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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. These plans and specifications are prepared solely by, and for the exclusive use of, NVR, Inc. and are solely for a family residence consisting of eight or fewer attached units with grade level exits and which is not part of or physically connected with any other buildings or residential units. NVR, Inc. does not provide any third party the opportunity to customize these plans. The respective drawings contained herein shall be used only as construction assembly drawings by NVR, Inc. and its subcontractors. Any unauthorized use of these plans without the written consent of NVR, Inc. is prohibited.

GRAND BAHAMA

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	FC-3	FRAMING AND FASTENER DETAILS						
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	IT-2	INTERIOR TRIM DETAILS						
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	RF-1B	ROOF FRAMING DETAILS						
	RF-1C	ROOF FRAMING DETAILS						
	SEP-1	STANDARD ENERGY PACKAGE DETAILS						
	SEP-2	STANDARD ENERGY PACKAGE DETAILS						
	SEP-3	STANDARD ENERGY PACKAGE DETAILS						
	SEP-4	STANDARD ENERGY PACKAGE DETAILS						
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NVR, Inc. 5285 Westview Drive, Suite 100 Frederick, MD 21703

COVERED PORCH (ADD. SF) 140 SF COVERED PORCH 25 SF 165 SF TOTAL FINISHED SQUARE FOOTAGE RIPTION TOTAL SQ. FT.		
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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 (A-, E-, S- and M-) 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.
- 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 scale references.
- 4. Single Family Attached/Detached Automatic residential fire sprinkler systems shall be installed in accordance with NCRBC P2904 or NFPA I3D where required.
- 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 301.1.3.**

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:

 NCRC 2018, NCMC 2018, NCPC 2018, NCFGC 2018, NEC 2020 w/ NC Amendments,
- NCEC 2018, NCFPC 2018
- 2. Constr. Type: V-B
- 3. Max Stories: 3

ENERGY AND MECHANICAL

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

 $\ensuremath{\mathsf{R}}\text{-values}$ 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	CRAML 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

- 2. All HVAC equipment is sized based on ACCA Manual J calculations. Ductwork is sized using ACCA Manual D. Minimum efficiencies of equipment are as listed below. Upgrades for improved energy performance may be installed.
 - Air conditioner 14 SEER - Gas furnace - 92% / 96%
 - Heat Pump 8.2 HSPF
- 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 fo
Soffit vent:	Minimum 9.9 sq. in. of vent per linear f
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

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)

- IO# P.S.F. (Dead) Habitable Attics - 30# P.S.F. (Live)

- 30# P.S.F. (Live) - Areas up to **130 mph** ultimate wind speed per

Note: Linear interpolation between

- 10# P.S.F. (Dead) unless noted otherwise

Trusses - Areas up to 130 mph ulti Table R301.2(4)

- Exposure category 'B'
Walls - Areas up to 130 mph ultimate wind speed per

Table R301.2(4)Vult115 mph130 mphVasd89 mph101 mph

contour lines permitted.

Stairs - 40# P.S.F. (Live)
- 10# P.S.F. (Dead)

Allowable deflection of structural members per IRC Table R301.7

<u>Design Criteria</u>

Design Codes:

National Design specification for Wood Construction by National Forest

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

Materials.

Materials:
Headers* Southern Pine (KD-19), No. 1 Grade
Studs 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 (MCLIB & MMPA)

2x8 Southern Pine (KD-19), No. 1 Grade or better 2x10 Spruce-Pine-Fir (KD-19), No. 2 Grade or better (NLGA) 1.9E Minimum

* Where required, Laminated Veneer Lumber may be used per Engineering

** Structural Steel - A.S.T.M. A36

FOUNDATIONS

- I. All plain and reinforced concrete shall comply with requirements in ACI 318.
- 2. Concrete footings shall be poured a maximum 5" slump, 5 bag mix, and 2,500 psi minimum strength per **Table 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.
- 3. Walls and footings designed as unreinforced unless otherwise specified on foundation plans or details. Special soil and/or site conditions may require the addition of reinforcing.
- 4. Footing frost depth to be no less than 12" per R403.1.4 and Table R301.2(1).
- 5. Minimum Soil Bearing Capacity shall be 2,000 PSF per Table R401.4.1.6. 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 2,500 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 3,500 PSI air-entrained concrete.

Structural garage slabs utilizing grade beams shall be nominal 4" thick. Slabs shall be 3,500

PSI air-entrained concrete.

Porch slab and exterior concrete work shall be nominal 4" minimum 3,500 PSI air-entrained concrete with 6x6 WI.4xWI.4 mesh or equivalent fiber mesh reinforcement.

- 7. Unconditioned crawl spaces shall have a minimum net area of ventilation not less than I square foot for each 150 square feet of area, unless the ground surface is covered by a Class I vapor retarder, in which case the minimum net area of ventilation shall not be less than I square foot for each 1,500 square feet of area. One such ventilating opening shall be within 3 feet (914 mm) of each corner of the building, per R408.1.2.
- 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.
- 9. The top course of block of foundation walls shall be semi-solid block or open cores of hollow block shall be filled with mortar.
- 10. Block piers to be solid block or mortar-filled hollow block.
- II. A poured concrete foundation wall designed to withstand an equivalent fluid weight of 30# per cubic ft. may be substituted where masonry units (block) are shown on plans.
- 12. Concrete and masonry foundation walls shall be dampproofed with min. 3/8" portland cement parging from footing to top of finished grade. The parging shall be covered with a coat of approved bituminous material applied at the recommended rate per R406.1.
- 13. Where required, concrete and masonry foundation walls shall be waterproofed with an approved membrane extending from footing to top of finished grade. The joints in the membrane shall be lapped and sealed with an adhesive compatible with the waterproofing membrane. Waterproofing to be in accordance with R406.2.
- 14. Reserved for future use.
- 15. Foundation framing anchors shall be 1/2"x18" anchor bolts with 7" minimum embedment or Simpson Strong-Tie MASA / USP FA3 (16 gauge steel, galvanized) or equivalent set in concrete or grouted cell, 1'-O" maximum from corners and spaced at a maximum of 6' o.c. and in the middle third of the width of the plate. For walls connecting offset braced wall panels, those 24" in length or shorter shall have min. (1) anchor strap and those 12" or shorter can be installed without anchor straps. Townhouses in seismic design category "C" shall require a .229" x 3" x 3" plate washer per **R403.1.6.1** and maximum anchor bolt spacing for buildings over two stories shall be 4'.
- 16. Steel columns and bases shall be given a shop coating of rust-inhibitive paint or equivalent to provide corrosion resistance per R407.2.
- 17. For masonry veneers:

Per **R703.8.4.1** - 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 (9144 mm) on center and placed within 12 inches (305 mm) of the wall opening.

Per R703.2 - One layer of No. 15 asphalt felt or other approved water-resistive barrier shall

be provided behind brick.

Per **Table R703.8.4** - Provide minimum I-inch air space between brick veneer and sheathing.

Per **R703.8.6** - Provide minimum 3/16" diameter weep holes at 33" on center maximum, located

Per **R703.8.5** - 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.

18. Reserved for future use.

immediately above the flashing.

19. 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®

NCRBC PRESCRIPTIVE CODE OR ENGINEERED DESIGN PER ACI 332

WALL HEIGHT	WALL THICKNESS	LATERAL SOIL LOAD (a)	UNBALANCED FILL	VERTICAL REINFORCING (b)	HORIZONTAL REINFORCING (b)
		45	6'-0"	NOT REQUIRED	2- #4 BARS (f)
	න"	45	7'-0"	NOT REQUIRED (d)	3- #4 BARS (d,e)
	8	60	6'-0"	NOT REQUIRED (d)	3- #4 BARS (de)
8'-O"		00	7'-0"	#4 @ 22" O.C. (d)	3- #4 BARS (d,e)
<i>8-</i> 0		45	6'-0"	NOT REQUIRED	2- #4 BARS (f)
	10"	45	7'-0"	NOT REQUIRED	2- #4 BARS (f)
	10	60	6'-0"	NOT REQUIRED	2- #4 BARS (f)
		7'-0" NOT REQUIRED		NOT REQUIRED	2- #4 BARS (f)
		45	7'-0"	NOT REQUIRED (d)	4- #4 BARS (d,e)
	8"		8'-0"	#4 @ 19" O.C. (d)	4- #4 BARS (d,e)
	•		7'-0"	#4 @ 19" O.C. (d)	4- #4 BARS (d,e)
q'-0"		60	8'-0"	#4 @ 15" O.C. (d)	4- #4 BARS (d,e)
		4E	7'-0"	NOT REQUIRED	3- #4 BARS (g)
	IO"	45	8'-0"	NOT REQUIRED (d)	4- #4 BARS (d,e)
	10	60	7'-0"	NOT REQUIRED (d)	4- #4 BARS (d,e)
		60	8'-0"	#4 @ 19" O.C. (d)	4- #4 BARS (d,e)

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.

- a. SOIL CLASSES GM, GC, SM, SM-SC AND ML 45 PSF
- SOIL CLASSES SC, MH, ML-CL AND CL 60 PSF

HORIZONTAL BARS.

- b. SPACING SHOWN IS BASED UPON Fy = 60,000 PSI STEEL FOR Fy = 40,000 PSI STEEL, REDUCE SPACING BY 0.67
- c. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF NOT LESS THAN 3000 PSI d. ENGINEERED DESIGN PER ACI 332-14, REQUIREMENTS FOR RESIDENTIAL
- CONCRETE CONSTRUCTION

 e. FOR ALL WALL HEIGHTS, ONE HORIZONTAL BAR SHALL BE LOCATED WITHIN THE TOP 24", ONE IN THE BOTTOM 24" WITH THE REMAINING BARS EQUALLY SPACED. MAINTAIN 2" OF CONCRETE COVER BETWEEN INSIDE FACE OF WALL AND FACE OF
- F. ONE BAR WITHIN 12" OF TOP AND AT MID-HEIGHT OF WALL PER TABLE R404.1.2(1).
- g. ONE BAR WITHIN 12" OF TOP AND ONE EACH AT THIRD POINT OF WALL HEIGHT PER TABLE 404.1.2(1).

PLANS

- I. Habitable attics and sleeping rooms shall have a window or door as a second means of egress that shall be minimum 5.7 sq. ft. openable area (5.0 sq. ft. if at grade level) with maximum sill height 44" above finish floor (min. hqt. 24", min. width 20") per R310.1.
- 2. All emergency escape and rescue openings shall have a minimum net clear openable area of 4 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 9 sq ft and a minimum horizontal projection and width of 36". Wells with a greater depth of 44" shall have permanently affixed ladder or steps per R310.2.3.1.
- 3. Clear opening heights for exterior doors to be 6'-6" minimum per R311.2. All interior doors providing egress from habitable rooms shall have nominal minimum dimensions of 2'-6" by 6'-8" per R311.6.1. Habitable rooms with double doors less than 5'-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.
- 4. Sliding glass drs/patio drs/wdws must be safety glazed per R308.4.
- 5. Interior stairway shall have minimum head room of 6'-8" per 311.7.2 and minimum tread depth of 9" and maximum riser height of 8 1/4". Handrails are required for stairs with four or more risers and shall have minimum height of 34" and maximum height of 38" above treads and landings. Handrail to have maximum 4 1/2" projection into width of stair per Section 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
- 6. Guard rails to have minimum height of 36" and shall not have openings from the walking surface to the required guard height which allow passage of a sphere 4 inches in diameter per R312.
- 7. The triangular openings at the open side of stair, formed by the riser, tread and bottom rail of a guard, shall not allow passage of a sphere 6 inches (153 mm) in diameter per R312.1.3.
- 8. Where exterior landings or floors serving the required egress door are not at grade, they shall be provided with access to grade by means of a a stairway in accordance with Section R311.7 (see item #5 above) or a ramp in accordance with Section R311.8.
- 9. Handrails shall be installed on exterior stairs having (4) or more risers per R311.7.8. Guards shall be installed at exterior porches / decks that are located more than 30 inches (762 mm) measured vertically to the floor or grade below at any point within 36 inches (914 mm) horizontally to the edge of the open side. Insect screening shall not be considered as a quard.
- IO. All flashing used (including at windows, doors, and with stone or masonry veneer) shall be corrosion-resistive per **R703.4.** See NVR Flashing Details.
- II. Wood framed bearing walls shall 2×6 at 24" o.c. maximum or 2×4 at 16" o.c. maximum per **Table R602.3(3)** and **Table R602.3(5)** unless otherwise noted on plans.
- 12. All exterior sheathing to be structural sheathing designed in accordance with R602.10.

All screws shall be corrosion-resistant Type W 1-1/4" drywall screws.

- 13. An approved water-resistive barrier shall be applied over sheathing of exterior walls per Section R703.2.
- 14. Interior sheathing shall be 1/2" gypsum wall board unless otherwise noted. Exceptions may include, but are not limited to, special requirements for wall bracing and fire separation.
- 15. Screw fastening is typical for gypsum installation and nailing will only be permitted at the perimeter of the board.

SCREW FASTENING SCHEDULE						
MI	TH ADHESIVE					
Ceilings	Load-brg. walls	Non-load-brg. walls				
ng Ceilings Load-brg. walls Non-load-brg. walls 16 24 24						
16	16	24				
MIT	HOUT ADHESIVE					
Ceilings	Load-brq. walls	Non-load-brq. walls				
12	16	16				
12	12	12				
	WIII Ceilings 16 16 WITH Ceilings	WITH ADHESIVE Ceilings Load-brg. walls 16 24 16 16 WITHOUT ADHESIVE Ceilings Load-brg. walls 12 16				

- · 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.
- 17. 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 R302.6.. 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.
- 18. Asphalt shingles shall be installed per section R905.2. For roof slopes of 2:12 through 4:12, in lieu of two layers of underlayment, a self-adhering polymer-modified bitumen underlayment shall be used per section R905.1.1 Exception #1.
- 19. Attic spaces shall be ventilated w/ ridge and soffit vents unless otherwise noted. Venting provided per
- 20. Fireblocking shall be installed between ceiling and floor openings per R302.II. Draftstopping to be installed in accordance with R302.I2.
- 21. Water closet, lavatory or bidet shall not be set closer than 15 inches from its center to any side wall, partition or vanity or closet than 30 inches center-to center- between adjacent fixtures. There shall be a clearance of not less than 21 inches in front of the water closet, lavatory or bidet to any wall, fixture or
- 22. Heating and cooling equipment installation shall be in accordance with IRC Chapter 14 and the International Mechanical Code.
- 23. Mechanical fireplaces shall be installed per Section RIOO4 and IOO5.
- 24. Single family attached structures to have 2-hour dwelling unit separation wall continuous to roof deck. Roofing material to be minimum class "C" over approved fire retardant wood decking extending 4' each side of dwelling unit separation wall per R302.2 and R302.3.
- 25. Untreated wood shall be minimum 8" above finish grade per R317.1 Item #2.
- 26. Bottom plates on slabs and any wood in contact w/ concrete or masonry to be pressure treated material per Section **R317.**
- 27. Exterior egress swing doors shall open onto a landing not more than 8 1/4" below the top of the threshold when door swings in and 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
- 28. Air exhaust and intake openings that terminate outdoors shall be protected with corrosion-resistant screen, louvers, or grills having a min. opening size of 1/4" and maximum of 1/2" in any dimension per R303.6.
- 29. Fasteners and connectors for pressure preservative-treated wood shall be hot-dipped galvanized steel.
- 30. Windows that have an operable opening more than 72" above finished grade or surface below, the lowest part of the clear opening of the window shall be a minimum of 24" above the finished floor of the room in which the window is located. Glazing between the floor and 24" shall be fixed or have openings through which a 4" dia. sphere cannot pass per **Section R312.2.**
- 31. The final grade shall fall a minimum of 6 inches within the first 10 feet of the foundation per R401.3.
- 32. One- and two-family dwelling construction (R302.1.1):
- 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

Vinyl or aluminum soffit material shall be securely attached to framing members and use an underlayment

- Projections extending into the fire-separation distance shall have not less than I-hour fire-resistive construction on the underside. Vinyl or aluminum soffit material shall be securely attached to framing members and use an underlayment material of either fire retardant treated wood, 3/4-inch wood sheathing or 5/8-inch gypsum board. Venting requirements shall apply to both soffit and underlayment. Vents shall be 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.
- 33. I-hour fire-rated construction required on projections within 2' to 3' of lot line per R302.I. No projections allowed within 2' of property line.
- I-hour fire-rated construction required on townhouse eaves within 3' of the property line.
- Note: Single Family Detached product will NOT be built within 3' of the property line.

 34. Wall bracing is designed in compliance with Section R602.10. When wall bracing is beyond the criteria for a prescriptive approach, the structure is analyzed utilizing engineering in compliance with the North Carolina Building Code (NCBC). Refer to house-specific wall bracing detail sheets and wall bracing standard details. Adhesive attachment of wall sheathing, including Method GB, shall not be permitted in Seismic Design Category C.
- 35. Minimum floor sheathing shall be 5/8" 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
- 3. Approved smoke detectors shall be installed in each sleeping room; outside each separate sleeping area in the immediate vicinity of the bedrooms; and on each additional story of the dwelling, including basements and habitable attics but not including crawl spaces and uninhabitable attics. Where more than one smoke detector is required, the devices shall be interconnected in such a manner that the actuation of one alarm will activate all of the alarms in the individual unit. All smoke detectors shall receive their primary power from the building wiring and be equipped with a battery backup.
- 4. 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.
- 5. Interior stairs shall be provided with an artificial light source in the vicinity of each landing or directly over each stair section and capable of illuminating treads and landings to a level not less than Ifc measured at the center of the tread or landing per R303.7.
- 6. Outlets within 6' of a sink must be GFI protected.
- 7. An approved carbon monoxide alarm shall be installed outside of each separate sleeping area in the immediate vicinity of the bedrooms. Where a fuel-burning appliance is located within a bedroom or its attached bathroom, a carbon monoxide alarm shall be installed within the bedroom. **R315.3.**
- 8. Outlets installed in laundry areas must be GFI protected.

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specifications.

seals are not require

NVR - Business Use Only

NVR ROOF VENTILATION CALCULATIONS GRAND BAHAMA

GBH00_01

SOFFIT: 9.9 sq in of vent per If

RIDGE: 18 sq in of vent per If

BOX / GABLE VENT: 45 sq in of vent per unit HOUSE NAME HOUSE VERSION **VENTILATION VALUES** | Required: Required: A/300 | A/300 |

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NVR

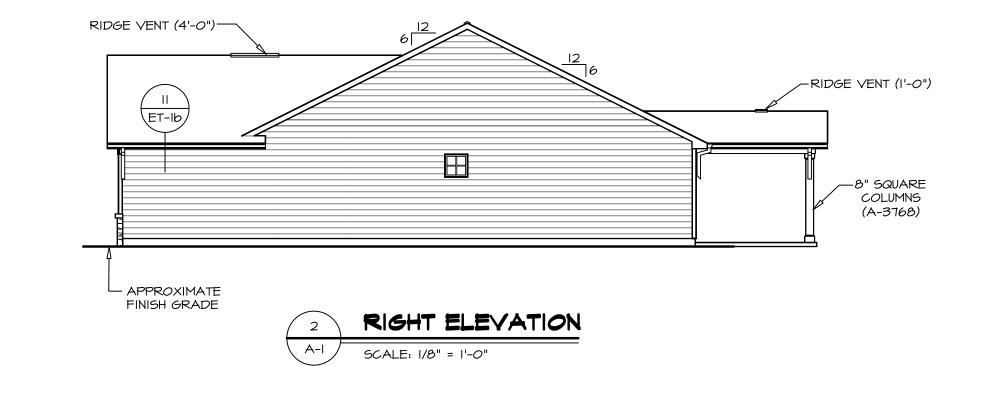
Version 2.0 (Last Revised 04/26/19)

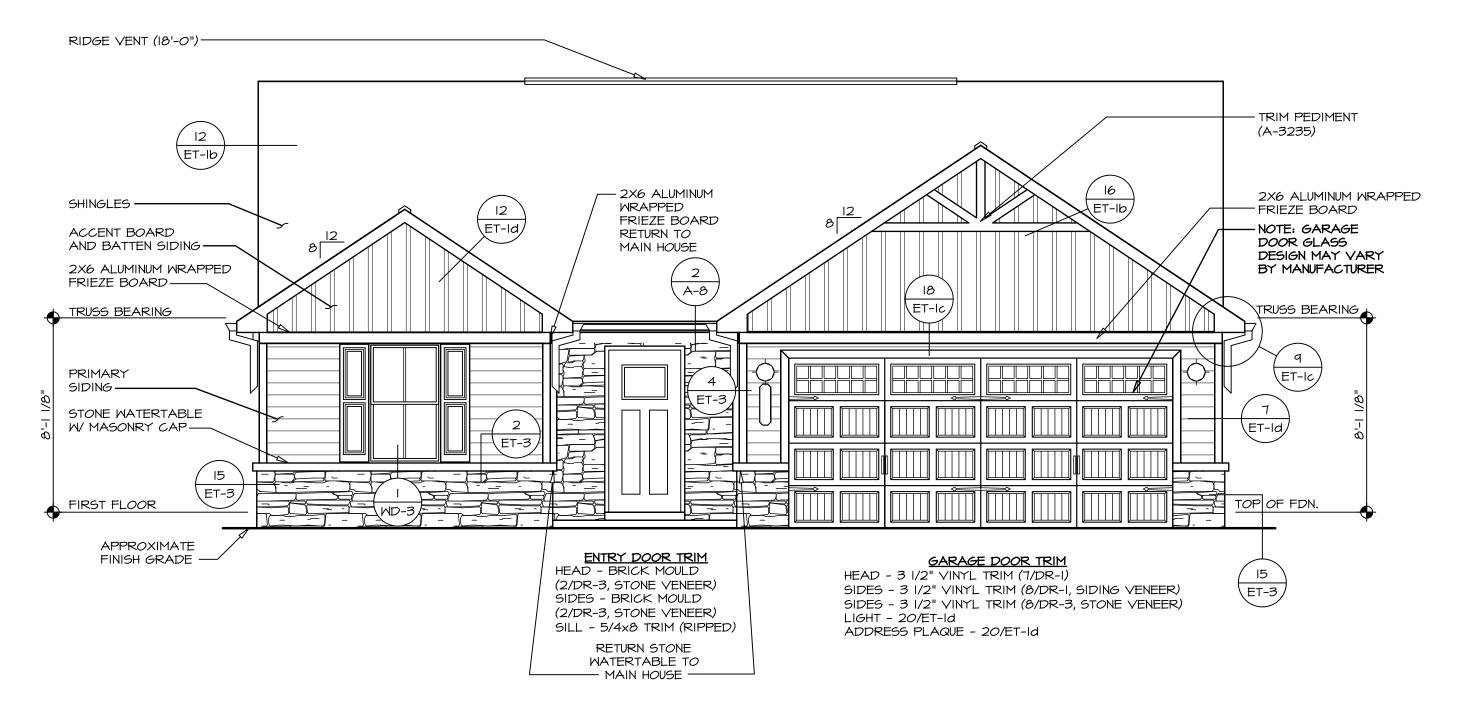
HOUSE VOLUME CALCULATIONS				
HOUSE NAME	GRAND BAHAMA			
HOUSE VERSION	GBH00 / 01			
PRODUCT LINE	RYANHOMES			

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

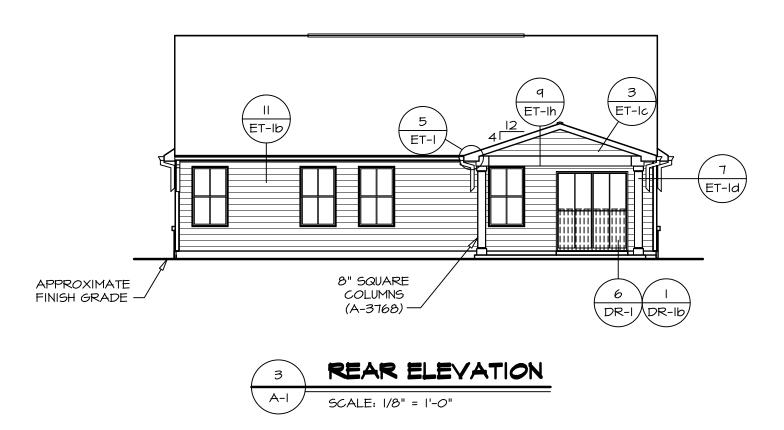
	ELEVATION "K",	"L"	
Location / Area of house	Floor Area (sq. ft.)	Mean height (ft.)	Total volume (cu. Ft.)
Main section of the house	1524.01	12.80	19511
Gable at front of the house	70.50	10.05	708
Garage bump out from main house	197.50	10.53	2079
		Total House Volum	e 22298
Additional areas of vo	lume to be added to	total house volum	ne as needed
	lume to be added to	total house volum	ne as needed Total volume (cu. Ft.)
Additional areas of vo Location / Area of house / option Covered Porch "EPE"			
Location / Area of house / option	Floor Area (sq. ft.)	Mean height (ft.)	Total volume (cu. Ft.

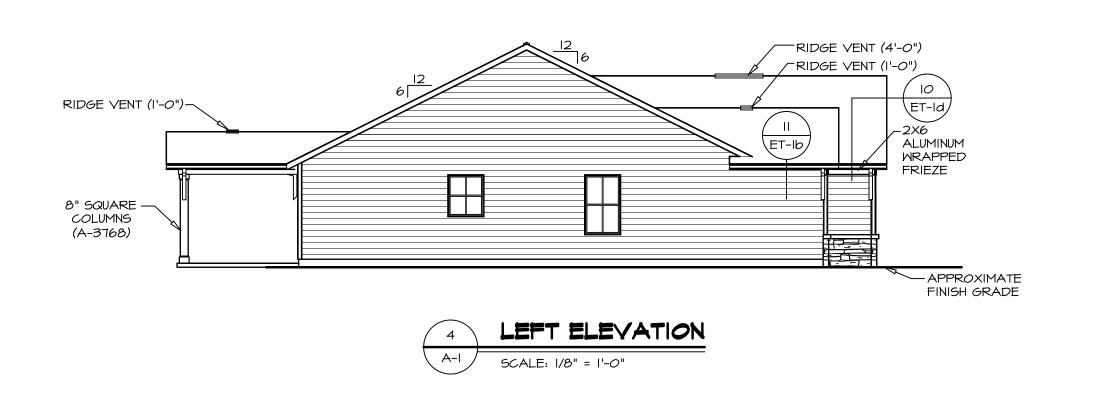
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GRAND

DRAWING TITLE

ELEVATIONS

FOOTING/THICKENED SLAB SCHEDULE							
IDENTIFIER	LENGTH	MIDTH	HEIGHT	ENG. NUM.	REMARKS		
F007	F007 2'-0" 1'-0" 50001						
F007 2'-0" 1'-0" 50002							
F008	2'-0"	2'-0"	1'-0"	50001			

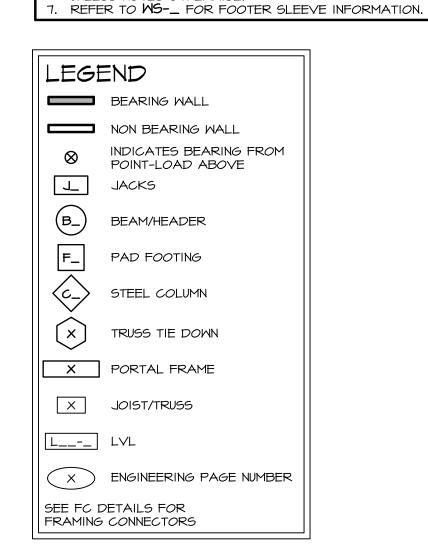
i	FOUNDATION DIAGONALS								
	A B								
А	0"	Α	40'-2 3/8"						
В	B 40'-2 3/8"		0"						
C	C 20'-4 3/4"		20'-0"						
D	D 59'-5 9/16"		48'-0"						
E	44'-0"	E	62'-5 3/ 6"						

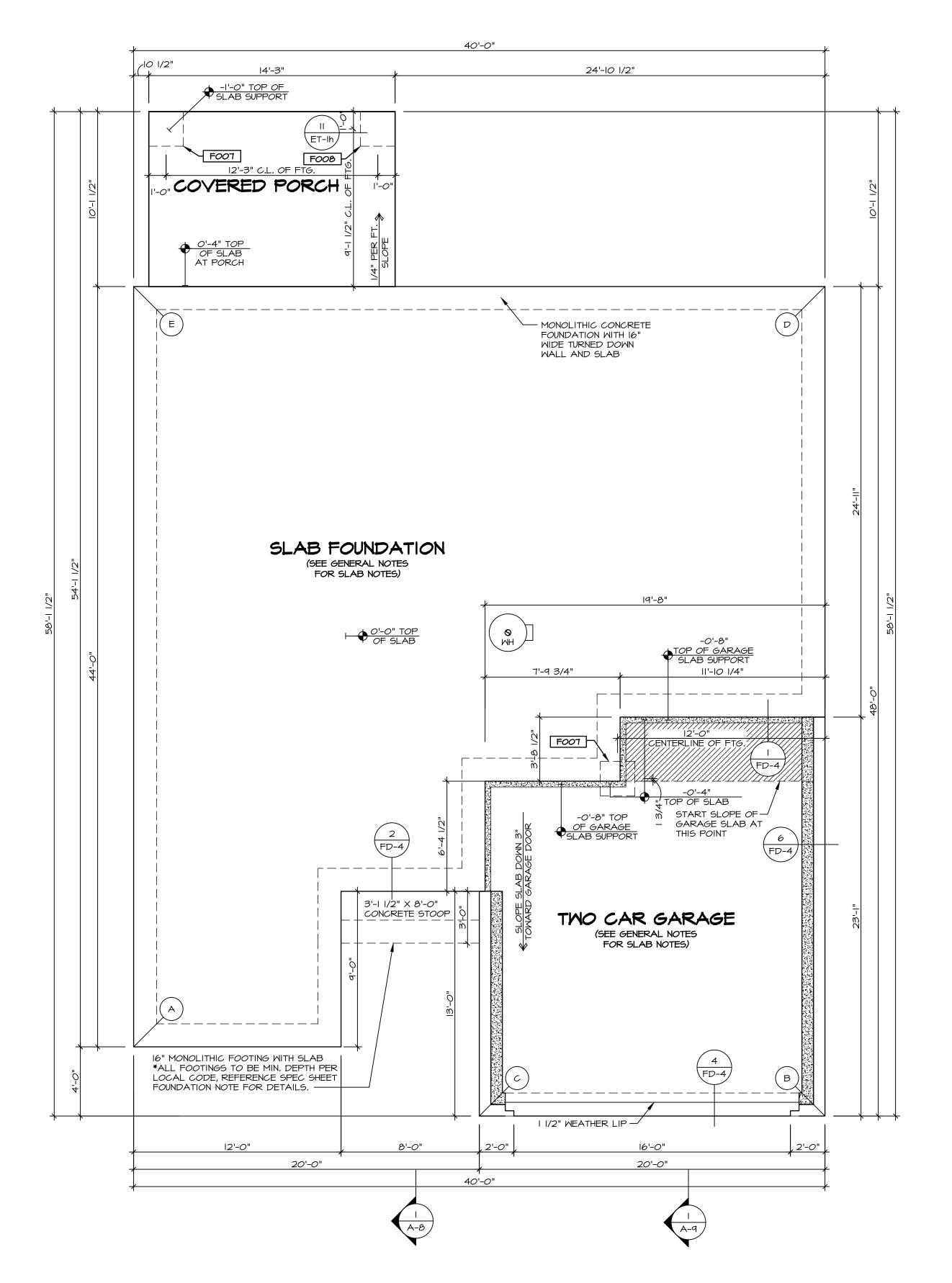
FOUNDATION NOTES - SLAB

- SEE STANDARD DETAIL CATEGORY "FD" SHEET(S).
 I.I. CONCRETE SLAB ON VAPOR BARRIER OVER
 SUB-BASE (SEE SPEC SHEET FOR SLAB NOTES)
- FOUNDATION UNDER GARAGE:
 UNEXCAVATED WITH CONCRETE SLAB ON VAPOR
 BARRIER OVER SUB-BASE (SEE SPEC SHEET FOR
 SLAB NOTES) OR
- 2.2. STRUCTURAL CONCRETE SLAB ON VAPOR BARRIER
 OVER SUB-BASE (SEE SPEC SHEET FOR SLAB NOTES)

 3. SEE EQUIDATION HOLD DOWN SHEET FOR CONNECTION
- 3. SEE FOUNDATION HOLD DOWN SHEET FOR CONNECTION INFORMATION.
- 4. SLAB LEDGE LOCATIONS VARY W GRADE BEAM(S) ORIENTATION. SEE GB-I FOR DETAILS.
- 5. THE DIRECTION OF THE ARROW IS THE DIRECTION OF REBAR, AS REQUIRED.

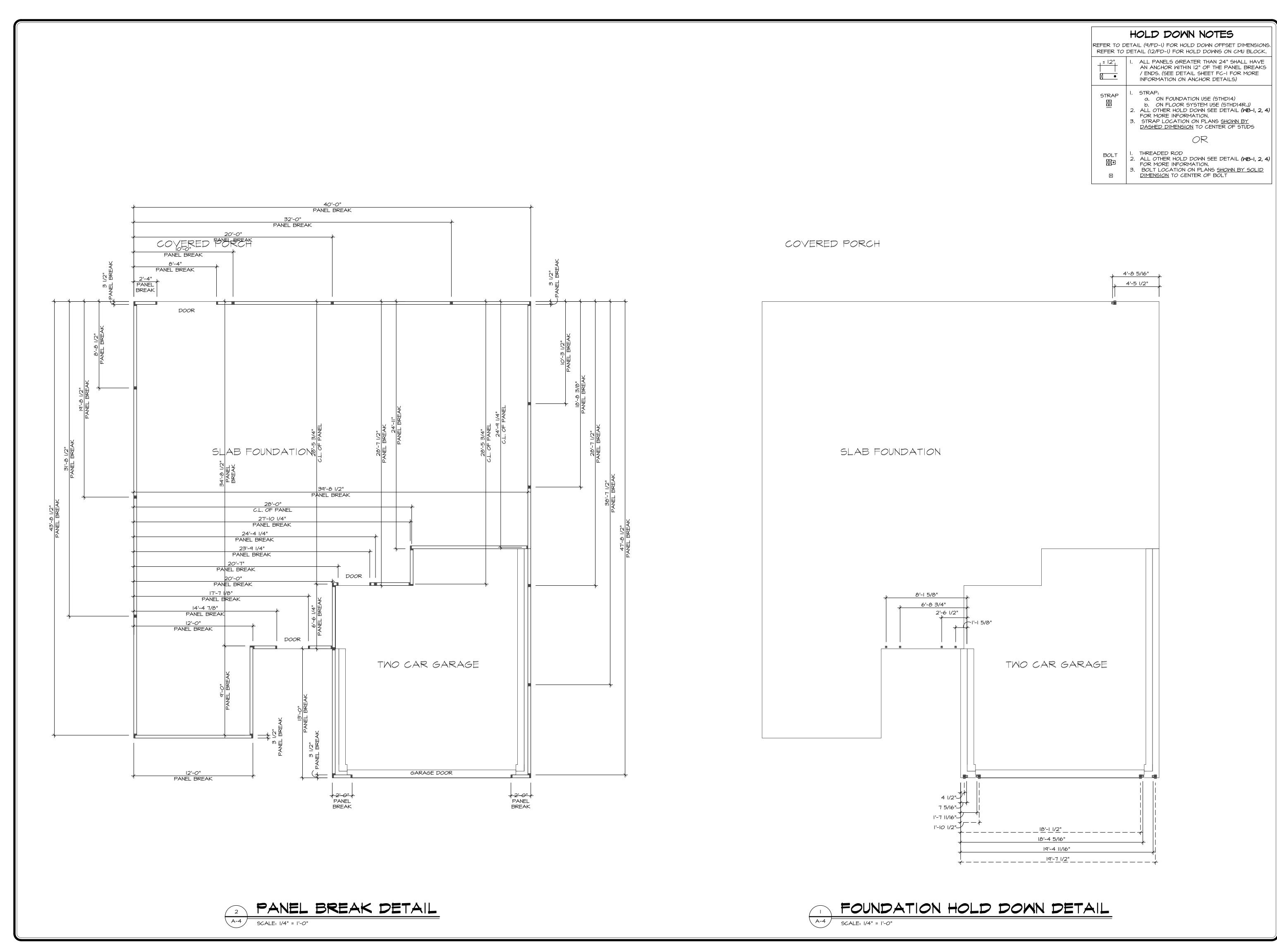
 6. ALL FOOTINGS ARE PLAIN NON-REINFORCED CONCRET
- 6. ALL FOOTINGS ARE PLAIN, NON-REINFORCED CONCRETE UNLESS NOTES OTHERWISE.







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specifications.

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STATE

BIV-COMM-LOT

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OCOM

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RELEASE NO. ---DRAWN BY
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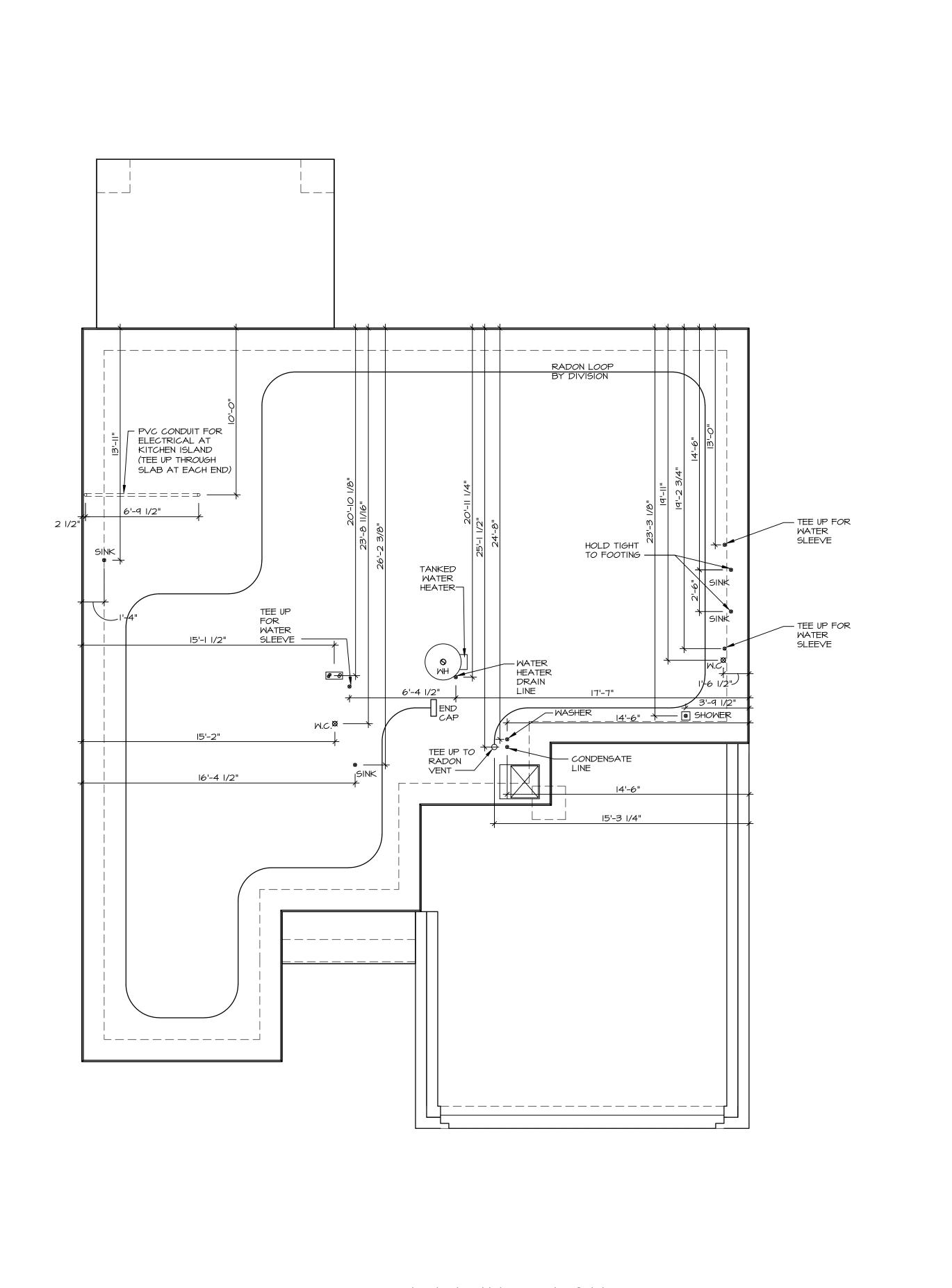
GRAND BAHAMA

DRAWING TITLE

FOUNDATION HOLD DOWNS

PANEL BREAK DETAILS

2 | **4** | **2** | **2** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** | **3** |



INSTALLATION OF RADON STACK AND LOOP TO BE DETERMINED BY DIVISON

SHEET NO.	GRAND BAHAMA	SET NO. GBHOO VERSION OI			DIV-COMM-LOT-UNIT		
√ 1 0	DRAWING TILLE PLUMBING	RELEASE NO DRAWN BY		in mese plans, these plans are not to be reproduced, changed, or copied in any form or manner	COMM-LOT		se
		DATE:		whatsoever, nor are they to be assigned to any third party without			Resignation Resign
	OPTION DESCRIPTION	OPTION	NVK, Inc. 5285 Westview Drive, Suite 100		STREET ADDRESS	APT. NO.	egis gne are and cec hes
			Frederick, MD 21703	COLLOGIE OF NAM, FIC.		!	ster ers, e no sh d by se p
<u>O</u>					CITY STATE	ZIP	ctui red arc ot re ould y N' olan iicat
)						-	Intechite equel d no VR s a
C:\NVR\Solves	C:\NVR\Solves\RLH_VK_0093\Sheets\Lot Specific\A-5 PLMG_LS.dwg 10,	_LS.dwg 10/14/24 - 11:30 am					e io ectu i ec o b o n o n

PLUMBING PLAN

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

	FIRST FLOOR JACK S	SCHEDUL	.Ε
IDENTIFIER	DESCRIPTION	ENG. NUM.	REMARKS
IOIL	JACK - (3) 2X4 SP#I	1000	EXTEND THRU TOP PLATE
JI02	JACK - (3) 2X4 SP#I	1000	EXTEND THRU TOP PLATE
SOIL	JACK - (2) 2X4 SPF STUD GRADE	1000	
JIO4	JACK - (2) 2X4 SPF STUD GRADE	1000	
JI05	JACK - (2) 2X4 SPF STUD GRADE	1003	
JI06	JACK - (2) 2X4 SPF STUD GRADE	1003	
TOIL	JACK - (2) 2X4 SPF STUD GRADE	1007	
80IL	JACK - (2) 2X4 SPF STUD GRADE	1007	
SIIL	JACK - (2) 2X4 SPF STUD GRADE	1005	
JII4	JACK - (2) 2X4 SPF STUD GRADE	1005	
JII5	JACK - (3) 2X4 SPF STUD GRADE	1018	
JII6	JACK - (3) 2X4 SPF STUD GRADE	1018	

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

- I.A (2) PLY UP TO AND INCLUDING II 7/8" TALL: FASTEN PLIES W/ (2) ROWS I6D NAILS AT I2" O.C. 2.A - (2) PLY 14" TO AND 18" TALL (INCLUSIVE): FASTEN PLIES W/ (3) ROWS 16D NAILS AT 12" O.C.
- 3.A (2) PLY 20" TALL AND OVER: FASTEN PLIES W (4) ROWS 16D NAILS AT 12" O.C. 4.A - (3) PLY UP TO AND INCLUDING II 7/8" TALL: FASTEN PLIES W/ (2) ROWS 16D NAILS AT 12" O.C. FROM EACH SIDE
- 5.A (3) PLY 14" TO AND 18" TALL (INCLUSIVE): FASTEN PLIES W/ (3) ROWS 16D NAILS AT 12" O.C.
- FROM EACH SIDE 6.A - (3) PLY 20" TALL AND OVER: FASTEN PLIES W/ (4) ROWS 16D NAILS AT 12" O.C. FROM EACH SIDE
- 7.A (4) PLY (ALL SIZES): FASTEN PLIES W/ (2) ROWS I/2" DIAMETER A307 BOLTS AT 24" O.C. SEE SHOP DRAWING FOR ADDITIONAL INFORMATION.

FLOOR PLAN NOTES

- ALL HEADERS ARE (2) 2x6 w/ 2x4 WALLS OR (3) 2x6 w/ 2x6 WALLS, UNLESS OTHERWISE NOTED. ALL HEADERS TO HAVE (I) 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
- ALL EXTERIOR WALLS TO BE 4" W/ OSB OR 3 1/2" W/ LAMINATED FIBROUS STRUCTURAL SHEATHING, ALL INTERIOR WALLS TO BE 3 1/2", UNLESS OTHERWISE NOTED. HATCHED AREAS INDICATE DROPPED CEILINGS. ALL DROPPED CEILINGS ARE 12" UNLESS OTHERWISE NOTED.
- SEE "BRACED WALL PANEL DETAIL SHEET" FOR SPECIAL WALL FRAMING LOCATIONS AND HEADER SIZES, IF APPLICABLE.
- SEE STANDARD DETAIL CATEGORY "IT" SHEET(S) FOR INTERIOR TRIM DETAILS. SEE ARCHITECTURAL DETAIL SHEET "AD" FOR HOUSE
- SPECIFIC INTERIOR TRIM OPTION TABLE. ALL HEADERS IN NON-BEARING WALLS SHALL BE A SINGLE FLAT 2X4 OR 2X6 ATTACHED TO CRIPPLES ABOVE, UNLESS OTHERWISE NOTED.
- TANKED WATER HEATER SHOWN AS BASE CONDITION, OPTIONAL TANKLESS WATER HEATER IS AVAILABLE IN LIEU OF TANKED WATER HEATER.

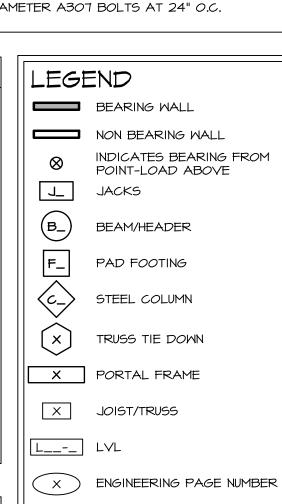
GYPSUM NOTES

AT GARAGE:

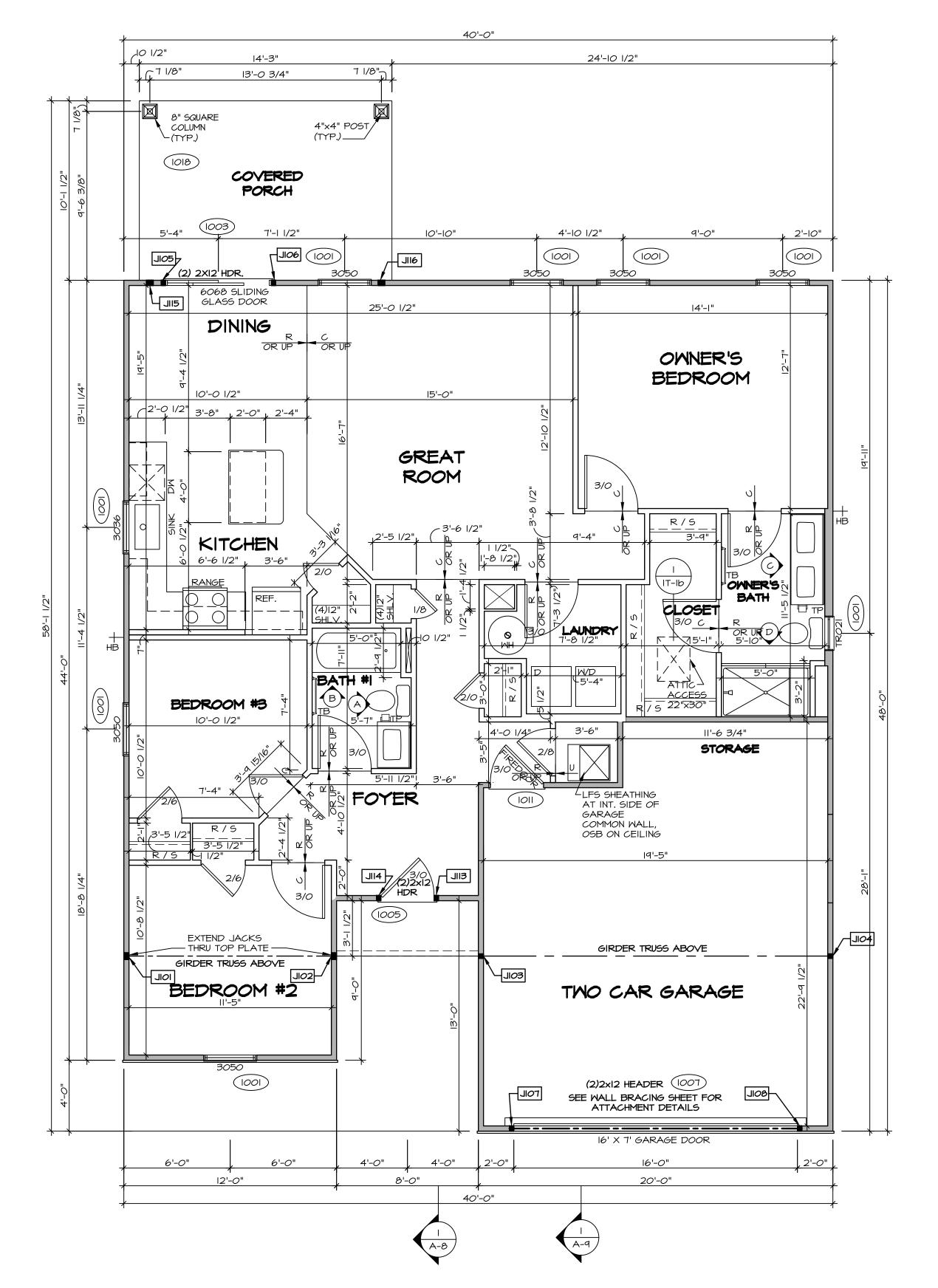
GYPSUM BOARD AT COMMON WALLS, CEILINGS, BEAM WRAPS AND SUPPORTS PER STANDARD DETAIL FA-I(b) FIRE ASSEMBLIES OR AS REQUIRED BY LOCAL CODE.

AT STAIRS:

1/2" GYPSUM BOARD AT UNDERSIDE OF STAIRS AND WALLS

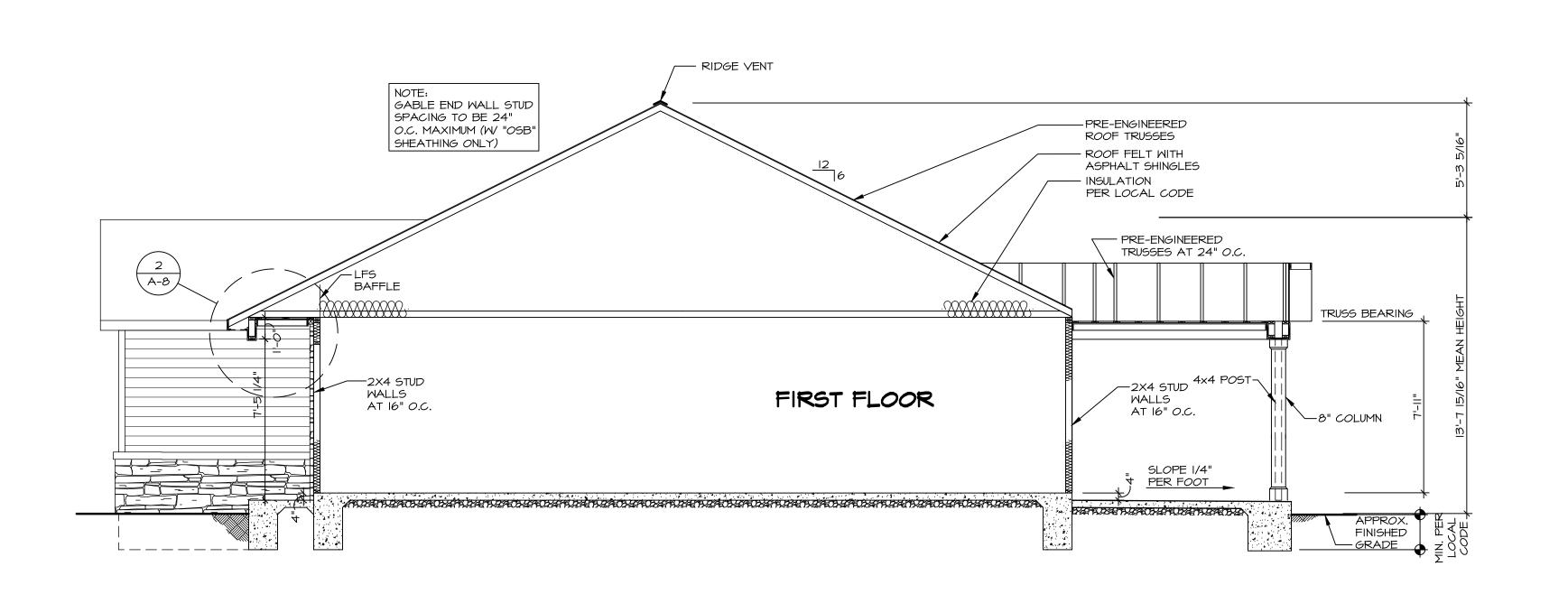


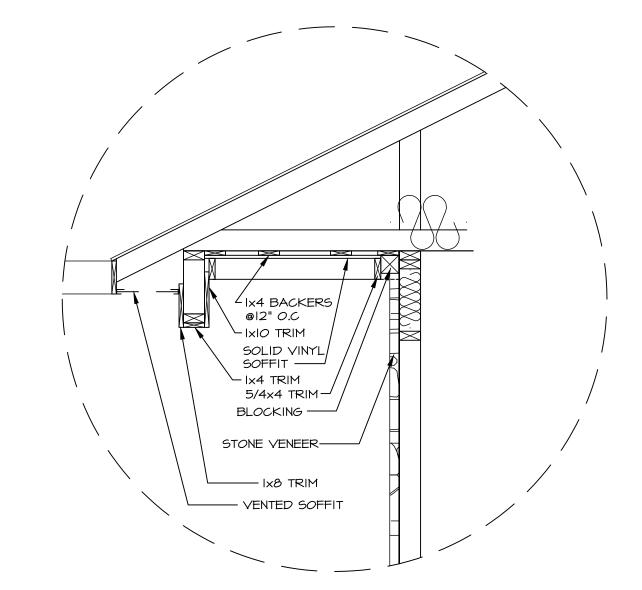
SEE FC DETAILS FOR FRAMING CONNECTORS





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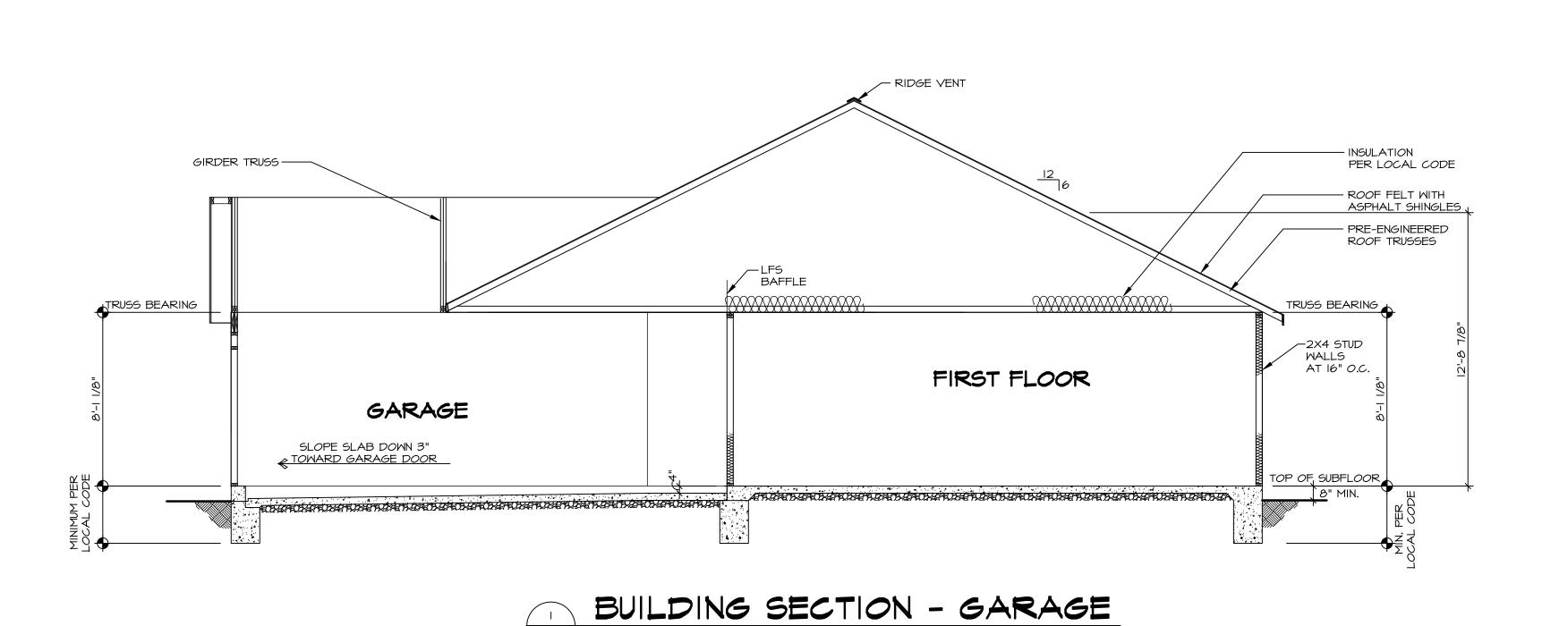
BUILDING SECTION - FOYER

			APT. NO.	ZIP
				STATE
	DIV-COMM-LOT-UNIT	COMM-LOT	STREET ADDRESS	CITY
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			NVK, Inc. 5285 Westview Drive, Suite 100 Frederick, MD 21703	
	SET NO. GBHOO VERSION OI REIFASE NO	DATE:	OPTION	
	GRAND BAHAMA		OPTION DESCRIPTION	
	HEET NO.	<i>Q</i>		$\overline{\omega}$

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BUILDIN

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

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SEAL 44932

		TRUS	SS SCHEI	DULE	
QUANTITY	SPECS	TRUSS NUMBER	LENGTH	ROOF PITCH (X/I2)	REMARKS
2	SE	14544	12'-0"	8/12	COMMON
4	SE	14545	20'-0"	8/12	COMMON
ı	SE	14546	12'-0"	8/12	COMMON
	SE	14547	20'-0"	8/12	COMMON
	SE	14549	12'-0"	8/12	COMMON
1	SE	17641	20'-0"	8/12	COMMON
5	SE	18423	14'-0"	4/12	COMMON
5	SE	18424	38'-0"	6/12	COMMON
	SE	18425	38'-0"	6/12	COMMON
	SE	18426	38'-0"	6/12	COMMON
2	SE	18453	38'-0"	6/12	COMMON
ı	SE	18454	38'-0"	6/12	COMMON
9	SE	18455	38'-0"	6/12	COMMON
ı	SE	18456	38'-0"	6/12	COMMON
ı	SE	18457	38'-0"	6/12	COMMON
ı	SE	18591	14'-0"	4/12	COMMON
2	VT	00861	3'-0"	8-6/12	COMMON
2	VT	00862	6'-0"	8-6/12	COMMON
2	VT	00863	9'-0"	8-6/12	COMMON
2	VT	00864	12'-0"	8-6/12	COMMON
1	VT	00865	15'-0"	8-6/12	COMMON
I	VT	00866	18'-0"	8-6/12	COMMON
ı	VT	95510	6'-0"	4-6/12	COMMON
ı	VT	95511	12'-0"	4-6/12	COMMON

FIE	ELD INSTALLED ROOF	= FRAMING	5 BEAM/H	HEADER
	SCH	I EDULE		
IDENTIFIER	DESCRIPTION	LENGTH	ENG. NUM.	REMARKS
LIOI-2	LVL 1.75 - 09-04	10'-0"	1018	I.A
LI02-2	LVL 1.75 - 09-04	10'-0"	1018	I.A
LI02-2	LVL 1.75 - 09-04	10'-0"	1018	

LVL PLY TO PLY FASTENING SCHEDULE: (WHERE APPLICABLE BASED ON LVL USAGE) I.A - (2) PLY UP TO AND INCLUDING II 7/8" TALL: FASTEN PLIES W/ (2) ROWS I6D NAILS AT I2" O.C. OR ALT I 1/2" WIDE LVL FASTEN PLIES W/ (3) ROWS 12D NAILS AT 12"O.C.

2.A - (2) PLY 14" TO AND 18" TALL (INCLUSIVE): FASTEN PLIES W/ (3) ROWS 16D NAILS AT 12" O.C. OR ALT I I/2" WIDE LVL FASTEN PLIES W/ (4) ROWS I2D NAILS AT I2"O.C.

3.A - (2) PLY 20" TALL AND OVER: FASTEN PLIES W/ (4) ROWS 16D NAILS AT 12" O.C. OR ALT 1 1/2" WIDE LVL FASTEN PLIES W/ (5) ROWS I2D NAILS AT I2"O.C.

4.A - (3) PLY UP TO AND INCLUDING II 7/8" TALL: FASTEN PLIES W/ (2) ROMS I6D NAILS AT I2" O.C. FROM EACH SIDE OR ALT I 1/2" WIDE LVL FASTEN PLIES W/ (3) ROWS 12D NAILS AT 12"O.C. FROM

5.A - (3) PLY 14" TO AND 18" TALL (INCLUSIVE): FASTEN PLIES W/ (3) ROWS 16D NAILS AT 12" O.C. FROM EACH SIDE OR ALT I I/2" WIDE LVL FASTEN PLIES W/ (4) ROWS I2D NAILS AT I2"O.C. FROM EACH SIDE. 6.A - (3) PLY 20" TALL AND OVER: FASTEN PLIES W/ (4) ROWS 16D NAILS AT 12" O.C. FROM EACH SIDE

OR ALT I 1/2" WIDE LVL FASTEN PLIES W/ (5) ROWS 12D NAILS AT 12"O.C. FROM EACH SIDE. 7.A - (4) PLY (ALL SIZES): FASTEN PLIES W/ (2) ROWS I/2" DIAMETER A307 BOLTS AT 24" O.C. SEE SHOP DRAWING FOR ADDITIONAL INFORMATION.

ROOF FRAMING NOTES

REFER TO THE STANDARD DETAILS FOR THE FOLLOWING: .I. TRUSS TIE-DOWNS (I/RF-I)

I.2. PIGGYBACK TRUSS ATTACHMENT (2/RF-I)

I.3. VALLEY GABLE TRUSS BRACING (3/RF-I) 1.4. GABLE BRACING (I/RF-Ic)

I.5. TRUSS BRACING (2/RF-Ic) I.6. LIFELINE ATTACHMENT (5/RF-I)

I.7. FALL PROTECTION ON PLATFORM TRUSSES (II/RF-I)

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

LEGEND

BEARING WALL

INDICATES BEARING FROM POINT-LOAD ABOVE J_ JACKS

BEAM/HEADER

F_ PAD FOOTING STEEL COLUMN

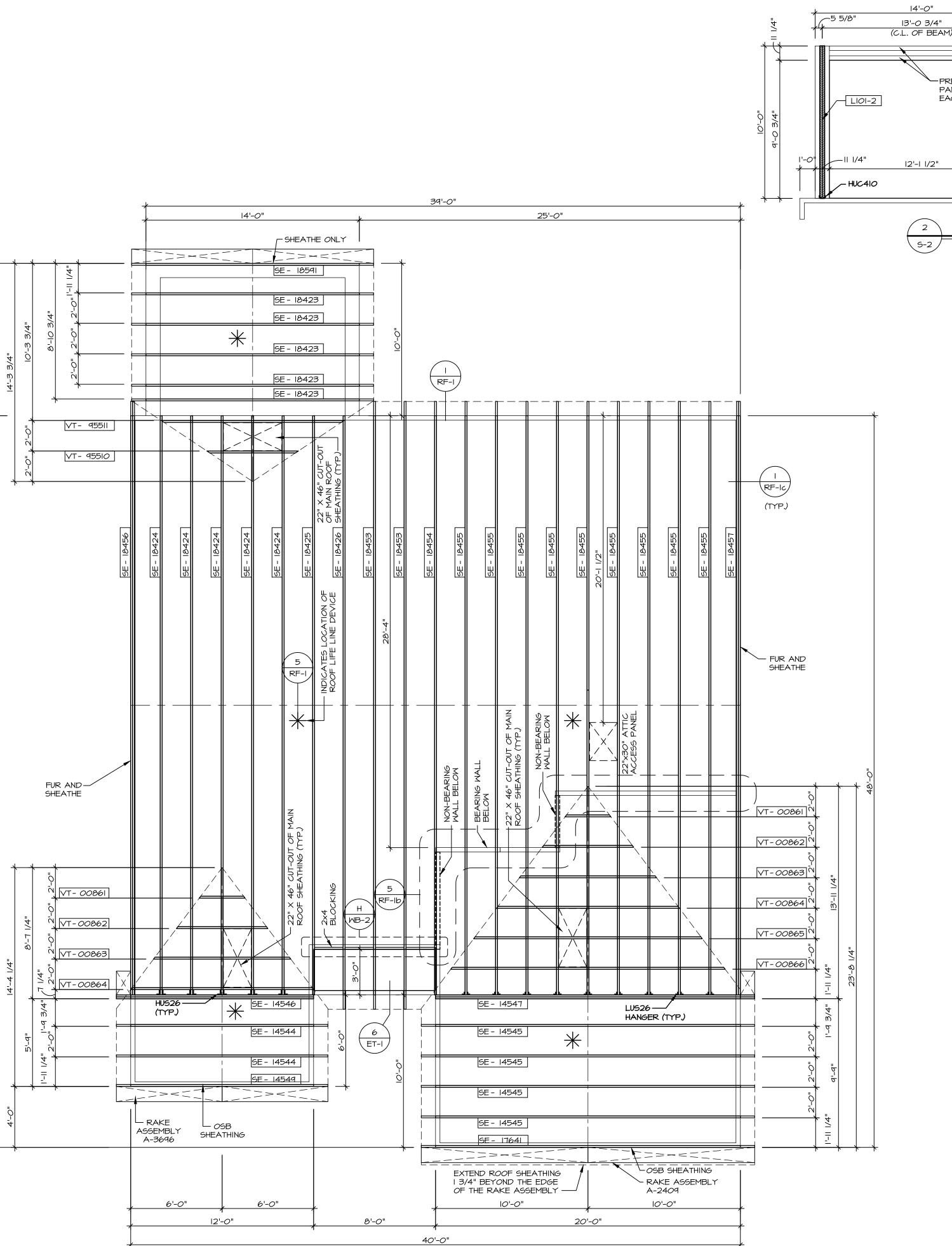
X TRUSS TIE DOWN

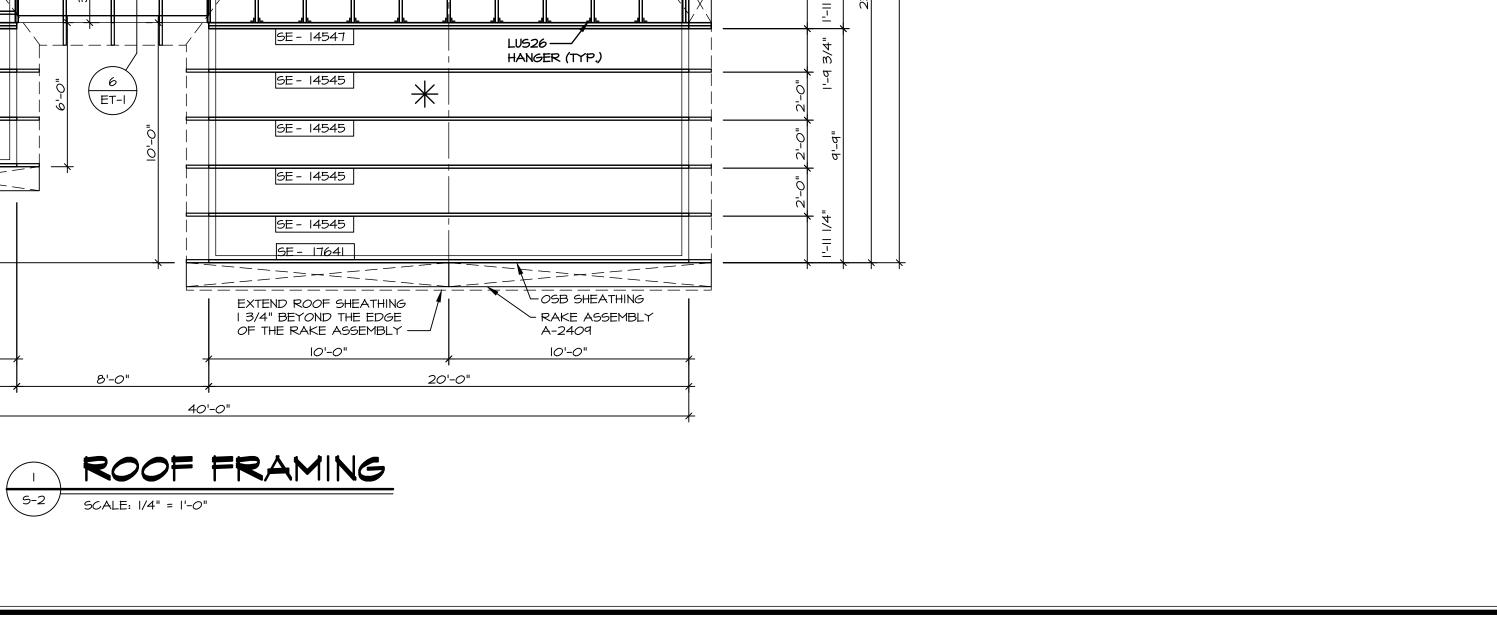
X PORTAL FRAME

X JOIST/TRUSS

L__-_ LVL

(X) ENGINEERING PAGE NUMBER SEE FC DETAILS FOR FRAMING CONNECTORS





5 5/8"\

-PRE-BUILT PANELS EACH SIDE, TYP.

PARTIAL COVERED PORCH BEAM PLAN

COVERED PORCH

-PRE-BUILT PANELS EACH SIDE

12'-1 1/2"

LI02-2

HUC410 -

|| |/4"_

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

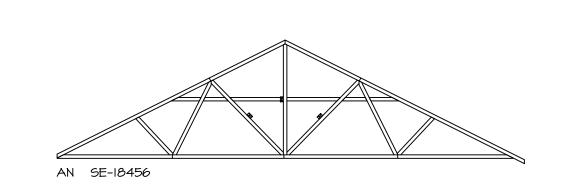
As directed by the North Carolina Board of Architecture and Registered Interior Designers, architectural seals are not required for and should not be placed by NVR on these plans and specifications. 10/16/2024 11111/ TH CARO SEAL 44932 AN EDWARD Firm license #: D-047 SET NO. C VERSION RELEASE DRAWN B' DATE:

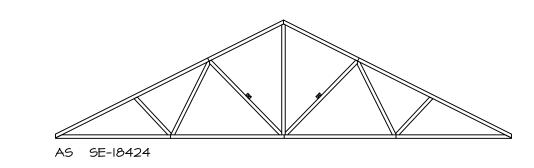
MODEL

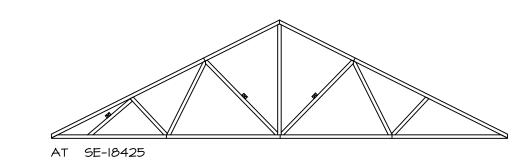
GRAND

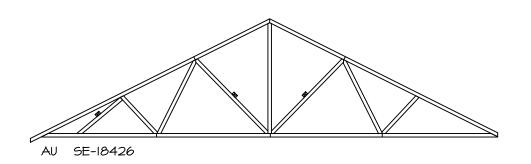
DRAWING TITLE

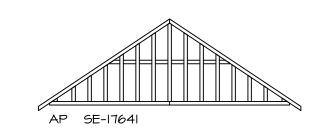
ROOF FRAMING











TRUSS BRACING DETAILS S-3 SCALE: I/4" = I'-0"

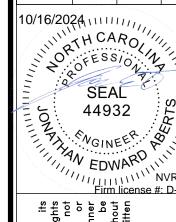
TRUSS BRACING NOTES

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

- REQUIRED.
 2. 2X4 SPF#2 LATERAL BRACES SHALL BE NAILED TO MINIMUM (3) TRUSS MEMBERS WITH MINIMUM (2) IOD NAILS. PROVISIONS MUST BE MADE AT ENDS OR SPECIFIED INTERVALS TO RESTRAIN OR ANCHOR
- LATERAL BRACING.
 WEB "T" BRACE, DETAIL 3/RF-Ic, IS REQUIRED WHERE LATERAL BRACING IS NOT CONTINUOUS ACROSS THREE (3) OR MORE TRUSSES AND MAY BE USED IN LIEU OF 2X4 LATERAL BRACING.
- DIAGONAL BRACING REQUIRED WHEN LATERAL BRACING IS REQUIRED (7/RF-I)
- STUDDED GABLE BRACING DETAIL I/RF-IC TO BE UTILIZED FOR TRUSSES 6'-9" IN HEIGHT OR GREATER.
- PARTIALLY SHEATHED GABLES, SEE 5/RF-1¢ 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.

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COMM-LOT-UNIT			
M-LOT			
ET ADDRESS		APT. NO.	
		!	
	STATE	ZIP	
-			



MODEL

GRAND BAHAMA

DRAWING TITLE

TRUSS BRACING

	BRACED WALL LINE SCHEDULE								
WIND SPEED (ULT)	IDENTIFIER	REQUIRED (FT)	ACTUAL (FT)	METHOD					
130 MPH	BWL 100.00	3.89'	6.00'	CONTINUOUS (WITH GWB)					
130 MPH	BML 101.00	8.38'	38.00'	MSP (WITH GMB)					
130 MPH	BWL 102.00	11.75'	16.46'	CONTINUOUS (WITH GMB)					
130 MPH	BWL 103.00	9.70'	39.00'	MSP (WITH GMB)					
130 MPH	BWL 104.00	7.38'	6.00'	ENGINEERED					
130 MPH	BWL 105.00	5.40'	13.00'	MSP (WITH GMB)					
130 MPH	BWL 106.00	6.21'	8.16'	CONTINUOUS (WITH GMB)					
130 MPH	BWL 107.00	2.33'	9.00'	MSP (MITH GMB)					

	BRACED WALL LINE						
	HOUSE WALL						
77777777							
	BRACED WALL PANEL						
(x)	ENGINEERING PAGE NUMBER						
MSP	WOOD STRUCTURAL PANEL						
<i>G</i> B	GYPSUM BOARD (I) SIDED OR (2) SIDED		FAS ⁻	FASTENING SCHEDULE			
GB-BW	GYPSUM BOARD BLOCKED WALL		SHEATHING	FASTENER	SPA	CING	
	CONSTRUCTION (I) SIDED OR (2) SIDED (SEE STANDARD DETAIL G/MB-2)		SHEATHING	TASTENER	EDGES	FIELD	
LIB	LET-IN BRACING (SEE STANDARD DETAIL F / WB-2)	PANELS OR		8d COMMON NAILS	6" O.C.	12" O.C.	
CS-WSP	CONTINUOUS SHEATHING - WOOD STRUCTURAL PANEL		EQUIVALENT (W/ METHOD WSP, CS-WSP, CS-G)	ALTERNATIVE FASTENER 1-3/4" 16-GAUGE CORROSION RESISTANT STAPLES	3" <i>O.</i> C.	6" O.C.	
CS-PF	CONTINUOUS SHEATHING - PORTAL FRAME, SEE FLOOR PLANS FOR PORTAL FRAME HEADER INFORMATION	ENGIN 7/16" STRU PANE (W/ M ENG- ENG- ENG- WALL (W/ M GB-I,		A - 8d COMMON NAILS	4" O.C.	12" O.C.	
CS-G	(SEE STANDARD DETAIL A, C/ WB-2) CONTINUOUS SHEATHING - WOOD STRUCTURAL PANEL ADJACENT TO		ENGINEERED 7/16" WOOD STRUCTURAL		A - I-3/4" I6-GAUGE CORROSION RESISTANT STAPLES	3" O.C.	6" O.C.
ENG-WSP-A	GARAGE OPENINGS ENGINEERED DESIGN W/ WALL STRUCTURAL PANEL SHEATHING TYPE 'A'			B - 8d COMMON NAILS*	3" O.C.	12" <i>O.</i> C.	
	FASTENING REQUIREMENTS (NO HOLD DOWNS REQUIRED UNLESS NOTED)		PANELS (W/ METHOD ENG-WSP-A, ENG-WSP-B,	B - I-3/4" 16-GAUGE CORROSION RESISTANT STAPLES	N/A	6" O.C.	
ENG-WSP-B	ENGINEERED DESIGN W/ WALL STRUCTURAL PANEL SHEATHING TYPE 'B' FASTENING REQUIREMENTS (NO HOLD DOWNS REQUIRED UNLESS NOTED)		l I	ENG-WSP-C)	C - 8d COMMON NAILS* SHEATHING ON BOTH SIDES OF THE WALL	3" O.C.	12" O.C.
ENG-WSP-C	ENGINEERED DESIGN W/ WALL STRUCTURAL PANEL SHEATHING ON BOTH SIDES OF THE WALL TYPE 'C' FASTENING REQUIREMENTS (NO HOLD DOWNS			C - 1-3/4" 16-GAUGE CORROSION RESISTANT STAPLES SHEATHING ON BOTH SIDES OF THE WALL	N/A	6" O.C.	
ENG-PF	REQUIRED UNLESS NOTED) ENGINEERED DESIGN W/ PORTAL FRAME, SEE FLOOR PLANS FOR PORTAL FRAME HEADER INFORMATION		I/2" GYPSUM WALLBOARD (W/ METHOD	I-I/4" LONG, I/4" HEAD, .098" DIA. ANNULAR-RINGED NAILS	7" O.C.	7" O.C.	
ENG-GBI-A	(SEE STANDARD DETAIL PAGE WB-I) ENGINEERED DESIGN W/ (I) SIDED		GB-I, GB-2, ENG-GBI-A)		CORROSION RESISTANT TYPE W 1-1/4" DRYWALL SCREWS	7" O.C.	7" O.C.
ENG-GBI-B	GYPSUM BOARD TYPE "A" FASTENING REQUIREMENTS ENGINEERED DESIGN W/ (I) SIDED		LAMINATED FIBROUS	IOd X I I/4" GALVANIZED ROOFING NAILS	3" O.C.	3" O.C.	
	GYPSUM BOARD TYPE "B" FASTENING REQUIREMENTS		STRUCTURAL SHEATHING	I-I/4" I6-GAUGE CORROSION RESISTANT STAPLES	3" O.C.	3" O.C.	
ENG-BW	ENGINEERED DESIGN W/ (I) SIDED GYPSUM BOARD W/ BLOCK WALL CONSTRUCTION (SEE STANDARD DETAIL IT/WB-I)		I/2" GYPSUM WALL BOARD BLOCKED AT THE EDGES	BLOCKING REQUIRED AT ALL GYPSUM EDGES. USE CORROSION	4" O.C.	12" O.C.	
Ю	HOLD-DOWN: I. SEE SHEET WB-2 FOR "P_" INDICATOR SCHEDULE AND DETAILS 2. SEE SHEET WB-I FOR "H_" INDICATOR SCHEDULE AND DETAILS		(M/ METHOD B-BM-I, GB-BM-2, ENG-BM	RESISTANT TYPE W I-I/4" DRYWALL SCREWS	1 0.0.	0.0.	
ETHOD IN COMP ODES (IRC) UNLE	3. ARROW INDICATES LOCATION. ANALYZED UTILIZING A PRESCRIPTIVE LIANCE WITH INTERNATIONAL RESIDENTIAL ESS OTHERWISE NOTED. ENGINEERED WALL MPLIANCE WITH INTERNATIONAL BUILDING		STRUCTURAL I 2. SPECIFIED GY METHOD GB IS SPECS FOR T 3. USE OF STAPL FASTENING ME ALTERNATIVE	PSUM FASTENING REQUIRE IDENTIFIED. SEE PHASE YPICAL GYPSUM FASTENER LES IN WOOD STRUCTURAL ETHOD ON WALLS PER ENG	D ONLY M SPACING PANEL AS INEERED	NHERE 5.	

ALTERNATIVE.

* STAPLE ALTERNATIVE FOR USE IN FIELD ONLY

LEGEND

BWL XXX.XX

BRACED WALL LINE I.D.

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).

	END PANEL	(P8)		
12'-5 1/4" MSP			MSP 18'-11 3/8"	
44'-0" 8'-4 3/4"				
	8'-O" 2'-4 7/8" 2'-4 7/8"		MSP 6'-2 1/2" + 48'-0"	
BML 100.00	BWL 106.00 P) P2 P2 P) P2 P2 P P P2 CS-WSP		MSP 13'-10 1/2"	
	3'-0" 12'-0" BML 107.00	H4 HI		B

7'-10"

CS-WSP

BWL 103.00

6'-0"

CS-WSP

BWL 101.00

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FIRST FLOOR BRACED WALL DETAIL

S-4 SCALE: 1/8" = 1'-0"

