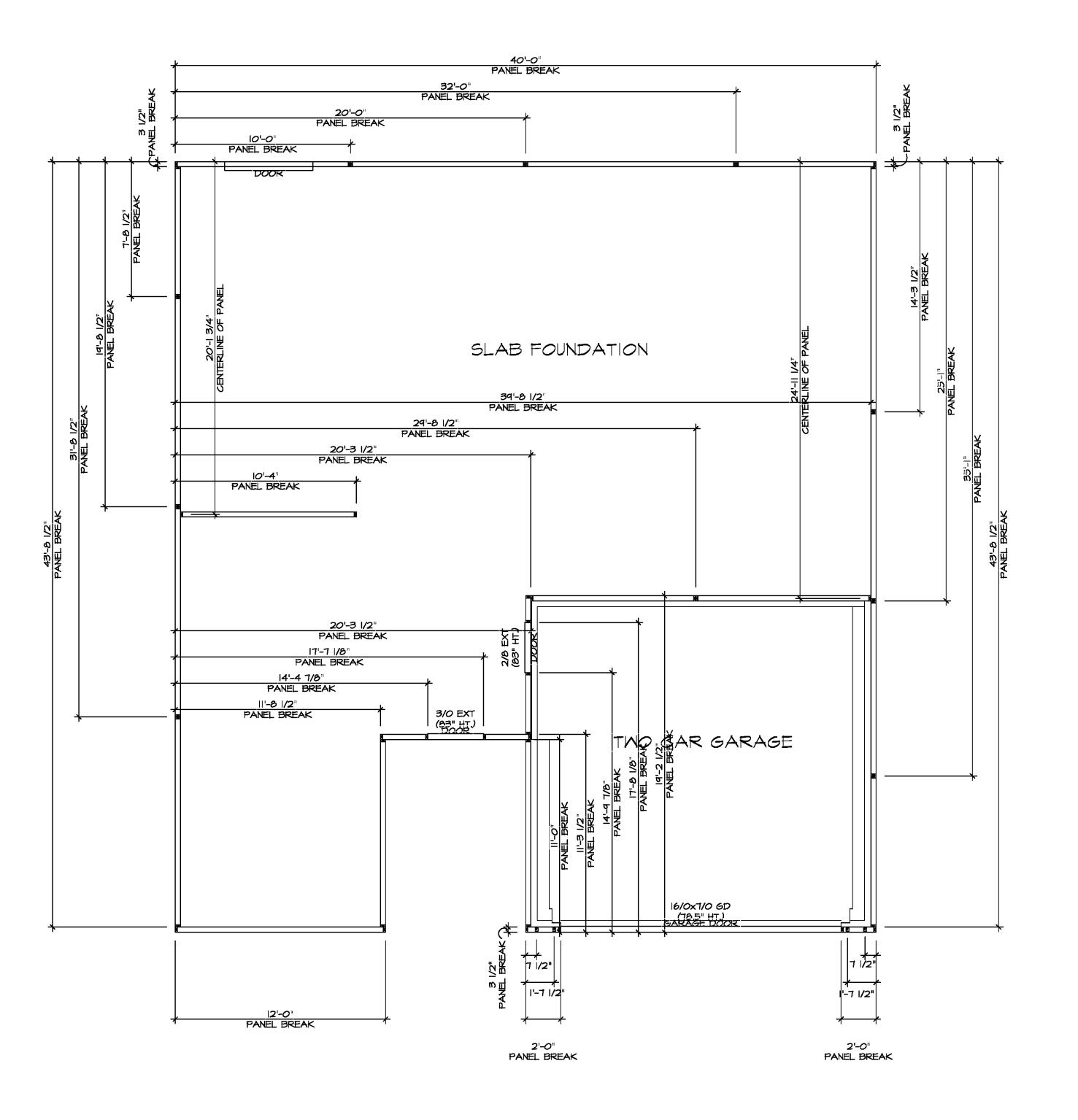
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SEE FC DETAILS FOR FRAMING CONNECTORS







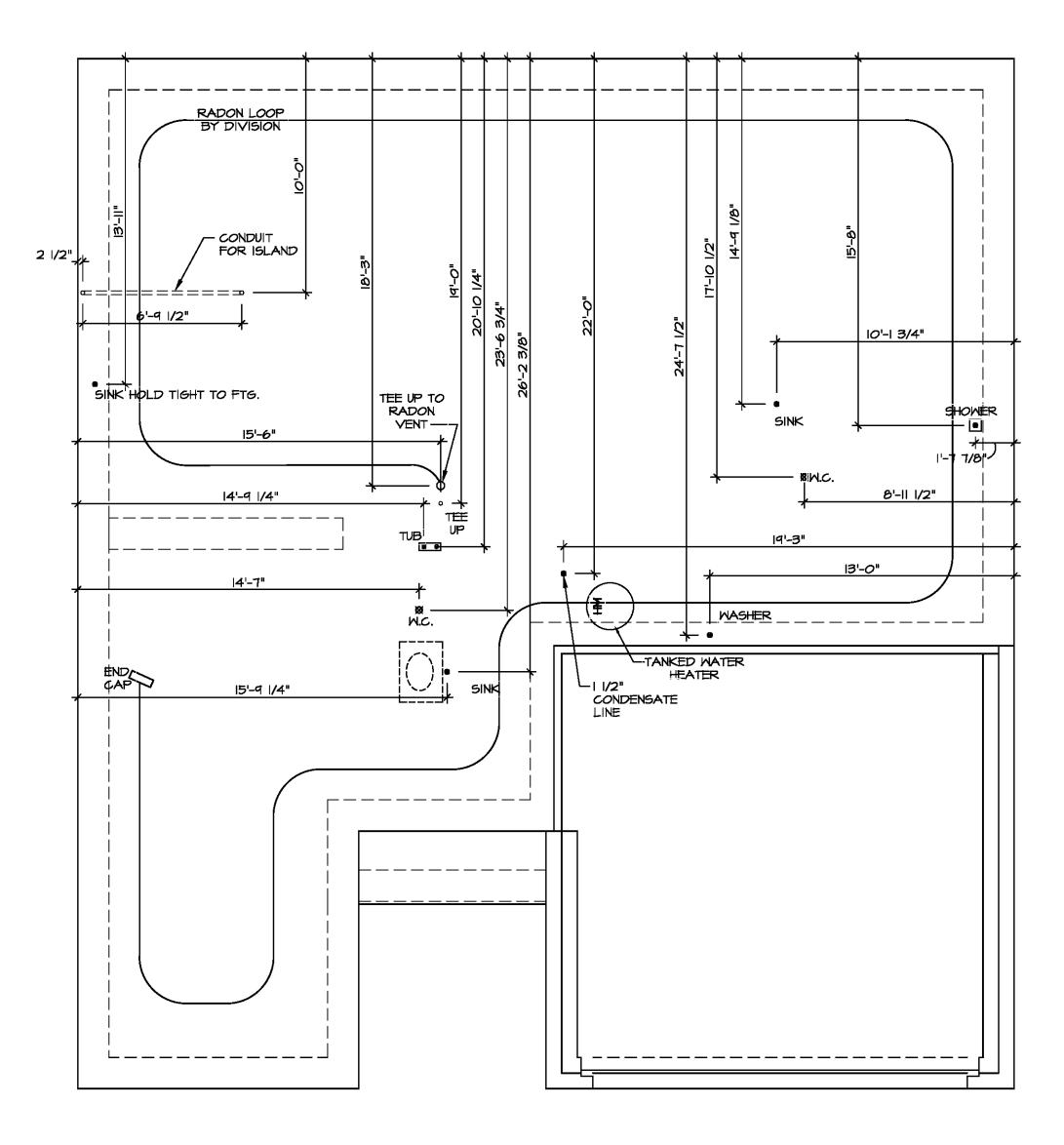


FOUNDATION HOLD DOWN DETAILS

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

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		TIMIT TO I WINDS VIOL	DIA-COWW-LCI-ONII	COMM-LOT	STREET ADDRESS	CITY	
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					NVR, Inc. 5285 Westview Drive, Suite Frederick, MD 21703		
			SET NO. SPCOO VERSION OI	DRAWN BY MBT	_		dwq 02/08/21 - 7:38 am
	HOLD DOWN NOTES  DETAIL (9/FD-I) FOR HOLD DOWN OFFSET DIMENSIONS. DETAIL (12/FD-I) FOR HOLD DOWNS ON CMU BLOCK.  I. ALL PANELS GREATER THAN 24" SHALL HAVE AN ANCHOR WITHIN 12" OF THE PANEL BREAKS / ENDS. (SEE DETAIL SHEET FF-I FOR MORE INFORMATION ON ANCHOR DETAILS)  I. STRAP:  a. ON FOUNDATION USE (STHDI4) b. ON FLOOR SYSTEM USE (STHDI4RL)  2. ALL OTHER HOLD DOWN SEE DETAIL (WB-2) FOR MORE INFORMATION.  3. STRAP LOCATION ON PLANS SHOWN BY DASHED DIMENSION TO CENTER OF STUDS	VODE	SPRUCE	DRAWING TITLE FOUNDATION HOLD DOWN DETAILS	OPTION DESCRIPTION		  Solves\RLH_QG_0093\Sheets\Lof Specific\4 A-4 FDNHD.dwg
BOLT Ma e	I. 5/8"¢ THREADED ROD  2. ALL OTHER HOLD DOWN SEE DETAIL (WB-2) FOR MORE INFORMATION.  3. BOLT LOCATION ON PLANS SHOWN BY SOLID DIMENSION TO CENTER OF BOLT		SHEET NO.	<b>√</b> <b>0</b>		4	:\NVR\Solves

#### INSTALLATION OF RADON STACK AND LOOP TO BE DETERMINED BY DIVISION





- RADON REMEDIATION
  RADON LOOP:

   (4") PERFORATED HDPE "LOOP"

   MUST BE PLACED IN STONE BED SLIGHTLY HIGHER THAN ANY INTERIOR DRAINTILE

   LOOP TO BE SEPARATE FROM ANY DRAINTILE ELEMENTS

   TO BE CORRUGATED HDPE PIPE

   SCREWS TO BE INSTALLED THROUGH LOOP AT TEE UP INTO STACK
  STACK REQUIREMENTS:

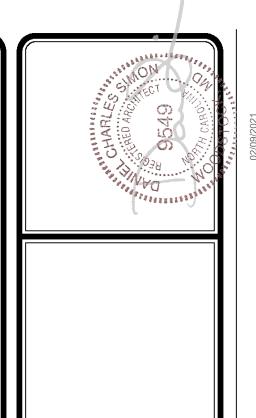
   3" PVC STACK (4" IF BASEMENT IS GREATER THAN 2200 SQFT.)

   NO PART OF STACK IS TO BE HORIZONTAL (45° ELBOWS PERMITTED AS REQUIRED)

   PIPE TO BE PHYSICALLY LABELED IN THE FIELD AS "RADON VENT" OR OTHER
  JURISDICTIONALLY REQUIRED LANGUAGE (ON EVERY LEVEL OF HOUSE)

   ROOF TERMINATION TO BE IN TOP 1/3 OF ROOF

- ROOF TERMINATION TO BE IN TOP 1/3 OF ROOF
- SCREEN OR VENT CAP INSTALLED TO KEEP PESTS OUT OF RADON VENT AT ROOF TERMINATION.



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FIRST FLOOR JACK SCHEDULE							
IDENTIFIER	DESCRIPTION	OPTIONS	ENG. NUM.	FIELD INSTALLED			
lol	JACK - (3) 2X4 SPF STUD GRADE		1010				
JIO2	JACK - (3) 2X4 SPF STUD GRADE		1010				
JI05	JACK - (3) 2X4 SPF STUD GRADE	FSA	1010				
JI06	JACK - (3) 2X4 SPF STUD GRADE	F5A	1010				
TOIL	JACK - (2) 2X4 SPF STUD GRADE		1006				
BOIL	JACK - (2) 2X4 SPF STUD GRADE		1006				
JII.	JACK - (2) 2X4 SPF STUD GRADE	FSA	1004				
JII2	JACK - (2) 2X4 SPF STUD GRADE	FSA	1004				

#### FLOOR PLAN NOTES

- ALL HEADERS ARE (2) 2x6 w/ 2x4 WALLS OR (3) 2x6 w/
- 2x6 WALLS, UNLESS OTHERWISE NOTED. ALL HEADERS TO HAVE (1) 2x4 OR 2x6 JACK AND KING
- STUD EACH END, UNLESS OTHERWISE NOTED. ALL EXTERIOR WALLS TO BE 4" W/ OSB OR 3 1/2"
- W/ LAMINATED FIBROUS STRUCTURAL SHEATHING, ALL INTERIOR WALLS TO BE 3 1/2", UNLESS OTHERWISE NOTED.
- HATCHED AREAS INDICATE DROPPED CEILINGS. ALL
- DROPPED CEILINGS ARE 12" UNLESS OTHERWISE NOTED. . SEE "BRACED WALL PANEL DETAIL SHEET" FOR SPECIAL WALL FRAMING LOCATIONS AND HEADER SIZES, IF
- APPLICABLE. SEE STANDARD DETAIL CATEGORY "IT" SHEET(S) FOR
- INTERIOR TRIM DETAILS.

  SEE ARCHITECTURAL DETAIL SHEET "AD" FOR HOUSE SPECIFIC INTERIOR TRIM OPTION TABLE.

  ALL WINDOWS HAVE 7'-0 1/2" HEADER HEIGHT UNLESS
- OTHERWISE NOTED.
- ALL HEADERS IN NON-BEARING WALLS SHALL BE A SINGLE FLAT 2X4 OR 2X6 ATTACHED TO CRIPPLES
- ABOVE, UNLESS OTHERWISE NOTED. TANKED WATER HEATER SHOWN AS BASE CONDITION, OPTIONAL TANKLESS WATER HEATER IS AVAILABLE IN LIEU OF TANKED WATER HEATER.
- GYPSUM NOTES

AT GARAGE:

GYPSUM BOARD AT COMMON WALLS, CEILINGS, BEAM WRAPS AND SUPPORTS PER STANDARD DETAIL FA-I(b) FIRE ASSEMBLIES OR AS REQUIRED BY LOCAL CODE.

AT STAIRS:

I/2" GYPSUM BOARD AT UNDERSIDE OF STAIRS AND WALLS IN CLOSET

#### LEGEND

BEARING WALL

NON BEARING WALL INDICATES BEARING FROM POINT-LOAD ABOVE

T JACKS

BEAM/HEADER

PAD FOOTING

STEEL COLUMN

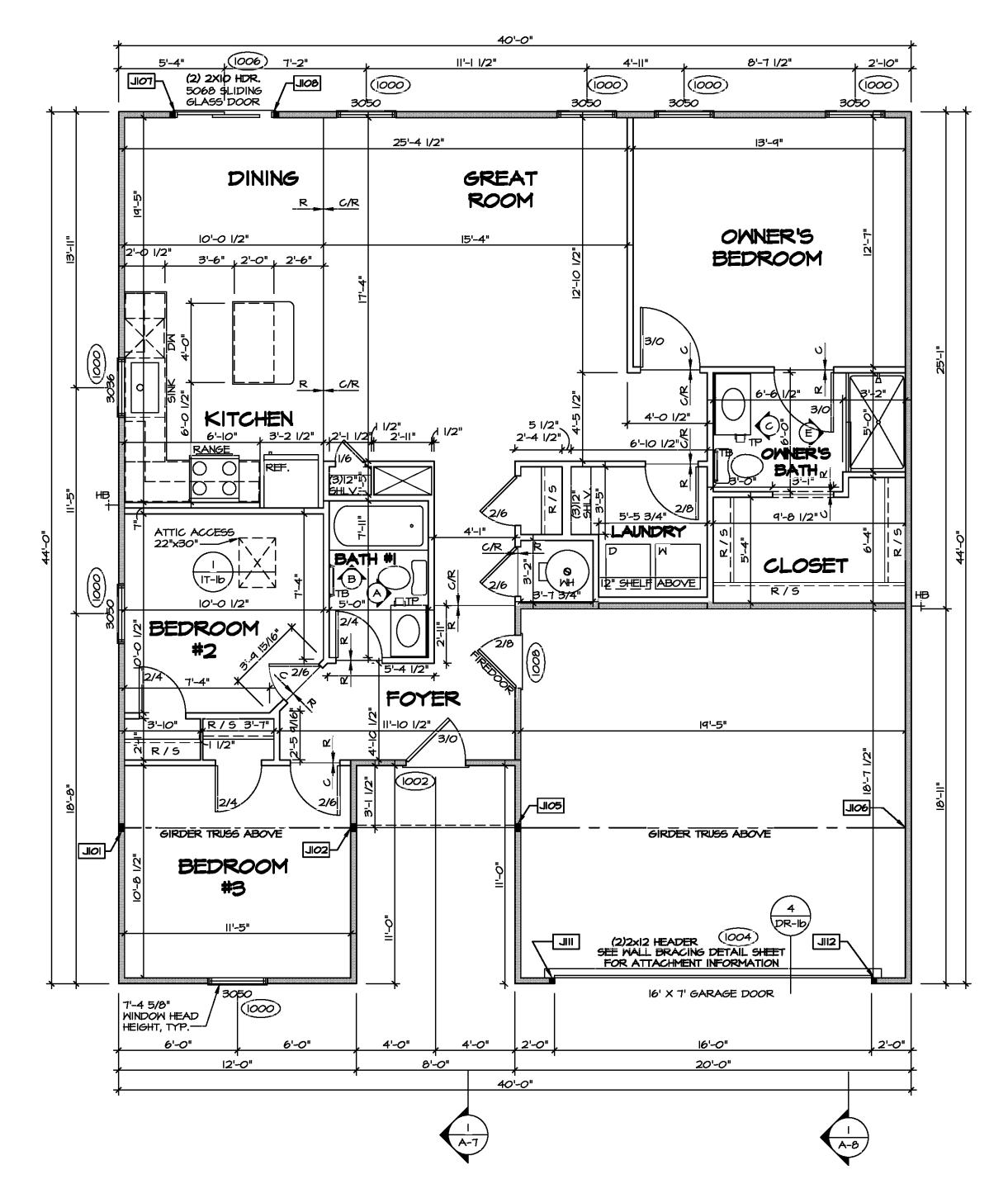
X PORTAL FRAME

X JOIST/TRUSS

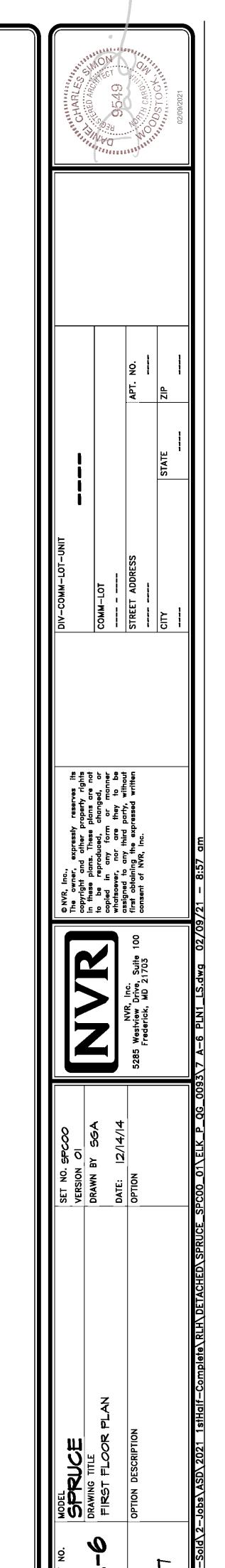
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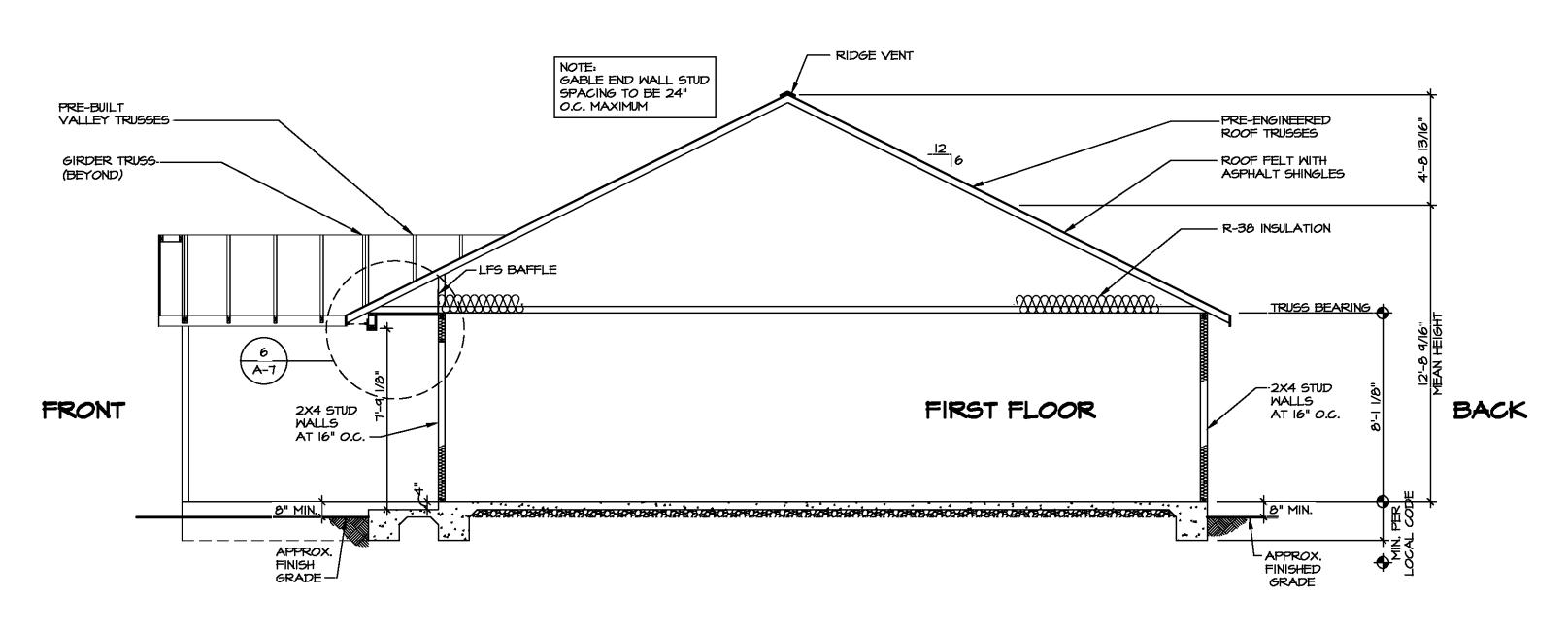
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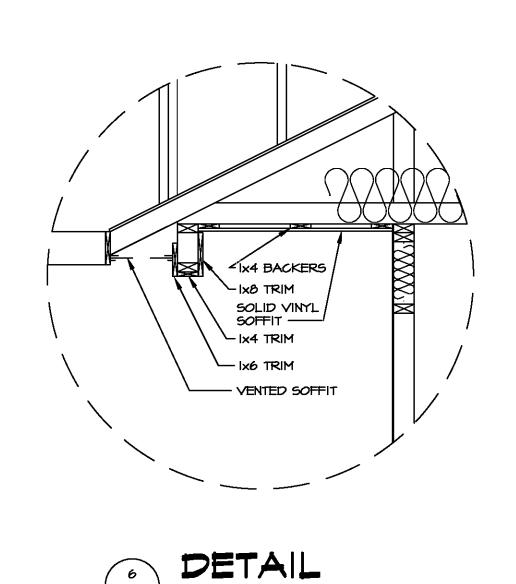
SEE FC DETAILS FOR FRAMING CONNECTORS











BUILDING SECTION - FOYER

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

RJC

RJC

NVR, Inc.

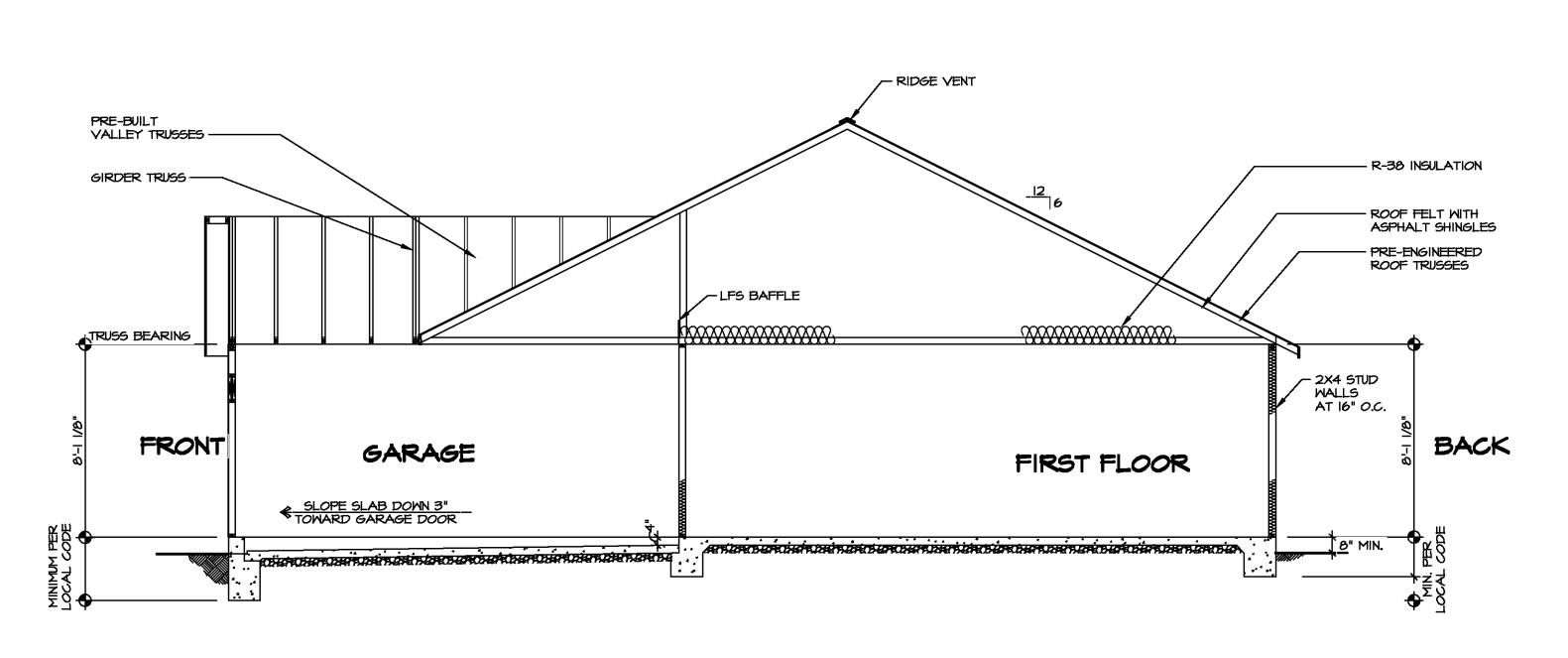
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SPRUCE
DRAWING TITLE
BUILDING SECTION - FOYER
OPTION DESCRIPTION

**Y-1** 



BUILDING SECTION - GARAGE

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

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VERSION O	DRAWN BY RUC	DATE: 1/5/15	OPTION		

TRUSS SCHEDULE						
IDENTIFIER	SPECS	TRUSS NUMBER	LENGTH	ROOF PITCH (X/12)	TYPE	
AB	5E	13139	36'-0"	6/12	COMMON	
AC	SE	13140	12'-0"	6/12	COMMON	
AD	SE	13141	20'-0"	6/12	COMMON	
ΑÉ	SE	13142	36'-0"	6/12	COMMON	
AF	SE	13143	12'-0"	6/12	GIRDER (2 PLY)	
AG	SE	131 <del>44</del>	20'-0"	6/12	GIRDER (2 PLY)	
AH	SE	13147	36'-0"	6/12	COMMON	
AK	SE	13149	36'-0"	6/12	COMMON	
AL	SE	13174	20'-0"	6/12	GABLE END	
AM	5E	1317 <del>5</del>	12'-0"	6/12	GABLE END	
AN	5E	16912	36'-0"	6/12	GABLE END	
VI	VT	93344	4'-0"	6-6/12	VALLEY	
V2	VΤ	93345	8'-0"	6-6/12	VALLEY	
<b>V</b> 3	VT	93346	12'-0"	6-6/12	VALLEY	
V4	VΤ	93907	16'-0"	6-6/12	VALLEY	

#### ROOF FRAMING NOTES

- I. REFER TO THE STANDARD DETAILS FOR THE FOLLOWING:
  I.I. TRUSS TIE-DOWNS (I/RF-I)
- I.2. PIGGYBACK TRUSS ATTACHMENT (2/RF-I)
  I.3. VALLEY GABLE TRUSS BRACING (3/RF-I)
  I.4. GABLE BRACING (I/RF-IC)
- 1.5. TRUSS BRACING (2/RF-Ic)
- I.6. LIFELINE ATTACHMENT (5/RF-I)
- I.T. FALL PROTECTION ON PLATFORM TRUSSES (II/RF-I)

  2. IF TRUSS DOES NOT APPEAR ON THE TRUSS BRACING
  SHEET, NO ADDITIONAL LATERAL BRACING REQUIRED.

#### LEGEND

BEARING WALL

MINDICATES BEARING FROM POINT-LOAD ABOVE

1 JACKS

BEAM/HEADER

PAD FOOTING

STEEL COLUMN

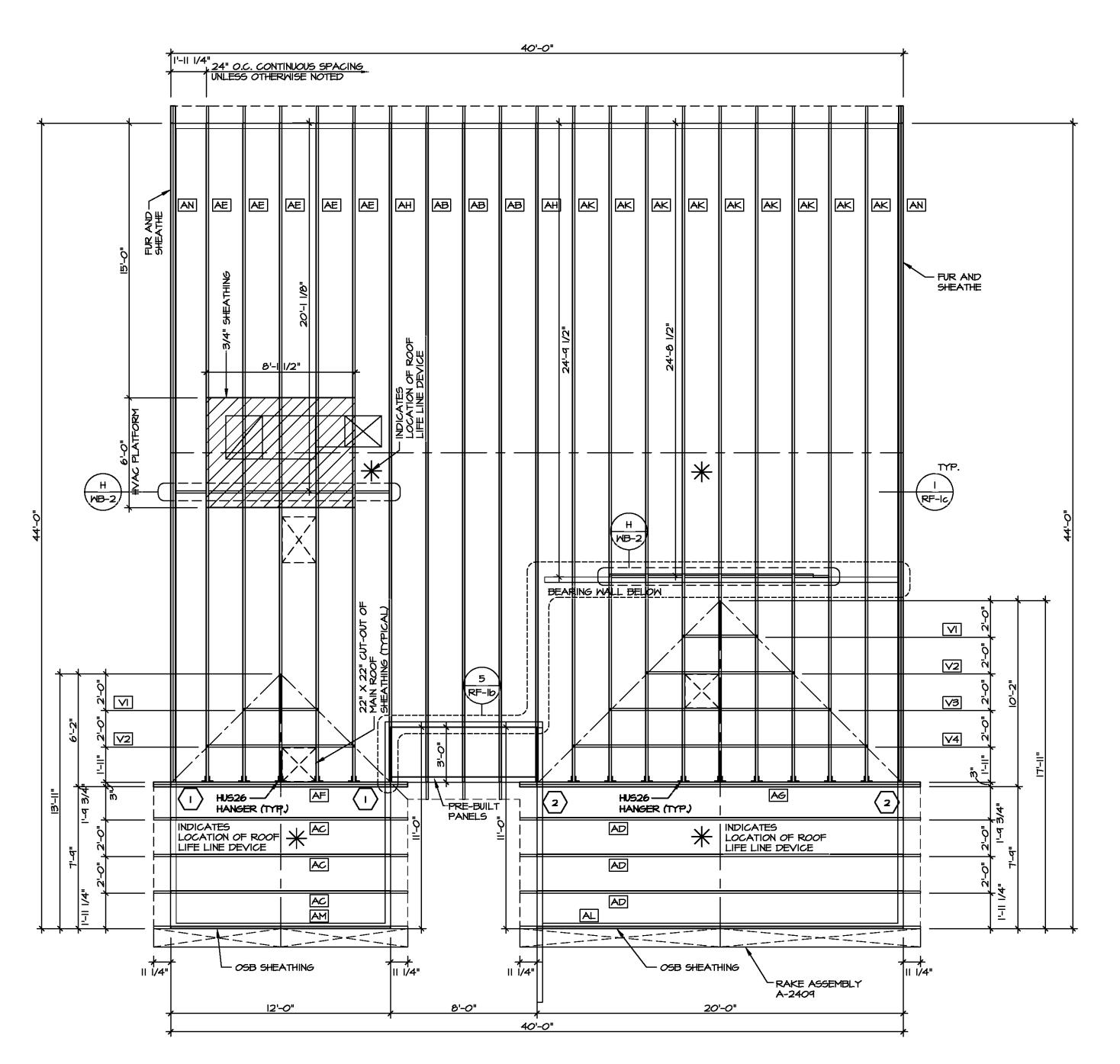
TRUSS TIE DOWN X PORTAL FRAME

X JOIST/TRUSS

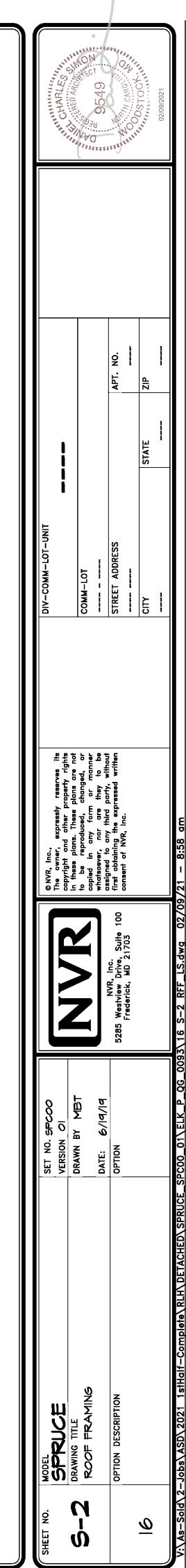
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SEE FC DETAILS FOR FRAMING CONNECTORS







#### TRUSS BRACING NOTES

- IF TRUSS DOES NOT APPEAR ON THIS TRUSS BRACING SHEET, NO ADDITIONAL LATERAL BRACING IS REQUIRED.
- REQUIRED.

  2. IX6 SPF#2 LATERAL BRACES SHALL BE NAILED TO MINIMUM (3) TRUSS MEMBERS WITH MINIMUM (2) IOD NAILS. PROVISIONS MUST BE MADE AT ENDS OR SPECIFIED INTERVALS TO RESTRAIN OR ANCHOR LATERAL BRACING.

  3. WEB "T" BRACE, DETAIL 3/RF-Ic, IS REQUIRED WHERE LATERAL BRACING IS NOT CONTINUOUS ACROSS THREE (3) OR MORE TRUSSES AND MAY BE USED IN LIEU OF IX6 LATERAL BRACING.

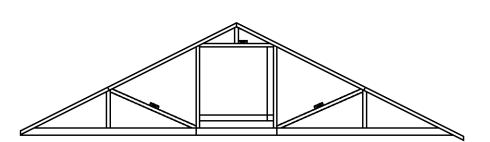
  4. DIAGONAL BRACING REQUIRED WHEN LATERAL BRACING IS REQUIRED (1/RF-I)

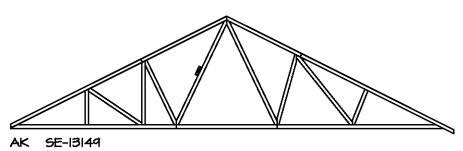
  5. STUDDED GABLE BRACING DETAIL I/RF-Ic TO BE UTILIZED FOR TRUSSES 6'-9" IN HEIGHT OR GREATER.

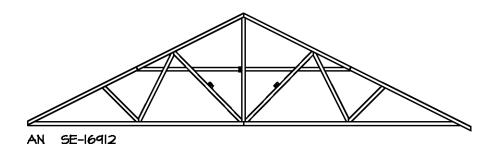
  6. PARTIALLY SHEATHED GABLES, SEE 5/RF-Ic FOR "L" BRACING WHEN REQUIRED.

  7. LATERAL BRACING CAN BE APPLIED TO EITHER SIDE OF THE WEB MEMBER IDENTIFIED IN THE DRAWING.

  8. SHEATHING (OSB OR GYPSUM) REPLACES LATERAL AND DIAGONAL TRUSS BRACING.



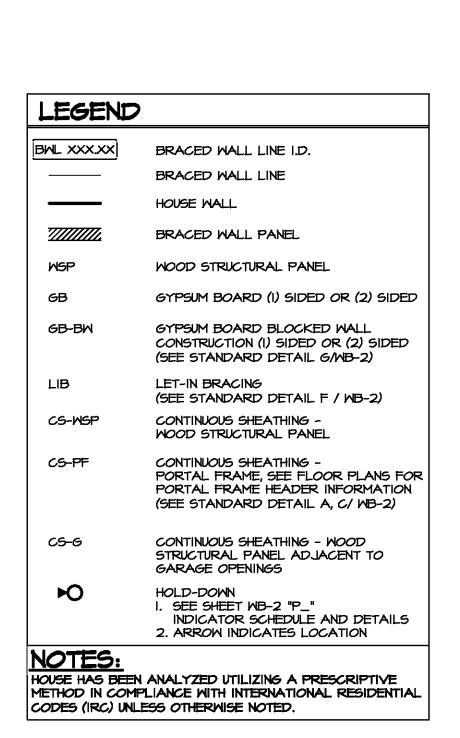




### TRUSS BRACING DETAILS



SOUTHEAST TRUSS SPECIFICATIONS



FASTENING SCHEDULE						
SHEATHING	FASTENER	SPA	CING			
SILLATINO	INDILITER	EDGES	FIELD			
7/16" WOOD STRUCTURAL PANELS OR	8d COMMON NAILS	6" O.C.	12" 0.0.			
EQUIVALENT (W/ METHOD MSP, CS-MSP, CS-G)	ALTERNATIVE FASTENER 1-3/4" 16-GAUGE CORROSION RESISTANT STAPLES	3" O.C.	12" 0.0			
1/2" GYPSUM WALLBOARD	I-1/4" LONG, 1/4" HEAD, .098" DIA. ANNULAR-RINGED NAILS	7" O.C.	7° 0.C.			
(W METHOD GB-I, GB-2)	CORROSION RESISTANT TYPE W I-I/4" DRYWALL SCREWS	7" O.C.	7 <b>"</b> O.C.			
LAMINATED FIBROUS	IOd X I I/4" GALVANIZED ROOFING NAILS	3" O.C.	3" O.C.			
STRUCTURAL SHEATHING	I-I/4" I6-GAUGE CORROSION RESISTANT STAPLES	3" <i>0.</i> c.	3" <i>O.</i> C.			
I/2" GYPSUM WALLBOARD BLOCKED AT THE EDGES (W/ METHOD GB-BW-I, GB-BW-2)	BLOCKING REQUIRED AT ALL GYPSUM EDGES. USED CORROSION RESISTANT TYPE W 1-1/4" DRYWALL SCREWS	4" O.C.	12" O.C.			

NOTES:

I. MINIMUM 7/16" CROWN WIDTH FOR STAPLES IN WOOD STRUCTURAL PANEL.

2. SPECIFIED GYPSUM FASTENING REQUIRED ONLY WHERE METHOD GB IS IDENTIFIED. SEE PHASE SPECS FOR TYPICAL GYPSUM FASTENER SPACING.

3. USE OF STAPLES IN WOOD STRUCTURAL PANEL AS FASTENING METHOD ON WALLS PER ENGINEERED ALTERNATIVE.

	24'-0"			
BML 102.00	IO'-4" GB-I	3'-7  /4"  Z/  8- E	, II'-3 I/4" , GB-I	, 4'-q 1/2" 
	O'-O"		24'-0"	MSP "8/E T-'8
BMT 100.00	CS-WSP. CS			2' PANEL RETURN
BML IC	1 1  2 <sup>i</sup> -0"	PI P2 W  2'-0"  BWL 105.00	7 F5A W	PI P

## FIRST FLOOR WALL BRACING DETAIL S-4 SCALE: 1/8" = 1'-0"

	BRACED	WALL LINE	SCHEDULE	
WIND SPEED (ULT)	IDENTIFIER	ACTUAL (FT)	REQUIRED (FT)	METHOD
130 MPH	BWL 100.00	10.00'	1.05'	CONTINUOUS (2 SIDES)
130 MPH	BWL 101.00	38.01'	8.61'	WSP (2 SIDES)
130 MPH	BWL 102.00	10.761	יוד.סו	6B
I30 MPH	BWL 103.00	31.79'	8.81'	MSP (2 SIDES)
130 MPH	BWL 104.00	16.13'	6.75'	WSP (2 SIDES)
130 MPH	BWL 105.00	22.00'	6.00'	WSP (2 SIDES)

BWL 104.00

MODEL SPRUCE	SET NO. SPCOO VERSION OI		© NVR, Inc., The owner, expressly reserves its	DIV-COMM-LOT-UNIT	1		THE CHARLES OF
DRAWING TITLE MALL BRACING DETAILS	DRAWN BY MBT		in these plans. These plans are not to be reproduced, changed, or copied in any form or manner whotecaver nor are they to be	COMM-LOT			PROSPERIOR PROPERTY OF THE PRO
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