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KIPLING VOLLAGE - LOT 105 - 38 ARTESA COURT  
0652-37-7582.000  
RYAN HOMES

GRAND CAYMAN

DIV-COMM-LOT-UNIT

RLH-VK-0105

COMM-LOT

KIPLING VILLAGE - 0105

STREET ADDRESS

38 ARTESA COURT

APT. NO.

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CITY

FUQUAY VARINA

STATE

NC

ZIP

27526



NVR, Inc.  
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Frederick, MD 21703

As directed by the North  
Carolina Board of  
Architecture and  
Registered Interior  
Designers, architectural  
seals are not required for  
— and should not be  
placed by NVR on —  
these plans and  
specifications.

*[Signature]*  
James Sales  
03/25/2025

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STRUCTURAL DESIGN CRITERIA
<ul style="list-style-type: none"><li>ALL LOCAL AND STATE CODES</li><li>ROOF LIVE LOAD20 psf</li><li>ULTIMATE WIND SPEED130 mph</li><li>WIND EXPOSURE CATEGORYB</li><li>SEISMIC DESIGN CATEGORYA / B</li></ul>

FIRST FLOOR SQUARE FOOTAGE

DESCRIPTION	TOTAL SQ. FT.
1ST FLOOR SLAB FOUNDATION (BASE SF)	1533 SF
	1533 SF

GARAGE SQUARE FOOTAGE

DESCRIPTION	TOTAL SQ. FT.
TWO CAR GARAGE SLAB FOUNDATION	443 SF
	443 SF

UNFINISHED SQUARE FOOTAGE

DESCRIPTION	TOTAL SQ. FT.
REAR COVERED PORCH (ADD. SF)	140 SF
FRONT COVERED PORCH (ADD. SF)	25 SF
	165 SF

TOTAL FINISHED SQUARE FOOTAGE

DESCRIPTION	TOTAL SQ. FT.
1ST FLOOR SLAB FOUNDATION (BASE SF)	1533 SF
	1533 SF

SET NO. - VERSIONSHEET NO.PAGE NO.

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RELEASE NO. ----

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GENERAL

1. These plans and specifications are designed for the exclusive use by NVR, Inc. for the purpose of residential construction. As such, these products are offered for sale in NVR, Inc. communities only. NVR, Inc. is a production homebuilder and does not provide the opportunity to customize these plans. The respective drawings contained here in shall only be used as construction assembly drawings by NVR, Inc. and their sub-contractors. Any unauthorized use of these plans without the written consent of NVR, Inc. is prohibited. All standard notes, section markers, elevation markers and title markers that reference "A-#" shall be considered "NC-#" for sheet reference.
2. These plans are subjected to modification as necessary to meet code requirements or to facilitate mechanical/plumbing installations or to incorporate design improvements.
3. These plans are not to be scaled for construction purposes. Dimension lines and notes supersede all title references.
4. Single Family Attached/Detached - Automatic residential fire sprinkler systems shall be installed in accordance with NCRBC P2404 or NFPA 13D where required.
5. 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 301.3.

CODE ANALYSIS

1. 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, NCGC 2018, NCFGC 2018, NEC 2020 w/ NC Amendments, NCEC 2018, NCCFC 2018
2. Constr. Type: V-B
3. Max Stories: 3

ENERGY AND MECHANICAL

1. Insulation requirements per 2018 NCRC Chapter 11, Energy Efficiency, or Chapter 4 of the 2018 North Carolina Energy Conservation Code (NCECC), or Chapter 4 of the 2015 International Energy Conservation 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.

CLIMATE 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-VALUE
3	0.35	0.30	38	15 / 14	14	5 / 15	NA	5 / 15
4	0.35	0.30	38	15 / 14	14	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 - 9.2 HSPF
3. 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:
- Ridge vent: Minimum 18 sq. in. of vent per linear foot  
Soffit vent: Minimum 4.9 sq. in. of vent per linear foot  
Roof jack (box vent): Minimum 45 sq. in. of vent per unit
5. See NVR "Standard Energy Package" for field procedures and details.

DESIGN LOADS

Table of Loads for House Structure. Per Table 301.5

Floor Living Areas	- 40# P.S.F. (Live) - 10# P.S.F. (Dead) unless noted otherwise by calculations
Floor Sleeping Areas	- 30# P.S.F. (Live) unless noted otherwise by calculations - 10# P.S.F. (Dead) unless noted otherwise by calculations
Garage Floors	- 50# P.S.F. (Live) - 50# P.S.F. (Dead)
Roof Areas	- Top Chord - 20# P.S.F. (Live) - 10# P.S.F. (Dead) - Bottom Chord - 10# P.S.F. (Live) (Attics without storage) - 20# P.S.F. (Live) (Attics with limited storage) - 10# P.S.F. (Dead) - 30# P.S.F. (Live)
Habitable Attics Trusses	- 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 Table R301.2(4)
Walls	Vult 115 mph 130 mph Vasd 84 mph 101 mph Note: Linear interpolation between contour lines permitted. - 40# P.S.F. (Live) - 10# P.S.F. (Dead)
Stairs	- 40# P.S.F. (Live) - 10# P.S.F. (Dead)
Allowable deflection of structural members per IRC Table R301.7	

Design Criteria

- Design Codes:
- National Design specification for Wood Construction by National Forest Products Association.
  - Specification for the Design Fabrication and Erection of Structural Steel for Buildings by American Institute of Steel Construction.

Materials:	
Headers*	Southern Pine (KD-14), No. 1 Grade
Studs	Spruce-Pine-Fir, Stud Grade
Jacks	Spruce-Pine-Fir, Stud Grade
Beams**	Southern Pine (KD-14), No. 1 Grade
Joists	2x10 Hem-Fir (KD-14), No. 2 Grade or better (NCLIB & MNFA) 2x8 Southern Pine (KD-14), No. 1 Grade or better 2x10 Spruce-Pine-Fir (KD-14), No. 2 Grade or better (NLGA)
LVL	1.4E Minimum

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

FOUNDATIONS

- All plain and reinforced concrete shall comply with requirements in ACI 318.
- Concrete footings shall be poured a maximum 5" slump, 5 bag mix, and 2500 psi minimum strength per Table R402.2. Concrete walls shall be placed a maximum 5" slump, 5 1/2-bag mix, and 3000 psi minimum strength per Foundation Wall Design table below. Special soil and or wall height conditions may require a higher psi mix.
- 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.
- Footing frost depth to be no less than 12" per R403.4 and Table R301.2(1).
- Minimum Soil Bearing Capacity shall be 2,000 PSF per Table R401.4.1.
- Slab requirements:  
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 a minimum 2500 PSI per Table R402.2.  
Non-structural garage slabs shall be nominal 3-1/2" thick and shall be installed on compacted / undisturbed soil per Table R402.2. Slabs shall be 3500 PSI air-entrained concrete.  
Structural garage slabs utilizing grade beams shall be nominal 4" thick. Slabs shall be 3500 PSI air-entrained concrete.  
Porch slab and exterior concrete work shall be nominal 4" minimum 3500 PSI air-entrained concrete with 6x6 W4XW4 mesh or equivalent fiber mesh reinforcement.
- Unconditioned crawl spaces shall have a minimum net area of ventilation not less than 1 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 be not less than 1 square foot for each 1500 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.
- 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 R405.1.
- The top course of block of foundation walls shall be semi-solid block or open cores of hollow block shall be filled with mortar.
- Block piers to be solid block or mortar-filled hollow block.
- 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.
- Concrete and masonry foundation walls shall be dampproofed with min. 3/8" portland cement paring from footing to top of finished grade. The paring shall be covered with a coat of approved bituminous material applied at the recommended rate per R406.1.
- 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 membrane shall be lapped and sealed with an adhesive compatible with the waterproofing membrane. Waterproofing to be in accordance with R406.2.
- Reserved for future use.
- Foundation framing anchors shall be 1/2"x18" anchor bolts with 1" minimum embedment or Simpson Strong-Tie M5A / USP FAS (16 gauge steel, galvanized) or equivalent set in concrete or grouted cell, 1'-0" 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 224" x 3" x 3" plate washer per R403.1.6.1 and maximum anchor bolt spacing for buildings over two stories shall be 4'.
- Steel columns and bases shall be given a shop coating of rust-inhibitive paint or equivalent to provide corrosion resistance per R401.2.
- For masonry veneers:  
Per R103.8.4.1 - 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 tie 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 (914 mm) on center and placed within 12 inches (305 mm) of the wall opening.  
Per R103.2 - One layer of No. 15 asphalt felt or other approved water-resistive barrier shall be provided behind brick.  
Per Table R103.8.4 - Provide minimum 1-inch air space between brick veneer and sheathing.  
Per R103.8.6 - Provide minimum 3/16" diameter weep holes at 33" on center maximum, located immediately above the flashing.  
Per R103.8.5 - When veneer of brick, clay tile, concrete, or natural or artificial stone are used, 6 mil plastic flashing shall be attached wherever necessary to prevent moisture penetration behind the veneer. See NVR Flashing Details.
- Reserved for future use.
- Foundation wall strip footing thickness to be 8" (or 6" with a single story) unless otherwise 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.
- Block foundation walls may be substituted for poured foundation walls shown on foundation plans provided all requirements of Section R404 are met.
- 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

WALL HEIGHT	WALL THICKNESS	LATERAL SOIL UNBALANCED LOAD (a)	HORIZONTAL FILL	VERTICAL REINFORCING (b)	HORIZONTAL REINFORCING (b)
8'-0"	45	6'-0"	NOT REQUIRED	2- #4 BARS (f)	
			7'-0"	NOT REQUIRED (d)	3- #4 BARS (de)
			8'-0"	NOT REQUIRED (d)	3- #4 BARS (de)
	60	6'-0"	NOT REQUIRED (d)	3- #4 BARS (f)	
			7'-0"	#4 @ 22" O.C. (d)	3- #4 BARS (de)
			8'-0"	NOT REQUIRED (d)	3- #4 BARS (de)
10'	45	6'-0"	NOT REQUIRED	2- #4 BARS (f)	
			7'-0"	NOT REQUIRED	2- #4 BARS (f)
			8'-0"	NOT REQUIRED	2- #4 BARS (f)
	60	6'-0"	NOT REQUIRED	2- #4 BARS (f)	
			7'-0"	NOT REQUIRED	2- #4 BARS (f)
			8'-0"	NOT REQUIRED	2- #4 BARS (f)
8'	45	6'-0"	NOT REQUIRED (d)	4- #4 BARS (de)	
			7'-0"	#4 @ 14" O.C. (d)	4- #4 BARS (de)
			8'-0"	#4 @ 15" O.C. (d)	4- #4 BARS (de)
	60	6'-0"	NOT REQUIRED	3- #4 BARS (g)	
			7'-0"	NOT REQUIRED (d)	4- #4 BARS (de)
			8'-0"	NOT REQUIRED (d)	4- #4 BARS (de)
9'-0"	45	6'-0"	NOT REQUIRED	3- #4 BARS (g)	
			7'-0"	NOT REQUIRED (d)	4- #4 BARS (de)
			8'-0"	NOT REQUIRED (d)	4- #4 BARS (de)
	60	6'-0"	NOT REQUIRED	3- #4 BARS (g)	
			7'-0"	NOT REQUIRED (d)	4- #4 BARS (de)
			8'-0"	#4 @ 14" O.C. (d)	4- #4 BARS (de)

NOTE: BACKFILLING OF THE FOUNDATION SHALL NOT TAKE PLACE BEFORE THE BASEMENT SLAB IS IN PLACE AND THE FLOOR FRAMING IS ERECTED OR UNLESS WALLS ARE ADEQUATELY BRACED.

- SOIL CLASSES GM, GC, SM, SM-SG AND ML - 45 PSF  
SOIL CLASSES SC, MH, ML-CL AND CL - 60 PSF
- SPECIFICATIONS ARE BASED UPON F<sub>y</sub> = 60,000 PSI  
STEEL FOR F<sub>y</sub> = 40,000 PSI STEEL, REDUCE SPACING BY 0.67
- CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF NOT LESS THAN 3000 PSI
- ENGINEERED DESIGN PER ACI 332-14, REQUIREMENTS FOR RESIDENTIAL CONCRETE CONSTRUCTION
- 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.
- ONE BAR WITHIN 12" OF TOP AND AT MID-HEIGHT OF WALL PER TABLE R404.1.2(1).
- ONE BAR WITHIN 12" OF TOP AND ONE EACH AT THIRD POINT OF WALL HEIGHT PER TABLE R404.1.2(1).

PLANS

- Habitable attics and sleeping rooms shall have a window or door as a second means of egress that shall be minimum 5 1/2 square feet (513 sq. in.) for sleeping rooms and 5.7 sq. ft. if at grade level) with maximum sill height 44" above finish floor (min. hgt. 24", min. width 20") per R310.1.
- All emergency escape and rescue openings shall have a minimum net clear openable area of 4 sq 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 5.7 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 R310.2.3 with a minimum of 4 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 R310.2.3.1.
- 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'-0" 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.
- Sliding glass drs/patio drs/walks must be safety glazed per R308.4.
- Interior stairway shall have minimum head room of 6'-8" per R311.2 and minimum tread depth of 4" 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 R311.7. Enclosed accessible space under stairs shall have walls, under stair surface and any soffits protected on the enclosed side with 1/2" gypsum board per R302.7.
- 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.
- 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.
- 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.
- 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.
- All flashing used (including at windows, doors, and with stone or masonry veneer) shall be corrosion-resistive per R103.4. See NVR Flashing Details.
- Wood framed bearing walls shall 2 x 6 at 24" o.c. maximum or 2 x 4 at 16" o.c. maximum per Table R602.3(3) and Table R602.3(5) unless otherwise noted on plans.
- All exterior sheathing to be structural sheathing designed in accordance with R602.10.
- An approved water-resistive barrier shall be applied over sheathing of exterior walls per Section R103.2.
- 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.
- Screen fastening is typical for gypsum installation and nailing will only be permitted at the perimeter of the board.
  - All screws shall be corrosion-resistant Type N-114" drywall screws.

SCREEN FASTENING SCHEDULE				
Framing Spacing	Ceilings	WITH ADHESIVE		
		Load-brg. walls	Non-load-brg. walls	
16	16	24	24	
24	16	24	24	
Framing Spacing	Ceilings	WITHOUT ADHESIVE		
		Load-brg. walls	Non-load-brg. walls	
16	12	16	16	
24	12	12	12	

- For 1/2" wallboard, nails shall be 1-1/4" long, 1/4" head and .048 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 .048 diameter shanks.
- Garages shall be completely separated from the residence and attic area by not less than 1/2" gypsum board applied to the garage side. Garages beneath habitable rooms shall be separated from all habitable rooms above by not less than 5/8" 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" gypsum board per Section R302.4. Openings and penetrations through the separation shall be protected by sealing the area around the penetration per Section R302.5. 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.
  - Asphalt shingles shall be installed per section R405.2. 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 R405.1.1 Exception #1.
  - Attic spaces shall be ventilated w/ ridge and soffit vents unless otherwise noted. Venting provided per R306.2.
  - Fireblocking shall be installed between ceiling and floor openings per R302.11. Draftstopping to be installed in accordance with R302.12.
  - Water closet, lavatory or bidet shall not be set closer than 15 inches from its center to any side wall, partition or vanity or closer 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 P2105.1
  - Heating and cooling equipment installation shall be in accordance with IRC Chapter 14 and the International Mechanical Code.
  - Mechanical fireplaces shall be installed per Section R1004 and 1005.
  - 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.
  - Untreated wood shall be minimum 8" above finish grade per R311.7 Item #2.
  - Bottom plates on slabs and any wood in contact w/ concrete or masonry to be pressure treated material per Section R311.
  - 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 1 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 R311.3.
  - Air exhaust and intake openings that terminate outdoors shall be protected with corrosion-resistant screens, louvers, or grills having a min. opening size of 1/4" and maximum of 1/2" in any dimension per R303.6.
  - Fasteners and connectors for pressure preservative-treated wood shall be hot-dipped galvanized steel.
  - Windows that have an operable opening more than 12" 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.
  - The final grade shall fall a minimum of 6 inches within the first 10 feet of the foundation per R401.3.
  - One- and two-family dwelling construction (R302.1.1):  
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 R306. Where the property line is 10 feet or more from the building face, the provisions of this code section shall not apply.  
Townhouse construction (R302.2.5):  
Projections extending into the fire-separation distance shall have not less than 1-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 nominal 2-inch continuous or equivalent intermittent and shall not exceed the minimum net free air requirements of Section R306.2 by more than 50%. Vents in soffit are not allowed within 4 feet of fire walls or property lines per R302.2.5 and R302.2.6.
  - 1-hour fire-rated construction required on projections within 2' to 3' of lot line per R302.1. No projections allowed within 2' of property line.  
1-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.
  - 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 (NCEC). 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.
  - Minimum floor sheathing shall be 5/8" tongue & 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

- Ground-fault and arc-fault circuit interrupter protection is provided per NFPA 70 (National Electric Code).
- Electric panel box installation to be in accordance with NFPA 70, Article 408 Section III. Location may vary by design.
- 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 from the building wiring and be equipped with a battery backup.
- Unless listed for installation in such locations, smoke detectors shall be installed at least 10' 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.
- 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 1fc measured at the center of the tread or landing per R303.7.
- Outlets within 6' of a sink must be GFI protected.
- 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.
- Outlets installed in laundry areas must be GFI protected.

As directed by the North

Carolina Board of Architecture and Registered Interior Designers, architectural seals are not required for these plans and specifications.

REV. NO. 1 DATE 1/29/14 REMARKS MBT - CODE UPDATES FOR 2018 NCRBC

1 3/1/14 MBT - UPDATED ENERGY NOTES

2 12/16/22 CAP - REVISE NOTE FOR 2X4 OR 2X6 EXTERIOR WALLS

3 09/25/2025

SEAL 44932

ENGINEER JONATHAN EDWARD RAY

Professional Engineer License # 34477

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NVR

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MODEL: NCRC 2018 SPEC SHEET

DRAWING TITLE: SINGLE FAMILY ATTACHED SINGLE FAMILY DETACHED

OPTION DESCRIPTION: NC State Building Code - Residential Code 2018

SET NO. 1

VERSION 1

DRAWN BY

DATE:

OPTION

SHEET NO. SS-1

1





Version 4.0  
(Last Revised 04/26/19)

ROOF VENTILATION CALCULATIONS

HOUSE NAME	GRAND CAYMAN
HOUSE VERSION	1
PRODUCT LINE	RYANHOMES
VENTILATION VALUES	
SOFFIT:	9.9 sq in of vent per lf
RIDGE:	18 sq in of vent per lf
BOX / GABLE VENT:	45 sq in of vent per unit

USER GUIDE	YES	(any)		(any)	VENT OK	No action req'd.
	NO	YES		OK	VENT OK	No action req'd.
	NO	YES		LOW	FAIL	Increase ridge
	NO	YES		HIGH	FAIL	Decrease ridge
	NO	NO		(any)	FAIL	Increase total vent

ELEVATION "J"															Notes
Location / Options	Area (A) (sq in)	Required: A/150 (sq in)	Required: A/300 (sq in)	Soffit (lf)	Soffit Vent (sq in)	Ridge (lf)	Ridge Vent (sq in)	Upper Box / Gable Vent (qty)	Lower Box Vent (qty)	TOTAL (sq in)	OK A/150	OK A/300	A/300 % vent at ridge	A/300 40%-50% OK?	
Without Rear Porch	287999	1919.99	960.00	90.125	892.24	22	396.00			1288.24	NO	YES	41.25%	OK	
With Rear Porch	308159	2054.39	1027.20	92.375	914.51	23	414.00			1328.51	NO	YES	40.30%	OK	
		0.00	0.00		0.00		0.00			0.00	NO	NO			
		0.00	0.00		0.00		0.00			0.00	NO	NO			
		0.00	0.00		0.00		0.00			0.00	NO	NO			
		0.00	0.00		0.00		0.00			0.00	NO	NO			

ELEVATION "K" or "L"															Notes
Location / Options	Area (A) (sq in)	Required: A/150 (sq in)	Required: A/300 (sq in)	Soffit (lf)	Soffit Vent (sq in)	Ridge (lf)	Ridge Vent (sq in)	Upper Box / Gable Vent (qty)	Lower Box Vent (qty)	TOTAL (sq in)	OK A/150	OK A/300	A/300 % vent at ridge	A/300 40%-50% OK?	
Without Rear Porch	287999	1919.99	960.00	90.125	892.24	22	396.00			1288.24	NO	YES	41.25%	OK	
With Rear Porch	308159	2054.39	1027.20	92.375	914.51	23	414.00			1328.51	NO	YES	40.30%	OK	
		0.00	0.00		0.00		0.00			0.00	NO	NO			
		0.00	0.00		0.00		0.00			0.00	NO	NO			
		0.00	0.00		0.00		0.00			0.00	NO	NO			
		0.00	0.00		0.00		0.00			0.00	NO	NO			

Rear Porch															Notes
Location / Options	Area (A) (sq in)	Required: A/150 (sq in)	Required: A/300 (sq in)	Soffit (lf)	Soffit Vent (sq in)	Ridge (lf)	Ridge Vent (sq in)	Upper Box / Gable Vent (qty)	Lower Box Vent (qty)	TOTAL (sq in)	OK A/150	OK A/300	A/300 % vent at ridge	A/300 40%-50% OK?	
	20160	134.40	67.20	18	178.20		0.00			178.20	YES	N/A	N/A	N/A	
		0.00	0.00		0.00		0.00			0.00	NO	NO			
		0.00	0.00		0.00		0.00			0.00	NO	NO			
		0.00	0.00		0.00		0.00			0.00	NO	NO			
		0.00	0.00		0.00		0.00			0.00	NO	NO			
		0.00	0.00		0.00		0.00			0.00	NO	NO			

ADDITIONAL AREAS OF ROOF VENTILATION															Notes
Location / Options	Area (A) (sq in)	Required: A/150 (sq in)	Required: A/300 (sq in)	Soffit (lf)	Soffit Vent (sq in)	Ridge (lf)	Ridge Vent (sq in)	Upper Box / Gable Vent (qty)	Lower Box Vent (qty)	TOTAL (sq in)	OK A/150	OK A/300	A/300 % vent at ridge	A/300 40%-50% OK?	
		0.00	0.00		0.00		0.00			0.00	NO	NO			
		0.00	0.00		0.00		0.00			0.00	NO	NO			
		0.00	0.00		0.00		0.00			0.00	NO	NO			
		0.00	0.00		0.00		0.00			0.00	NO	NO			
		0.00	0.00		0.00		0.00			0.00	NO	NO			
		0.00	0.00		0.00		0.00			0.00	NO	NO			



Version 3.0  
(Last Revised 04/26/19)

HOUSE VOLUME CALCULATIONS

HOUSE NAME	GRAND CAYMAN
HOUSE VERSION	GCM00 / 01
PRODUCT LINE	RYANHOMES

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

ELEVATION "J", "K", "L"			
Location / Area of house	Floor Area (sq. ft.)	Mean height (ft.)	Total volume (cu. Ft.)
Main section of the house	1680.00	13.30	22348
Garage bump out from main house	320.00	11.40	3647
		Total House Volume	25994

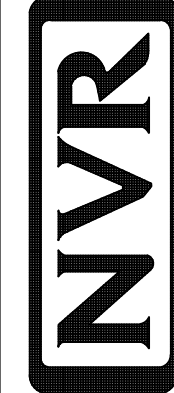
Additional areas of volume to be added to total house volume as needed			
Location / Area of house / option	Floor Area (sq. ft.)	Mean height (ft.)	Total volume (cu. Ft.)
Covered Porch "EPE"	140.00	9.44	1321
Full Basement "FBA"	1584.67	8.63	13668
Crawl space "FCA"	1584.67	0.80	1268

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DIV-COMM-LOT-UNIT  
RLH-VK-0105

COMM-LOT  
KIPLING VILLAGE - 0105  
STREET ADDRESS  
98 ARTESA COURT  
CITY  
FLUJAY VARINA  
STATE  
NC  
ZIP  
27526

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5285 Westview Drive, Suite 100  
Friedman, MD 21770

MODEL GRAND CAYMAN	SET NO. GCM00
DRAWING TITLE ROOF VENT AND VOLUME CALCULATIONS	VERSION 01
VOLUME CALCULATIONS	RELEASE NO. ----
OPTION DESCRIPTION	DRAWN BY
	DATE
	OPTION



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DIV-COMM-Lot-UNIT			
RLH-VK-0105			
COM-Lot	Kipling Village - 0105		
STREET ADDRESS	980 ARTESA COURT		
CITY	STATE	ZIP	
FUQUAY-VARINA	NC	27526	

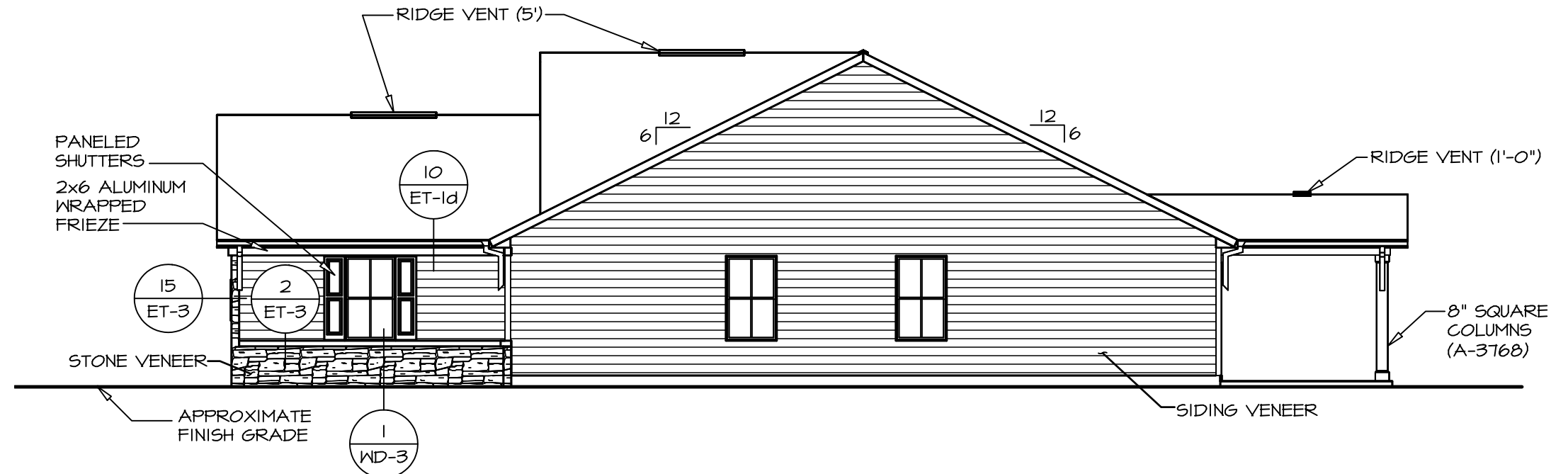
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James Sales  
03/25/2025

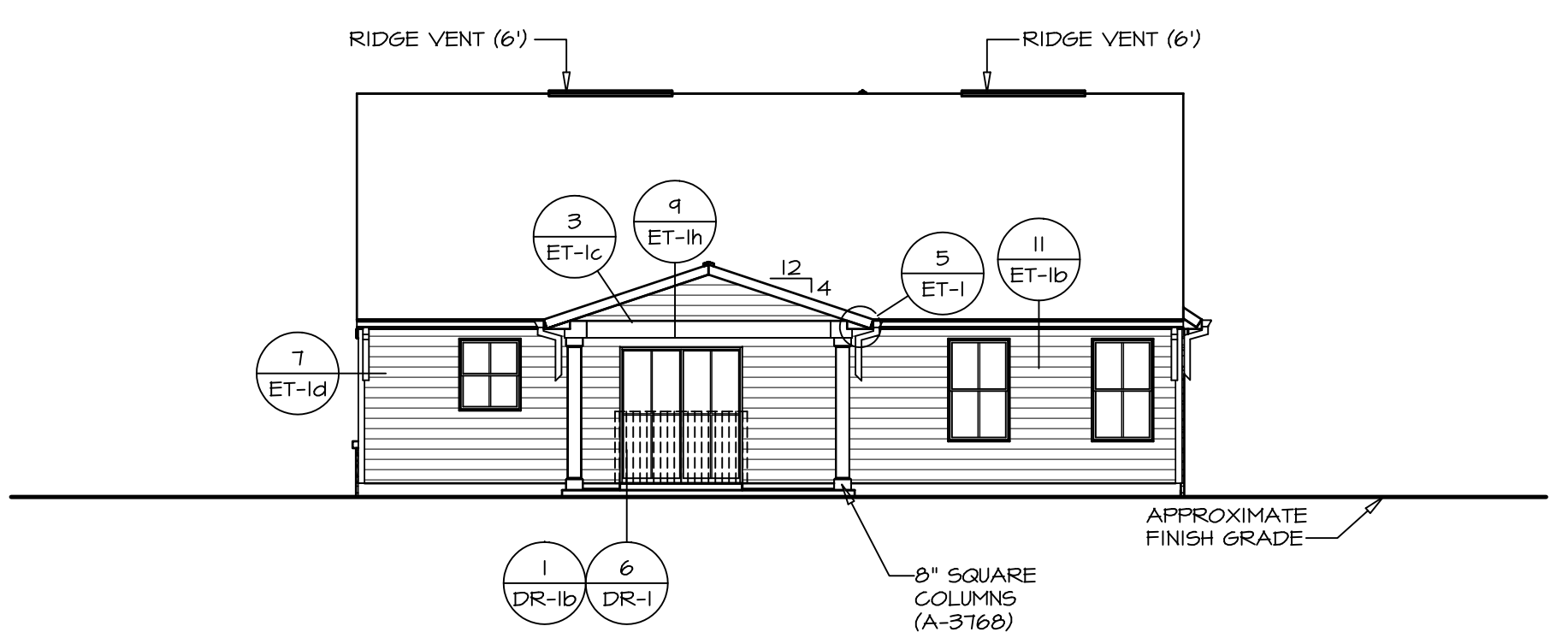
SET NO. 60000	VERSION 01	RELEASE NO. ----
DRAWN BY BN	DATE: 02/21/20	OPTION

SHEET NO. NC-1	MODEL GRAND CAYMAN DRAWING TITLE ELEVATIONS	OPTION DESCRIPTION
4		

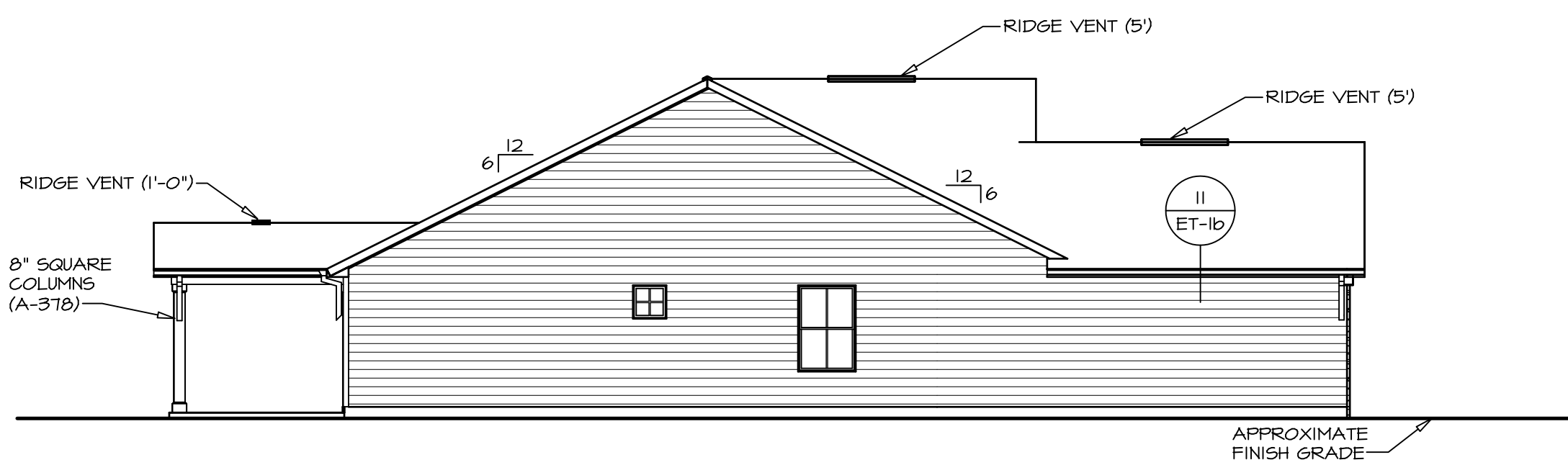
V:\As-Built\2-Jobs\Mitak\_Services\Assigned\RLH\_VK\_0105\ELL\_R\_VK\_0105\4 NC-1 ELEV LS (FSA).dwg 03/25/25 - 5:53 pm



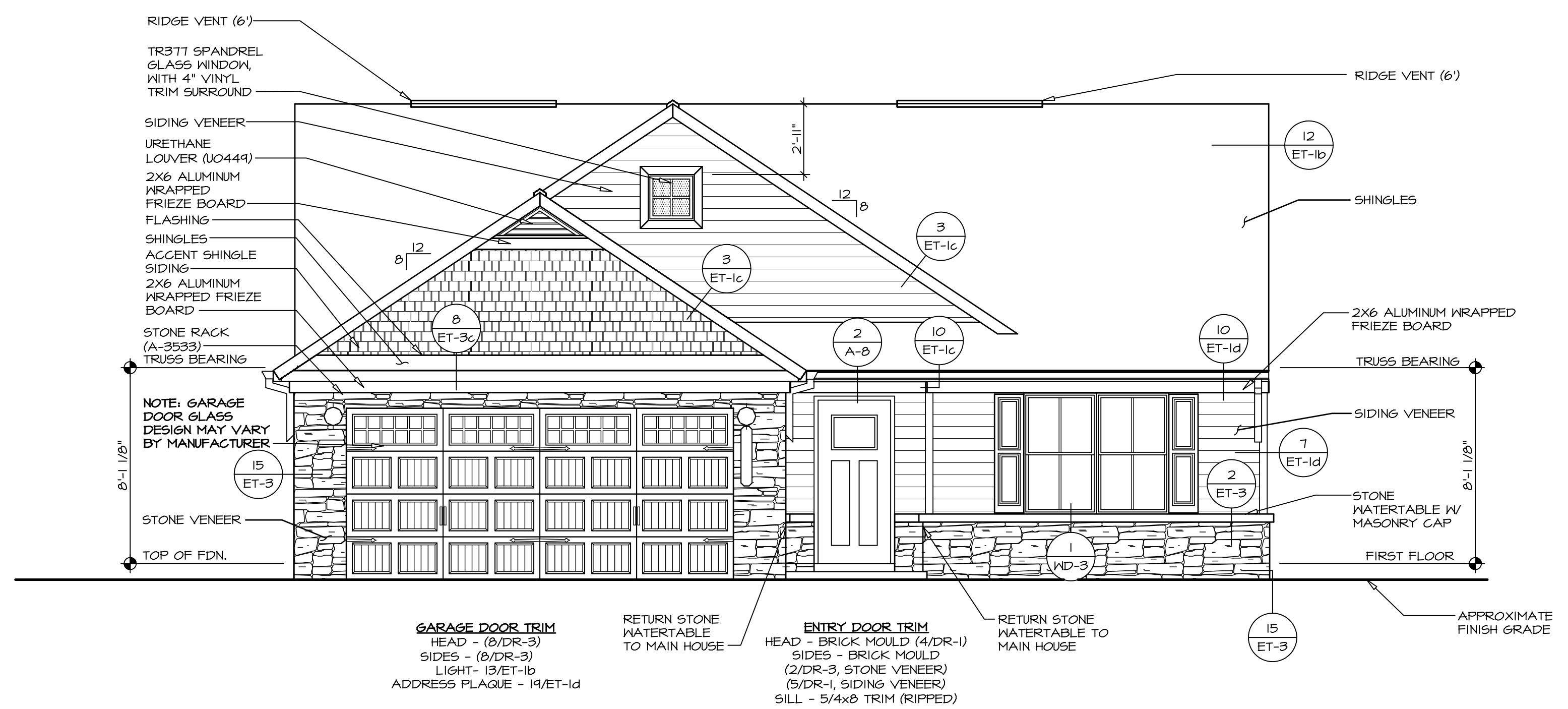
**2 RIGHT ELEVATION**  
SCALE: 1/8" = 1'-0"



**3 REAR ELEVATION**  
SCALE: 1/8" = 1'-0"

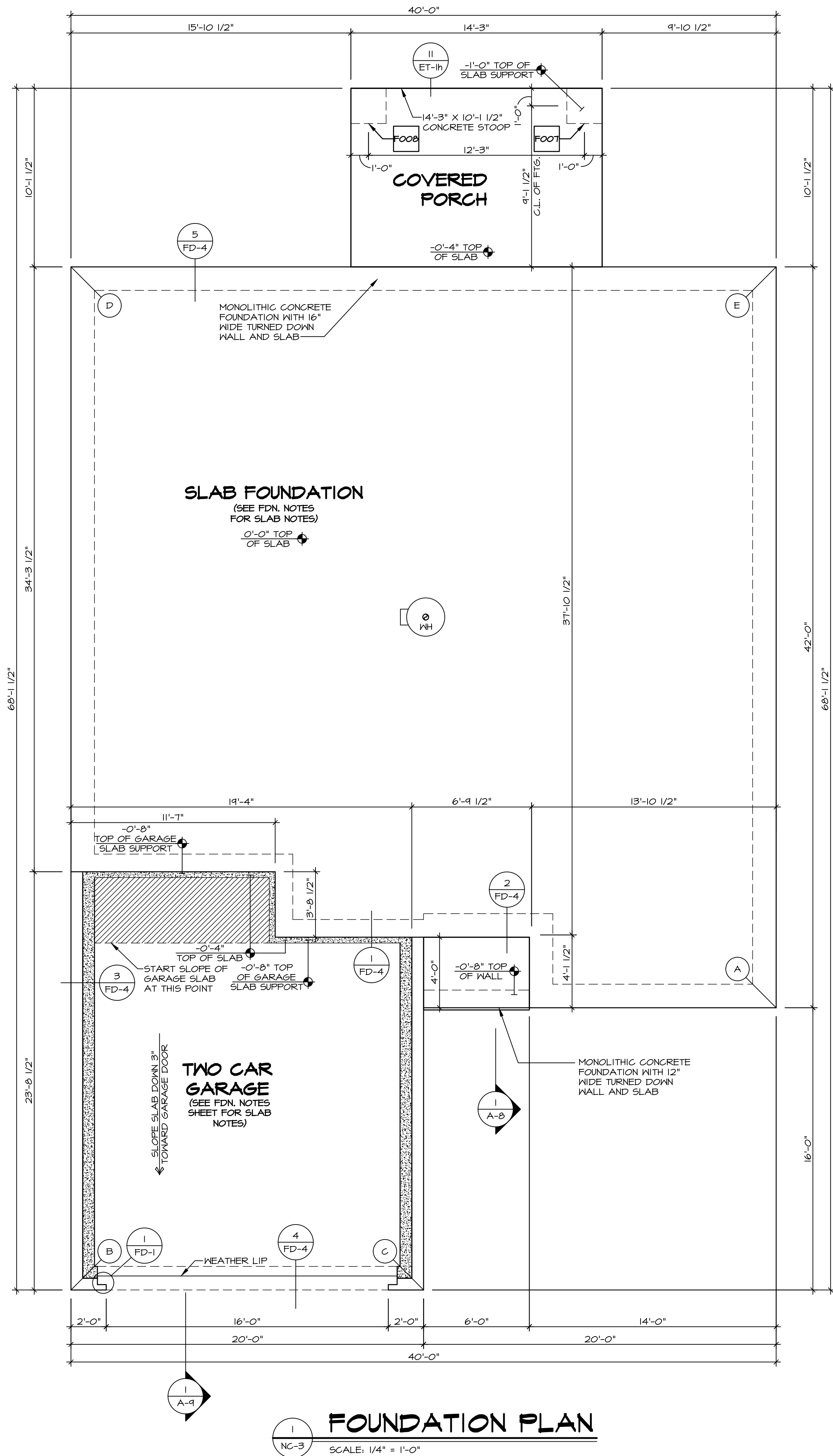


**4 LEFT ELEVATION**  
SCALE: 1/8" = 1'-0"



**1 FRONT ELEVATION "L"**  
SCALE: 1/4" = 1'-0"





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

**FOUNDATION NOTES - SLAB**

- SEE STANDARD DETAIL CATEGORY "FD" SHEET(S).
  - CONCRETE SLAB ON VAPOR BARRIER OVER SUB-BASE (SEE SPEC SHEET FOR SLAB NOTES)
- FOUNDATION UNDER GARAGE:
  - UNEXCAVATED WITH CONCRETE SLAB OVER SUB-BASE (SEE SPEC SHEET FOR SLAB NOTES) OR STRUCTURAL CONCRETE SLAB OVER SUB-BASE (SEE SPEC SHEET FOR SLAB NOTES)
- SEE FOUNDATION HOLD DOWN SHEET FOR CONNECTION INFORMATION.
- SLAB LEDGE LOCATIONS VARY W/ GRADE BEAM(S) ORIENTATION. SEE 6B-1 FOR DETAILS.
- THE DIRECTION OF THE ARROW IS THE DIRECTION OF REBAR, AS REQUIRED.
- ALL FOOTINGS ARE PLAIN, NON-REINFORCED CONCRETE UNLESS NOTES OTHERWISE.
- SEE 16B-1 DETAILS FOR FOOTER SLEEVE INFORMATION.
- THICKEND SLAB DEPTHS MEASURE FROM TOP OF SLAB. PAD FOOTING DEPTHS MEASURE 4" BELOW TOP OF SLAB.

**LEGEND**

- BEARING WALL
- NON BEARING WALL
- MASONRY WALL
- INDICATES BEARING FROM POINT-LOAD ABOVE
- JACKS
- BEAM/HEADER
- FOOTING/THICKEND SLAB
- STEEL COLUMN
- TRUSS TIE DOWN
- PORTAL FRAME
- JOIST/TRUSS
- LVL
- ENGINEERING PAGE NUMBER
- WINDOW/DOOR TAG
- PRECAST LINTEL TAG
- SEE FA DETAILS FOR FIRE ASSEMBLIES
- SEE FC DETAILS FOR FRAMING CONNECTORS AND MATERIAL USAGE

**PAD FOOTING SCHEDULE**

IDENTIFIER	LENGTH	WIDTH	HEIGHT	ENG. NUM.	REMARKS
FOOT	2'-0"	2'-0"	1'-0"	S0001	
FOOB	2'-0"	2'-0"	1'-0"	S0001	

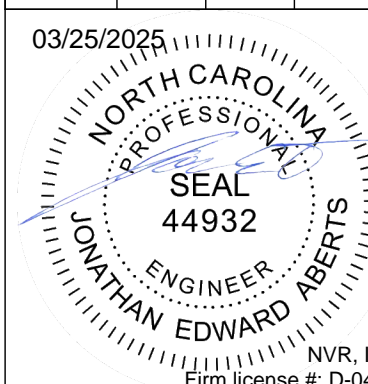
**FOUNDATION DIAGONALS**

A		B	
A	0"	A	43'-1"
B	43'-1"	B	0"
C	25'-7 3/8"	C	20'-0"
D	58'-0"	D	58'-0"
E	42'-0"	E	70'-5 7/16"

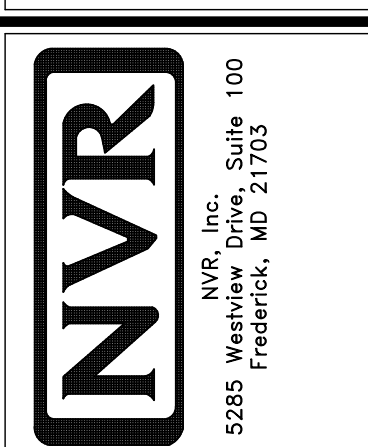
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DIV-COMM-LOT-UNIT  
**RLH-VK-0105**

COMM-LOT  
KIPLING VILLAGE - 0105  
STREET ADDRESS  
980 ARTESA COURT  
CITY  
FUGUAY VARINA



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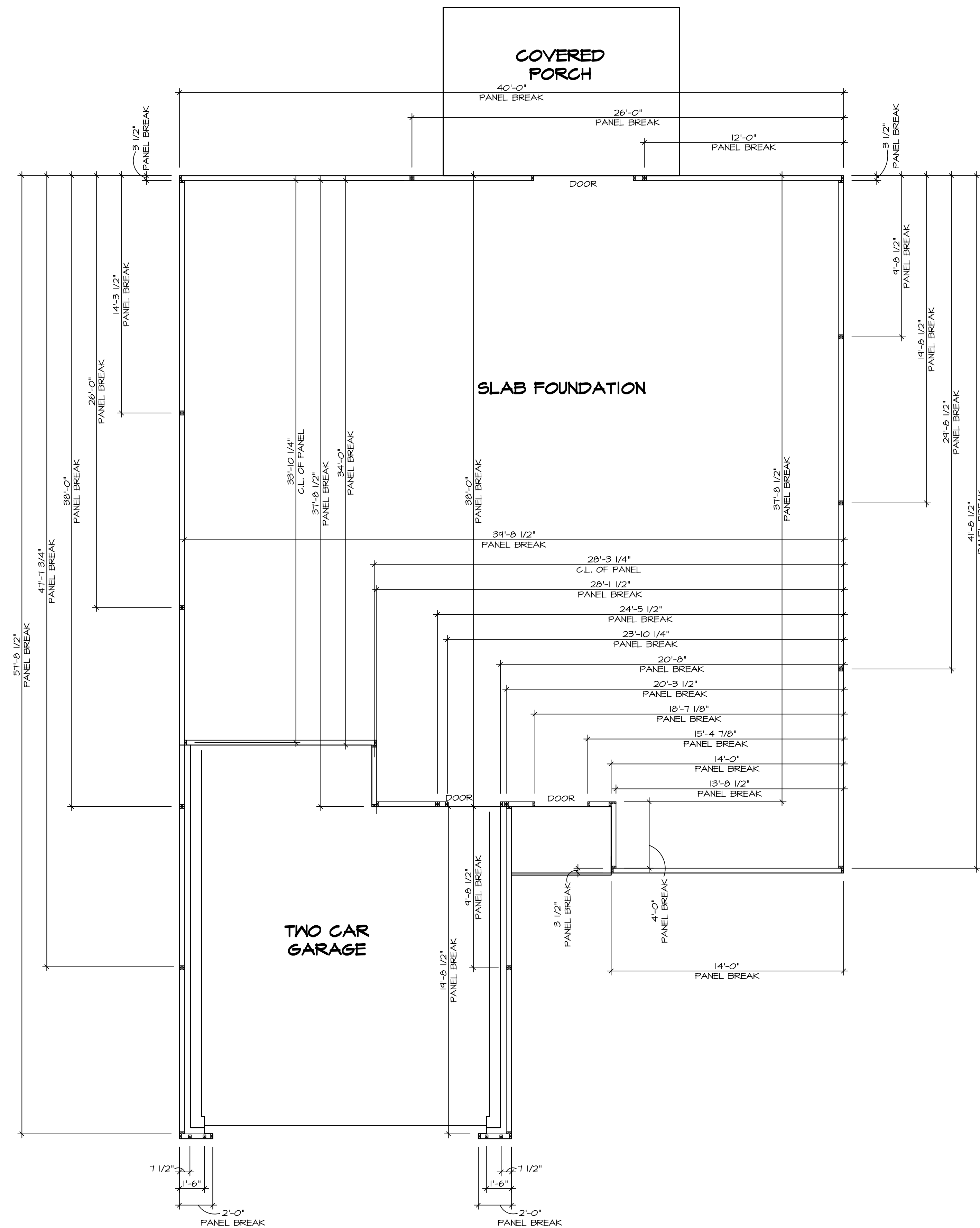


SET NO. 60M00  
VERSION 01  
RELEASE NO. ----  
DRAWN BY HNP  
DATE: 02/20/20  
OPTION

SHEET NO.  
**NC-3**  
MODEL  
**GRAND CAYMAN**  
DRAWING TITLE  
FOUNDATION  
OPTION DESCRIPTION  
7



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FOUNDATION HOLD DOWN DETAIL

# HOLD DOWN NOTES

REFER TO DETAIL (4/FD-I) FOR HOLD DOWN OFFSET DIMENSIONS  
 REFER TO DETAIL (12/FD-I) FOR HOLD DOWNS ON CHU BLOCK.

- ALL PANELS GREATER THAN 24" SHALL HAVE AN ANCHOR WITHIN 12" OF THE PANEL BREAKS / ENDS, (SEE DETAIL SHEET FC-I FOR MORE INFORMATION ON ANCHOR DETAILS)

- STRAP:
  - ON FOUNDATION USE (5THID4)
  - ON FLOOR SYSTEM USE (5THID4RJ)
- ALL OTHER HOLD DOWN SEE DETAIL WB-- FOR MORE INFORMATION.
- STRAP LOCATION ON PLANS SHOWN BY DASHED DIMENSION TO CENTER OF STUDS

## OR

- THREADED ROD
- ALL OTHER HOLD DOWN SEE DETAIL WB-- FOR MORE INFORMATION.
- BOLT LOCATION ON PLANS SHOWN BY SOLID DIMENSION TO CENTER OF BOLT

SHEET NO.	MODEL	SET NO. 6C400
NC-4	GRAND CAYMAN	VERSION 01
	DRAWING TITLE	RELEASE NO. ----
	FOUNDATION HOLD DOWN	DRAWN BY CEL
		DATE:
	OPTION DESCRIPTION	OPTION

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03/25/2025

**NORTH CAROLINA**  
**PROFESSIONAL**  
**SEAL**  
**44932**  
**ENGINEER**  
**JONATHAN EDWARD ABERTS**

NVR, INC.

DIV-COMM-LOT-UNIT		RLH-VK-0105	
COMM-LOT		KIPLING VILLAGE - 0105	
STREET ADDRESS		APT. NO.	
98 ARTESA COURT		----	
CITY	STATE	ZIP	
FUJAY VARINA	NC	27526	





**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 SFT.)
- 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 US OF ROOF
- SCREEN OR VENT CAP INSTALLED TO KEEP PESTS OUT OF RADON VENT AT ROOF TERMINATION.

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COMM-Lot			
KIPLING VILLAGE - 0105			
STREET ADDRESS		APT. NO.	
38 ARTESA COURT		----	
CITY	STATE	ZIP	
FUQUAY VARINA	NC	27156	

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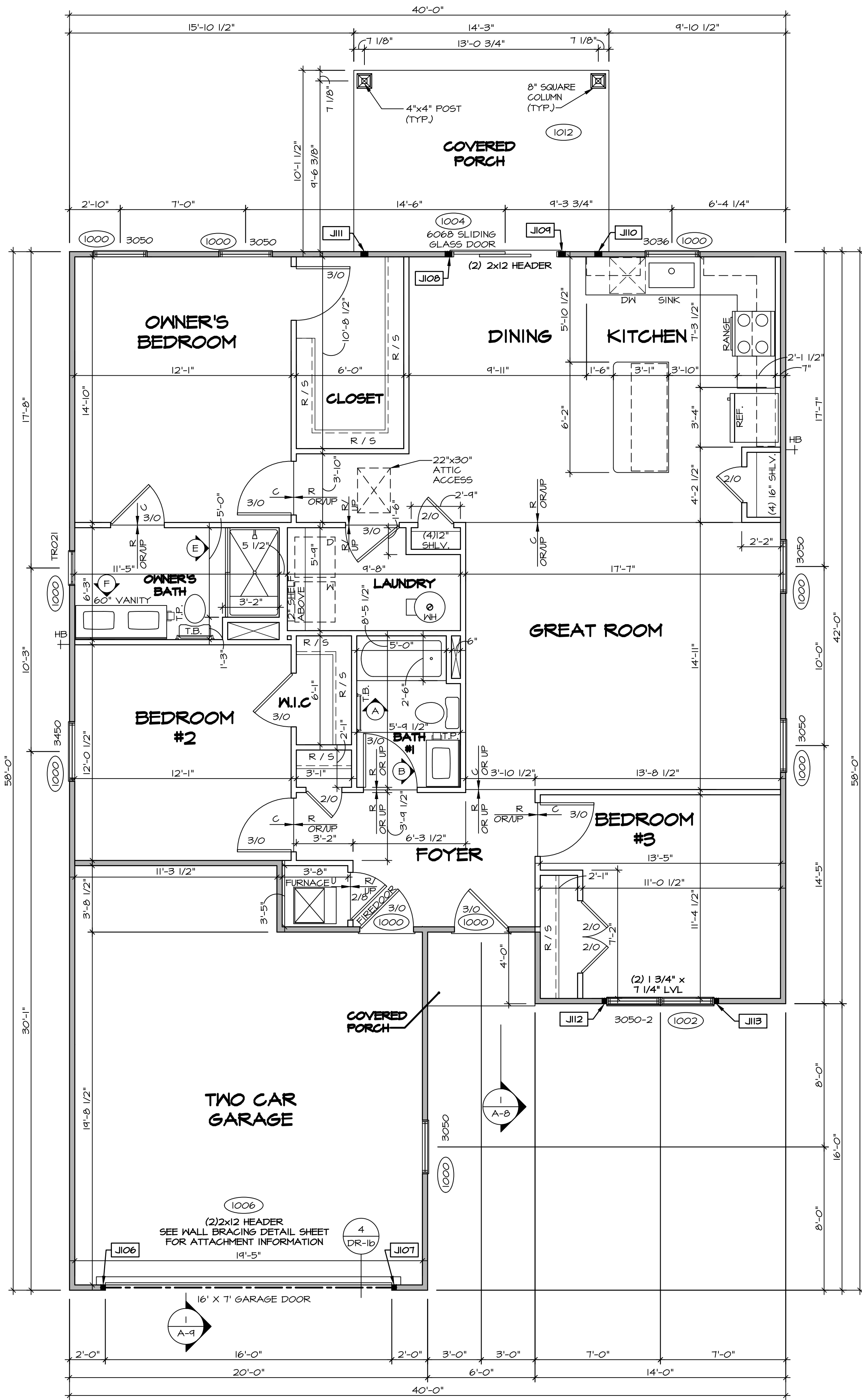
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5285 Westinghouse Suite 100  
Fremont, MD 20702  
James Bales  
03/25/2025

SHEET NO.	NC-5	MODEL	GRAND CAYMAN	SET NO. 60400
		DRAWING TITLE	FLUMING	VERSION 01
		OPTION DESCRIPTION		RELEASE NO. ----
				DRAWN BY HNP
				DATE: 02/20/20
				OPTION

V: As-Sold 2-Jobs MiTek Services Assigned RLH\_VK\_0105 9 NC-5 PLMG\_LS.dwg 03/25/25 - 5:53 pm



FIRST FLOOR JACK SCHEDULE			
IDENTIFIER	DESCRIPTION	ENS. NUM.	REMARKS
J106	JACK - (2) 2X4 SPF STUD GRADE	1006	
J107	JACK - (2) 2X4 SPF STUD GRADE	1006	
J108	JACK - (3) 2X4 SPF STUD GRADE	1004	
J109	JACK - (3) 2X4 SPF STUD GRADE	1004	
J110	JACK - (3) 2X4 SPF STUD GRADE	1012	
J111	JACK - (3) 2X4 SPF STUD GRADE	1012	
J112	JACK - (2) 2X4 SPF STUD GRADE	1002	
J113	JACK - (2) 2X4 SPF STUD GRADE	1002	



**FIRST FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

ALL WINDOWS HAVE T-O 1/2" HEADER  
HEIGHT UNLESS OTHERWISE NOTED

- 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. MULTI-OPENING HEADERS TO HAVE (2) JACKS AT INTERMEDIATE BEARING, UNLESS OTHERWISE NOTED. NO ADDITIONAL FLOOR SYSTEM BLOCKING OR CONTINUOUS LOAD PATH JACKS ARE REQUIRED UNLESS OTHERWISE NOTED.
  - ALL EXTERIOR WALLS TO BE 4" OR 6" AND 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 ARCHITECTURAL DETAIL 8/IT-1B FOR 3/4" FIRE STOPPING AT BULKHEAD / CEILING PANELS.
  - 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 DETAIL SHEET "AD" FOR HOUSE SPECIFIC INTERIOR TRIM OPTION TABLE.
  - ALL HEADERS IN NON-BEARING WALLS SHALL BE A SINGLE FLAT 2X4 OR 2X6 ATTACHED TO GRIFFLES ABOVE, UNLESS OTHERWISE NOTED.
  - TANKED WATER HEATER SHOWN AS BASE CONDITION, OPTIONAL TANKLESS WATER HEATER IS AVAILABLE IN LIEU OF TANKED WATER HEATER.
  - INTERIOR HEADER HEIGHT FOR 8' CEILING WILL BE 6'-11", 9' CEILING WILL BE 7'-11", 10' CEILING WILL BE 8'-3", UNLESS OTHERWISE NOTED.
  - ALL INTERIOR BEARING WALLS SHALL HAVE GYPSUM APPLIED TO AT LEAST ONE SIDE OR HAVE MID-HEIGHT BLOCKING INSTALLED.
  - NON-BEARING WALLS OVER CONCRETE TO BE HELD 1/2" SHORT OF FRAMING ABOVE.

- GYPSUM NOTES:**
- AT GARAGE:  
GYPSUM BOARD AT COMMON WALLS, CEILINGS, BEAM WRAPS AND SUPPORTS PER STANDARD DETAIL FA-1(b) FIRE ASSEMBLIES OR AS REQUIRED BY LOCAL CODE.
- AT STAIRS:  
1/2" GYPSUM BOARD AT UNDERSIDE OF STAIRS AND WALLS IN CLOSET

- LEGEND**
- BEARING WALL
  - NON BEARING WALL
  - MASONRY WALL
  - INDICATES BEARING FROM POINT-LOAD ABOVE
  - JACKS
  - BEAM/HEADER
  - FOOTING/THICKENED SLAB
  - STEEL COLUMN
  - TRUSS TIE DOWN
  - PORTAL FRAME
  - JOIST/TRUSS
  - LVL
  - ENGINEERING PAGE NUMBER
  - WINDOW/DOOR TAG
  - PRECAST LINTEL TAG
  - SEE FA DETAILS FOR FIRE ASSEMBLIES
  - SEE FC DETAILS FOR FRAMING CONNECTORS AND MATERIAL USAGE

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DIV-COMM-LOT-UNIT			
RLH-VK-0105			
COM-LOT	COM-LOT	APT. NO.	---
KIPLING VILLAGE - 0105		STREET ADDRESS	98 ARTESA COURT
CITY	FUQUAY VARIANA	STATE	NC
ZIP	27526		

03/25/2025

**NORTH CAROLINA PROFESSIONAL SEAL 44932**

ENGINEER

EDWARD MERTS

NVR, Inc. 5285 Westwood, Suite 100 Frederick, MD 21703

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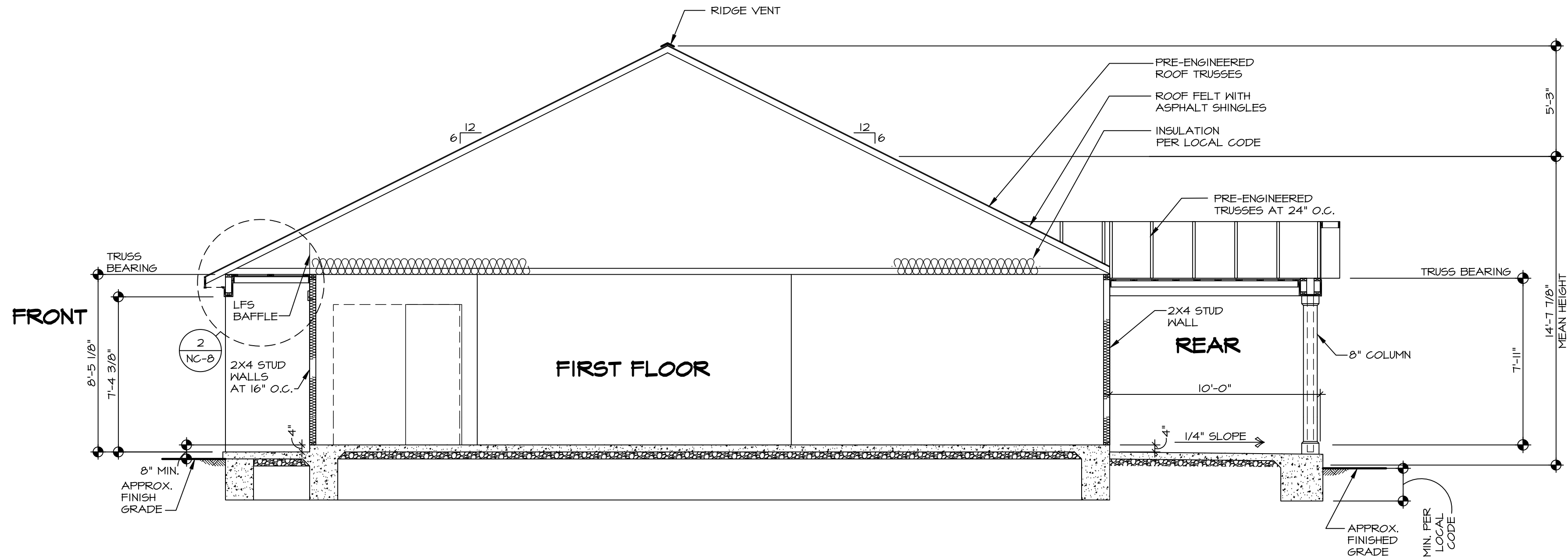
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NVR, Inc. 5285 Westwood, Suite 100 Frederick, MD 21703

SET NO. 60M00	VERSION 01	RELEASE NO. ----
DRAWN BY HNT	DATE: 02/21/20	OPTION

SHEET NO.	MODEL	GRAND CAYMAN
	DRAWING TITLE	FIRST FLOOR PLAN
NC-7	OPTION DESCRIPTION	

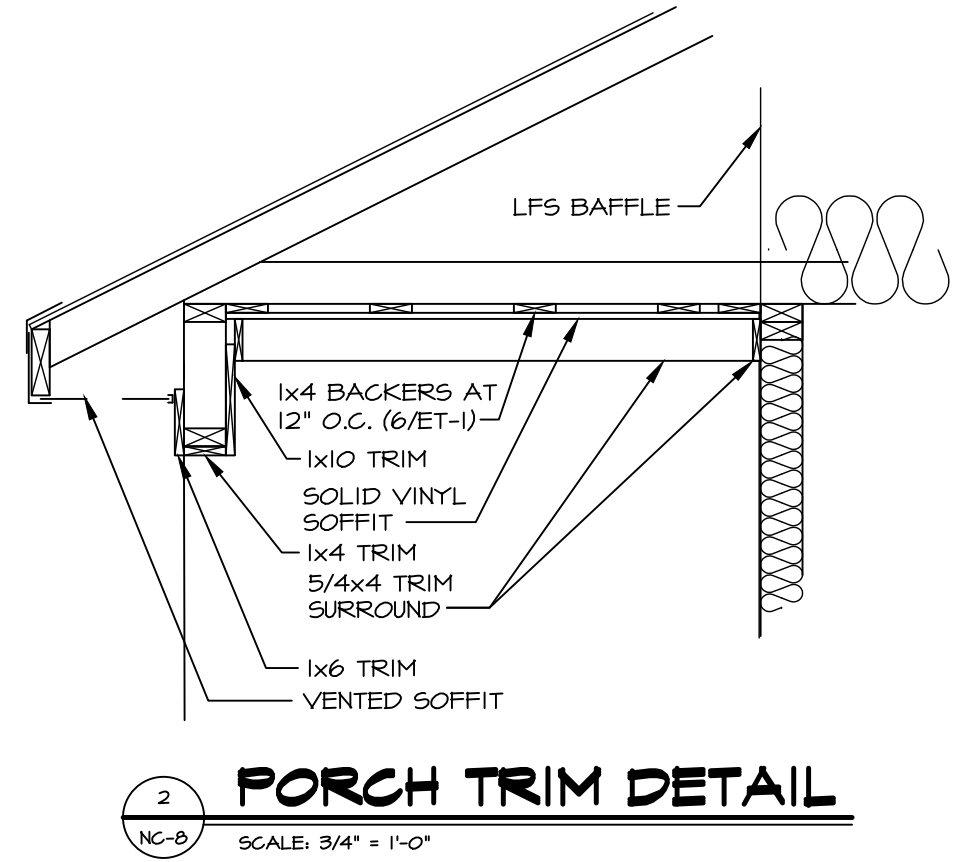




1  
NC-8

**BUILDING SECTION - FOYER**

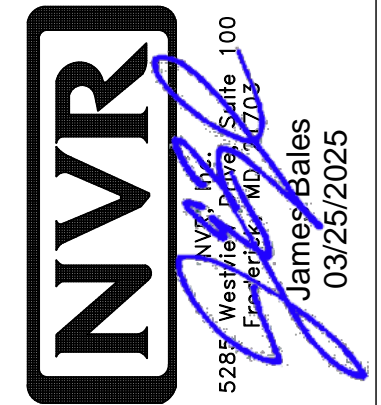
SCALE: 1/4" = 1'-0"



As directed by the North Carolina Board of Architecture and Registered Interior Designers, architectural seals are not required for – and should not be placed by NVR on – these plans and specifications.

DIV-COMM-LOT-UNIT		RLH-VK-0105	
COM-LOT		KIPFLING VILLAGE - 0105	
STREET ADDRESS		APT. NO.	----
98 ARTESA COURT		CITY	STATE
FUQUAY VARIANA	NC	ZIP	27526

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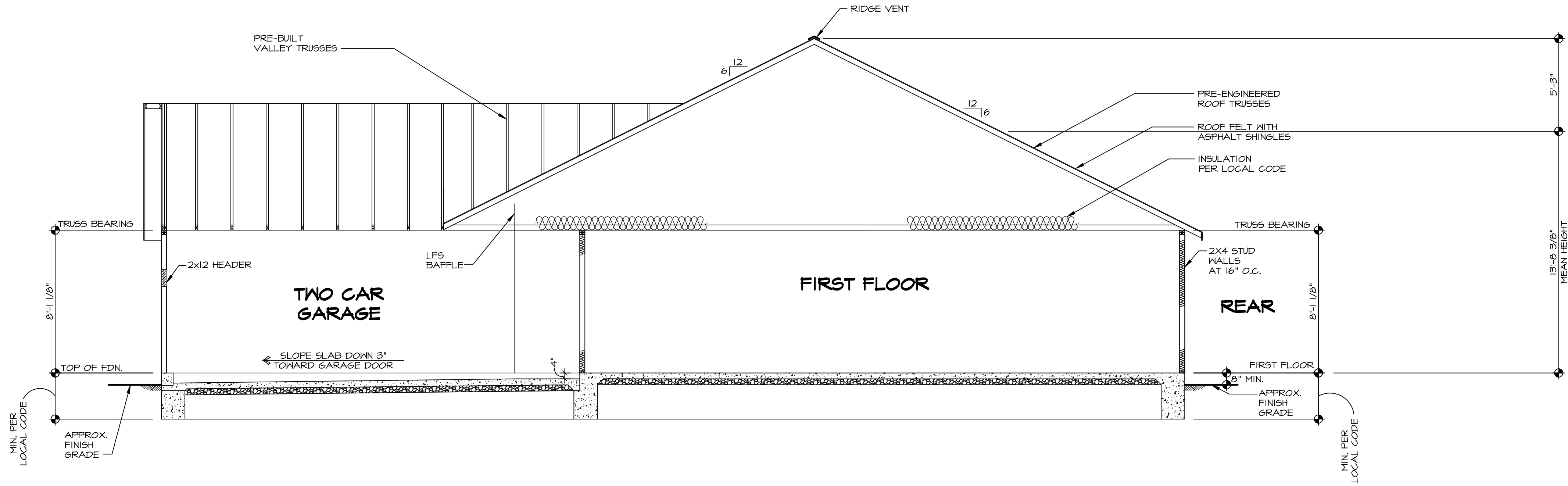
SET NO. 60M00	VERSION 01	RELEASE NO. ----
DRAWN BY HNP	DATE: 02/20/20	OPTION

MODEL	GRAND CAYMAN
DRAWING TITLE	BUILDING SECTION
OPTION DESCRIPTION	

SHEET NO. NC-8

12





**BUILDING SECTION - GARAGE**  
SCALE: 1/4" = 1'-0"

As directed by the North Carolina Board of Architecture and Registered Interior Designers, architectural seals are not required for – and should not be placed by NVR on – these plans and specifications.

DIV-COMM-LOT-UNIT <b>RLH-VK-0105</b>			
COM-LOT KIPFLING VILLAGE - 0105	APT. NO. ----	STATE NC	ZIP 27526
STREET ADDRESS 980 ARTESA COURT			
CITY FUGUAY VARIANA			

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SHEET NO. <b>NC-9</b>	MODEL <b>GRAND CAYMAN</b>	SET NO. 60000
	DRAWING TITLE BUILDING SECTION - GARAGE	VERSION 01
	OPTION DESCRIPTION	RELEASE NO. ----
13		DRAWN BY HNP
		DATE: 02/20/20
		OPTION

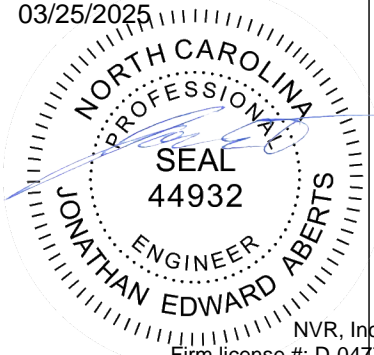




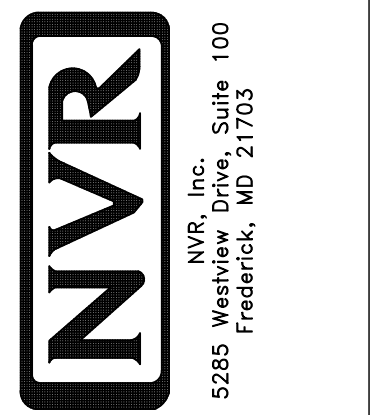


As directed by the North Carolina Board of Architecture and Registered Interior Designers, architectural seals are not required for – and should not be placed by NVR on – these plans and specifications.

DIV-COMM-LOT-UNIT			
RLH-VK-0105			
COMM-LOT		KIPLING VILLAGE - 0105	
STREET ADDRESS		98 ARTESA COURT	
CITY	STATE	ZIP	
FUQUAY VARIANA	NC	27526	



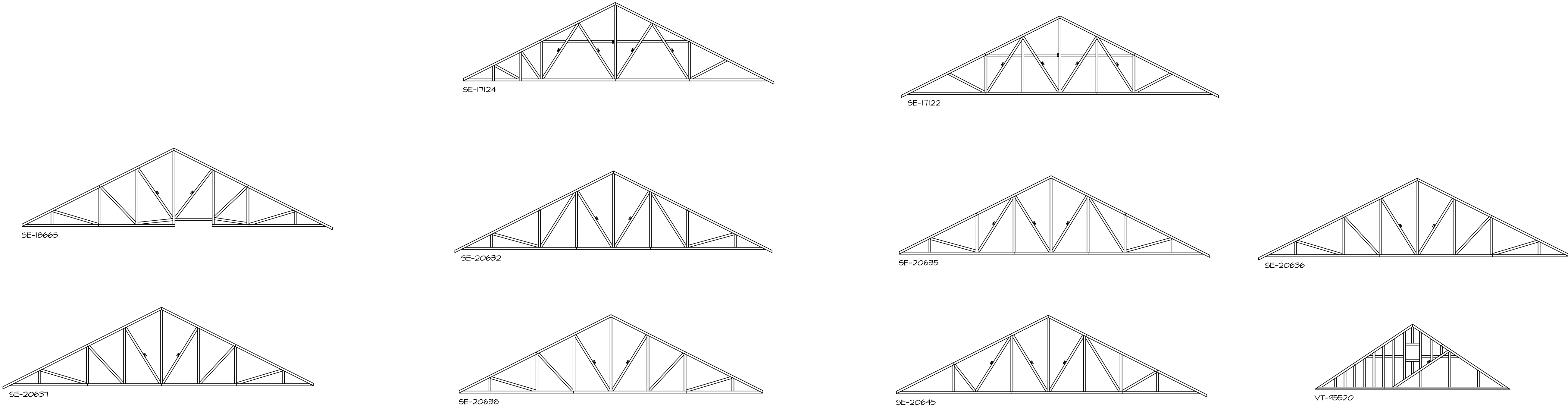
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SET NO. 60000
VERSION 01
RELEASE NO. ----
DRAWN BY BN
DATE: 2/02/20
OPTION

MODEL	GRAND CAYMAN
DRAWING TITLE	TRUSS BRACING DETAILS
OPTION DESCRIPTION	

SHEET NO.	S-4
	21



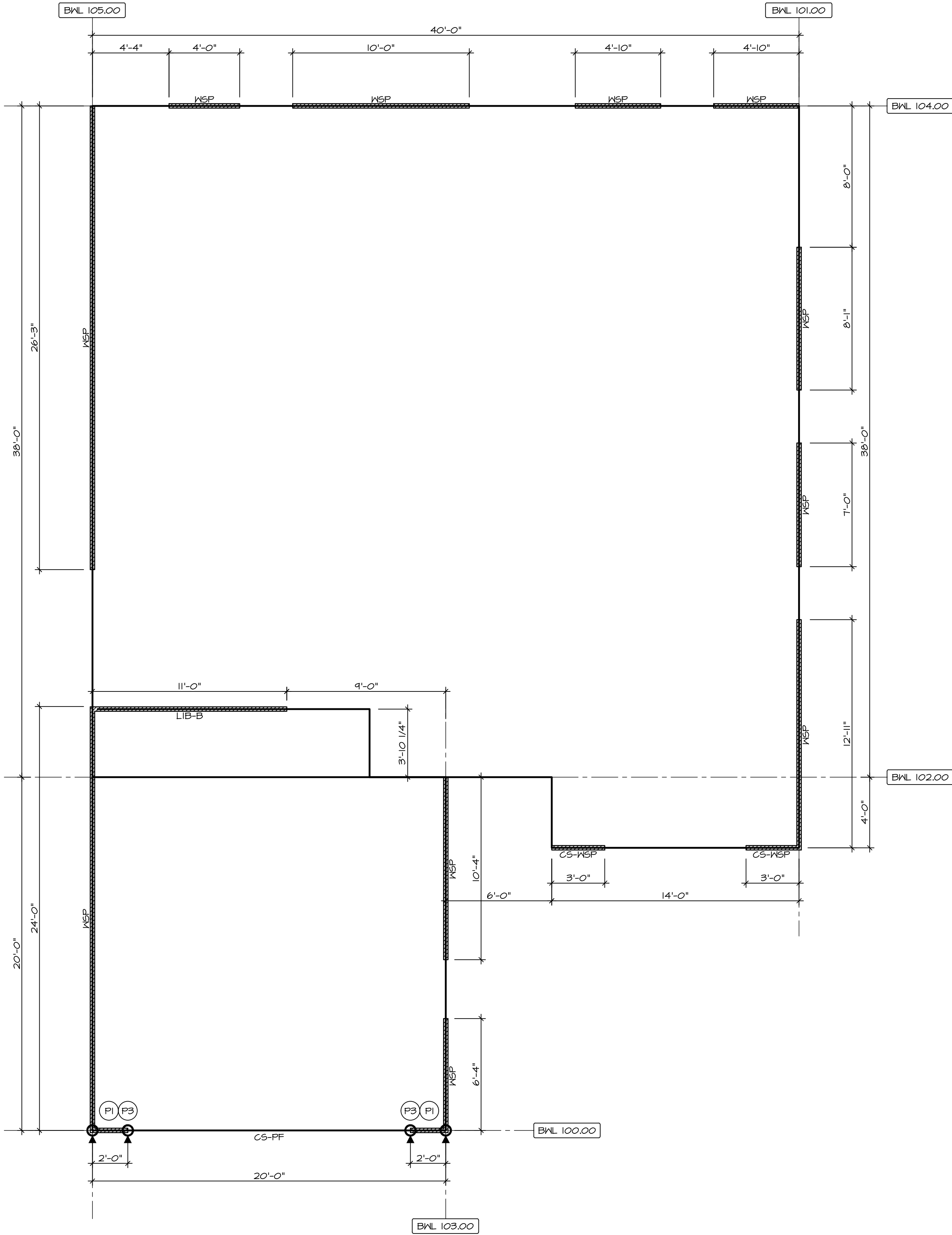
## TRUSS BRACING DETAILS

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

### TRUSS BRACING NOTES:

- IF TRUSS DOES NOT APPEAR ON THIS TRUSS BRACING SHEET, NO ADDITIONAL LATERAL BRACING IS REQUIRED.
- 2X4 SPT#2 LATERAL BRACES SHALL BE NAILED TO MINIMUM (3) TRUSS MEMBERS WITH MINIMUM (2) 10D NAILS. PROVISIONS MUST BE MADE AT ENDS OR SPECIFIED INTERVALS TO RESTRAIN OR ANCHOR LATERAL BRACING.
- WEB "T" BRACE, DETAIL 3/RF-1c, IS REQUIRED WHERE LATERAL BRACING IS NOT CONTINUOUS ACROSS THREE (3) OR MORE TRUSSES AND MAY BE USED IN LIEU OF 2X4 LATERAL BRACING.
- DIAGONAL BRACING REQUIRED WHEN LATERAL BRACING IS REQUIRED (4/RF-1c)
- STUDDED GABLE BRACING DETAIL (1/RF-1c) TO BE UTILIZED FOR TRUSSES 6'-4" IN HEIGHT OR GREATER.
- PARTIALLY SHEATHED GABLES, SEE (5/RF-1c) FOR "L" BRACING WHEN REQUIRED.
- LATERAL BRACING CAN BE APPLIED TO EITHER SIDE OF THE WEB MEMBER IDENTIFIED IN THE DRAWINGS.
- SHEATHING (OSB OR GYPSUM) REPLACES LATERAL AND DIAGONAL TRUSS BRACING.

BRACED WALL LINE SCHEDULE				
WIND SPEED (ULT)	IDENTIFIER	REQUIRED (FT)	ACTUAL (FT)	METHOD
130 MPH	BWL 100.00	5.25'	6.00'	CONTINUOUS (WITH GNB)
130 MPH	BWL 101.00	8.63'	21.44'	WSP (WITH GNB)
130 MPH	BWL 102.00	15.84'	17.00'	LIB
130 MPH	BWL 103.00	5.05'	16.66'	WSP (WITH GNB)
130 MPH	BWL 104.00	10.12'	23.66'	WSP (WITH GNB)
130 MPH	BWL 105.00	4.04'	50.25'	WSP (WITH GNB)



**FIRST FLOOR BRACED WALL**  
SCALE: 1/4" = 1'-0"

### BRACING LEGEND

BWL XXX.XX	BRACED WALL LINE I.D.
—	BRACED WALL LINE
—	HOUSE WALL
▨	BRACED WALL PANEL
WSP	WOOD STRUCTURAL PANEL
GB	GYPSUM BOARD (1) SIDED OR (2) SIDED
GB-BW	GYPSUM BOARD BLOCKED WALL CONSTRUCTION (1) SIDED OR (2) SIDED (SEE STANDARD DETAIL <b>GB-BW-2</b> )
LIB	LET-IN BRACING (SEE STANDARD DETAIL <b>F / WB-2</b> )
CS-WSP	CONTINUOUS SHEATHING - WOOD STRUCTURAL PANEL
CS-PF	CONTINUOUS SHEATHING - PORTAL FRAME, SEE FLOOR PLANS FOR PORTAL FRAME HEADER INFORMATION (SEE STANDARD DETAIL <b>A, C / WB-2</b> )
CS-G	CONTINUOUS SHEATHING - WOOD STRUCTURAL PANEL ADJACENT TO GARAGE OPENINGS
⊙	HOLD-DOWN 1. SEE SHEET <b>WB-2 "P."</b> INDICATOR SCHEDULE AND DETAILS 2. ARROW INDICATES LOCATION

**NOTES:**  
HOUSE HAS BEEN ANALYZED UTILIZING A PRESCRIPTIVE METHOD IN COMPLIANCE WITH INTERNATIONAL RESIDENTIAL CODES (IRC) UNLESS OTHERWISE NOTED.

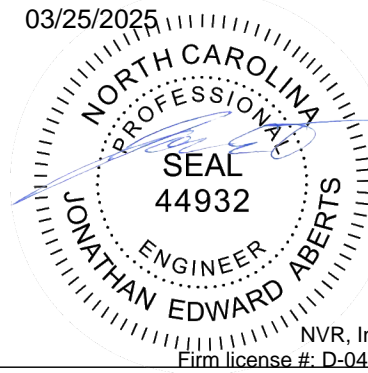
FASTENING SCHEDULE			
SHEATHING	FASTENER	SPACING	
		EDGES	FIELD
7/16" WOOD STRUCTURAL PANELS OR EQUIVALENT (W METHOD WSP, CS-WSP, CS-G)	8d COMMON NAILS  ALTERNATIVE FASTENER 1-3/4" 16-GAUGE CORROSION RESISTANT STAPLES	6" O.C.	6" O.C.
1/2" GYPSUM WALLBOARD (W METHOD GB-1, GB-2)	1-1/4" LONG, 1/4" HEAD, .048" DIA. ANNULAR-RINGED NAILS CORROSION RESISTANT TYPE W 1-1/4" DRYWALL SCREWS	7" O.C.	7" O.C.
1/2" GYPSUM WALLBOARD BLOCKED AT THE EDGES (W METHOD GB-BW-1, GB-BW-2, ENG-BW)	BLOCKING REQUIRED AT ALL GYPSUM EDGES. USED CORROSION RESISTANT TYPE W 1-1/4" DRYWALL SCREWS	4" O.C.	12" O.C.

**NOTES:**  
1. 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.  
4. WALL PANELS NOT IDENTIFIED AS BRACED WALL PANELS SHALL BE FASTENED IN ACCORDANCE WITH THE WSP METHOD.

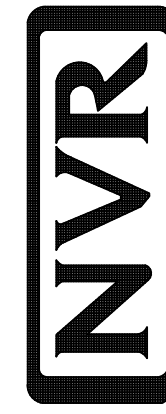
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DIV-COMM-LOT-UNIT  
**RLH-VK-0105**

COMM-LOT	APT. NO.	ZIP
KIPLING VILLAGE - 0105	----	27526
STREET ADDRESS	STATE	NC
98 ARTESA COURT		
CITY		
FUQUAY VARIANA		



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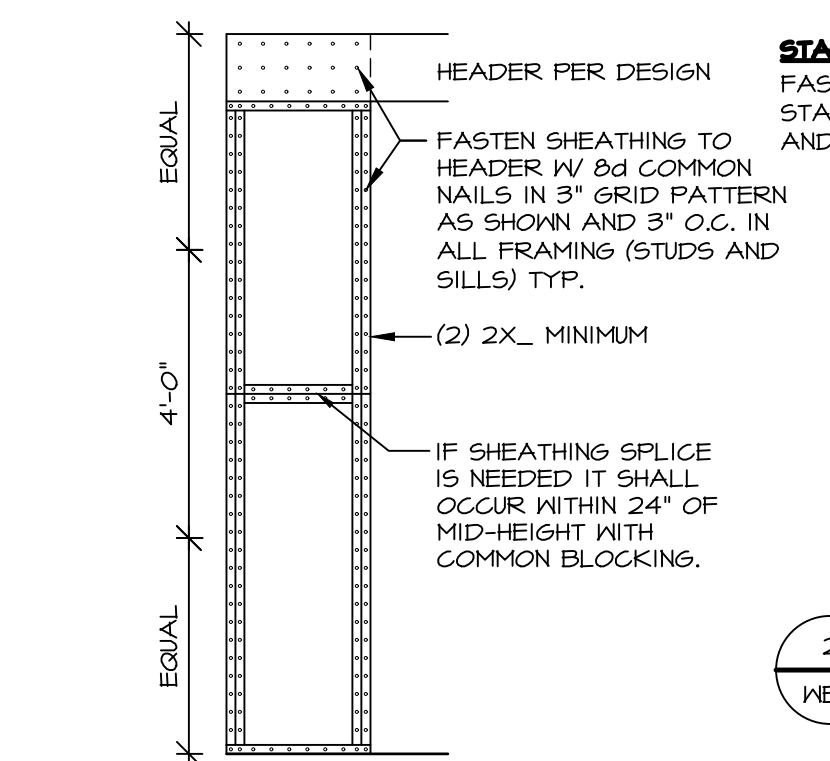
NVR, Inc., Suite 100  
5285 Westview, Suite 100  
Frederick, MD 21703

MODEL	SET NO. 60M00	VERSION 01	RELEASE NO. ----	DRAWN BY CEL	DATE:	OPTION
GRAND CAYMAN						
DRAWING TITLE						
WALL BRACING DETAILS						
OPTION DESCRIPTION						

SHEET NO.  
**S-5**

22





1  
WB-1  
SCALE 3/8" = 1'-0"

TP31 TIE PLATE AT INTERSECTION OF PANELS (WHERE APPLICABLE) PER ENGINEERED DESIGN

FASTEN SHEATHING CONTINUOUSLY ACROSS PANEL AND HEADER. FASTEN SHEATHING TO HEADER USING (4) ROWS OF 8d NAILS AT 3" O.C. (IN A 3" GRID PATTERN) AND TO ALL OTHER FRAMING MEMBERS AT 3" O.C. (TYP.)

FASTEN HEADER TO TOP PLATE WITH (2) ROWS OF 16d SINKERS AT 3" O.C. (TYP.)

1000 LB. LSTA24 HEADER STRAP TO JACK STUD, INSTALLED ON INTERIOR SIDE OF PANEL

MIN. (2) 2x4

3  
WB-1  
SCALE 3/8" = 1'-0"

ENGINEERED PORTAL: TYP. HEADER / PANEL CONNECTION

FASTEN SHEATHING TO TOP PLATE WITH (2) ROWS OF 16d SINKERS AT 3" O.C. (TYP.)

FASTEN HEADER TO TOP PLATE WITH (2) ROWS OF 16d SINKERS AT 3" O.C. (TYP.)

5  
WB-1  
SCALE 3/8" = 1'-0"

THROUGH-FLOOR CONNECTION

HTTS SIMPSON STRONG-TIE HOLD DOWN W/ 5/8" ALL-THREAD RODS & SIMPSON ACRYLIC-TIE ADHESIVE. MINIMUM EMBEDMENT - 7" POST-POURED - 12"

ALTERNATE: STDH4 EMBEDDED HOLDDOWN. FASTEN WITH (38) 16d SINKERS

2x10 LVL OR RIMBOARD BLOCKING

1-JOIST FLOOR SYSTEM OR 2x10 FLOOR SYSTEM

FOUNDATION WALL (CONCRETE OR BLOCK)

NOTE: SHEATHING NOT SHOWN FOR CLARITY

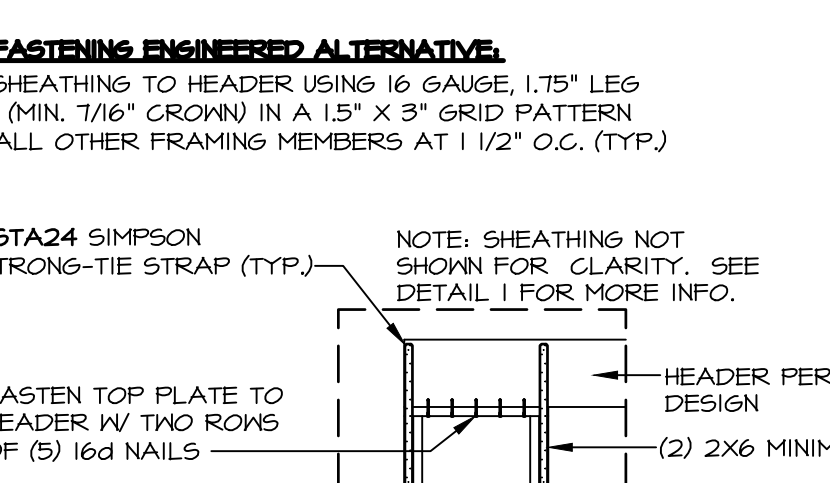
FASTEN BOTTOM PLATE TO FLOOR SYSTEM W/ TWO ROWS OF (5) 16d NAILS

INSTALL (2) MSTC66 SIMPSON STRONG-TIE STRAPS SPANNING BOTH FLOORS (INTERIOR FACE OF PORTALS ONLY)

(2) 2x4 STUDS MIN. (TYP.)

9  
WB-1  
SCALE 3/8" = 1'-0"

CONNECTING PORTALS BETWEEN FLOORS



2  
WB-1  
SCALE 3/8" = 1'-0"

STACKED ENGINEERED PORTAL: HEADER / PANEL CONNECTION

STRAP NOT REQUIRED TO ATTACH TO THE TOP PLATES

FIELD FASTEN LOOSE SHIPPED SHEATHING CONTINUOUSLY ACROSS PANELS AND HEADER. FASTEN SHEATHING TO HEADER USING (4) ROWS OF 8d NAILS AT 3" O.C. (IN A 3" GRID PATTERN) AND TO ALL OTHER FRAMING MEMBERS AT 3" O.C. (TYP.)

FASTEN HEADER TO TOP PLATE WITH (2) ROWS OF 16d SINKERS AT 3" O.C. (TYP.)

SIMPSON MST40 HEADER STRAP TO JACK STUD, INSTALLED ON INTERIOR SIDE OF PANEL. STRAP OVERLAP JACKS BY 12" MINIMUM

12'-0" MAX. HEIGHT

4  
WB-1  
SCALE 3/8" = 1'-0"

ENGINEERED PORTAL WITH PONY WALL

HTTS SIMPSON STRONG-TIE HOLD DOWN W/ 5/8" ALL-THREAD RODS & SIMPSON ACRYLIC-TIE ADHESIVE. MINIMUM EMBEDMENT - 7" POST-POURED - 12"

ALTERNATE: STDH4 EMBEDDED HOLDDOWN. FASTEN WITH (38) 16d SINKERS

FOUNDATION (CONCRETE OR BLOCK) OR FRAMED WALL (NOT SHOWN) BELOW

NOTE: TITEN HD ANCHOR MAY BE USED AS A DIRECT SUBSTITUTION FOR THE 5/8" DIA. ALL-THREAD ROD. THE MIN. SIZE AND LENGTH IS 5/8" DIA. BY 8" LONG OR 1/2" DIA. BY 12" LONG

HTTS SIMPSON STRONG-TIE HOLD DOWN W/ 5/8" ALL-THREAD RODS & SIMPSON ACRYLIC-TIE ADHESIVE. MINIMUM EMBEDMENT - 7" POST-POURED - 12"

ALTERNATE: STDH4 EMBEDDED HOLDDOWN. FASTEN WITH (38) 16d SINKERS

FOUNDATION (CONCRETE OR BLOCK) OR FRAMED WALL (NOT SHOWN) BELOW

NOTE: SHEATHING NOT SHOWN FOR CLARITY

FASTEN BOTTOM PLATE TO FLOOR SYSTEM W/ TWO ROWS OF (5) 16d NAILS

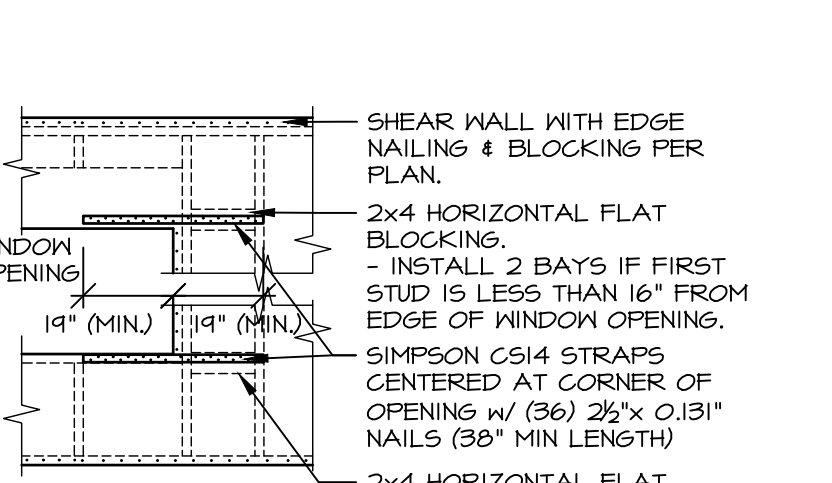
INSTALL (2) MSTC66 SIMPSON STRONG-TIE STRAPS SPANNING BOTH FLOORS (INTERIOR FACE OF PORTALS ONLY)

(2) 2x4 STUDS MIN. (TYP.)

10  
WB-1  
SCALE 3/8" = 1'-0"

STACKED PORTAL: MIDDLE CONNECTION

FASTEN TOP PLATE TO FLOOR SYSTEM W/ TWO ROWS OF (5) 16d NAILS



20  
WB-1  
SCALE 3/8" = 1'-0"

SHEARWALL OPENING ELEVATION

REQUIRED ONLY @ OPENINGS AS SPECIFIED ON PLAN. STRAPS TO BE INSTALLED ON EXTERIOR FACE OF SHWS. UNLESS OTHERWISE NOTED 1 MAY BE MOVED 1/2" FROM EDGE TO ALLOW FOR WINDOW NAILING

WHERE STRAP DETAIL IS SPECIFIED AT DOOR OPENINGS, STRAPPING IS ONLY REQUIRED AT THE TOP OF THE OPENING

2x4 HORIZONTAL FLAT BLOCKING. - INSTALL 2 BAYS IF FIRST STUD IS LESS THAN 16" FROM EDGE OF WINDOW OPENING.

SIMPSON CS14 STRAPS CENTERED AT CORNER OF OPENING W/ (36) 25"x 0.131" NAILS (38" MIN LENGTH)

2x4 HORIZONTAL FLAT BLOCKING. - INSTALL 2 BAYS IF FIRST STUD IS LESS THAN 16" FROM EDGE OF WINDOW OPENING.

NOTE: THROUGH-FLOOR AND ALTERNATE THROUGH FLOOR CONNECTIONS TO BE USED AS SPECIFIED BY DESIGN. DESIGNS ARE NOT INTERCHANGEABLE.

UPPER FLOOR BRACED WALL PANEL

FLOOR FRAMING

LOWER FLOOR BRACED WALL PANEL

WALL LENGTH VARIES PER HOUSE DESIGN

1000 LB. STRAP (LSTA36) TO JACK STUD, EACH END OF WALL LINE, INSTALLED ON EXTERIOR SIDE OF PANEL

2x4 TOP PLATES

11  
WB-1  
SCALE 3/8" = 1'-0"

ALT. THROUGH-FLOOR CONNECTION

HTTS SIMPSON STRONG-TIE HOLD DOWN W/ 5/8" ALL-THREAD RODS & SIMPSON ACRYLIC-TIE ADHESIVE. MINIMUM EMBEDMENT - 7" POST-POURED - 12"

ALTERNATE: STDH4 EMBEDDED HOLDDOWN. FASTEN WITH (38) 16d SINKERS

FOUNDATION (CONCRETE OR BLOCK) OR FRAMED WALL (NOT SHOWN) BELOW

NOTE: TITEN HD ANCHOR MAY BE USED AS A DIRECT SUBSTITUTION FOR THE 5/8" DIA. ALL-THREAD ROD. THE MIN. SIZE AND LENGTH IS 5/8" DIA. BY 8" LONG OR 1/2" DIA. BY 12" LONG

HTTS SIMPSON STRONG-TIE HOLD DOWN W/ 5/8" ALL-THREAD RODS & SIMPSON ACRYLIC-TIE ADHESIVE. MINIMUM EMBEDMENT - 7" POST-POURED - 12"

ALTERNATE: STDH4 EMBEDDED HOLDDOWN. FASTEN WITH (38) 16d SINKERS

FOUNDATION (CONCRETE OR BLOCK) OR FRAMED WALL (NOT SHOWN) BELOW



19  
WB-1  
SCALE 3/8" = 1'-0"

FRAMED FLOOR CONNECTION

1/2" FILLER

MGT SIMPSON STRONG-TIE GIRDER TIEDOWN

HTTS SIMPSON STRONG-TIE HOLD DOWN W/ 5/8" ALL-THREAD ROD

FOUNDATION (CONCRETE OR BLOCK) BELOW

15  
WB-1  
SCALE 3/8" = 1'-0"

UPLIFT AT LVL CONNECTION

HTTS SIMPSON STRONG-TIE HOLD DOWN W/ 5/8" ALL-THREAD RODS & SIMPSON ACRYLIC-TIE ADHESIVE. MINIMUM EMBEDMENT - 7" POST-POURED - 12"

ALTERNATE: STDH4 EMBEDDED HOLDDOWN. FASTEN WITH (38) 16d SINKERS

FOUNDATION (CONCRETE OR BLOCK) OR FRAMED WALL (NOT SHOWN) BELOW

NOTE: TITEN HD ANCHOR MAY BE USED AS A DIRECT SUBSTITUTION FOR THE 5/8" DIA. ALL-THREAD ROD. THE MIN. SIZE AND LENGTH IS 5/8" DIA. BY 8" LONG OR 1/2" DIA. BY 12" LONG

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ALTERNATE: STDH4 EMBEDDED HOLDDOWN. FASTEN WITH (38) 16d SINKERS

FOUNDATION (CONCRETE OR BLOCK) OR FRAMED WALL (NOT SHOWN) BELOW

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ALTERNATE: STDH4 EMBEDDED HOLDDOWN. FASTEN WITH (38) 16d SINKERS

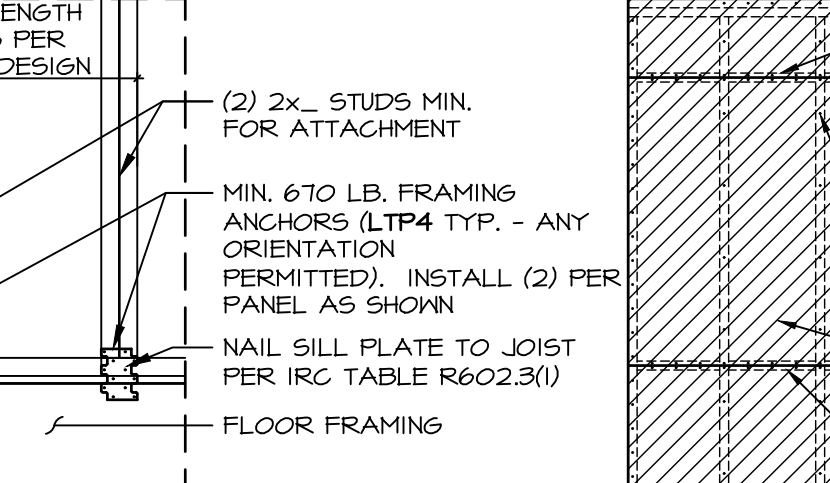
FOUNDATION (CONCRETE OR BLOCK) OR FRAMED WALL (NOT SHOWN) BELOW

NOTE: TITEN HD ANCHOR MAY BE USED AS A DIRECT SUBSTITUTION FOR THE 5/8" DIA. ALL-THREAD ROD. THE MIN. SIZE AND LENGTH IS 5/8" DIA. BY 8" LONG OR 1/2" DIA. BY 12" LONG

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ALTERNATE: STDH4 EMBEDDED HOLDDOWN. FASTEN WITH (38) 16d SINKERS

FOUNDATION (CONCRETE OR BLOCK) OR FRAMED WALL (NOT SHOWN) BELOW



17  
WB-1  
NOT TO SCALE

BLOCKED WALL CONSTRUCTION

2x4 STUDS MIN. (TYP.)

NOTE: SHEATHING NOT SHOWN FOR CLARITY

(2) MSTC40 SIMPSON STRONG-TIE STRAPS TYPICAL BOTH SIDES OF PORTAL FRAME (INSTALLED OVER EXTERIOR SHEATHING)

FASTEN BOTTOM PLATE TO FLOOR SYSTEM W/ TWO ROWS OF (5) 16d NAILS

LVL BEAM (FLUSH) PER HOUSE ENGINEERING

14  
WB-1  
SCALE 3/8" = 1'-0"

FLUSH LVL BEAM CONNECTION

HTTS SIMPSON STRONG-TIE HOLD DOWN W/ 5/8" ALL-THREAD RODS & SIMPSON ACRYLIC-TIE ADHESIVE. MINIMUM EMBEDMENT - 7" POST-POURED - 12"

ALTERNATE: STDH4 EMBEDDED HOLDDOWN. FASTEN WITH (38) 16d SINKERS

FOUNDATION (CONCRETE OR BLOCK) OR FRAMED WALL (NOT SHOWN) BELOW

NOTE: TITEN HD ANCHOR MAY BE USED AS A DIRECT SUBSTITUTION FOR THE 5/8" DIA. ALL-THREAD ROD. THE MIN. SIZE AND LENGTH IS 5/8" DIA. BY 8" LONG OR 1/2" DIA. BY 12" LONG

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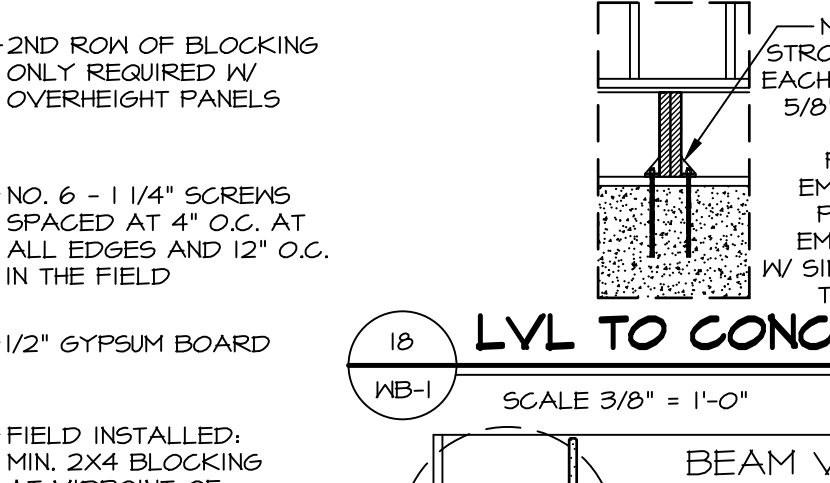
ALTERNATE: STDH4 EMBEDDED HOLDDOWN. FASTEN WITH (38) 16d SINKERS

FOUNDATION (CONCRETE OR BLOCK) OR FRAMED WALL (NOT SHOWN) BELOW

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ALTERNATE: STDH4 EMBEDDED HOLDDOWN. FASTEN WITH (38) 16d SINKERS



16  
WB-1  
SCALE 3/8" = 1'-0"

LVL TO CONCRETE WALL CONNECTION

BEAM VARIES BY DESIGN

IF SHEATHING SPLICE IS NEEDED IT SHALL OCCUR WITHIN 24" OF MID-HEIGHT WITH COMMON BLOCKING.

IF SHEATHING SPLICE IS NEEDED IT SHALL OCCUR WITHIN 24" OF MID-HEIGHT WITH COMMON BLOCKING.

HOLD-DOWNS AT BOTTOM OF STACK IDENTIFIED ON PLANS AS H1 OR H6 (TOP CONNECTOR = "NONE"). REMAINING HOLD-DOWNS CALLED OUT ON FLOOR ABOVE.

12  
WB-1  
NOT TO SCALE

ENGINEERED STACKED PORTAL

FLOOR FRAMING, CONCRETE, OR BLOCK

HTTS SIMPSON STRONG-TIE HOLD DOWN W/ 5/8" ALL-THREAD RODS & SIMPSON ACRYLIC-TIE ADHESIVE. MINIMUM EMBEDMENT - 7" POST-POURED - 12"

ALTERNATE: STDH4 EMBEDDED HOLDDOWN. FASTEN WITH (38) 16d SINKERS

FOUNDATION (CONCRETE OR BLOCK) OR FRAMED WALL (NOT SHOWN) BELOW

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ALTERNATE: STDH4 EMBEDDED HOLDDOWN. FASTEN WITH (38) 16d SINKERS

FOUNDATION (CONCRETE OR BLOCK) OR FRAMED WALL (NOT SHOWN) BELOW

NOTE: TITEN HD ANCHOR MAY BE USED AS A DIRECT SUBSTITUTION FOR THE 5/8" DIA. ALL-THREAD ROD. THE MIN. SIZE AND LENGTH IS 5/8" DIA. BY 8" LONG OR 1/2" DIA. BY 12" LONG

HTTS SIMPSON STRONG-TIE HOLD DOWN W/ 5/8" ALL-THREAD RODS & SIMPSON ACRYLIC-TIE ADHESIVE. MINIMUM EMBEDMENT - 7" POST-POURED - 12"

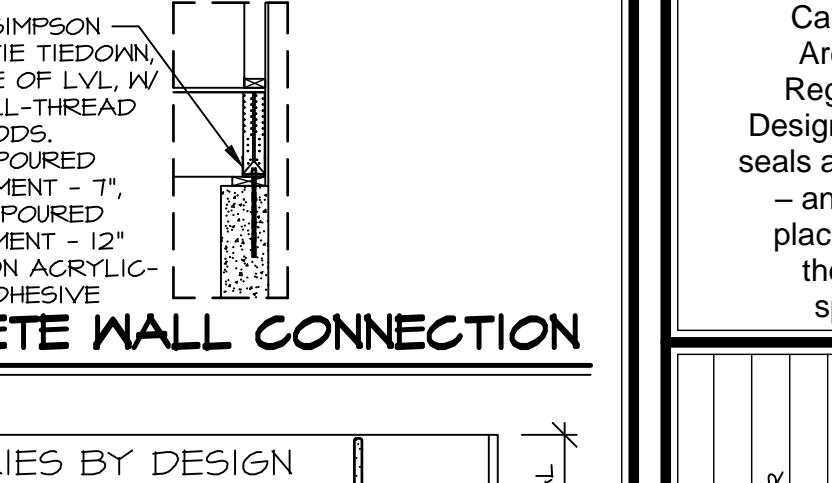
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18  
WB-1  
SCALE 3/8" = 1'-0"

LVL TO CONCRETE WALL CONNECTION

BEAM VARIES BY DESIGN

IF SHEATHING SPLICE IS NEEDED IT SHALL OCCUR WITHIN 24" OF MID-HEIGHT WITH COMMON BLOCKING.

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HOLD-DOWNS AT BOTTOM OF STACK IDENTIFIED ON PLANS AS H1 OR H6 (TOP CONNECTOR = "NONE"). REMAINING HOLD-DOWNS CALLED OUT ON FLOOR ABOVE.

12  
WB-1  
NOT TO SCALE

ENGINEERED STACKED PORTAL

FLOOR FRAMING, CONCRETE, OR BLOCK

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ID	BOTTOM CONNECTOR	QTY.	DETAIL	TOP CONNECTOR	QTY.	DETAIL	ID	BOTTOM CONNECTOR	QTY.	DETAIL	TOP CONNECTOR	QTY.	DETAIL
H1	HTT5	1	6 WB-1	NONE	N/A	N/A	H21	MSTC52	1	10 WB-1	LSTA24	1	2 WB-1
H2	HTT5	1	6 WB-1	LSTA24	1	2 WB-1	H22	MSTC52	1	10 WB-1	LSTA24	1	3 WB-1
H3	HTT5	1	6 WB-1	LSTA24	1	3 WB-1	H23	MSTC52	1	10 WB-1	MST40	1	4 WB-1
H4	HTT5	1	6 WB-1	MST40	1	4 WB-1	H24	MSTC40	1	10 WB-1	LSTA24	1	2 WB-1
H5	HTT5	1	6 WB-1	MSTC40	1	5 WB-1	H25	MSTC40	1	10 WB-1	LSTA24	1	3 WB-1
H6	HTT5 5/8" A24 THR. ROD CNK5/8 COUPLER	1	7 WB-1	NONE	N/A	N/A	H26	MSTC40	1	10 WB-1	MST40	1	4 WB-1
H7	HTT5 5/8" A24 THR. ROD CNK5/8 COUPLER	1	7 WB-1	LSTA24	1	2 WB-1	H27	LSTA36	1	11 WB-1	NONE	N/A	N/A
H8	HTT5 5/8" A24 THR. ROD CNK5/8 COUPLER	1	7 WB-1	LSTA24	1	3 WB-1	H28	MSTC40	1	14 WB-1	NONE	N/A	N/A
H9	HTT5 5/8" A24 THR. ROD CNK5/8 COUPLER	1	7 WB-1	MST40	1	4 WB-1	H29	MSTC40	1	14 WB-1	LSTA24	1	3 WB-1
H10	HTT5 5/8" A24 THR. ROD CNK5/8 COUPLER	1	7 WB-1	MSTC40	1	5 WB-1	H30	HTT5	2	16 WB-1	MGT HTT5 5/8" A24 THR. ROD	2 2 2	15 WB-1
H11	HTT5 5/8" A24 THR. ROD	1	8 WB-1	NONE	N/A	N/A	H31	MSTC40	1	5 WB-1	NONE	N/A	N/A
H12	HTT5 5/8" A24 THR. ROD	1	8 WB-1	LSTA24	1	2 WB-1	H32	MSTC40	1	5 WB-1	LSTA24	1	3 WB-1
H13	HTT5 5/8" A24 THR. ROD	1	8 WB-1	LSTA24	1	3 WB-1	H33	NONE	N/A	N/A	MST	2	10 WB-1
H14	HTT5 5/8" A24 THR. ROD	1	8 WB-1	LSTA24	1	4 WB-1	H34	LTP4	1	19 WB-1	NONE	N/A	N/A
H15	HTT5 5/8" A24 THR. ROD	1	8 WB-1	MSTC40	1	5 WB-1	H35	LTP4	1	19 WB-1	LSTA24	1	3 WB-1
H16	MSTC66	1	9 WB-1	NONE	N/A	N/A	H36	MSTC52	1	5 WB-1	NONE	N/A	N/A
H17	MSTC66	1	9 WB-1	LSTA24	1	2 WB-1	H37	CS14	1	20 WB-1	CS14	1	20 WB-1
H18	MSTC66	1	9 WB-1	LSTA24	1	3 WB-1	H38	NONE	N/A	N/A	CS14	1	20 WB-1
H19	MSTC66	1	9 WB-1	MST40	1	4 WB-1	H39	MSTC28 HTS20	1	21 WB-1	NONE	N/A	N/A
H20	MSTC52	1	10 WB-1	NONE	N/A	N/A	H40	MSTC66	1	22 WB-1	NONE	N/A	N/A



