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KIPLING VILLAGE - LOT 107 - 27 ARTESA COURT  
0652-37-7350.000  
RYAN HOMES

EDEN CAY

DIV--COMM--LOT--UNIT

RLH-VK-0107

COMM--LOT

KIPLING VILLAGE - 0107

STREET ADDRESS

27 ARTESA COURT

APT. NO.

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CITY

FUQUAY VARINA

STATE

NC

ZIP

27526

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KIPLING VILLAGE - LOT 107 - 27 ARTESA COURT  
0652-37-7350.000  
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STRUCTURAL DESIGN CRITERIA
<div><div>• ALL LOCAL AND STATE CODES</div><div>• ROOF LIVE LOAD20 psf</div><div>• ULTIMATE WIND SPEED130 mph</div><div>• WIND EXPOSURE CATEGORYB</div><div>• SEISMIC DESIGN CATEGORYA / B</div></div>



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

James Sales  
05/27/2025

FIRST FLOOR SQUARE FOOTAGE

DESCRIPTION	TOTAL SQ. FT.
1ST FLOOR SLAB FOUNDATION (BASE SF)	1696 SF
	1696 SF

GARAGE SQUARE FOOTAGE

DESCRIPTION	TOTAL SQ. FT.
TWO CAR GARAGE SLAB FOUNDATION	441 SF
	441 SF

UNFINISHED SQUARE FOOTAGE

DESCRIPTION	TOTAL SQ. FT.
REAR COVERED PORCH	144 SF
FRONT COVERED PORCH	24 SF
	168 SF

TOTAL FINISHED SQUARE FOOTAGE

DESCRIPTION	TOTAL SQ. FT.
1ST FLOOR SLAB FOUNDATION (BASE SF)	1696 SF
	1696 SF

SET NO. -- VERSION

5EDCOO - 01

SHEET NO.

CS-1

PAGE NO.

1

RELEASE NO. ----

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GENERAL

- 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.
- These plans are subjected to modification as necessary to meet code requirements or to facilitate mechanical/plumbing installations or to incorporate design improvements.
- These plans are not to be scaled for construction purposes. Dimension lines and notes supersede all scale references.
- Single Family Attached/Detached - Automatic residential fire sprinkler systems shall be installed in accordance with NCRBC F2404 or NFPA 13D 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 301.13.

CODE ANALYSIS

- This note sheet only covers major code requirements. The plans are intended to conform to all current applicable codes including, but not limited to:  
NCRG 2018, NCMC 2018, NCPG 2018, NCFGC 2018, NEC 2020 w/ NC Amendments, NCEC 2018, NCCFC 2018
- Constr. Type: V-B
- Max Stories: 3

ENERGY AND MECHANICAL

- Insulation requirements per 2018 NCRG 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. Use 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	GRAVEL SPACE WALL R-VALUE
3	0.35	0.30	38	15 / 19	19	5 / 15	NA	5 / 15
4	0.35	0.30	38	15 / 19	19	10 / 15	10	10 / 15

- 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.
- 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
- 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	- 30# P.S.F. (Live)						
Trusses	- Areas up to 130 mph ultimate wind speed per Table R301.2(4) - Exposure category 'B'						
Walls	- Areas up to 130 mph ultimate wind speed per Table R301.2(4) <table><tr><td>Vult</td><td>115 mph</td><td>130 mph</td></tr><tr><td>Vasd</td><td>84 mph</td><td>101 mph</td></tr></table> Note: Linear interpolation between contour lines permitted.	Vult	115 mph	130 mph	Vasd	84 mph	101 mph
Vult	115 mph	130 mph					
Vasd	84 mph	101 mph					
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-19), No. 1 Grade

Slids Spruce-Pine-Fir, Stud Grade

Jacks Spruce-Pine-Fir, Stud Grade

Beams\*\* Southern Pine (KD-19), No. 1 Grade

Joists 2x10 Hem-Fir (KD-19), No. 2 Grade or better (NCLIB & NWPA)  
2x8 Southern Pine (KD-19), No. 1 Grade or better  
2x10 Spruce-Pine-Fir (KD-19), No. 2 Grade or better (NL6A)

LVL 1.9E Minimum

- Where required, Laminated Veneer Lumber may be used per Engineering
- Structural Steel - A5.1M, A58

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 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.
- 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 R403.1.4 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 XL4x1/4 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 not be 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 MASA / USP FA3 (16 gauge steel, galvanized) or equivalent set in concrete or grouted cell, 11"-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. (1) 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 (914mm) 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 to the sheathing 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.

20. Block foundation walls may be substituted for poured foundation walls shown on foundation plans provided all requirements 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

WALL HEIGHT	WALL THICKNESS	LATERAL SOIL UNBALANCED LOAD (a)	FILL	VERTICAL REINFORCING (b)	HORIZONTAL REINFORCING (c)
8'-0"	45	6'-0"	NOT REQUIRED	2- #4 BARS (f)	
			7'-0"	NOT REQUIRED (d)	3- #4 BARS (de)
			6'-0"	NOT REQUIRED (d)	3- #4 BARS (de)
	60	7'-0"	#4 @ 22" O.C. (d)	3- #4 BARS (de)	
			6'-0"	NOT REQUIRED	2- #4 BARS (f)
			7'-0"	NOT REQUIRED	2- #4 BARS (f)
10'	45	6'-0"	NOT REQUIRED	2- #4 BARS (f)	
			7'-0"	NOT REQUIRED	2- #4 BARS (f)
			6'-0"	NOT REQUIRED	2- #4 BARS (f)
	60	7'-0"	NOT REQUIRED	2- #4 BARS (f)	
			6'-0"	NOT REQUIRED	2- #4 BARS (f)
			7'-0"	NOT REQUIRED	2- #4 BARS (f)
8'-0"	45	6'-0"	NOT REQUIRED	4- #4 BARS (de)	
			7'-0"	#4 @ 19" O.C. (d)	4- #4 BARS (de)
			7'-0"	#4 @ 19" O.C. (d)	4- #4 BARS (de)
	60	6'-0"	#4 @ 15" O.C. (d)	4- #4 BARS (de)	
			7'-0"	NOT REQUIRED	3- #4 BARS (g)
			7'-0"	NOT REQUIRED (d)	4- #4 BARS (de)
9'-0"	45	6'-0"	NOT REQUIRED	4- #4 BARS (de)	
			7'-0"	NOT REQUIRED (d)	4- #4 BARS (de)
			7'-0"	NOT REQUIRED (d)	4- #4 BARS (de)
	60	6'-0"	#4 @ 19" O.C. (d)	4- #4 BARS (de)	
			7'-0"	NOT REQUIRED	3- #4 BARS (g)
			7'-0"	NOT REQUIRED (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 CLASSSES GM, GC, SM, SM-SG AND ML - 45 PSF  
SOIL CLASSSES SC, MH, ML-CL AND CL - 60 PSF
- SPACINGS SHOWN IS BASED UPON Fy = 60,000 PSI  
STEEL FOR Fy = 40,000 PSI STEEL, REDUCE SPACINGS 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 404.1.2(1).

PLANS

- Habitable attics and sleeping rooms shall have a window or door as a second means of egress that shall be minimum 5.7 sq. ft. operable area (5.0 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 operable 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 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/wdws must be safety glazed per R308.4.
- 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 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 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-resistant 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 W 1-1/4" drywall screws.

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

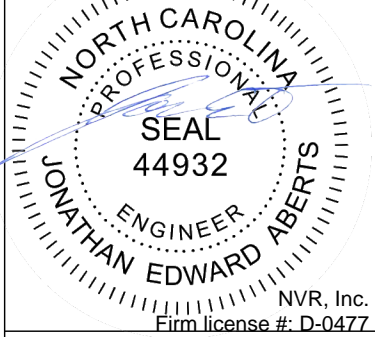
- For 1/2" wallboard, nails shall be 1-1/4" long, 1/4" head and .098 diameter shanks with annular ring or acceptable equivalent and comply with ASTM C514.
  - For 5/8" wallboard, nails shall be 1-3/8" long, 1/4" head and .098 diameter shanks.
- Garages shall be completely separated from the residence and attic area by not less than 1/2" gypsum board applied to the exterior side of the garage. Garages below habitable rooms shall be separated from 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 R302.6. 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 R606.2.
  - 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 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 F2105.1.
  - 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 R317.1 item #2.
  - Bottom plates on slabs and any wood in contact w/ concrete or masonry to be pressure treated material per Section R317.
  - 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 screen, 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 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.
  - 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 R806. 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 R806.2 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 (NCBC). Refer to house-specific wall bracing detail sheets and wall bracing standard details. Adhesive attachment of wall sheathing, including Method 6B, 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

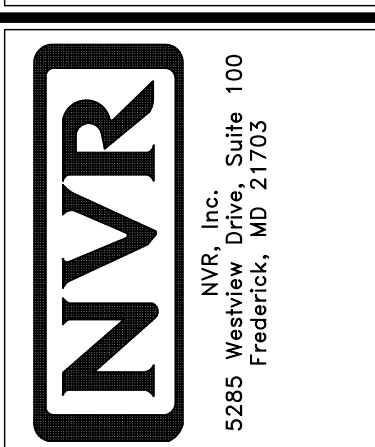
- Ground-fault and arc-fault circuit interrupter protection is provided per NFPA 70 (National Electric Code).
- Electric panel box installation to be in accordance with NFPA 70, Article 408 Section III. Location may vary by design.
- Approved smoke detectors shall be installed in each sleeping room; 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 activation 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 entrances. 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.

REV. NO.	DATE	REMARKS
1	1/6/19	1. MET - CODE UPDATES FOR 2018 NCBC
2	9/1/19	1. MET - UPDATED ENERGY NOTES
3	12/16/22	1. CAP - REVISE NOTE FOR 2x4 OR 2x6 EXTERIOR WALLS

05/27/2025



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SHEET NO.	MODEL	SET NO.	VERSION	DRAWN BY	DATE:	OPTION
SS-1	NCRG 2018 SPEC SHEET			SINGLE FAMILY ATTACHED		
				SINGLE FAMILY DETACHED		
				OPTION DESCRIPTION		
				NC State Building Code - Residential Code 2018		





ROOF VENTILATION CALCULATIONS

HOUSE NAME  
HOUSE VERSION  
PRODUCT LINE  
VENTILATION VALUES

EDEN CAY
EDC00_01
RYANHOMES
SOFFIT: 9 ft. sq. in. of vent per ft.
RIDGE: 18 sq. in. of vent per ft.
BOX / GABLE VENT: 45 sq. in. of vent per unit.

USER GUIDE	YES	(avg)	(avg)	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	(avg)	FAIL	Increase total vent

Version 4.0  
Last Revised 04/26/106

ELEVATION "K" & "L"												
Location / Options	Area (A) (sq. ft.)	Required: A/150 (sq. ft.)	Required: A/200 (sq. ft.)	Soffit (ft)	Soffit Vent (sq. ft.)	Ridge (ft)	Ridge Vent (sq. ft.)	Upper Box / Gable Vent (sq. ft.)	Lower Box Vent (sq. ft.)	TOTAL (sq. ft.)	OK A/150	OK A/200
MAIN HOUSE NO REAR PORCH	307794	2051.76	1025.88	78	772.20	25	450.00			122.20	NO	YES

ELEVATION "K" & "L"												
Location / Options	Area (A) (sq. ft.)	Required: A/150 (sq. ft.)	Required: A/200 (sq. ft.)	Soffit (ft)	Soffit Vent (sq. ft.)	Ridge (ft)	Ridge Vent (sq. ft.)	Upper Box / Gable Vent (sq. ft.)	Lower Box Vent (sq. ft.)	TOTAL (sq. ft.)	OK A/150	OK A/200
MAIN HOUSE WITH REAR PORCH	307794	2051.76	1025.88	64	633.60	25	450.00			1083.60	NO	YES

REAR PORCH												
Location / Options	Area (A) (sq. ft.)	Required: A/150 (sq. ft.)	Required: A/200 (sq. ft.)	Soffit (ft)	Soffit Vent (sq. ft.)	Ridge (ft)	Ridge Vent (sq. ft.)	Upper Box / Gable Vent (sq. ft.)	Lower Box Vent (sq. ft.)	TOTAL (sq. ft.)	OK A/150	OK A/200
REAR PORCH	20160	134.40	67.20	20	198.00	0	0.00			198.00	YES	N/A



Version 2.0  
(Last Revised 04/26/19)

HOUSE VOLUME CALCULATIONS

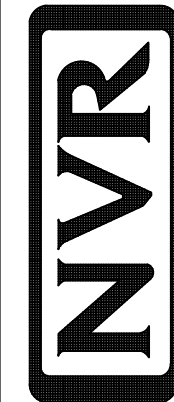
HOUSE NAME	EDEN CAY
HOUSE VERSION	EDC00 / 01
PRODUCT LINE	RYANHOMES

**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 "K", "L"			
Location / Area of house	Floor Area (sq. ft.)	Mean height (ft.)	Total volume (cu. Ft.)
Main section of the house	1840.00	13.98	25722
Garage bump out from main house	320.00	12.47	3992
Total House Volume			29713

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"	1750.08	8.63	15094
Crawl space "FCA"	1750.08	0.80	1400



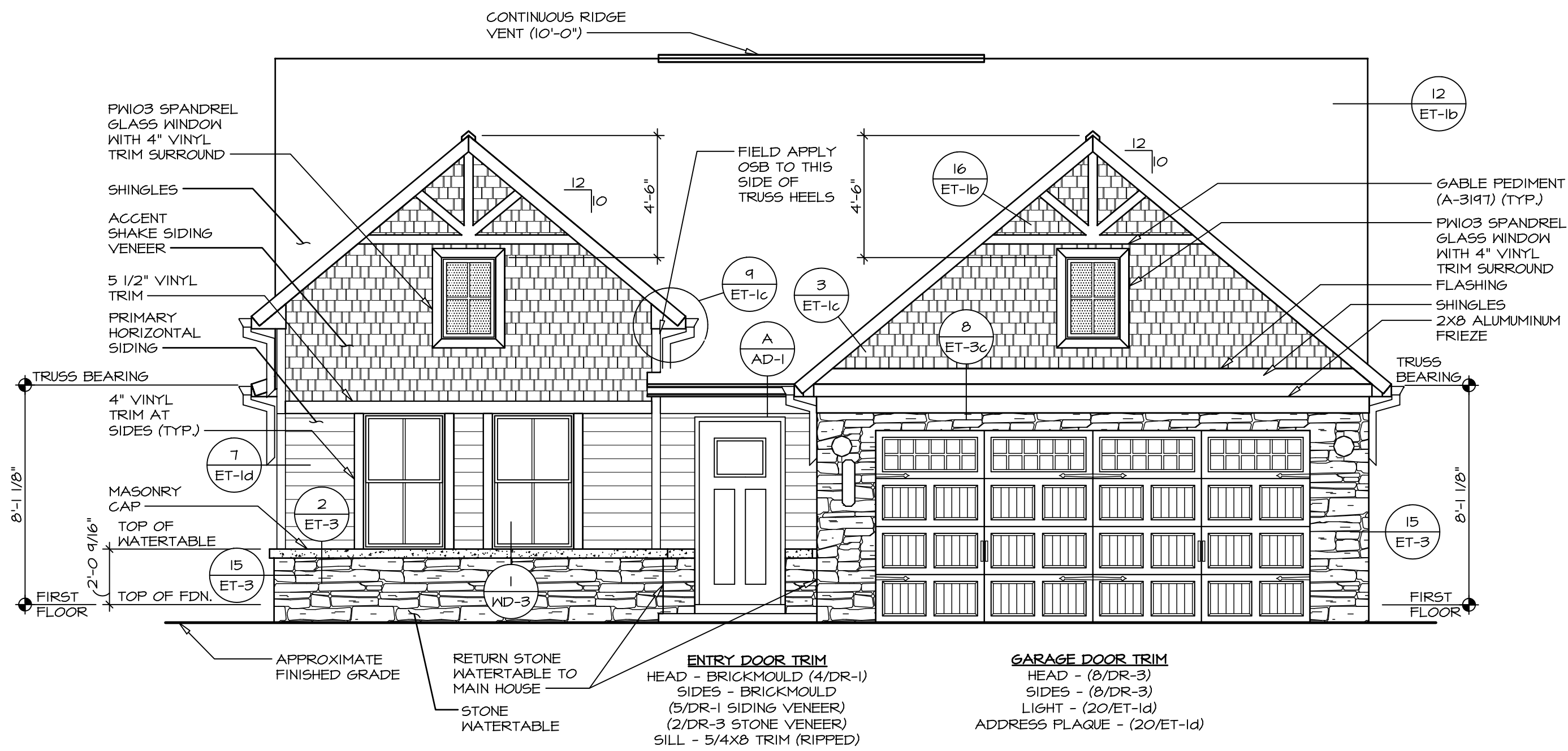
NVR, Inc.  
5285 Westview Drive, Suite 100  
Frederick, MD 21705

Jamge Bales  
05/27/2025

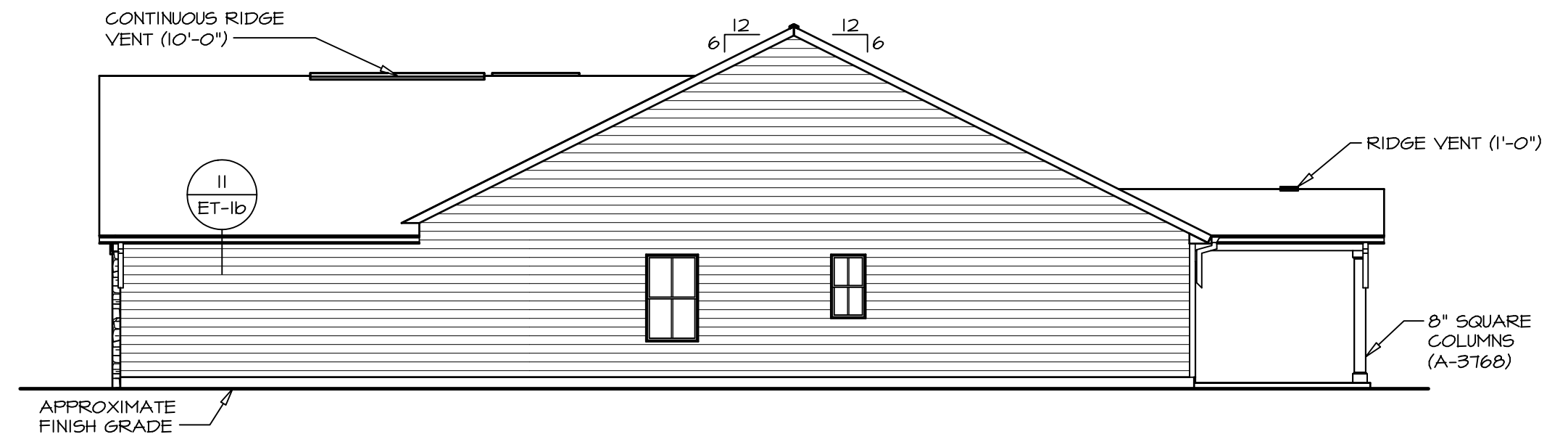
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	DRAWING TITLE <b>ROOF VENT AND VOLUME CALCULATIONS</b>	VERSION 01
OPTION DESCRIPTION	VOLUME CALCULATIONS	RELEASE NO. ----
		DRAWN BY
2		DATE
		OPTION

DIV-COMM-LOT-UNIT		RLH-VK-0107	
COMM-LOT		KIPLING VILLAGE - 0107	
STREET ADDRESS		27 ARTEEA COURT	
CITY		FLUGAT VARINA	
STATE		NC	
ZIP		27526	

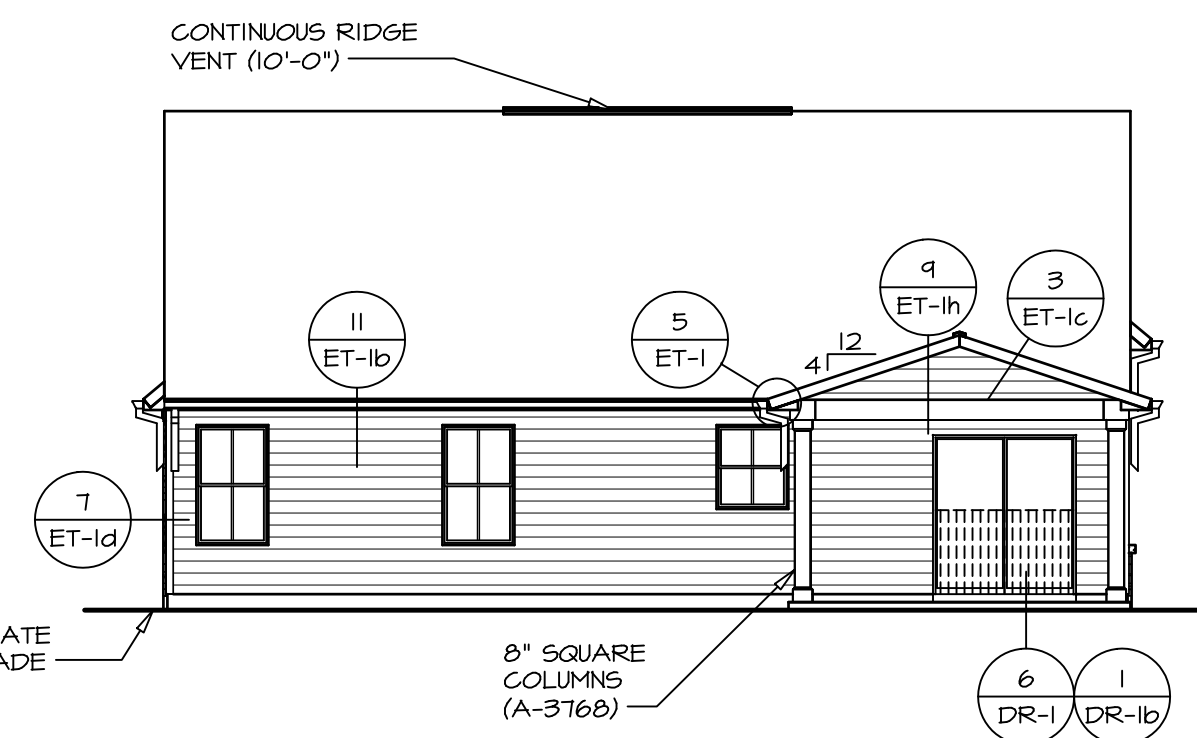
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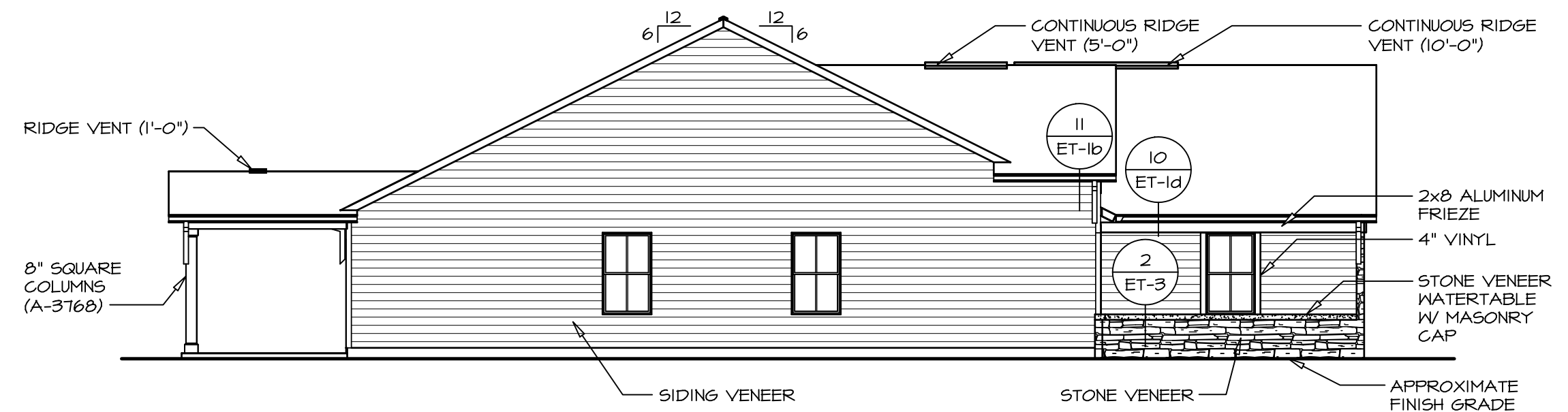
**1 FRONT ELEVATION "L"**  
SCALE: 1/4" = 1'-0"



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



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



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

DIV-COMM-LOT-UNIT  
**RLH-VK-0101**

COMM-LOT  
KIPLING VILLAGE - 0101

STREET ADDRESS  
21 ARTESA COURT

CITY  
FUGUAY VARINA

STATE  
NC

ZIP  
27526

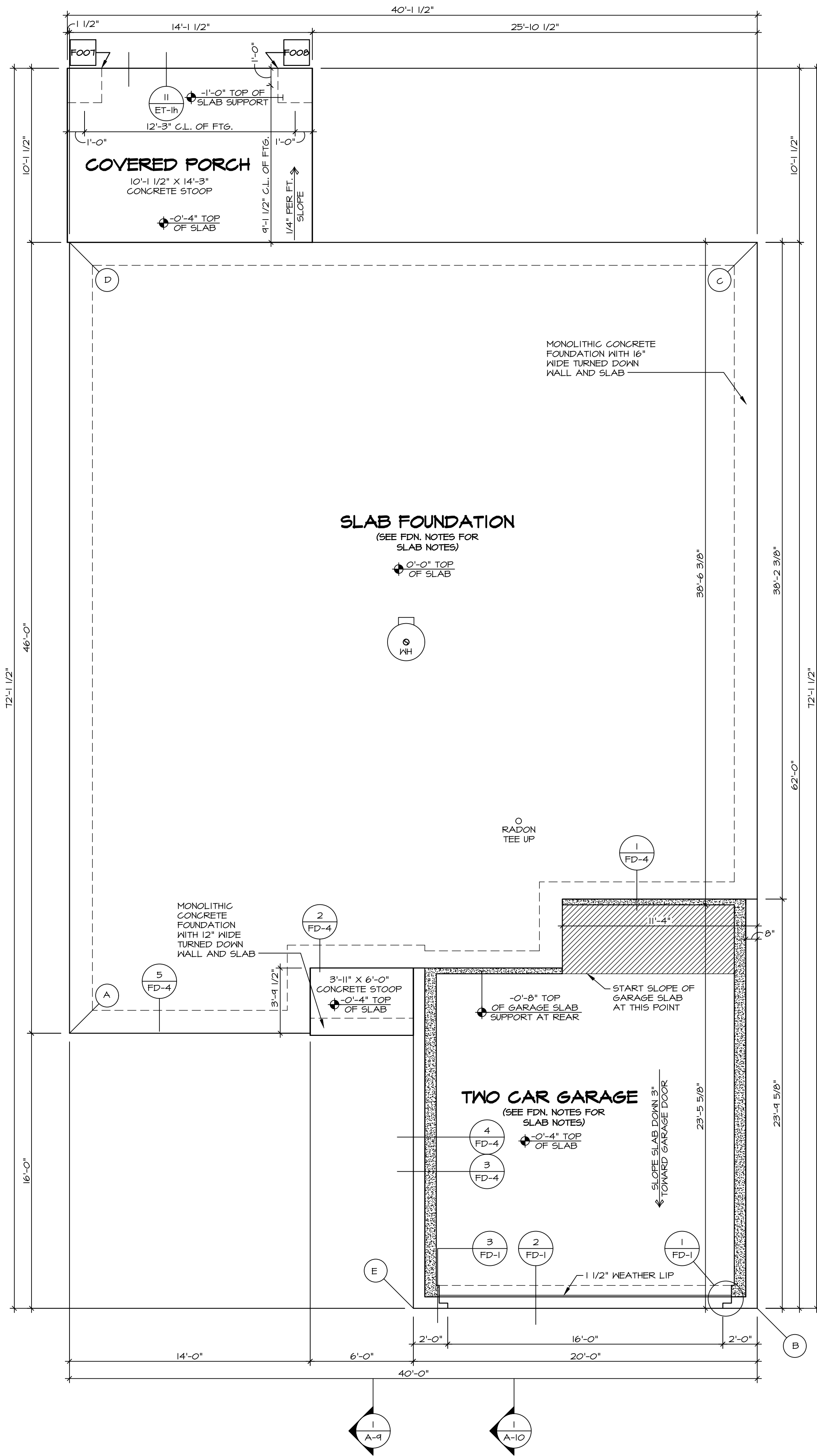
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Ft. Worth, TX 76133  
James Bales  
05/27/2025

SET NO. ED600  
VERSION 01  
RELEASE NO. ----  
DRAWN BY RDB  
DATE:  
OPTION

SHEET NO.  
**EDEN CAY**  
**NC-1**  
DRAWING TITLE  
ELEVATIONS  
OPTION DESCRIPTION  
**5**





1 FOUNDATION PLAN  
NC-3 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 GB-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 MS- DETAILS FOR FOOTER SLEEVE INFORMATION.
- THICKENED SLAB DEPTHS MEASURE FROM TOP OF SLAB. PAD FOOTING DEPTHS MEASURE 4" BELOW TOP OF SLAB.

PAD FOOTING SCHEDULE

IDENTIFIER	LENGTH	WIDTH	HEIGHT	ENG. NUM.	REMARKS
FOOT	2'-0"	2'-0"	1'-0"	50001	
FOOB	2'-0"	2'-0"	1'-0"	50001	

FOUNDATION DIAGONALS

A		B	
A	0"	A	43'-1"
B	43'-1"	B	0"
C	60'-11 1/2"	C	62'-0"
D	46'-0"	D	73'-9 3/8"
E	25'-7 3/8"	E	20'-0"

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

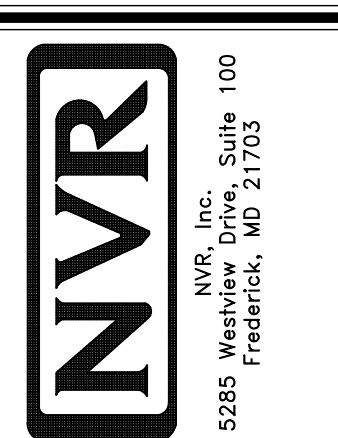
DIV-COMM-LOT-UNIT  
RLH-VK-0107

COM-LOT  
KLIPLING VILLAGE - 0107

05/27/2025



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SET NO. ED600  
VERSION 01  
RELEASE NO. ----  
DRAWN BY SGA  
DATE:  
OPTION

MODEL  
EDEN CAY  
DRAWING TITLE  
FOUNDATION  
OPTION DESCRIPTION

SHEET NO.  
NC-3

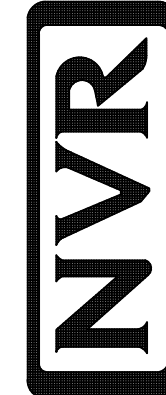
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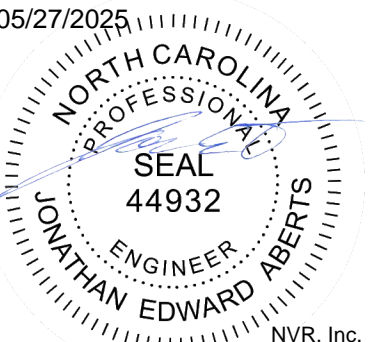
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NC-4	EDEN CAY	VERSION 01
	DRAWING TITLE	RELEASE NO. ----
	FOUNDATION HOLD DOWN	DRAWN BY ARS
	OPTION DESCRIPTION	DATE:
b		OPTION

V: As-Sold 2-Jobs MiTek Services Assigned RLH-VK-0107 ELL\_P\_VK\_0107 9 NC-4 FDNHD\_LS.dwg 05/26/25 - 10:42 am

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05/27/2025

DIV-COMM-LOT-UNIT

DIV-COMM-  
COMM-LOT

DIV-COMM-LOT-UNIT  
**RLH-1**  
COMM-LOT  
KIPLING VILLAGE - 0107  
STREET ADDRESS

DIV-COMM-LOT-UNIT

RLH-YK-O107

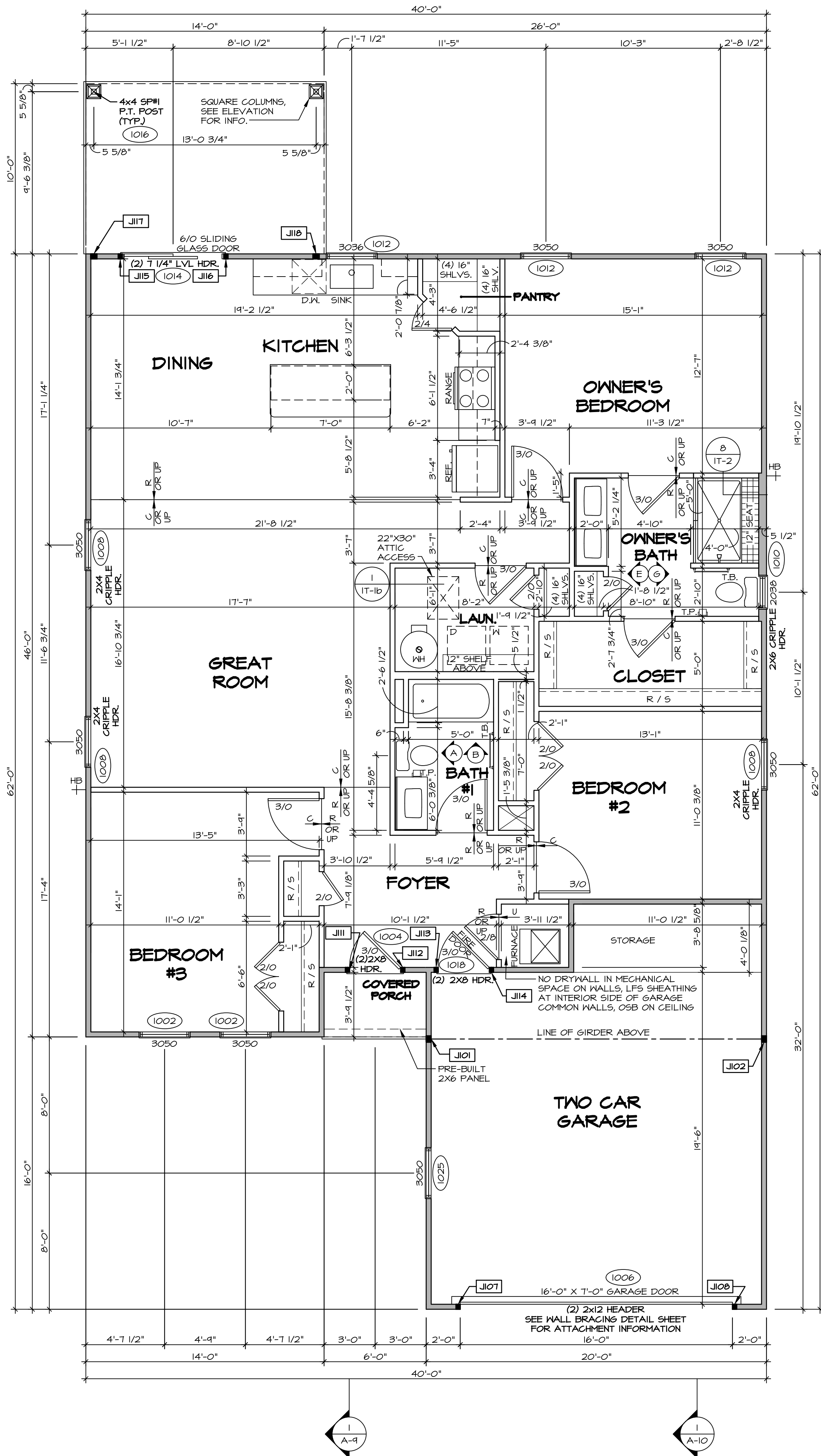
LOT-UNIT  
RLH-VK-0107



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

DIV-COMM-LOT-UNIT		COMM-LOT		APT. NO.	
RLH-VK-0107		KIPLING VILLAGE - 0107		27 ARTESA COURT	
CITY		STATE		ZIP	
FLOUAY VARINA		NC		27526	





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

**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 01T-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 CRIPPLES 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
  - FOOTINGS/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

**NOTE:**

EXTERIOR WALLS DRAWN TO FRAMING WIDTH, EXTERIOR SHEATHING IS NOT INCLUDED IN WALL THICKNESS.

**LVL PLY TO PLY FASTENING SCHEDULE:** (WHERE APPLICABLE BASED ON LVL USAGE)

- (2) PLY UP TO AND INCLUDING 11 7/8" TALL: FASTEN PLYS W/ (2) ROWS 16D NAILS AT 12" O.C. OR ALT 1 1/2" WIDE LVL FASTEN PLYS W/ (3) ROWS 12D NAILS AT 12" O.C.
- (2) PLY 14" UP TO AND INCLUDING 18", FASTEN PLYS W/ (3) ROWS 16D NAILS AT 12" O.C. OR ALT 1 1/2" WIDE LVL FASTEN PLYS W/ (4) ROWS 12D NAILS AT 12" O.C.
- (2) PLY 20" TALL AND OVER: FASTEN PLYS W/ (4) ROWS 16D NAILS AT 12" O.C. OR ALT 1 1/2" WIDE LVL FASTEN PLYS W/ (5) ROWS 12D NAILS AT 12" O.C.
- (3) PLY UP TO AND INCLUDING 11 7/8" TALL: FASTEN PLYS W/ (2) ROWS 16D NAILS AT 12" O.C. FROM EACH SIDE OR ALT 1 1/2" WIDE LVL FASTEN PLYS W/ (3) ROWS 12D NAILS AT 12" O.C. FROM EACH SIDE.
- (3) PLY 14" UP TO AND INCLUDING 18", FASTEN PLYS W/ (3) ROWS 16D NAILS AT 12" O.C. FROM EACH SIDE OR ALT 1 1/2" WIDE LVL FASTEN PLYS W/ (4) ROWS 12D NAILS AT 12" O.C. FROM EACH SIDE.
- (3) PLY 20" TALL AND OVER: FASTEN PLYS W/ (4) ROWS 16D NAILS AT 12" O.C. FROM EACH SIDE OR ALT 1 1/2" WIDE LVL FASTEN PLYS W/ (5) ROWS 12D NAILS AT 12" O.C. FROM EACH SIDE.
- (4) PLY (ALL SIZES): FASTEN PLYS WITH (3) ROWS OF SDN22634 STRUCTURAL WOOD SCREWS, OR EQUIVALENT, AT 16" O.C. STAGGERED. SEE SHOP DRAWING FOR ADDITIONAL INFORMATION.

FIRST FLOOR JACK SCHEDULE			
IDENTIFIER	DESCRIPTION	ENG. NUM.	REMARKS
J101	JACK - (3) 2X4 SFF STUD GRADE	1024	
J102	JACK - (3) 2X4 SFF STUD GRADE	1024	
J107	JACK - (2) 2X4 SFF STUD GRADE	1006	
J108	JACK - (2) 2X4 SFF STUD GRADE	1006	
J111	JACK - (2) 2X4 SFF STUD GRADE	1004	
J112	JACK - (2) 2X4 SFF STUD GRADE	1004	
J113	JACK - (2) 2X4 SFF STUD GRADE	1018	
J114	JACK - (2) 2X4 SFF STUD GRADE	1018	
J115	JACK - (2) 2X4 SFF STUD GRADE	1014	
J116	JACK - (2) 2X4 SFF STUD GRADE	1014	
J117	JACK - (3) 2X4 SFF STUD GRADE	1016	
J118	JACK - (3) 2X4 SFF STUD GRADE	1016	

DIV-COMM-LOT-UNIT  
**RLH-VK-0101**

COMM-LOT  
KIPLING VILLAGE - 0101

STREET ADDRESS  
27 ARTESA COURT

CITY  
FLOUJAY VARINA

STATE  
NC

ZIP  
27526

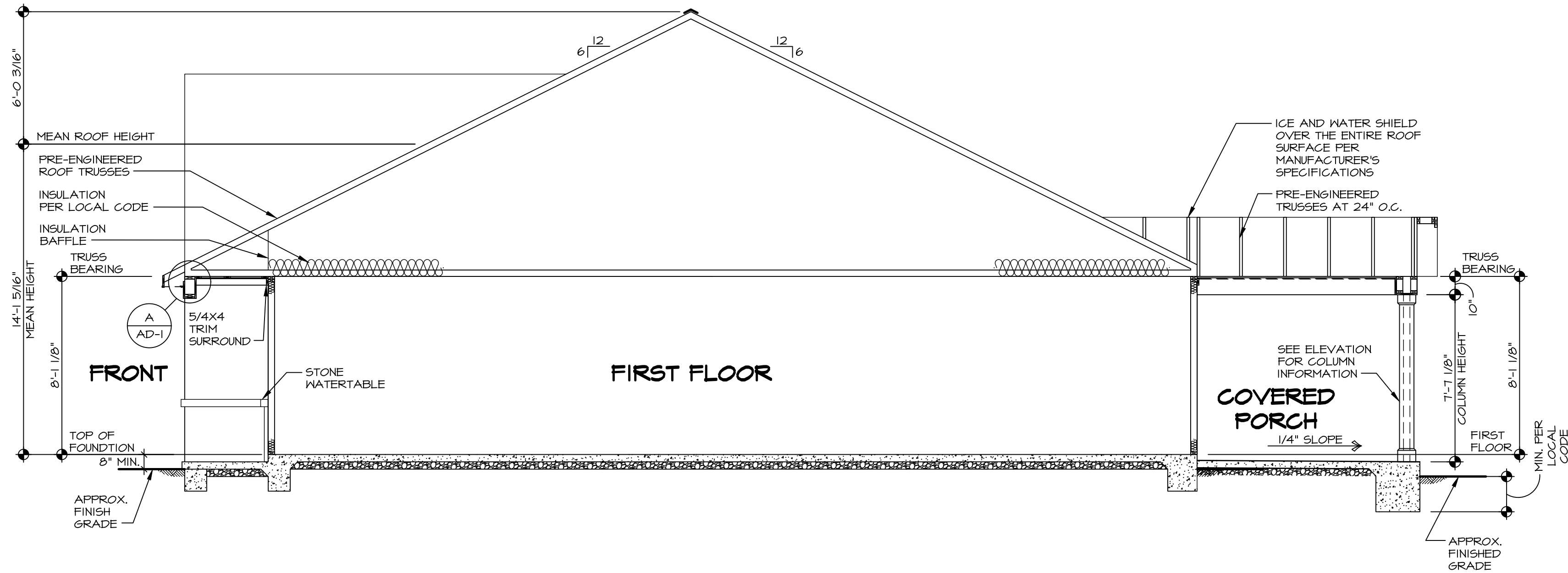
05/27/2025  
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PROFESSIONAL  
SEAL  
44932  
ENGINEER  
MATTHEW EDWARD ALBERTS  
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SET NO. ED600  
VERSION 01  
RELEASE NO. ----  
DRAWN BY SGA  
DATE:  
OPTION

SHEET NO.  
**NC-7**  
EDEN CAY  
DRAWING TITLE  
FIRST FLOOR PLAN  
OPTION DESCRIPTION  
12



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

SHEET NO. <b>NC-9</b>	MODEL <b>EDEN CAY</b>	SET NO.	EDC00
		VERSION	01
DRAWING TITLE <b>BUILDING SECTION</b>	DRAWN BY <b>RDB</b>	RELEASE NO.	----
		DATE:	
OPTION DESCRIPTION		DRAWN BY	RDB
		DATE:	
13		OPTION	

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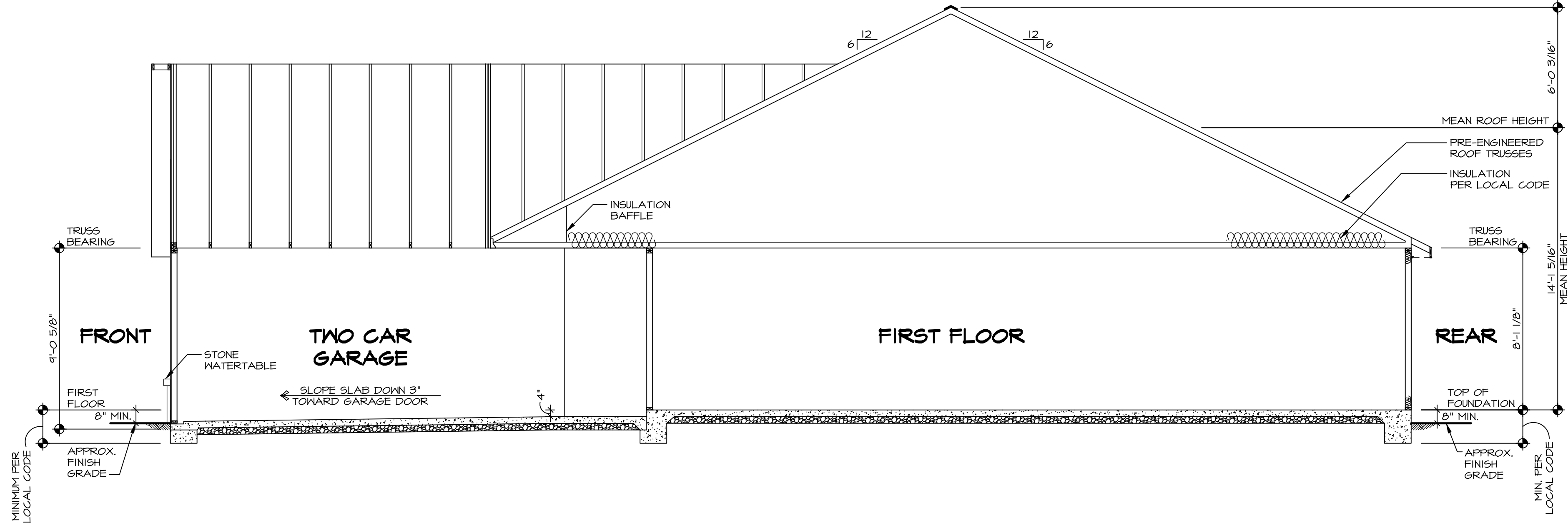
5285 Westview Road  
Fresno, CA 93725  
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Fax: 559.233.8801  
www.nvr.com

James Bales  
05/27/2025

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DIV-COMM-LOT-UNIT <b>RLH-VK-0101</b>			
COMM-LOT KIPLING VILLAGE - 0101			
STREET ADDRESS 27 ARTESA COURT	APT. NO. ----		
CITY FUGUAY VARINA	STATE NC	ZIP 27526	





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

SHEET NO.  <b>NC-10</b>	MODEL <b>EDEN CAY</b>	SET NO. ED000 VERSION 01 RELEASE NO. ---- DRAWN BY RDB DATE:
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	OPTION DESCRIPTION	OPTION
14		

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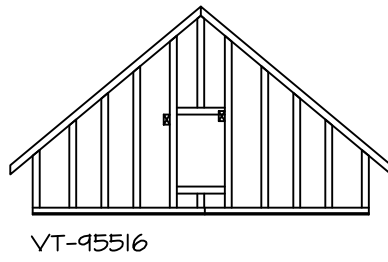
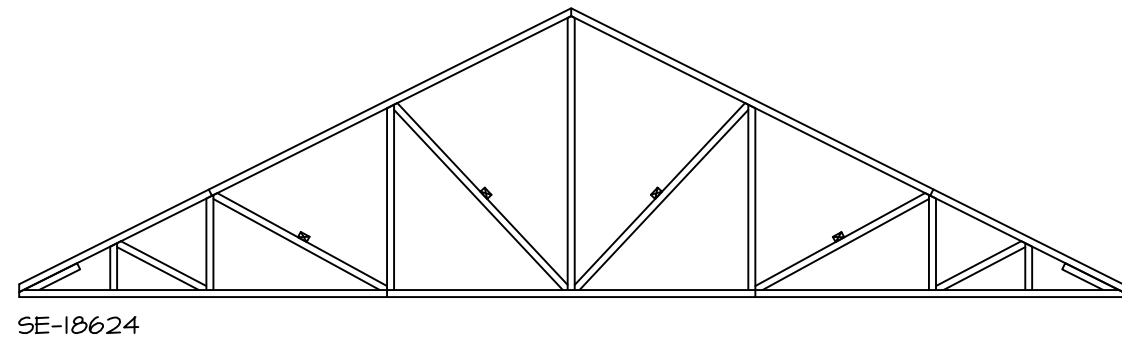
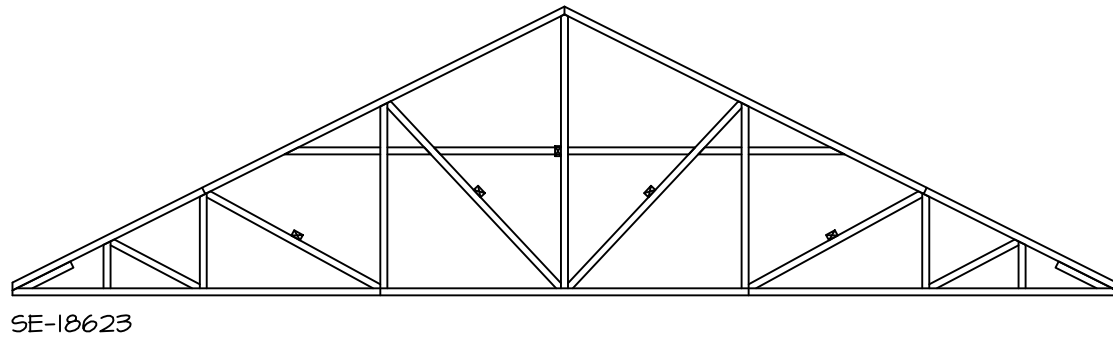
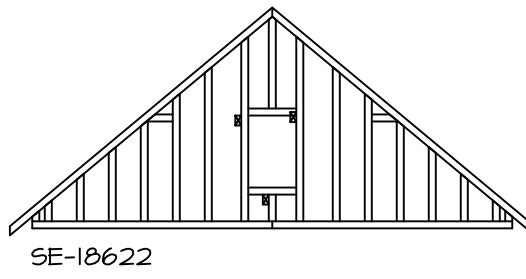
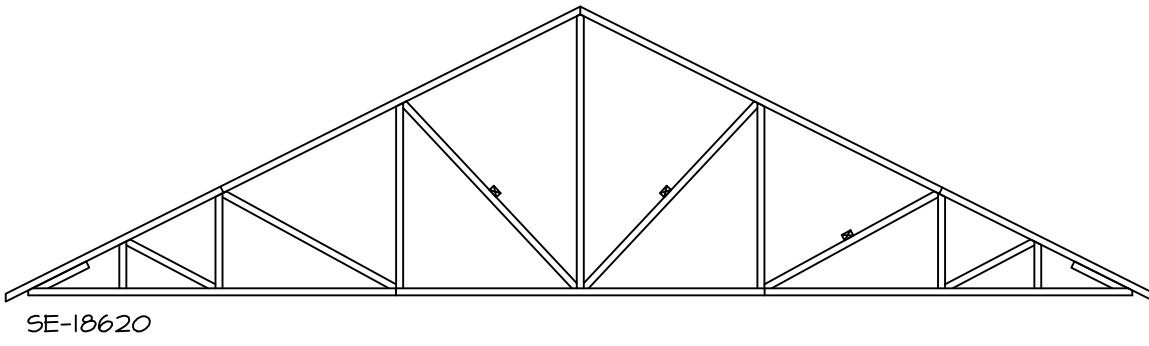
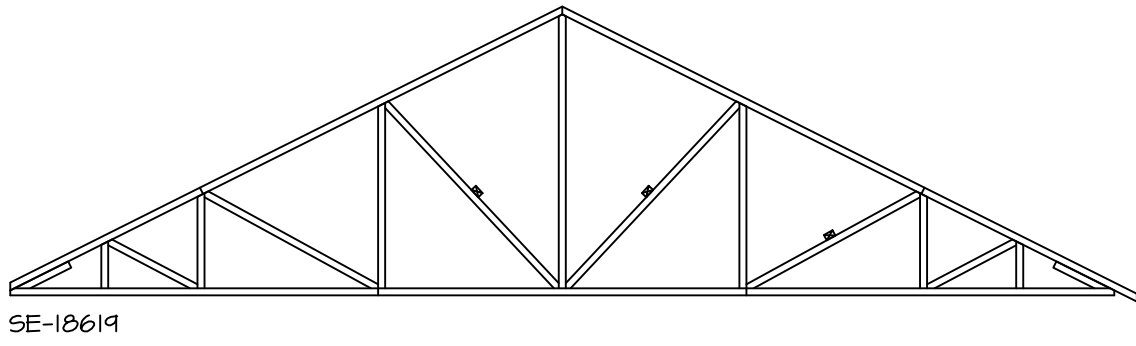
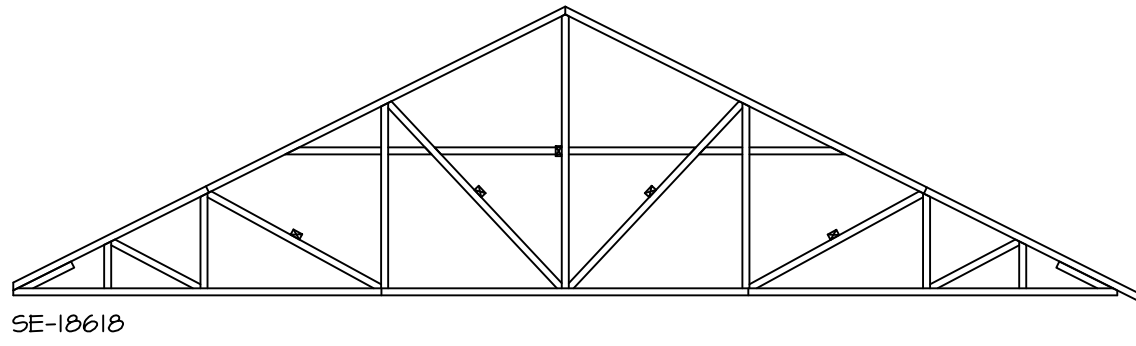
5285 West 10th Street  
Fresno, CA 93721  
5285 West 10th Street  
Fresno, CA 93721  
James Bales  
05/27/2025

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DIV-COMM-LOT-UNIT <b>RLH-VK-0101</b>			
COMM-LOT KIPFLING VILLAGE - 0101			
STREET ADDRESS 27 ARTESA COURT	APT. NO. ----		
CITY FUGUAY VARINA	STATE NC	ZIP 27526	







1  
S-4

## TRUSS BRACING DETAILS

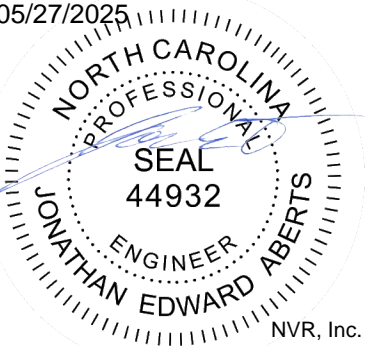
SCALE: 1/8" = 1'-0"

- TRUSS BRACING NOTES:**
- IF TRUSS DOES NOT APPEAR ON THIS TRUSS BRACING SHEET, NO ADDITIONAL LATERAL BRACING IS REQUIRED.
  - 2X4 SFF#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 1" BRACE DETAIL (3/RP-16) 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/RP-16)
  - STUDDED GABLE BRACING DETAIL (1/RP-16) TO BE UTILIZED FOR TRUSSES 6'-4" IN HEIGHT OR GREATER.
  - PARTIALLY SHEATHED GABLES, SEE (5/RP-16) FOR "L" BRACING WHEN REQUIRED.
  - LATERAL BRACING CAN BE APPLIED TO EITHER SIDE OF THE WEB MEMBER IDENTIFIED IN THE DRAWING.
  - SHEATHING (OSB OR GYPSUM) REPLACES LATERAL AND DIAGONAL TRUSS BRACING.

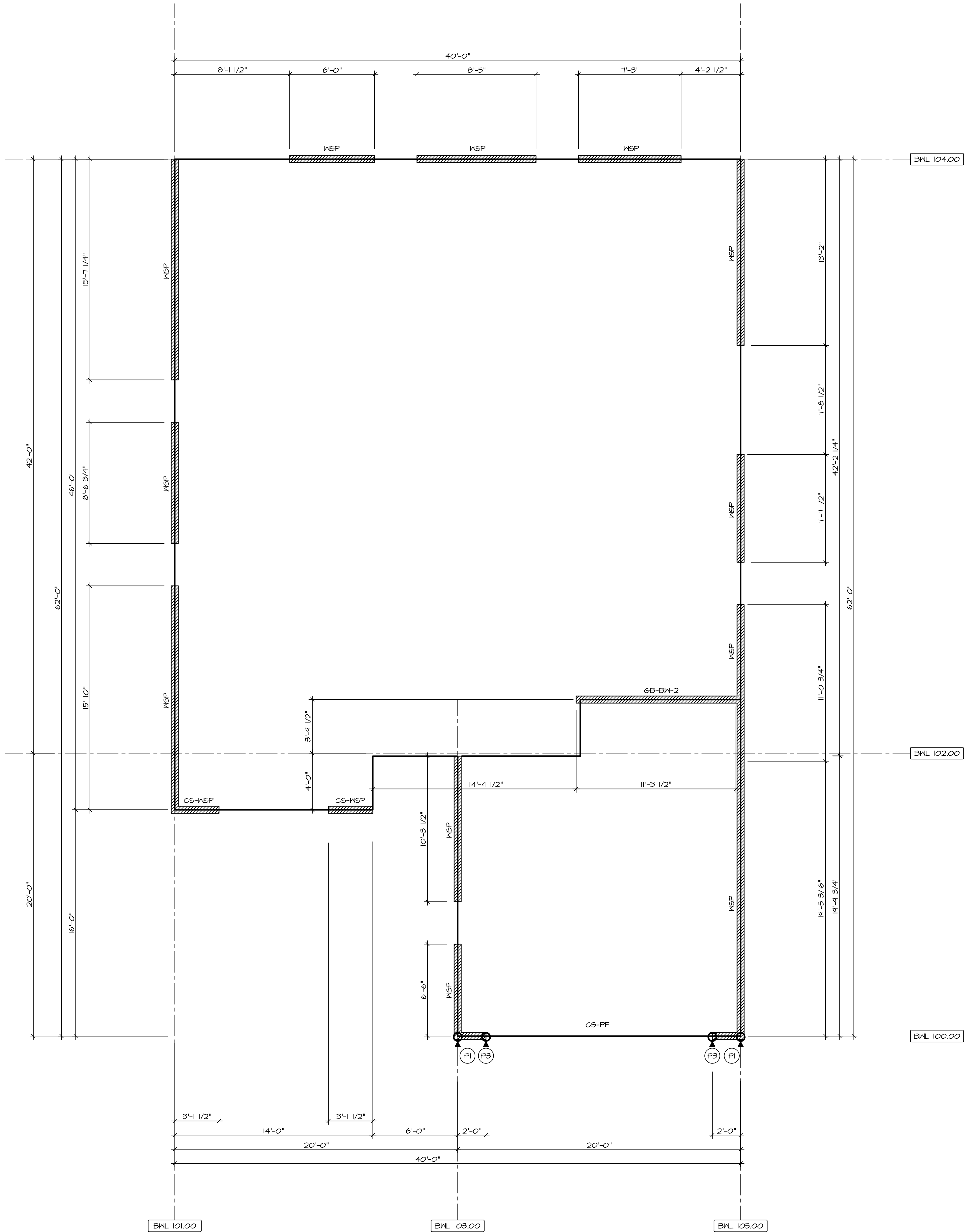
SHEET NO.	MODEL	SET NO.	EDCOO
S-4	EDEN CAY	VERSION 01	
	DRAWING TITLE	RELEASE NO.	----
	TRUSS BRACING DETAILS	DRAWN BY	ARS
		DATE:	
		OPTION	
22			

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

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DIV-COMM-LOT-UNIT	RLH-VK-0101
COMM-LOT	KIPLING VILLAGE - 0101
STREET ADDRESS	27 ARTESA COURT
CITY	FUQUAY VARIANA
STATE	NC
ZIP	27526



**BRACING LEGEND**

BWL XXX.XX	BRACED WALL LINE I.D.
---	BRACED WALL LINE
---	HOUSE WALL
///	BRACED WALL PANEL
(X)	ENGINEERING PAGE NUMBER
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 6 /MB-2)
LIB	LET-IN BRACING (SEE STANDARD DETAIL F /MB-2)
CS-WSP	CONTINUOUS SHEATHING - WOOD STRUCTURAL PANEL
CS-PF	CONTINUOUS SHEATHING - PORTAL FRAME, SEE FLOOR PLANS FOR PORTAL FRAME HEADER INFORMATION (SEE STANDARD DETAIL A, C /MB-2)
CS-G	CONTINUOUS SHEATHING - WOOD STRUCTURAL PANEL ADJACENT TO GARAGE OPENINGS
ENG-WSP-A	ENGINEERED DESIGN W/ WALL STRUCTURAL PANEL SHEATHING TYPE 'A' FASTENING REQUIREMENTS (NO HOLD DOWNS REQUIRED UNLESS NOTED)
ENG-WSP-B	ENGINEERED DESIGN W/ WALL STRUCTURAL PANEL SHEATHING TYPE 'B' FASTENING REQUIREMENTS (NO HOLD DOWNS REQUIRED UNLESS NOTED)
ENG-WSP-C	ENGINEERED DESIGN W/ WALL STRUCTURAL PANEL SHEATHING ON BOTH SIDES OF THE WALL TYPE 'C' FASTENING REQUIREMENTS (NO HOLD DOWNS REQUIRED UNLESS NOTED)
ENG-PF	ENGINEERED DESIGN W/ PORTAL FRAME, SEE FLOOR PLANS FOR PORTAL FRAME HEADER INFORMATION (SEE STANDARD DETAIL PAGE MB-1)
ENG-GBI-A	ENGINEERED DESIGN W/ (1) SIDED GYPSUM BOARD TYPE 'A' FASTENING REQUIREMENTS
ENG-GBI-B	ENGINEERED DESIGN W/ (1) SIDED GYPSUM BOARD TYPE 'B' FASTENING REQUIREMENTS
ENG-BW	ENGINEERED DESIGN W/ (1) SIDED GYPSUM BOARD W/ BLOCK WALL CONSTRUCTION (SEE STANDARD DETAIL 17/MB-1)
HD	HOLD-DOWN: 1. SEE SHEET MB-2 FOR "P_" INDICATOR SCHEDULE AND DETAILS 2. SEE SHEET MB-1 FOR "H_" INDICATOR SCHEDULE AND DETAILS 3. ARROW INDICATES LOCATION.

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

FASTENING SCHEDULE			
SHEATHING	FASTENER	SPACING	
		EDGES	FIELD
PRESCRIPTIVE 7/16" WOOD STRUCTURAL PANELS OR EQUIVALENT (W METHOD WSP, CS-WSP, CS-G)	8d COMMON NAILS	6" O.C.	6" O.C.
	ALTERNATIVE FASTENER 1-3/4" 16-GAUGE CORROSION RESISTANT STAPLES	3" O.C.	6" O.C.
ENGINEERED 7/16" WOOD STRUCTURAL PANELS (W METHOD ENG-WSP-A, ENG-WSP-B, ENG-WSP-C)	A - 8d COMMON NAILS	4" O.C.	6" O.C.
	A - 1-3/4" 16-GAUGE CORROSION RESISTANT STAPLES	3" O.C.	6" O.C.
	B - 8d COMMON NAILS*	3" O.C.	6" O.C.
	B - 1-3/4" 16-GAUGE CORROSION RESISTANT STAPLES	N/A	6" O.C.
	C - 8d COMMON NAILS* SHEATHING ON BOTH SIDES OF THE WALL	3" O.C.	6" O.C.
	C - 1-3/4" 16-GAUGE CORROSION RESISTANT STAPLES SHEATHING ON BOTH SIDES OF THE WALL	N/A	6" O.C.
1/2" GYPSUM WALLBOARD (W METHOD GB-1, GB-2, ENG-GBI-A)	1-1/4" LONG, 1/4" HEAD, .048" DIA. ANNULAR-RINGED NAILS	7" O.C.	7" O.C.
	CORROSION RESISTANT TYPE W 1-1/4" DRYWALL SCREWS	7" O.C.	7" O.C.
1/2" GYPSUM WALL BOARD BLOCKED AT THE EDGES (W METHOD GB-BW-1, GB-BW-2, ENG-BW)	BLOCKING REQUIRED AT ALL GYPSUM EDGES. USE CORROSION RESISTANT TYPE W 1-1/4" DRYWALL SCREWS	4" O.C.	12" O.C.
<b>NOTES:</b> 1. MINIMUM 7/16" CROWN WIDTH FOR STAPLES IN WOOD STRUCTURAL PANEL. 2. SPECIFIED GYPSUM FASTENINGS 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. STAPLE ALTERNATIVE FOR USE IN FIELD ONLY. 5. WALL PANELS NOT IDENTIFIED AS BRACED WALL PANELS SHALL BE FASTENED IN ACCORDANCE WITH THE WSP/ENG-WSP-A METHOD.			

BRACED WALL LINE SCHEDULE				
WIND SPEED (ULT)	IDENTIFIER	REQUIRED (FT)	ACTUAL (FT)	METHOD
130 MPH	BNL 100.00	5.66	6.0	CONTINUOUS (WITH GWB)
130 MPH	BNL 101.00	4.47	34.44	WSP (WITH GWB)
130 MPH	BNL 102.00	12.41	17.55	GB BLOCKED
130 MPH	BNL 103.00	7.08	16.74	WSP (WITH GWB)
130 MPH	BNL 104.00	12.71	21.66	WSP (WITH GWB)
130 MPH	BNL 105.00	9.61	51.24	WSP (WITH GWB)

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

MODEL  
**EDEN CAY**

DRAWING TITLE  
**WALL BRACING**

OPTION DESCRIPTION

SHEET NO.  
**S-5**

23

SET NO. ED000

VERSION 01

RELEASE NO. ----

DRAWN BY ARS

DATE:

OPTION

PROFESSIONAL SEAL  
44932  
NORTH CAROLINA  
ENGINEER  
EDWARD ALBERTS

05/27/2025

DIV-COMM-LOT-UNIT  
**RLH-VK-0107**

COM-Lot  
KLIPLING VILLAGE - 0107

STREET ADDRESS  
27 ARTESA COURT

CITY FUGUAY VARINA

STATE NC

ZIP 27526

05/27/2025

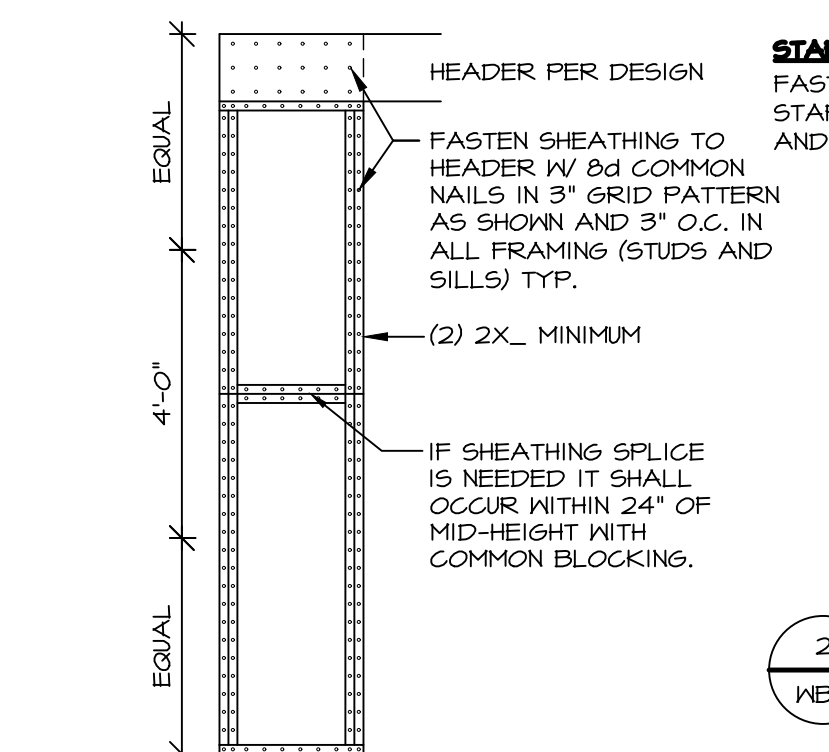
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Professional Engineer  
License # 13-0477

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

V:\As-Bld\2-Jobs\Mitek\_Services\Assigned\RLH-VK-0107\ELL\_P\_VK\_0107\23-S-5\WHTG\_LS\_SRW\_SQK.dwg 05/26/25 - 10:42 am





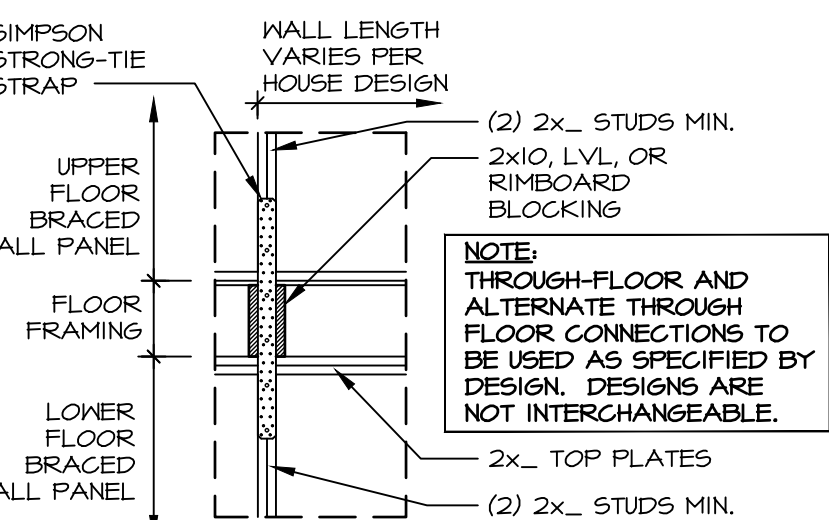
**1**  
WB-1  
SCALE 3/8" = 1'-0"

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

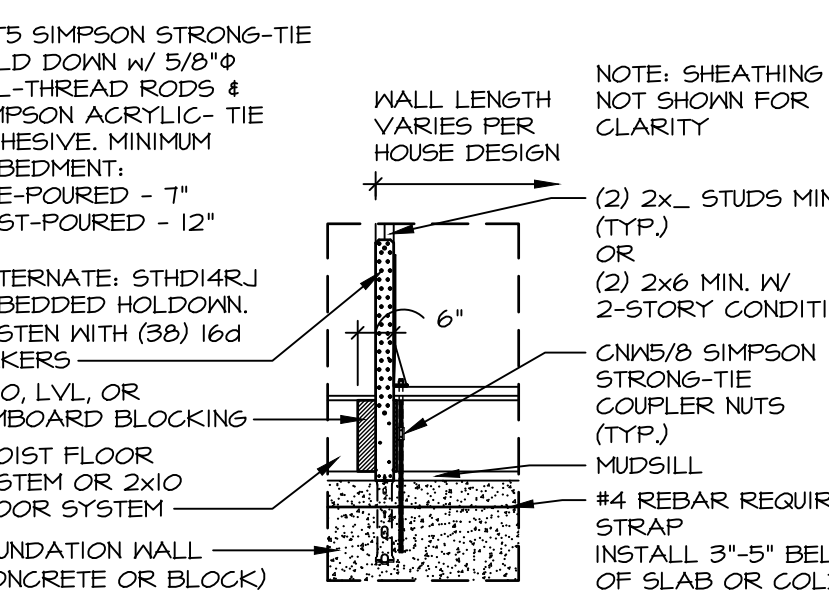
FASTEN SHEATHING CONTINUOUSLY ACROSS PANEL AND HEADER. FASTEN SHEATHING TO HEADER USING (4) ROWS OF 8d NAILS AT 3' O.C. (IN A 3' GRID PATTERN) AND TO ALL OTHER FRAMING MEMBERS AT 3' O.C. (TYP.)

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

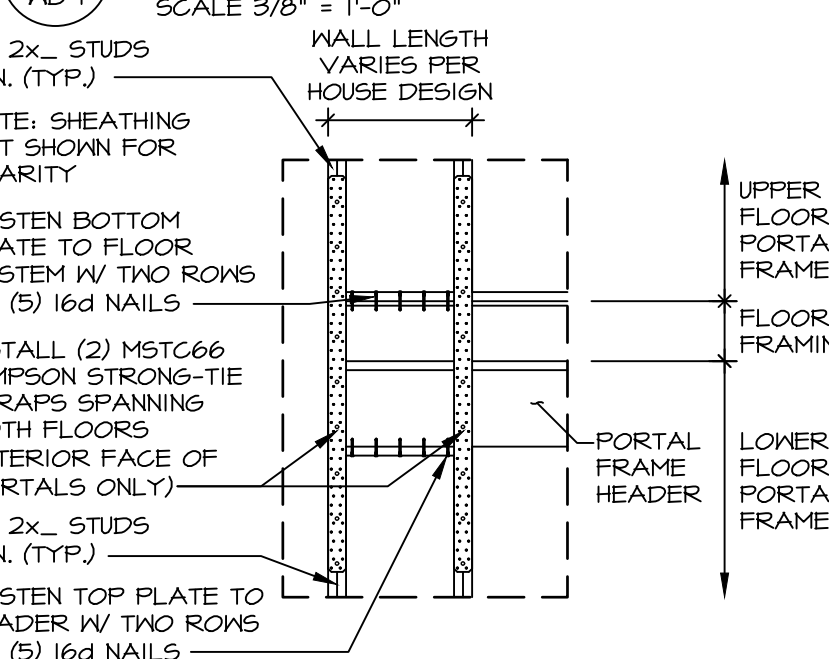
**3**  
WB-1  
SCALE 3/8" = 1'-0"



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

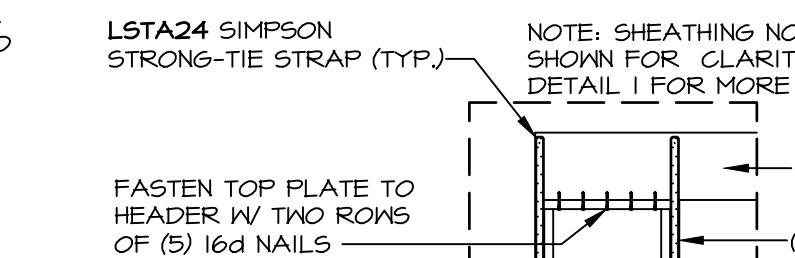


**7**  
WB-1  
SCALE 3/8" = 1'-0"

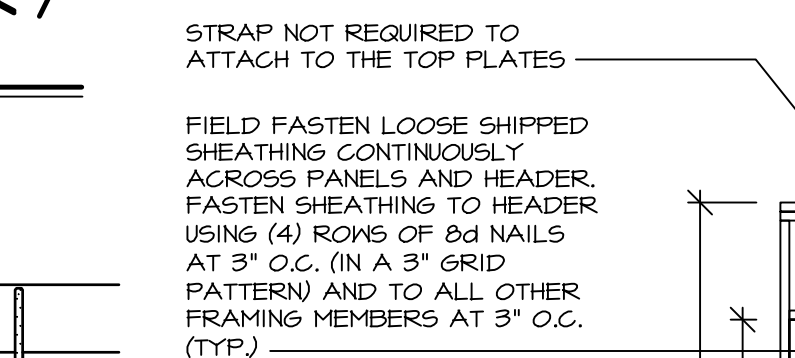


**9**  
WB-1  
SCALE 3/8" = 1'-0"

**STAPLE FASTENING ENGINEERED ALTERNATIVE:**  
FASTEN SHEATHING TO HEADER USING 16 GAUGE, 1 1/2" LEG STAPLES (MIN. 7/16" GROUND) IN A 15" X 3" GRID PATTERN AND TO ALL OTHER FRAMING MEMBERS AT 1 1/2' O.C. (TYP.)

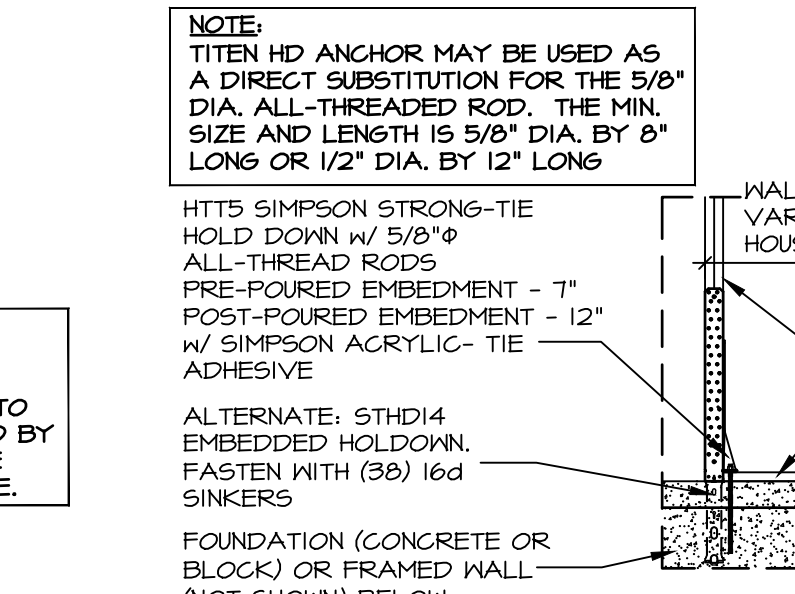


**2**  
WB-1  
SCALE 3/8" = 1'-0"

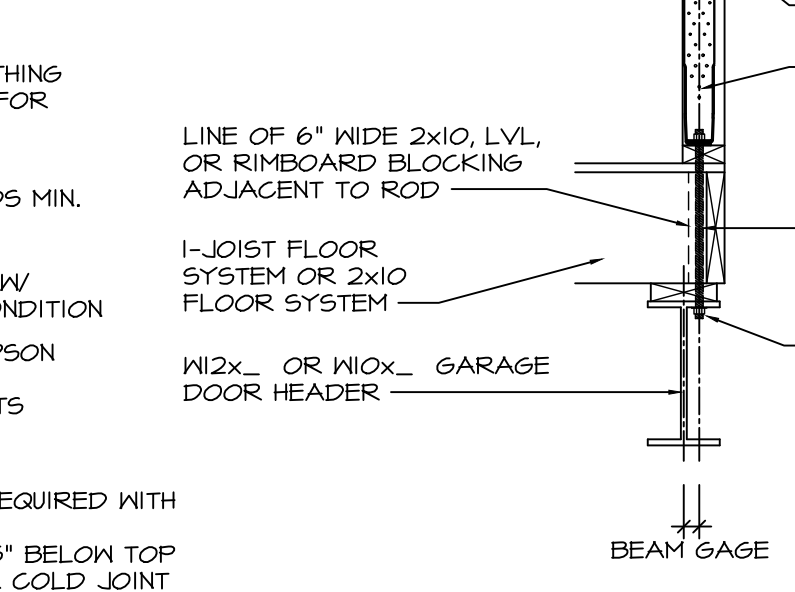


**4**  
WB-1  
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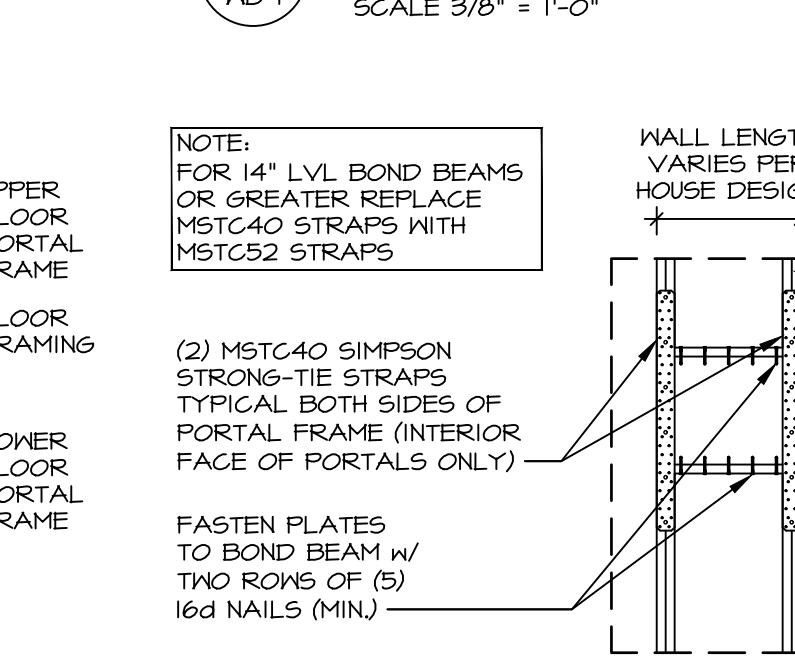
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WB-1  
SCALE 3/8" = 1'-0"



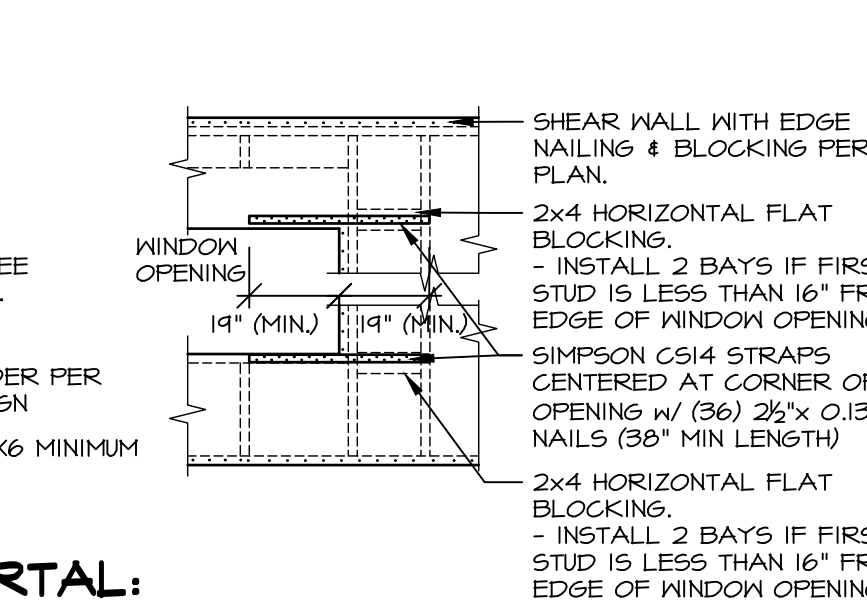
**6**  
WB-1  
SCALE 3/8" = 1'-0"



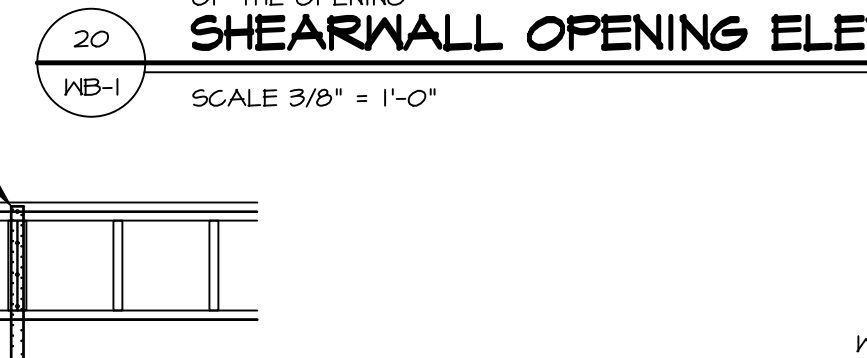
**8**  
WB-1  
SCALE 3/8" = 1'-0"



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

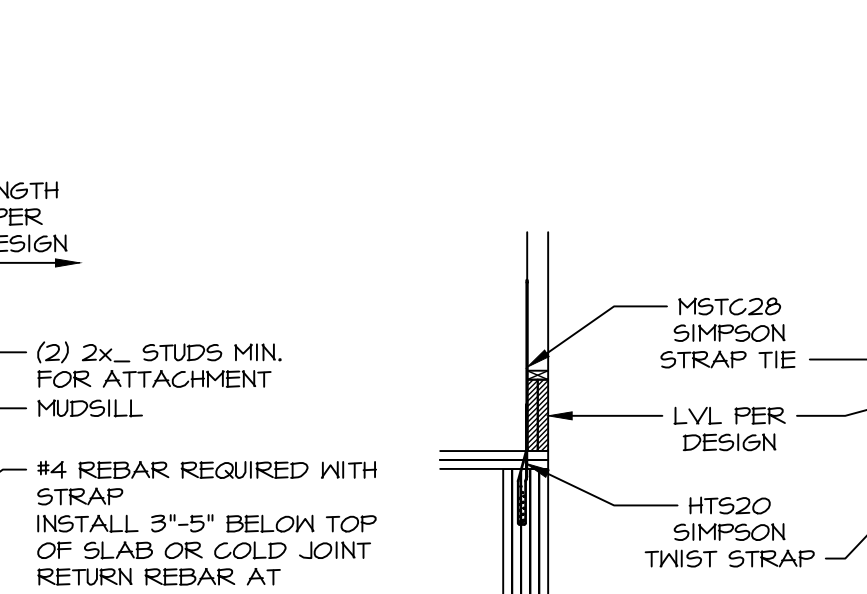


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WB-1  
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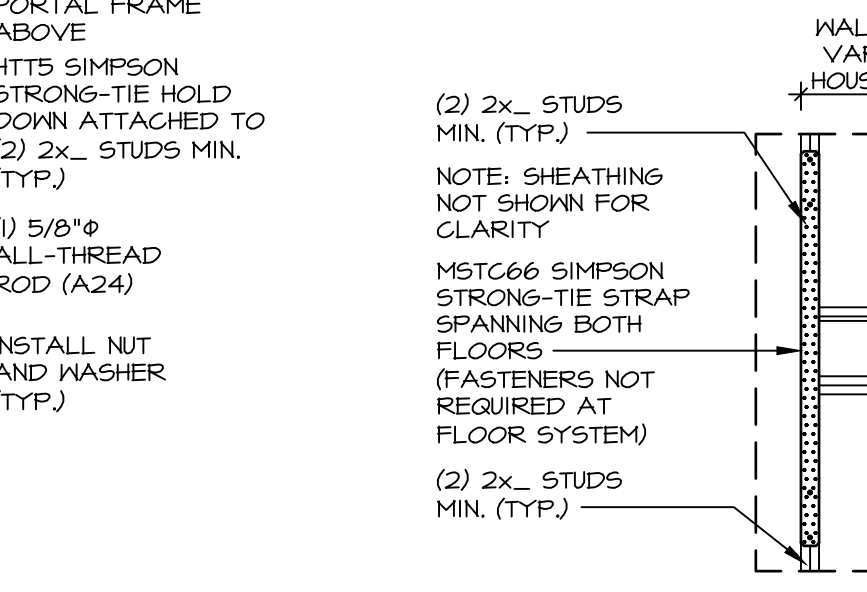


**11**  
WB-1  
SCALE 3/8" = 1'-0"

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



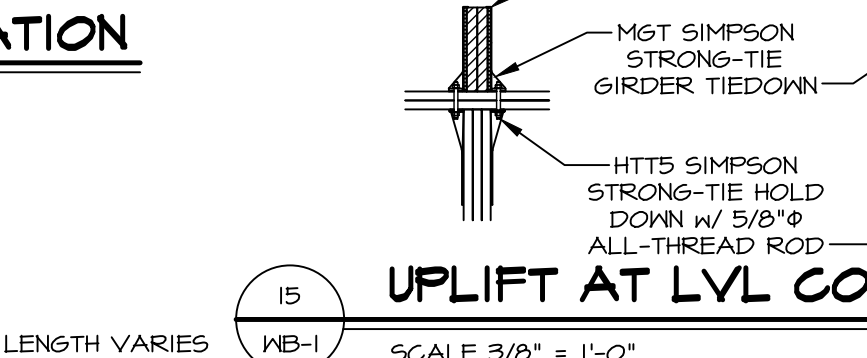
**21**  
WB-1  
SCALE 3/8" = 1'-0"



**22**  
WB-1  
SCALE 3/8" = 1'-0"



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

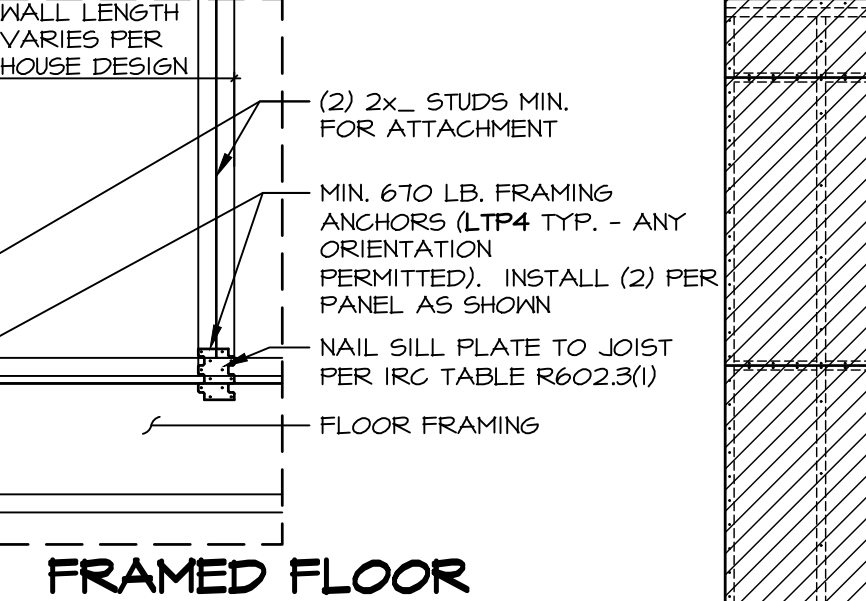


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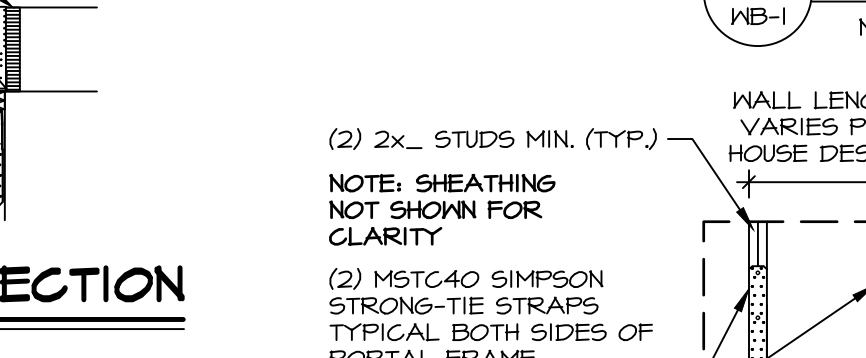
**16**  
WB-1  
SCALE 3/8" = 1'-0"



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

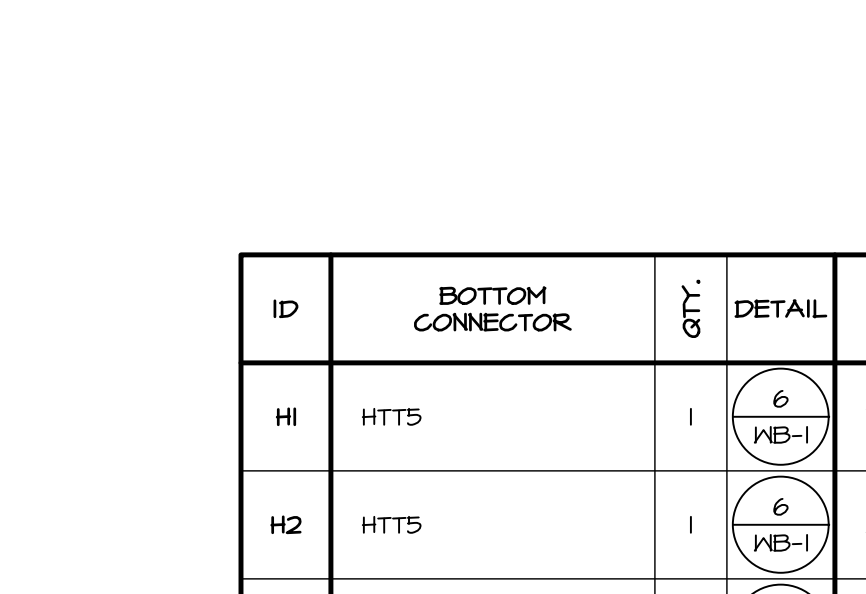


**17**  
WB-1  
SCALE 3/8" = 1'-0"

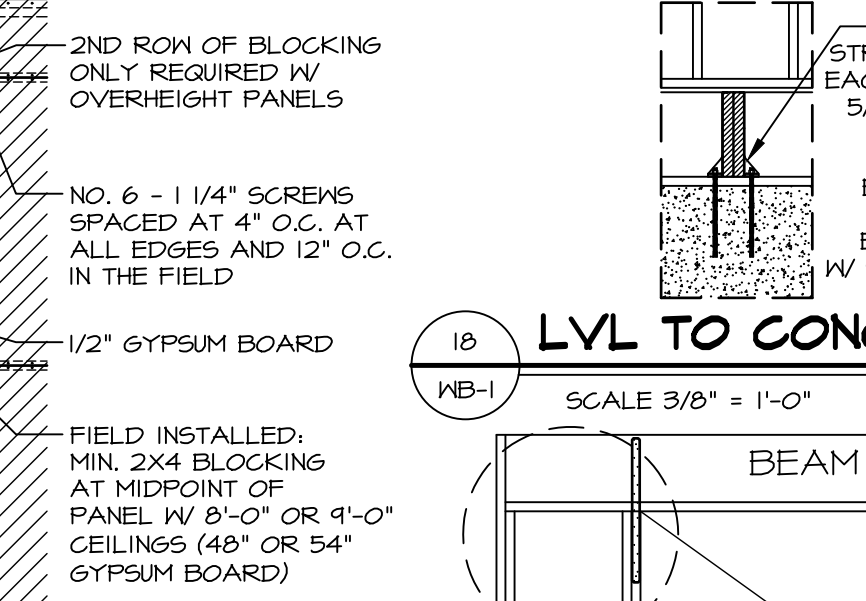


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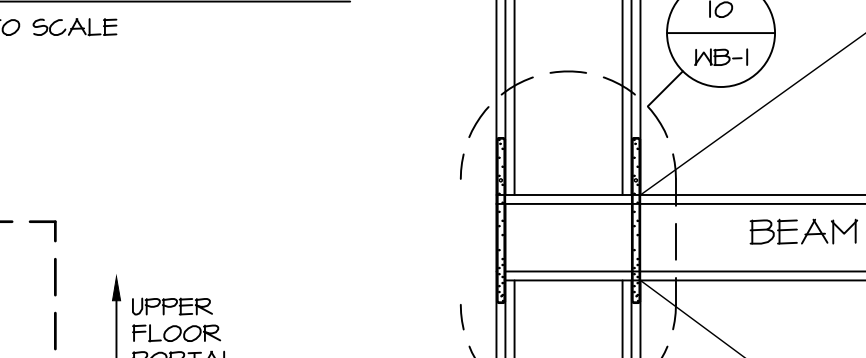
**16**  
WB-1  
SCALE 3/8" = 1'-0"



**12**  
WB-1  
SCALE 3/8" = 1'-0"

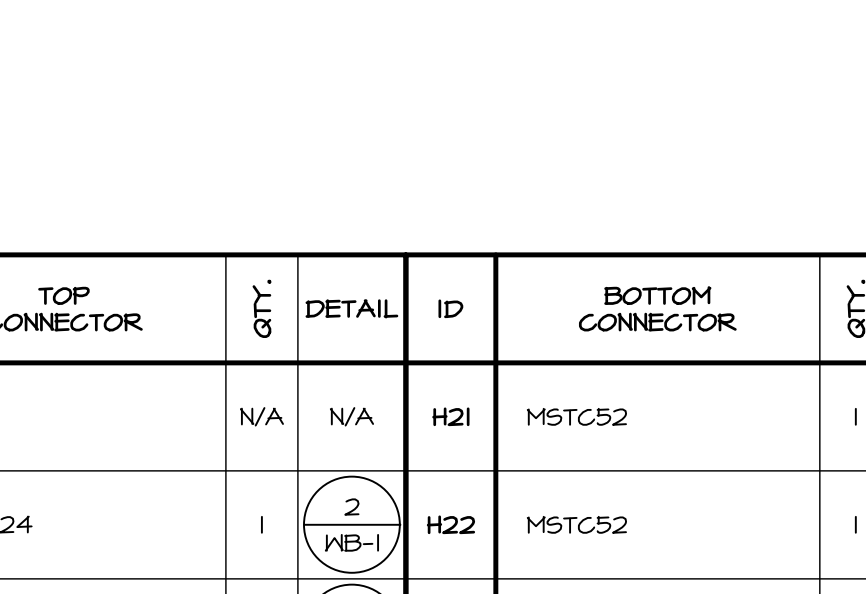


**18**  
WB-1  
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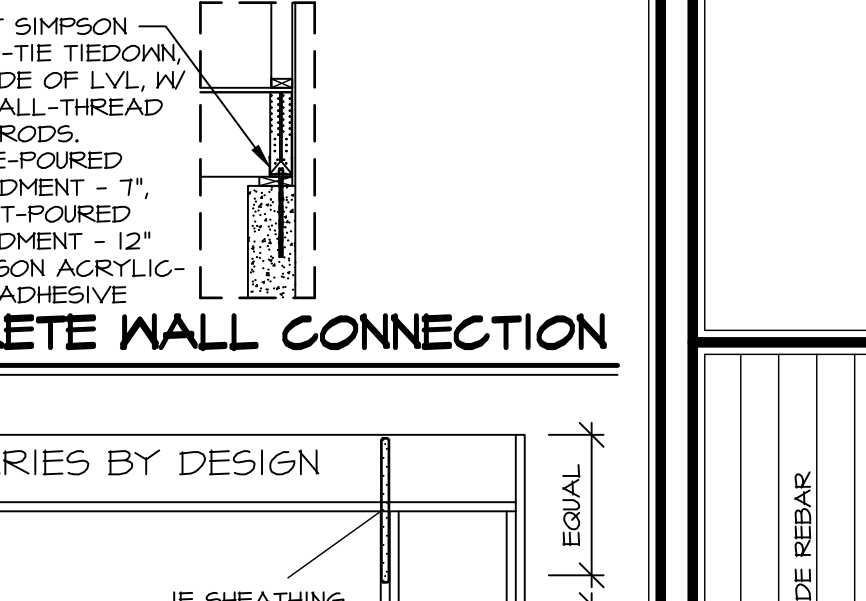


**10**  
WB-1  
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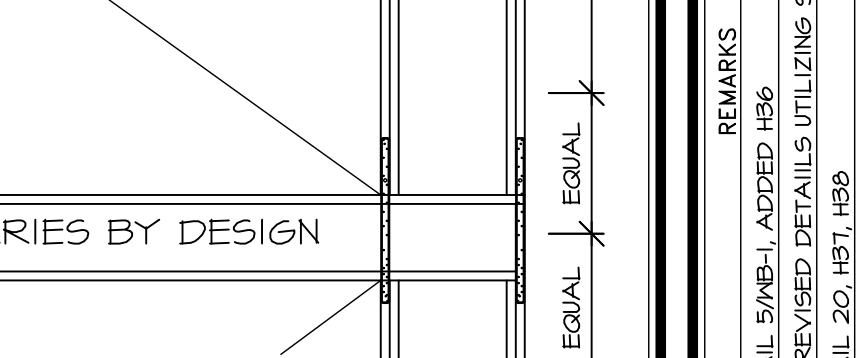
**12**  
WB-1  
SCALE 3/8" = 1'-0"



**12**  
WB-1  
SCALE 3/8" = 1'-0"

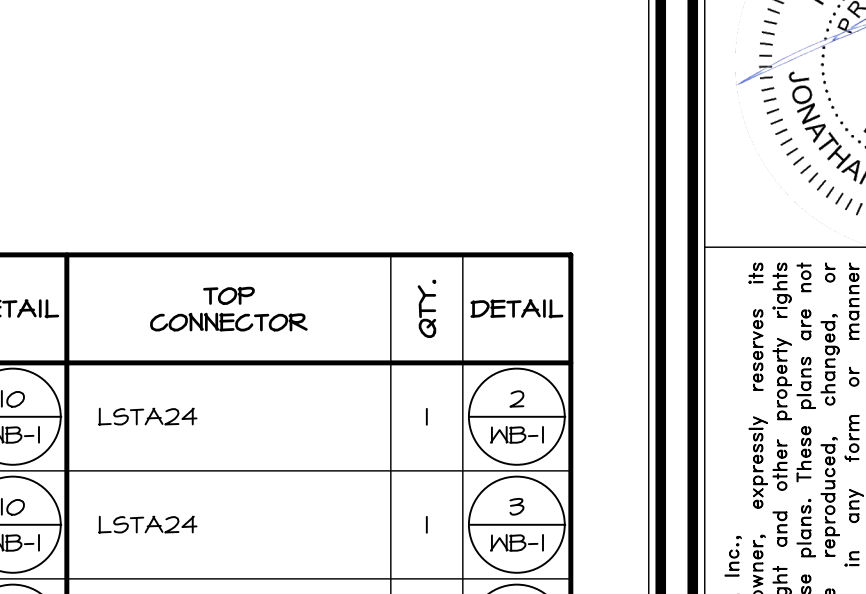


**10**  
WB-1  
SCALE 3/8" = 1'-0"



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

**12**  
WB-1  
SCALE 3/8" = 1'-0"



**12**  
WB-1  
SCALE 3/8" = 1'-0"

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	MST48	1	(4) WB-1
H4	HTT5	1	(6) WB-1	MST48	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 C/NK5/8 COUPLER	1	(7) WB-1	NONE	N/A	N/A	H26	MSTC40	1	(10) WB-1	MST48	1	(4) WB-1
H7	HTT5 5/8" A24 THR. ROD C/NK5/8 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 C/NK5/8 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 C/NK5/8 COUPLER	1	(7) WB-1	MST48	1	(4) WB-1	H29	MSTC40	1	(14) WB-1	LSTA24	1	(3) WB-1
H10	HTT5 5/8" A24 THR. ROD C/NK5/8 COUPLER	1	(7) WB-1	MSTC40	1	(5) WB-1	H30	HTT5	2	(16) WB-1	MST HTT5 5/8" A24 THR. ROD	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	MGT	2	(18) 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	MST48	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

NOTES: THREADED ROD PART INCLUDES (2) NUTS AND (2) WASHERS FOR CMU FOUNDATIONS SEE 12/FD-1.

**REVISIONS**

REV. NO.	DATE	REMARKS
18	2/6/22	RE-REVISED DETAIL 5/WB-1, ADDED H40
20	2/6/22	AD-1 - (CC #1408) REVISED DETAILS UTILIZING STUDS TO INCLUDE REBAR
21	6/14/23	AD-1 - ADDED DETAIL 21, H51
22	9/12/23	LDX - REVISED CONNECTION CHART, REMOVED PART NUMBERS
23	9/12/23	DLR - ADDED DETAIL 22, H40
24	11/1/23	ARS - ADDED INTERIOR NOTE TO H5TC66 STRAPS DETAIL #4 (ARC-1495)
25	7/10/24	ARS - ADDED DETAIL 25, H40
17	3/9/20	CEL - ADDED DETAIL 17, H40
19	1/10/20	CEL - REVISED DETAIL 19, H40

05/27/2025

**NORTH CAROLINA PROFESSIONAL SEAL 44932**

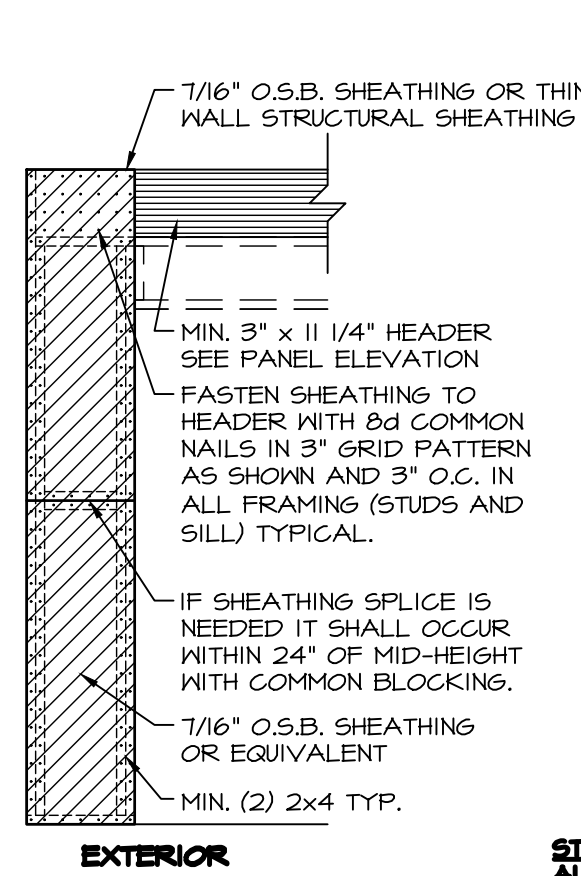
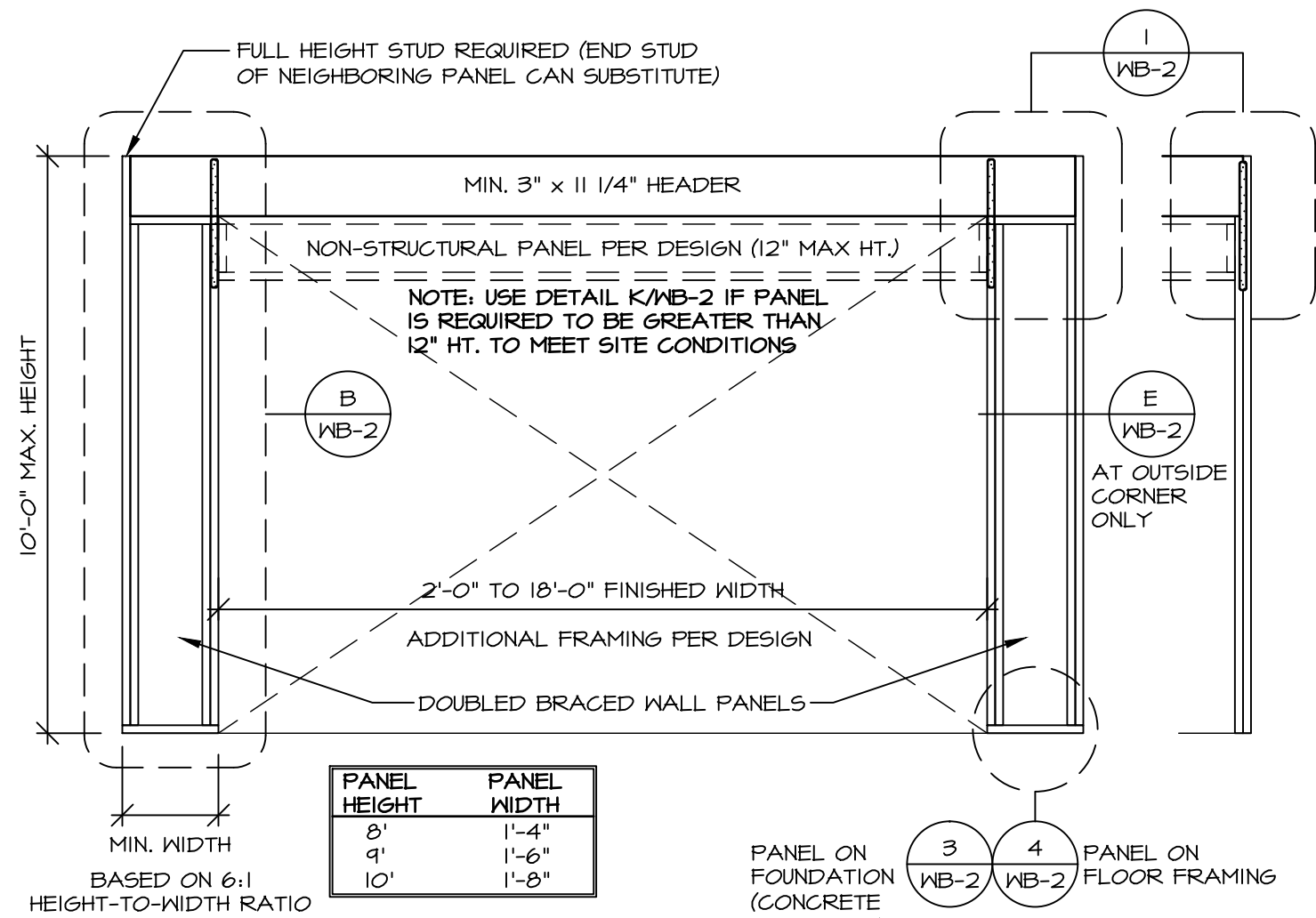
**EDWARD A. ABERTS**  
ENGINEER  
NVR, Inc.  
5285 Westview Drive, Suite 100  
Frederick, MD 21703

**NVR**  
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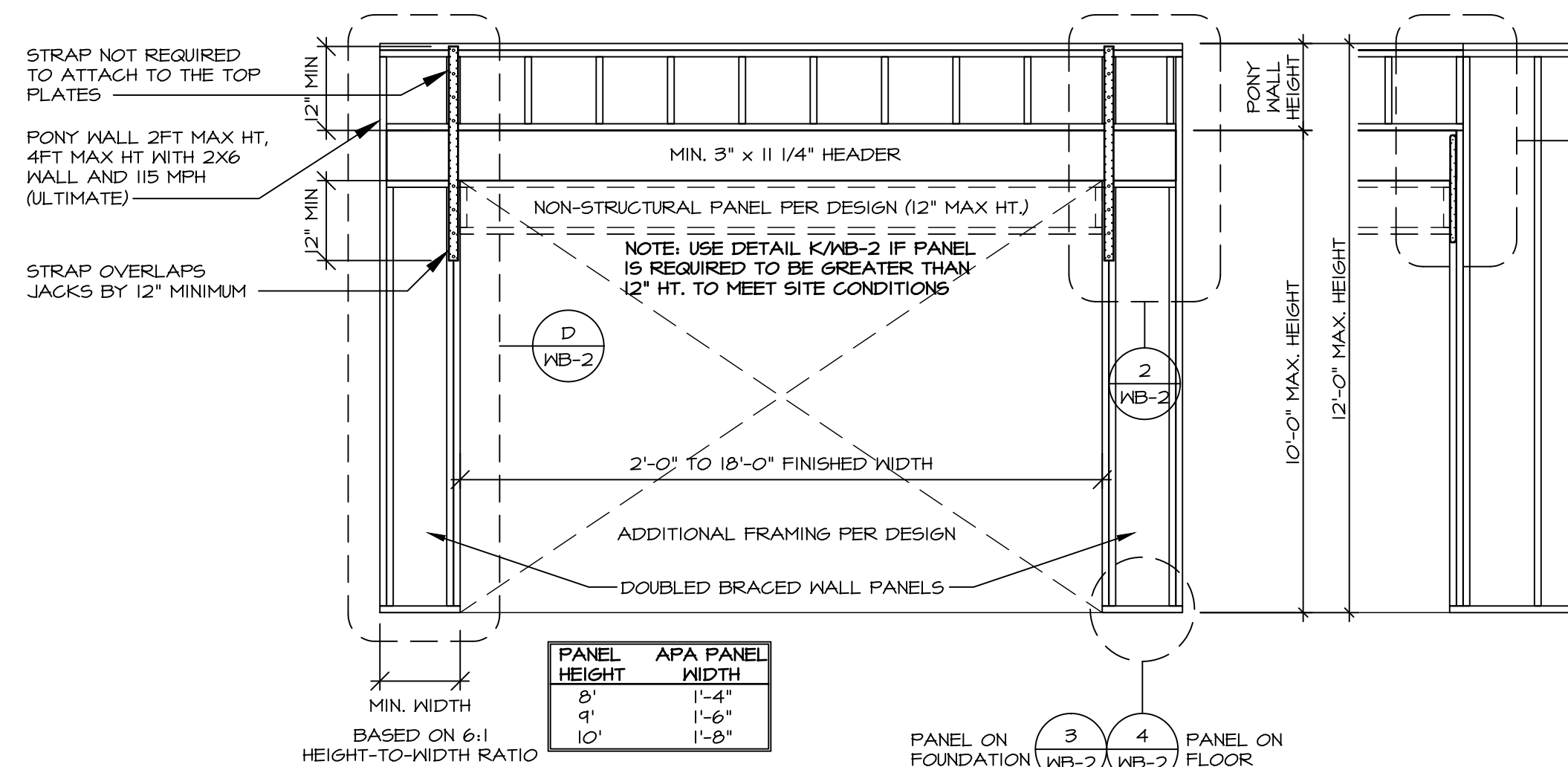
**WALL BRACING DETAILS**  
DRAWN BY KFT  
DATE: 2/16/12  
OPTION

**WB-1**  
ENGINEERED WALL BRACING DESIGN  
OPTION DESCRIPTION

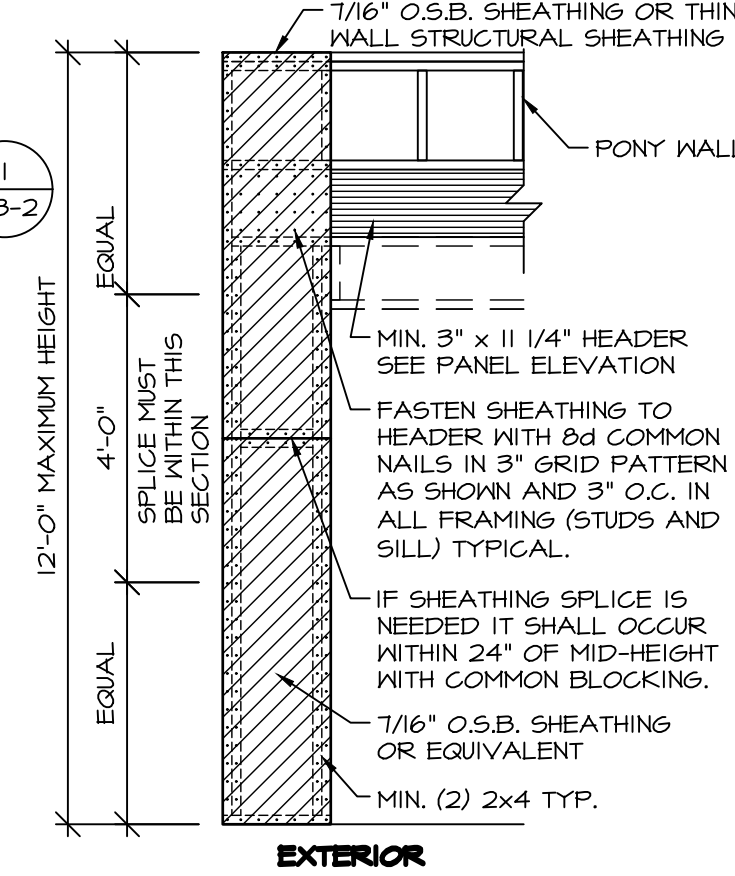




**PORTAL FRAME: SHEATHING APPLICATION DETAIL**

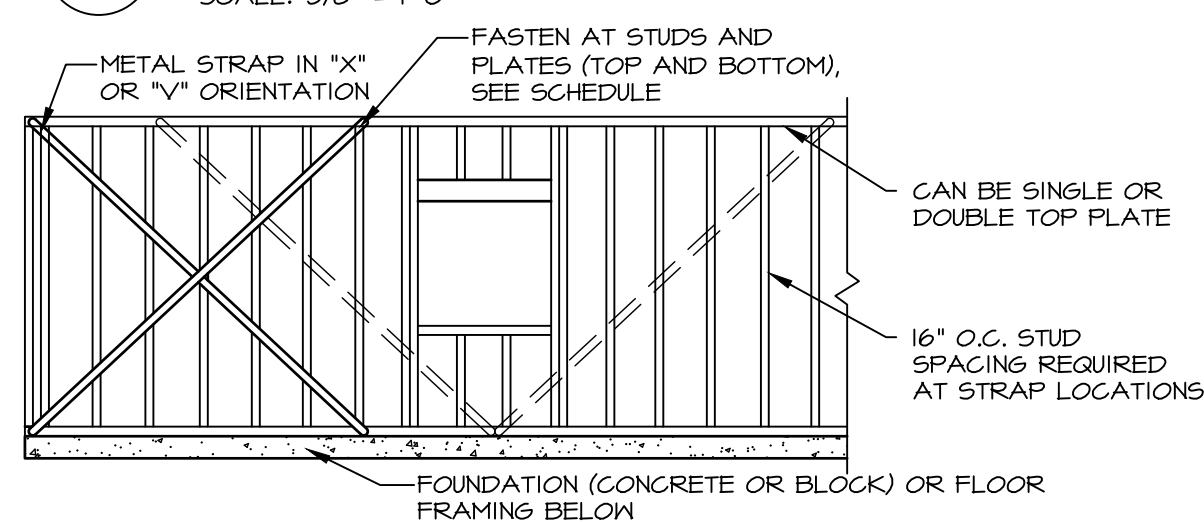


**ALTERNATE PORTAL FRAME**



**ALTERNATE PORTAL FRAME: SHEATHING APPLICATION DETAIL**

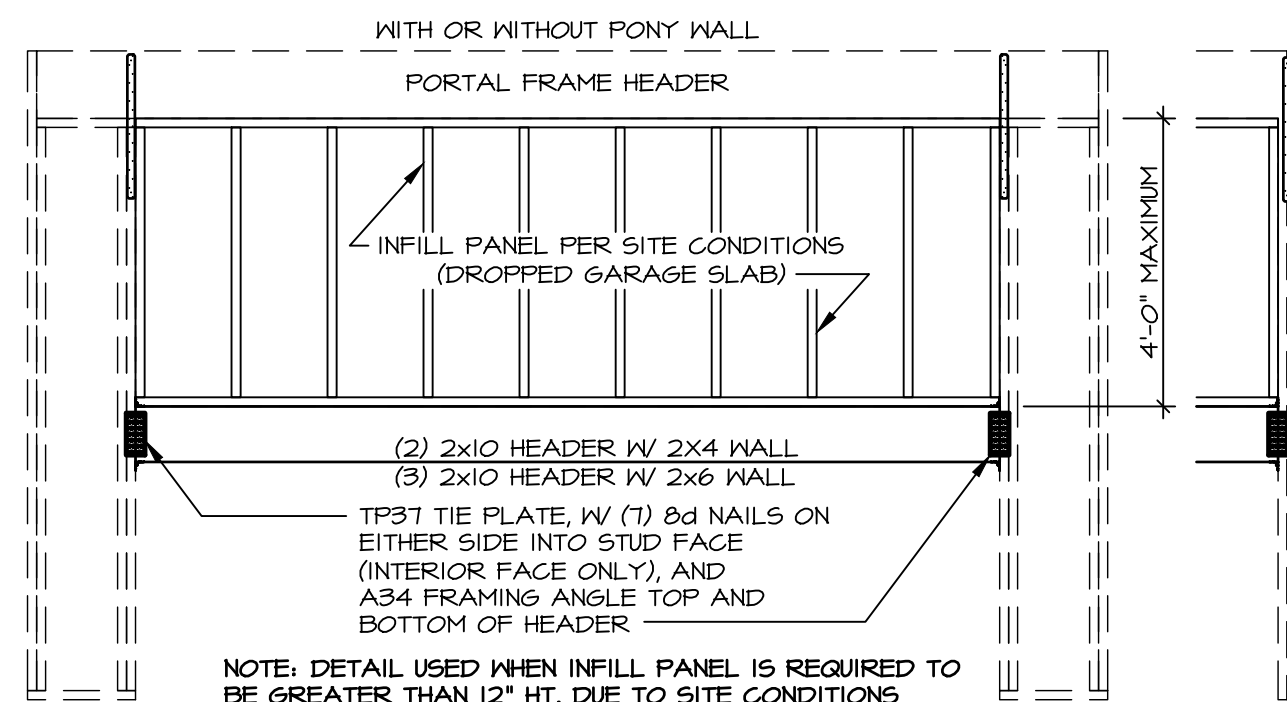
**CONTINUOUSLY SHEATHED PORTAL FRAME**



SIMPSON STRONG-TIE	FASTENERS
LIB-A = MB106	(3) 16d
LIB-B = MB126	(3) 16d (1) 8d
LIB-C = MB143G	(4) 16d

**LET-IN BRACING**

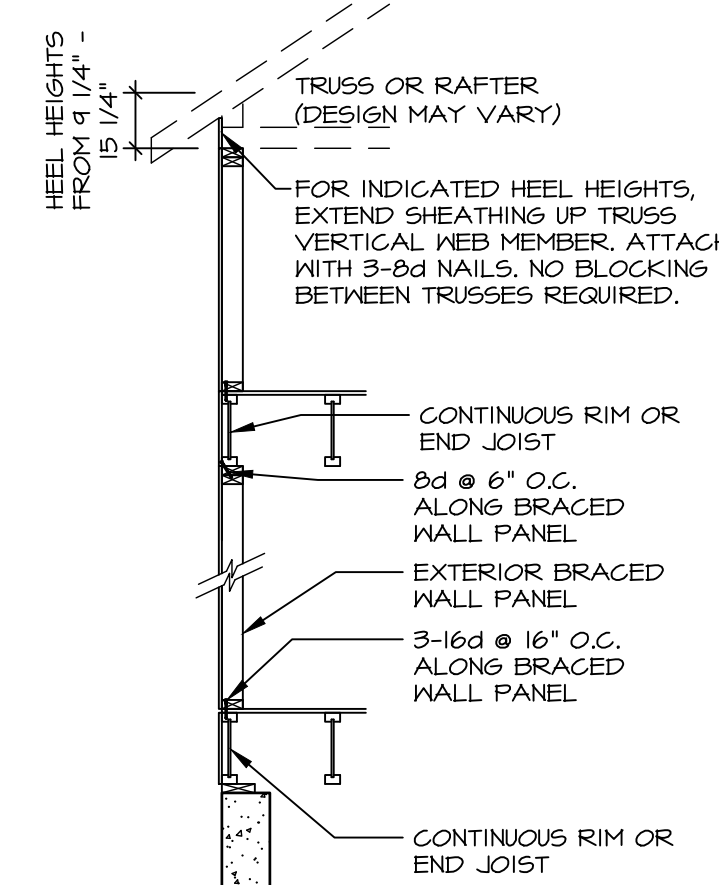
**BLOCKED WALL CONSTRUCTION**



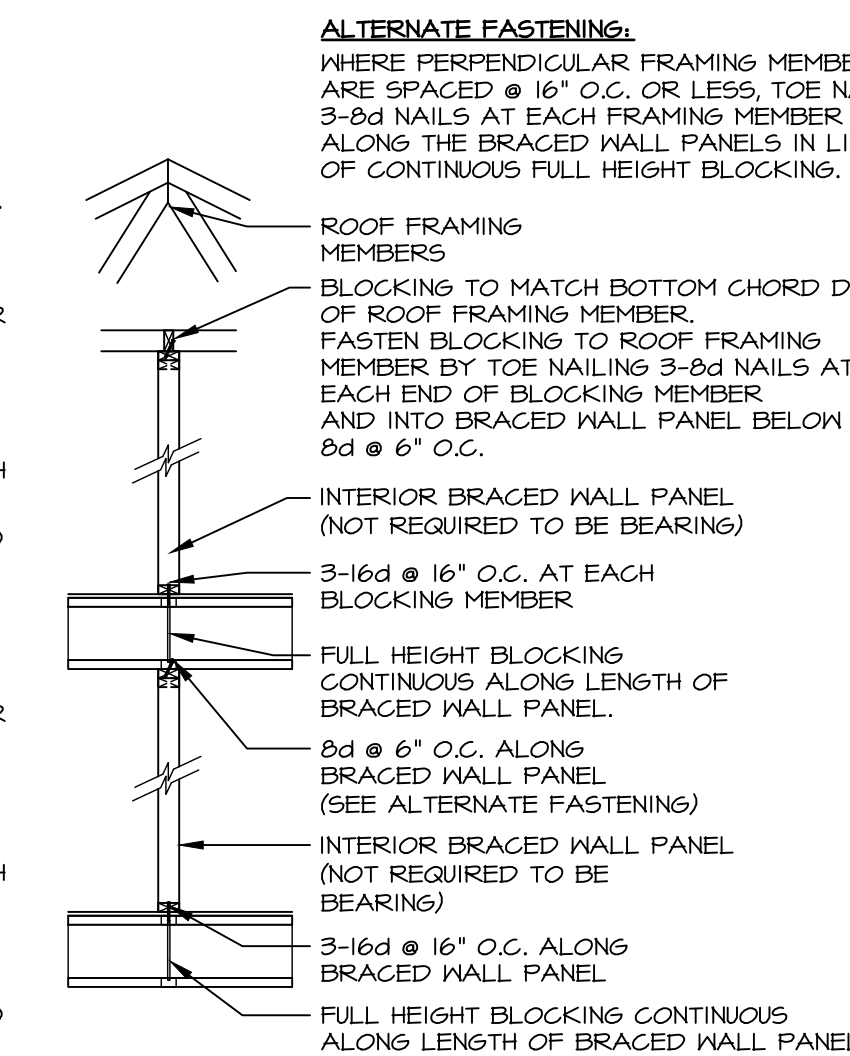
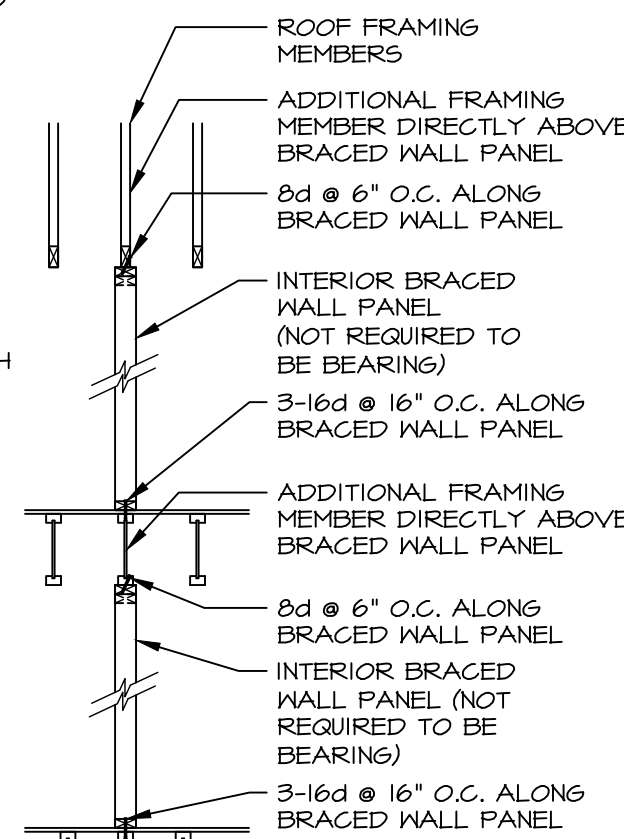
**INFILL PANEL DETAIL**

**NOTE:** FOR TRUSSES WITH HEEL HEIGHTS GREATER THAN 15'-1/4", THE INTERIOR CEILING DIAPHRAGM AND EXTERIOR SHEATHING INSTALLED ON EXPOSED TRUSS HEELS ARE USED FOR LATERAL SUPPORT.

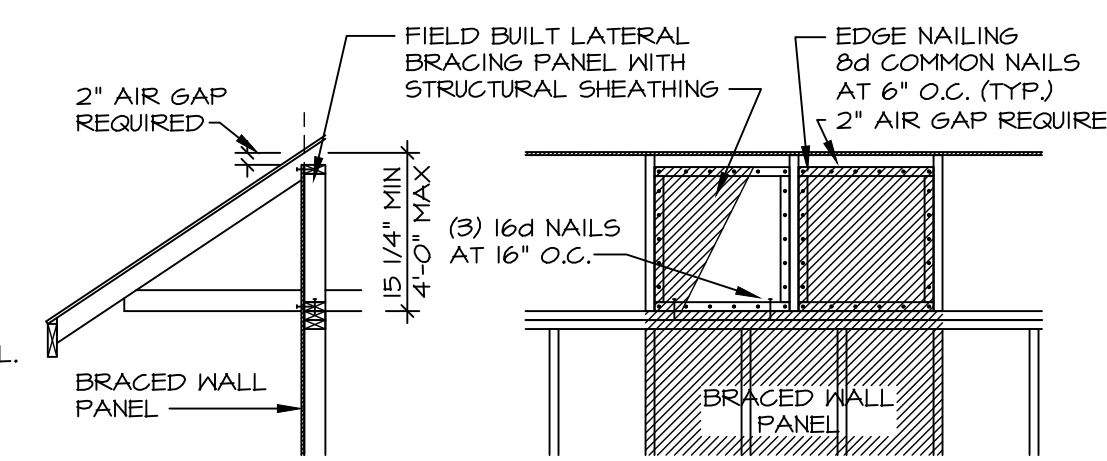
SEE ALTERNATE EXTERIOR WALL BRACING PANEL AS REQUIRED WITH CANTILEVER.



**BRACED WALL PANEL CONNECTION WHEN PARALLEL TO FLOOR/CEILING FRAMING**



**ALTERNATE EXTERIOR WALL BRACING PANEL W/ CANTILEVER**



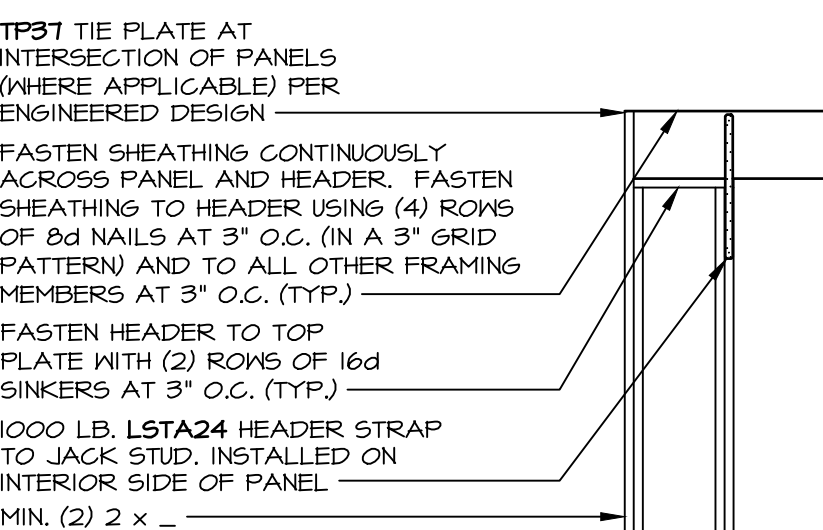
**ALTERNATE EXTERIOR WALL BRACING PANEL W/ CANTILEVER ALTERNATIVE**

**WALL BRACING PANEL CONNECTION DETAILS**

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

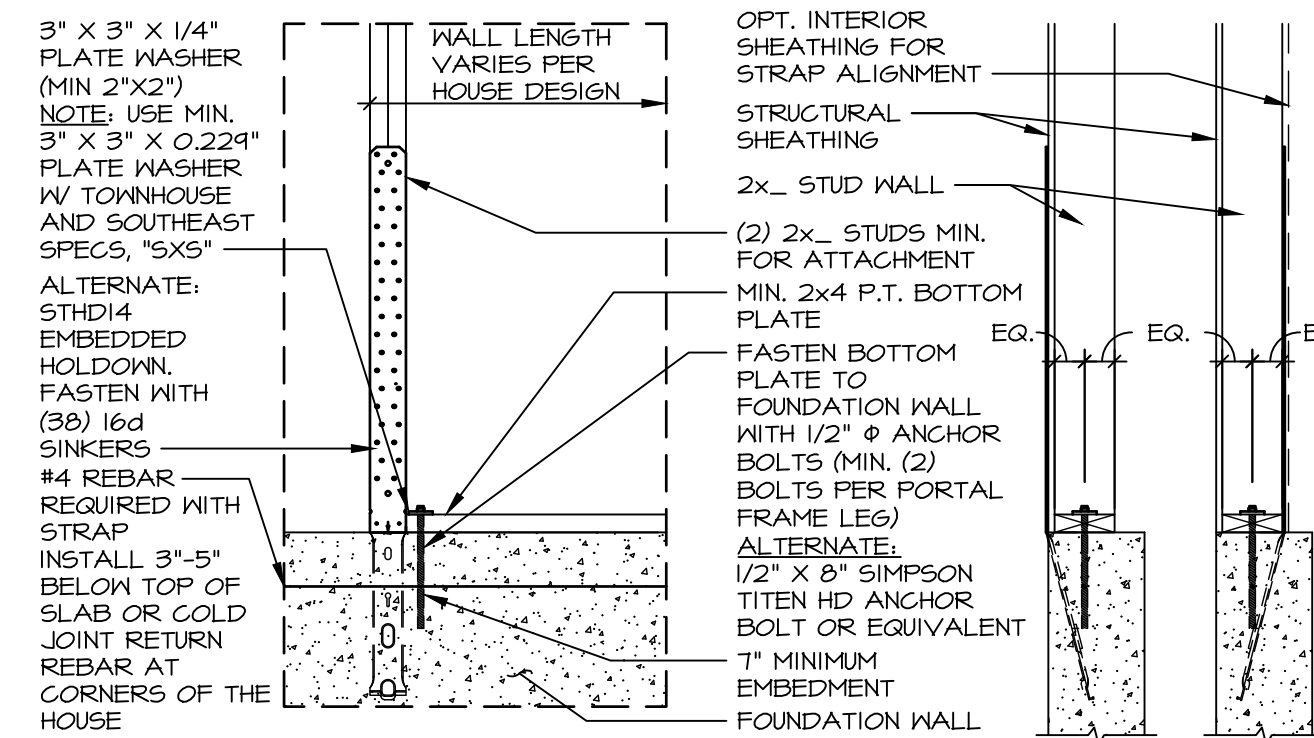
APPLIES TO I-JOIST, NOMINAL LUMBER AND FLOOR TRUSS FLOOR SYSTEMS

**NOTE:** STDH EMBEDDED HOLD DOWN FOR USE WITH POURED FOUNDATION WALLS ONLY.

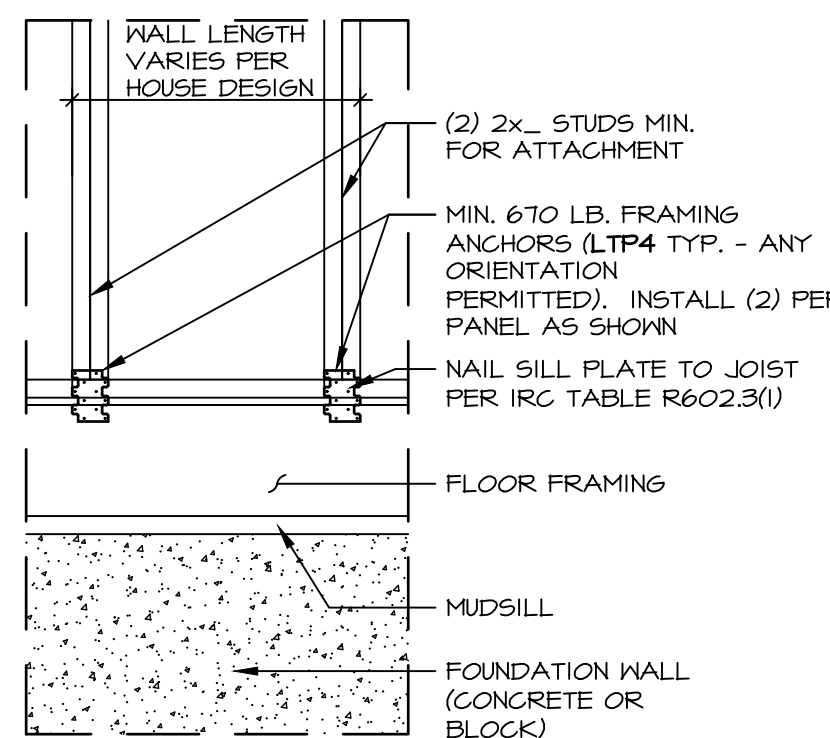


**CONTINUOUSLY SHEATHED PORTAL: TYP. HEADER / PANEL CONNECTION**

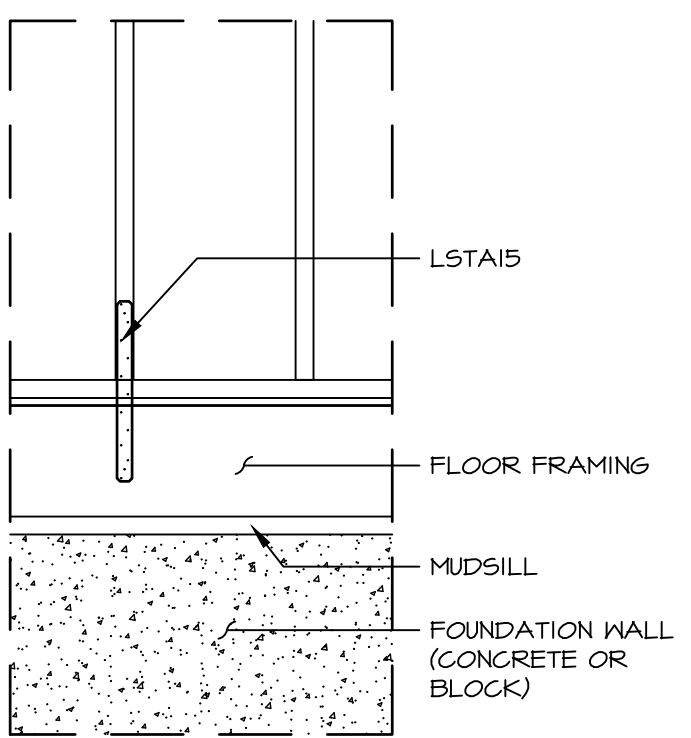
**ALTERNATE PORTAL FRAME: HEADER / PANEL CONNECTION**



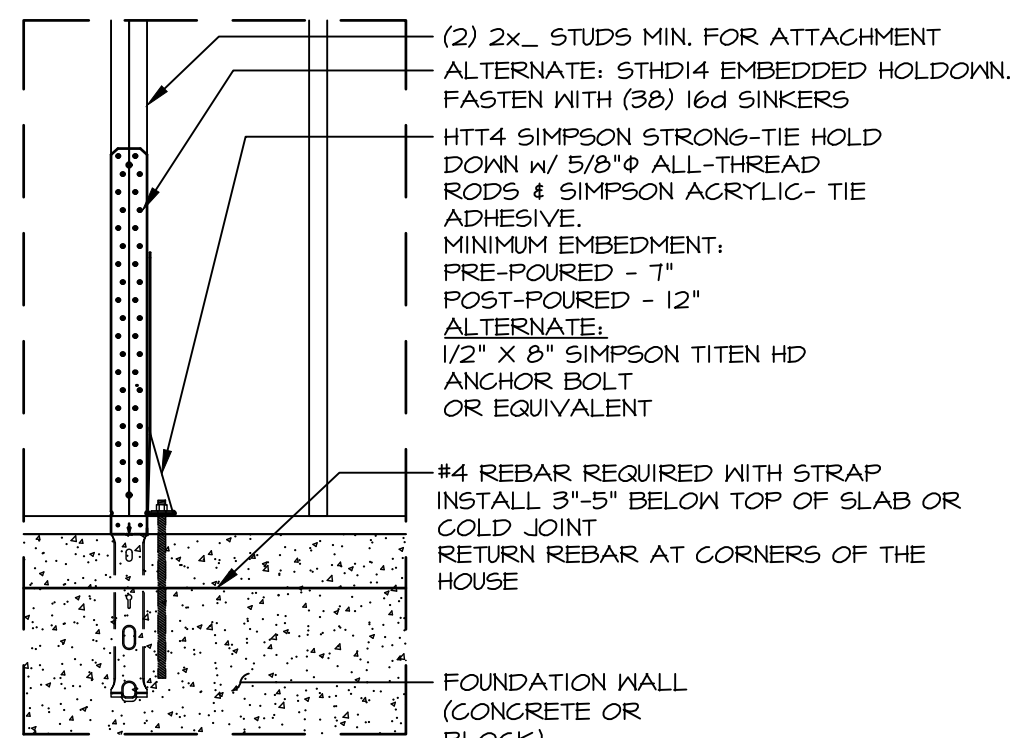
**HOLD-DOWN DETAIL: FOUNDATION**



**HOLD-DOWN DETAIL: FRAMED FLOOR**



**HOLD-DOWN DETAIL: FRAMED FLOOR**



**HOLD-DOWN DETAIL: FOUNDATION**

ID	BOTTOM CONNECTOR	QTY.	DETAIL	TOP CONNECTOR	QTY.	DETAIL
P1	3"x3"x1/4" PLATE WASHER 1/2" THREADED ROD	1	(3) MB-2	NONE	N/A	N/A
P2	3"x3"x1/4" PLATE WASHER 1/2" THREADED ROD	1	(3) MB-2	LSTA24	1	(1) MB-2
P3	3"x3"x1/4" PLATE WASHER 1/2" THREADED ROD	1	(3) MB-2	MST48	1	(2) MB-2
P4	LTP4	1	(4) MB-2	NONE	N/A	N/A
P5	LTP4	1	(4) MB-2	LSTA24	1	(1) MB-2
P6	LTP4	1	(4) MB-2	MST48	1	(2) MB-2
P7	LSTA15	1	(5) MB-2	NONE	N/A	N/A
P8	HTT4 5/8" A24 THR. ROD	1	(6) MB-2	NONE	N/A	N/A
P9	NONE	N/A	N/A	LSTA24	1	(1) MB-2
P10	NONE	N/A	N/A	MST48	1	(2) MB-2

NOTES: THREADED ROD PART INCLUDES (2) NUTS AND (2) WASHERS

**REVISIONS**

REV. NO.	DATE	DESCRIPTION
1	1/1/24	ARS - GC#503 DETAIL B REVISED STAPLE SIZE FROM 1 1/4" TO 1 3/4"
2	1/23/24	DLR - GC#1614 - REVISED DETAIL E/MB-2 CORNER DETAIL
3	3/25/25	ARS - ADDED TO DETAIL H GC-FRM-44201
4	10/5/20	CEL - REVISED MB-2 TO INCLUDE FLOOR TRUSSES
5	10/13/20	CEL - ADDED NOTES DETAILING WHEN TO USE K/MB-2
6	4/1/21	ARS - REV. DET. C PONY WALL NOTES
7	6/9/21	CEL - GC#1328 - REVISED MB-2 TO REMOVE USE OF FLAT BLOCKING
8	12/13/22	DLR - GC#16261 - REVISED PERS. WALL BRACING DET. AND ALT. FINIS. TO MB-2
9	9/1/23	DLR - GC#16628 - REVISED CONNECTOR CHART, REMOVED PART NUMBERS

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Firm License # D-5477

**SET NO.**  
VERSION  
DRAWN BY  
DATE  
OPTION

**WALL BRACING DETAILS**  
DRAWING TITLE  
PREScriptive WALL BRACING DESIGN

**WALL BRACING DETAILS**  
DRAWING TITLE  
PREScriptive WALL BRACING DESIGN

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