NOTICE TO CONTRACTOR All construction must comply with current NC Building Codes and is subject to field inspection and verification.

APPROVED

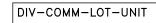
Limited building only review Permit holder responsible for full compliance with the code

09/23/2020





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SPEC SHEET	55-1														
ELEVATIONS FOUNDATION	4														
FOUNDATION HOLD DOWNS	6														
PLUMBING FIRST FLOOR PLAN	7 9														
SECOND FLOOR PLAN	9 10														
BUILDING SECTIONS															
SECOND FLOOR FRAMING ROOF FRAMING	19 20														
TRUSS BRACING	20														
WALL BRACING	22														
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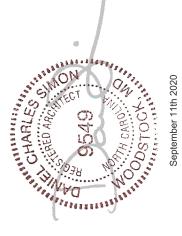
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						RF-Ib
						RF-Ic SEP-I
						SEP-2 SEP-3
						SEP-4
						SP-1 SP-2
						SP-3 ST-I
						WB-I WB-Ib
						WD-I
						WS-1 WS-1b
						WS-IC





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

FIRST FLOOR SQUARE FOO	
DESCRIPTION	TOTAL SQ. FT.
IST FLOOR (BASE SF)	901 SF
· · · · · · · · · · · · · · · · · · ·	901 SF
SECOND FLOOR SQUARE FO	DOTAGE
DESCRIPTION	TOTAL SQ. FT.
2ND FLOOR (BASE SF)	1302 SF
	1302 SF
GARAGE SQUARE FOOT	AGE
DESCRIPTION	TOTAL SQ. FT.
TWO CAR GARAGE	402 SF
	402 SF
TOTAL FINISHED SQUARE FO	OOTAGE
DESCRIPTION	TOTAL SQ. FT.
IST FLOOR (BASE SF)	901 SF
2ND FLOOR (BASE SF)	1302 SF
	2203 SF
SET - VERSION EMMOO - OI	<b>CS-</b>

#### GENERAL

- These plans and specifications are the sole property of NVR. Any unauthorized use of these plans without the written consent of NVR is prohibited.
- . These plans are subjected to modification as necessary to meet code requirements or to facilitate mechanical/plumbing installations or to incorporate design improvements
- 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

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

#### ENERGY AND MECHANICAL

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

R-values shown below are the minimum used.

CLIMATE ZONE	FENESTRATION U-FACTOR	GLAZED FENESTRATION SHGC	CEILING R-VALUE	FRAME WALL R-VALUE 2x4 / 2x6	FL <i>OO</i> R R-VALUE	BASEMENT WALL R-VALUE UNFIN. / FIN.	SLAB R-VALUE & DEPTH	CRAWL 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 ÁCCA Manual D. Minimum efficiencies of equipment are as listed below. Upgrades for improved energy performance may be installed.

- Air conditioner 14 SEER - Gas furnace - 92% / 96%
- Heat Pump 8.2 HSPF
- . Winter interior design temperatures shall be 70°F and summer interior design temperatures shall be 75°F. Exterior design temperatures vary based on geographic location and are listed on the Manual J calculations.
- 4. Roof ventilation calculations are based on the following specifications: Minimum 18 sq. in. of vent per linear foot Ridae vent: Minimum 9.9 sq. in. of vent per linear foot Soffit vent: Roof jack (box vent): Minimum 45 sq. in. of vent per unit
- 5. See NVR "Standard Energy Package" for field procedures and details.

### DESIGN LOADS

Table of Loads for House Structure. Per Table 301.5

Floor Living Areas	- 40# P.S.F. (Live)
-	- 10# P.S.F. (Dead) unless noted otherwise by calculations
Floor Sleeping Areas	- 30# P.S.F. (Live) unless noted otherwise by calculations
	- 10# P.S.F. (Dead) unless noted otherwise by calculations
Garage Floors	- 50# P.S.F. (Live)
	- 50# P.S.F. (Dead)
Roof Areas - Top Chord	- 20# P.S.F. (Live)
	- 10# P.S.F. (Dead)
- Bottom Chord	- IO# P.S.F. (Live) (Attics without storage)
	- 20# P.S.F. (Live) (Attics with limited storage)
	- 10# P.S.F. (Dead)
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)
	Vult   115 mph   130 mph
	Vasd 89 mph 101 mph
	Note: Linear interpolation between
	contour lines permitted.
Stairs	- 40# P.S.F. (Live)
	- 10# P.S.F. (Dead)
Allowable deflection of struc	tural members per IRC T <b>able R301.7</b>
<u>Design Criteria</u>	
Design Codes:	
-	ation for Wood Construction by National Forest
Products Association.	<u></u>
2. <u>Specification for the De</u> <u>Buildings</u> by American In	esign Fabrication and Erection of Structural Steel for stitute of Steel Construction.
Materials:	
Headers* Southern Pine (KD	-19). No. 1 Grade
Studs Spruce-Pine-Fir, S	
lacks Spruce-Pine-Fine	

- Jacks Spruce-Pine-Fir, Stud Grade
- Beams\*\* Southern Pine (KD-19), No. | Grade Joists
- 2x10 Hem-Fir (KD-19), No. 2 Grade or better (WCLIB & WWPA) 2x8 Southern Pine (KD-19), No. 1 Grade or better
- 2x10 Spruce-Pine-Fir (KD-19), No. 2 Grade or better (NLGA) 1.9E Minimum LVL
- \* 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. Interior slabs on grade (excluding garage slabs) to be minimum 3-1/2" concrete (may be represented on plans as nominal 4") over 4" sub-base, with vapor barrier (6-mil polyethylene) as required per Section 506 and minimum 2,500 PSI per Table R402.2.
- 7. Unconditioned crawl spaces shall have a minimum net area of ventilation not less than I square foot for each 150 square feet of area, unless the ground surface is covered by a Class 1 vapor retarder, in which case the minimum net area of ventilation shall not be less than 1 square foot for each 1,500 square feet of area. One such ventilating opening shall be within 3 feet (914 mm) of each corner of the building, per R408.1.2.
- 8. Foundation drains shall be located per local codes and according to local site conditions. Drain discharge by gravity or mechanical means to conform with approved site plan and installed per Section R405.1.
- 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
- 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. Non-structural garage slabs shall be nominal 3 1/2" thick. Structural garage slabs shall be nominal 4" thick. All garage slabs shall be 3,500 PSI air-entrained concrete on compacted / undisturbed soil per Table R402.2.
- 15. Foundation framing anchors shall be 1/2"x18" anchor bolts with 7" minimum embedment or Simpson Strong-Tie MASA / USP FA3 (16 gauge steel, galvanized) or equivalent set in concrete or arouted cell, I'-O" maximum from corners and spaced at a maximum of 6' o.c. and in the middle third of the width of the plate. For walls connecting offset braced wall panels, those 24" in length or shorter shall have min. (1) anchor strap and those 12" or shorter can be installed without anchor straps. Townhouses in seismic design category "C" shall require a .229" × 3" × 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 **Ŕ407.2**.
- 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

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
- immediately above the flashing. 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. Porch slab and exterior concrete work shall be nominal 4" minimum #3500 air entrained concrete w/ 6x6 #10 W.W.M unless otherwise noted as specified by engineering.
- 9. 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 PR	ESCRIPTIVE C	ODE OR ENG	INEERED DESIGN PE	ER ACI 332
MALL HEIGHT	WALL THICKNESS	LATERAL SOIL LOAD (a)	UNBALANCED FILL	VERTICAL REINFORCING (6)	HORIZONTAL REINFORCING (b)
		45	6'-0"	NOT REQUIRED	2- #4 BARS (f)
	8"	45	0"-ס	NOT REQUIRED (d)	3- #4 BARS (d,e)
	0	60	6'-0"	NOT REQUIRED (d)	3- #4 BARS (d,e)
8'-0"			7'-0"	#4 @ 22" <i>O</i> .C. (d)	3- #4 BARS (d,e)
		45	6'-0"	NOT REQUIRED	2- #4 BARS (f)
	10"	CF	7'-0"	NOT REQUIRED	2- #4 BARS (f)
		60	6'-0"	NOT REQUIRED	2- #4 BARS (f)
			ד'-0"	NOT REQUIRED	2- #4 BARS (f)
		45	7'-0"	NOT REQUIRED (d)	4- #4 BARS (d,e)
	8"	64	8'-0"	#4 @ 19" O.C. (d)	4- #4 BARS (d,e)
	-	60	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)
		Æ	7'-0"	NOT REQUIRED	3- #4 BARS (g)
	10"	45	8'-0"	NOT REQUIRED (d)	4- #4 BARS (d,e)
		60	7'-0"	NOT REQUIRED (d)	4- #4 BARS (d,e)
			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 b. SPACING SHOWN IS BASED UPON Fy = 60,000 PSI STEEL FOR Fy = 40,000 PSI STEEL, REDUCE SPACING BY 0.67
- c. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF NOT LESS THAN 3000 PSI d. ENGINEERED DESIGN PER ACI 332-14, REQUIREMENTS FOR RESIDENTIAL
- CONCRETE CONSTRUCTION
- e. FOR ALL WALL HEIGHTS, ONE HORIZONTAL BAR SHALL BE LOCATED WITHIN THE TOP 24", ONE IN THE BOTTOM 24" WITH THE REMAINING BARS EQUALLY SPACED. MAINTAIN 2" OF CONCRETE COVER BETWEEN INSIDE FACE OF WALL AND FACE OF HORIZONTAL BARS.
- F. ONE BAR WITHIN 12" OF TOP AND AT MID-HEIGHT OF WALL PER TABLE R404,1,2(1). q. ONE BAR WITHIN 12" OF TOP AND ONE EACH AT THIRD POINT OF WALL HEIGHT
- PER TABLE 404.1.2(1).

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.

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.

### 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 arade 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 R31.6.1. 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 quard 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 eqress 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.
- 10. All flashing used (including at windows, doors, and with stone or masonry veneer) shall be corrosion-resistive per R703.4. See NVR Flashing Details.
- II. Wood framed walls assumed to be 2 x 4 stud construction unless otherwise noted on plans. Bearing walls shall have studs spaced at 16" o.c. maximum per Table R602.3(3) and Table R602.3(5).
- 12. All exterior sheathing to be structural sheathing designed in accordance with R602.10.
- 13. An approved water-resistive barrier shall be applied over sheathing of exterior walls per Section R7032
- 14. Interior sheathing shall be 1/2" gypsum wall board unless otherwise noted. Exceptions may include, but are not limited to, special requirements for wall bracing and fire separation. 15. Screw fastening is typical for gypsum installation and nailing will only be permitted at the perimeter of the board.
- All screws shall be corrosion-resistant Type W I-1/4" drywall screws

SCREW FASTENING SCHEDULE WITH ADHESIVE Framing Spacing Ceilings | Load-brg. walls | Non-load-brg. walls WITHOUT ADHESIVE Framing Spacing Ceilings Load-brg. walls Non-load-brg. walls 12 - 12

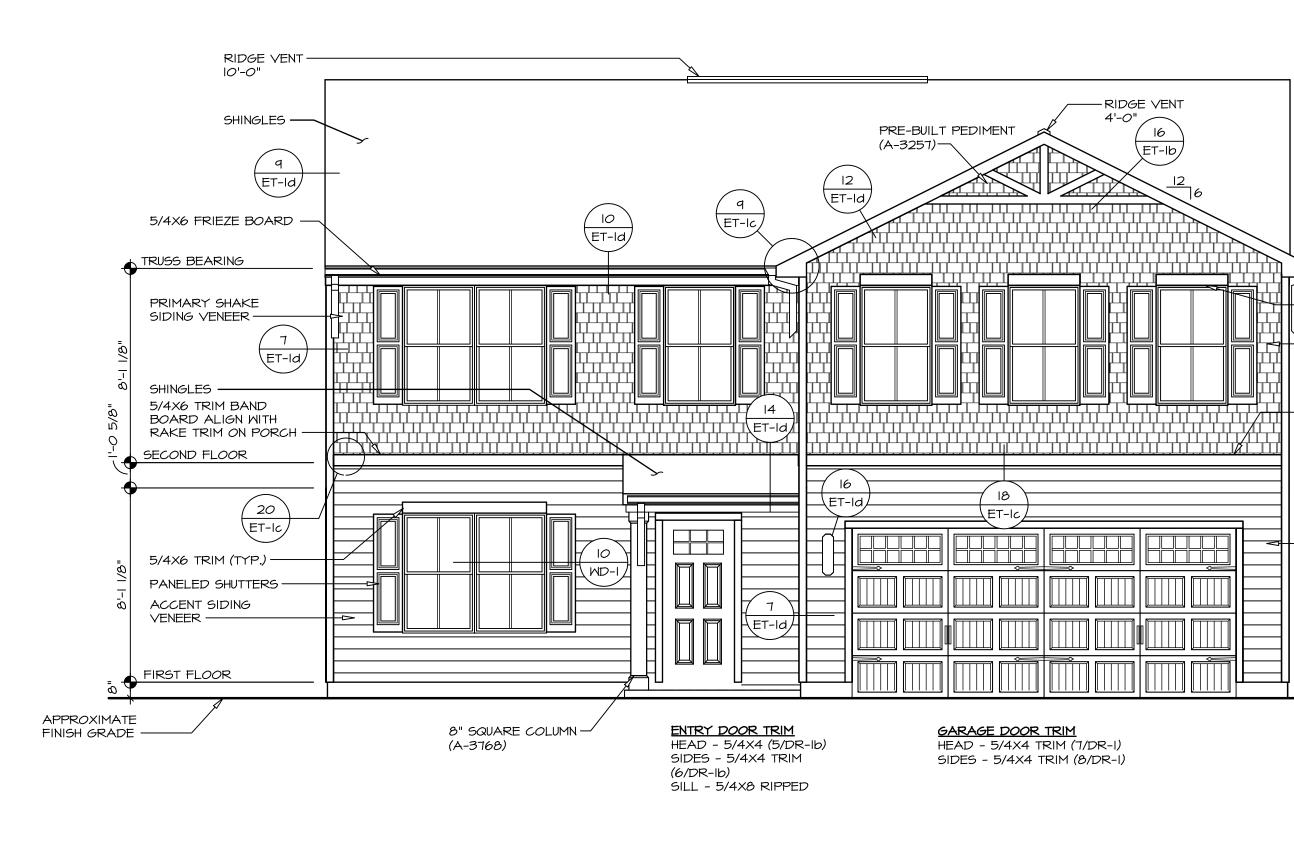
- For 1/2" wallboard, nails shall be 1-1/4" long, 1/4" head and .098 diameter shanks with annular ring or acceptable equivalent and comply with ASTM C514.
- For 5/8" wallboard, nails shall be 1-3/8" long, 1/4" head and .098 diameter shanks.
- 17. Garages shall be completely separated from the residence 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 R806.2
- 20. Fireblocking shall be installed between ceiling and floor openings per R302. II. Draftstopping to be installed in accordance with R302.12.
- 21. Water closet, lavatory or bidet shall not be set closer than 15 inches from its center to any side wall, partition or vanity or closet than 30 inches center-to center- between adjacent fixtures. There shall be a clearance of not less than 21 inches in front of the water closet, lavatory or bidet to any wall, fixture or door per **P2705.**
- 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. Roófing 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 eqress 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): arsigma in the variable of the 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 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

vary by design.

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

SHEET NO.	MODEL	SET NO.			REV. NO. DATE		REMARKS	
	NORO 2018 SPEC SHEET	VERSION		The owner, expressly reserves its	1 1/8/19	1/8/19 MBT - CODE UPDATES FOR 2018 NCRBC	CRBC	CHARLES
		DRAWN BY		in these plans. These plans are not	2 3/1/10	3/1/19 MBT - UPDATED ENGERY NOTES		ERED ARCH E
	SINGLE FAMILY ATTACHED			to be reproduced, changed, or copied in any form or manner				ON TECT
	SINGLE FAMILY DETACHED	DATE:		whatsoever, nor are they to be assigned to any third party. without				
	OPTION DESCRIPTION	OPTION	5285 Westview Drive, Suite 100	first obtaining the expressed written				C HILL CHART
_	NC State Building Code - Residential Code 2018		Frederick, MD 21703	consent of NVR, Inc.				CONTRACTORY OF
								September 11th 2020





PRIMARY SIDING VENEER-

<u>GARAGE DOOR TRIM</u> HEAD - 5/4X4 TRIM (7/DR-I) SIDES - 5/4X4 TRIM (8/DR-I)

ାଥ**ି** 

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-RIDGE VENT

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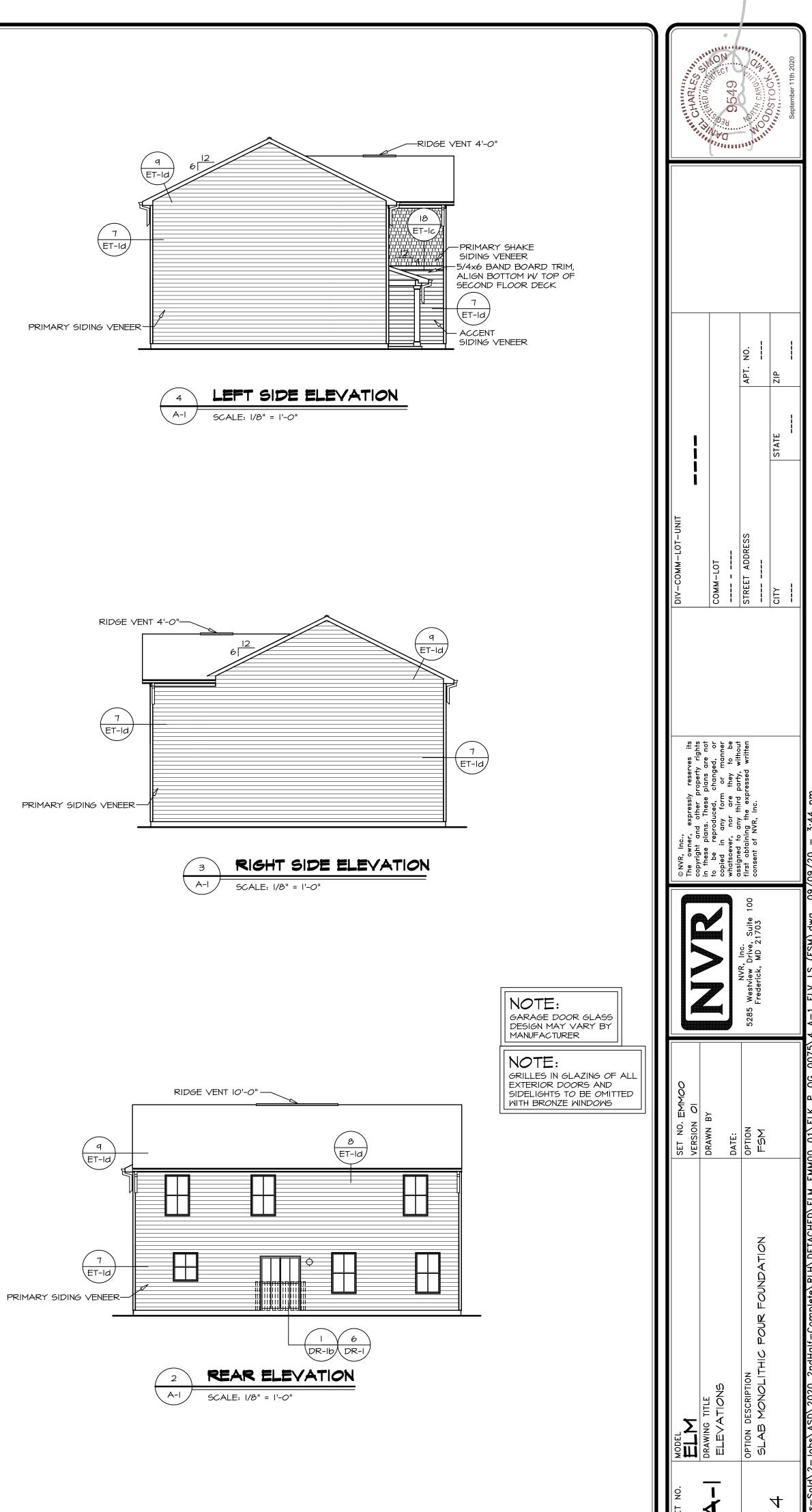
— 5/4x6 TRIM (TYP.)

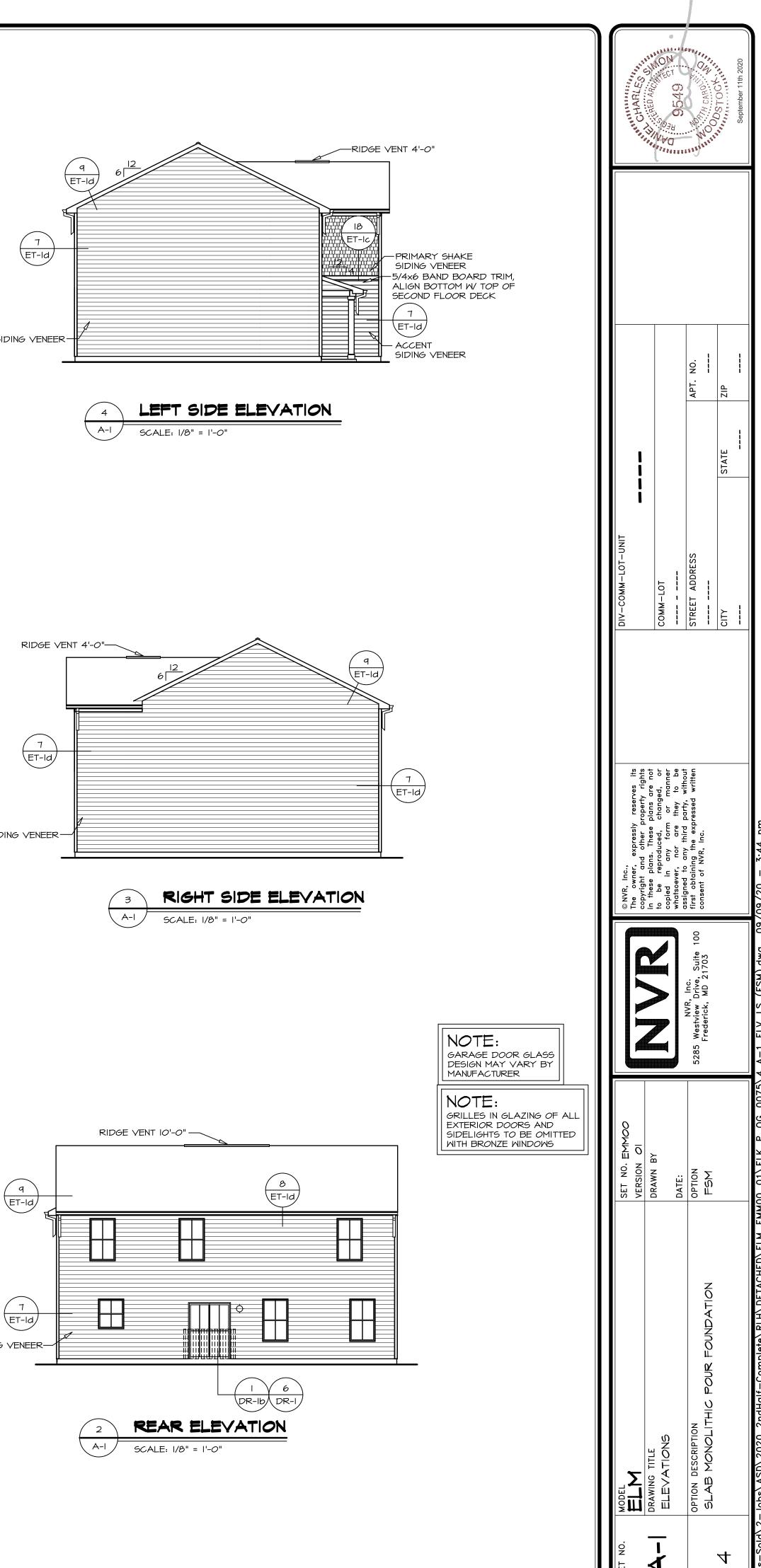
PRIMARY SHAKE SIDING VENEER

- ACCENT SIDING VENEER

-5/4x6 BAND BOARD TRIM, ALIGN BOTTOM W/ TOP OF SECOND FLOOR DECK

4'-0"





		PAD FOC	TING SCH	EDULE	
IDENTIFIER	LENGTH	MIDTH	HEIGHT	ENG. NUM.	REMARKS
FOOI	2'-0"	2'-0"	l'-0"	50001	
F002	13'-3 3/8"	l'-4"	0'-8"	5000l, 50002	
F003	3'-8"	'-4"	0'-8"	50001	
F004	2'-0"	2'-0"	I'-O"	1027	

FOUNDATION DIAGONALS

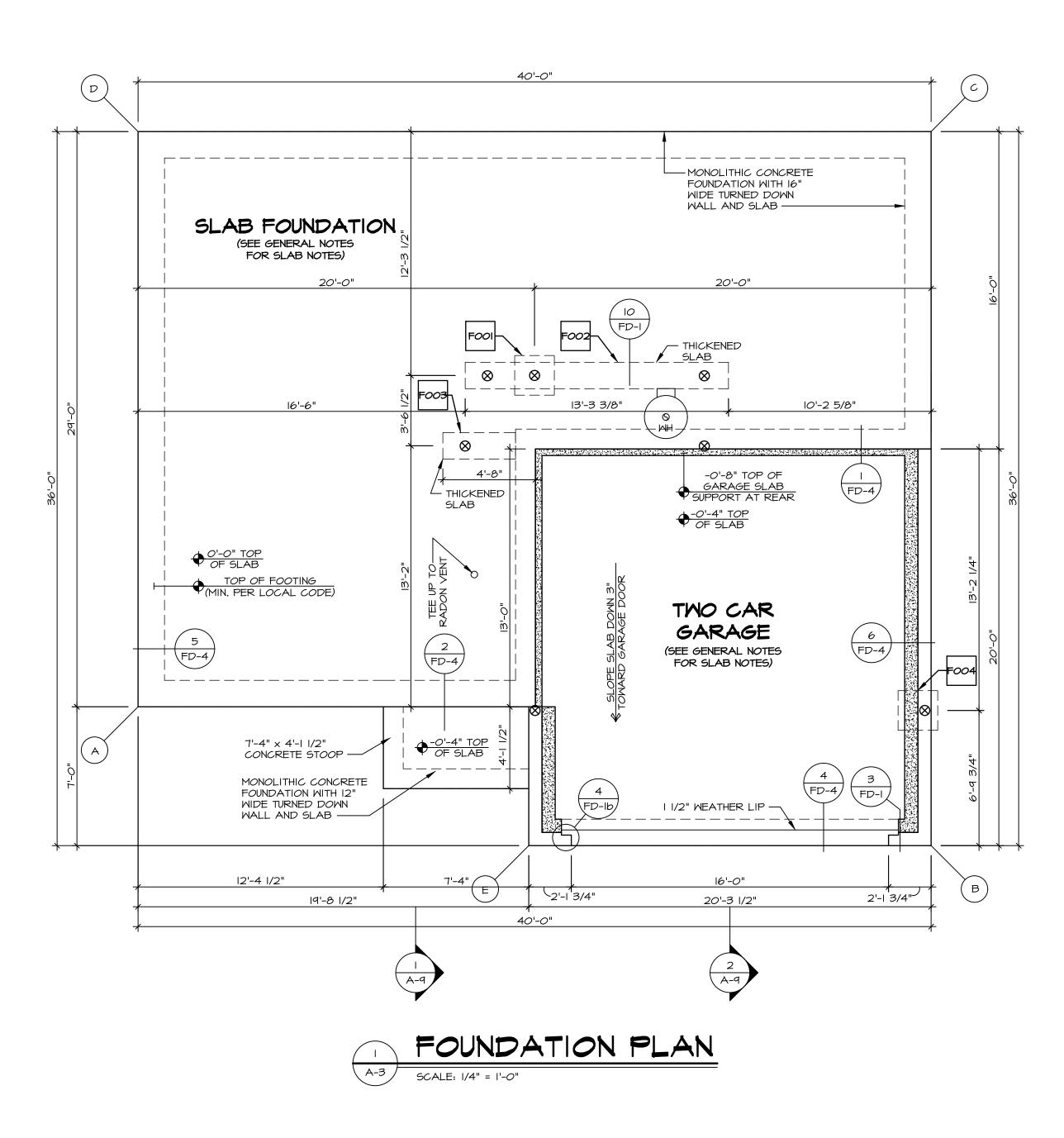
	A		В
A	0"	A	40'-7 5/16"
В	40'-7 5/16"	В	0"
C	49'-4 7/8"	С	36'-0"
D	29'-0"	D	53'-9 3/4"
E	20'-11"	E	20'-3 1/2"

# FOUNDATION NOTES - SLAB

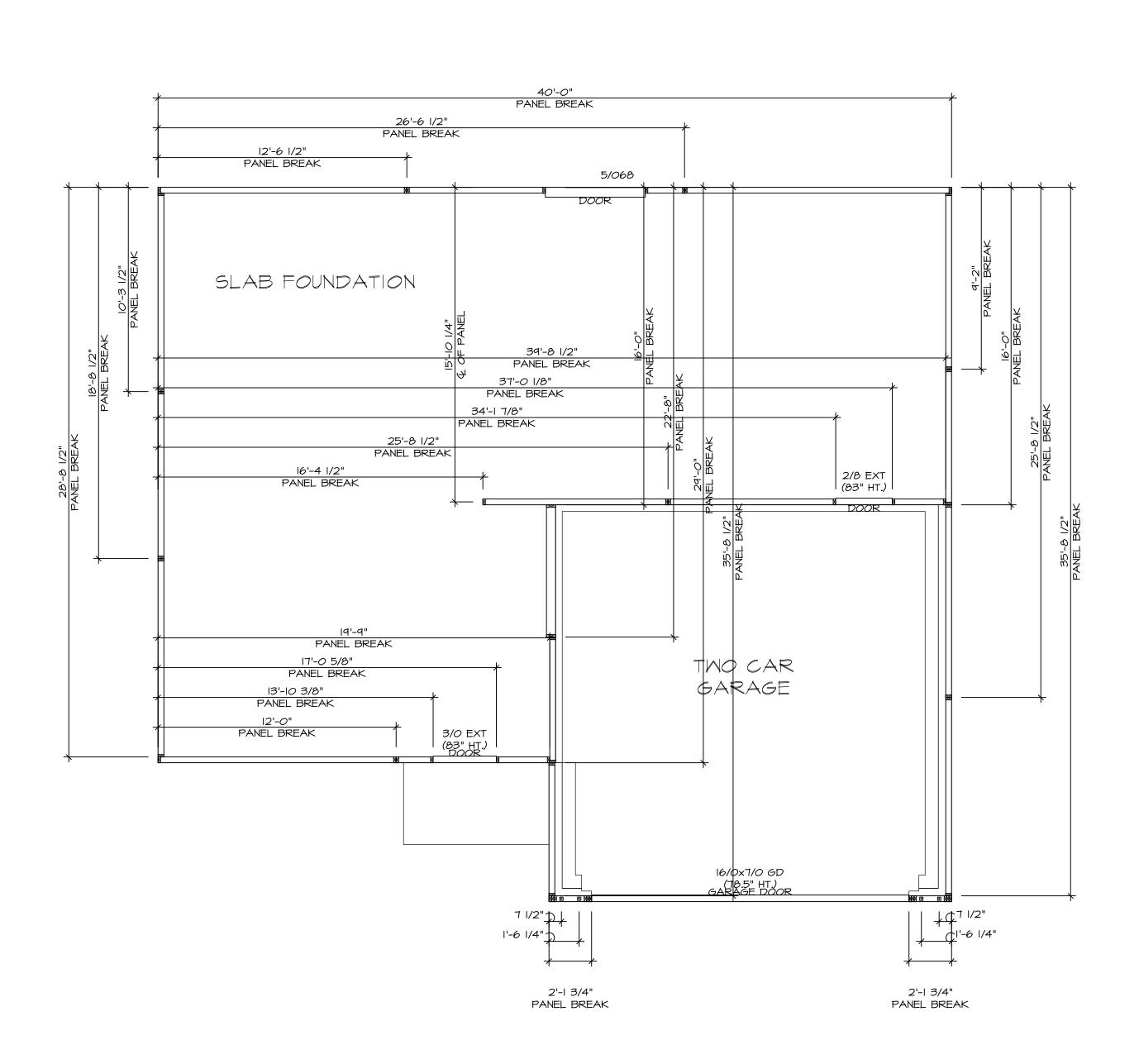
- FOUNDATION UNDER HABITABLE SPACE: I.I. CONCRETE SLAB ON 6 MIL VAPOR BARRIER OVER
- SUB-BASE (SEE SPEC SHEET FOR SLAB NOTES) 2. FOUNDATION UNDER GARAGE:
- 2.1. UNEXCAVATED WITH CONCRETE SLAB ON VAPOR BARRIER OVER SUB-BASE (SEE SPEC SHEET FOR
- SLAB NOTES) OR 2.2. STRUCTURAL CONCRETE SLAB ON VAPOR BARRIER
- OVER SUB-BASE (SEE SPEC SHEET FOR SLAB NOTES) 3. SEE FOUNDATION HOLD DOWN SHEET FOR CONNECTION
- INFORMATION.
- SLAB LEDGE LOCATIONS VARY W GRADE BEAM(S) ORIENTATION. SEE GB-I FOR DETAILS.
   THE DIRECTION OF THE ARROW IS THE DIRECTION OF
- REBAR, AS REQUIRED. ALL FOOTINGS ARE PLAIN, UNREINFORCED CONCRETE UNLESS NOTES OTHERWISE.

EGEND	>

	BEARING WALL
	NON BEARING WALL
$\otimes$	INDICATES BEARING FROM POINT-LOAD ABOVE
J_	JACKS
(B_	BEAM/HEADER
F_	PAD FOOTING
$\langle - \rangle$	STEEL COLUMN
×	TRUSS TIE DOWN
X	PORTAL FRAME
×	JOIST/TRUSS
L	LVL
X	ENGINEERING PAGE NUMBER
	ETAILS FOR CONNECTORS



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	DRAWN RY		in these plans. These plans are not			CAED ARD
FOUNDATION PLAN			to be reproduced, changed, or copied in any form or manner	COMM-LOT		Solution of the second
	DATE:		whatsoever, nor are they to be			
	OPTION	NVR, Inc. 5285 Westview Drive, Suite 100	assgnea to any trura parry, witnout first obtaining the expressed written	STREET ADDRESS	APT. NO.	No.
SLAB FOUNDATION	FSA	Frederick, MD 21703	consent of NVK, Inc.			A CARO
		_		CITY STATE	ZIP	OSTOCK STOCK
						September 11th 2020

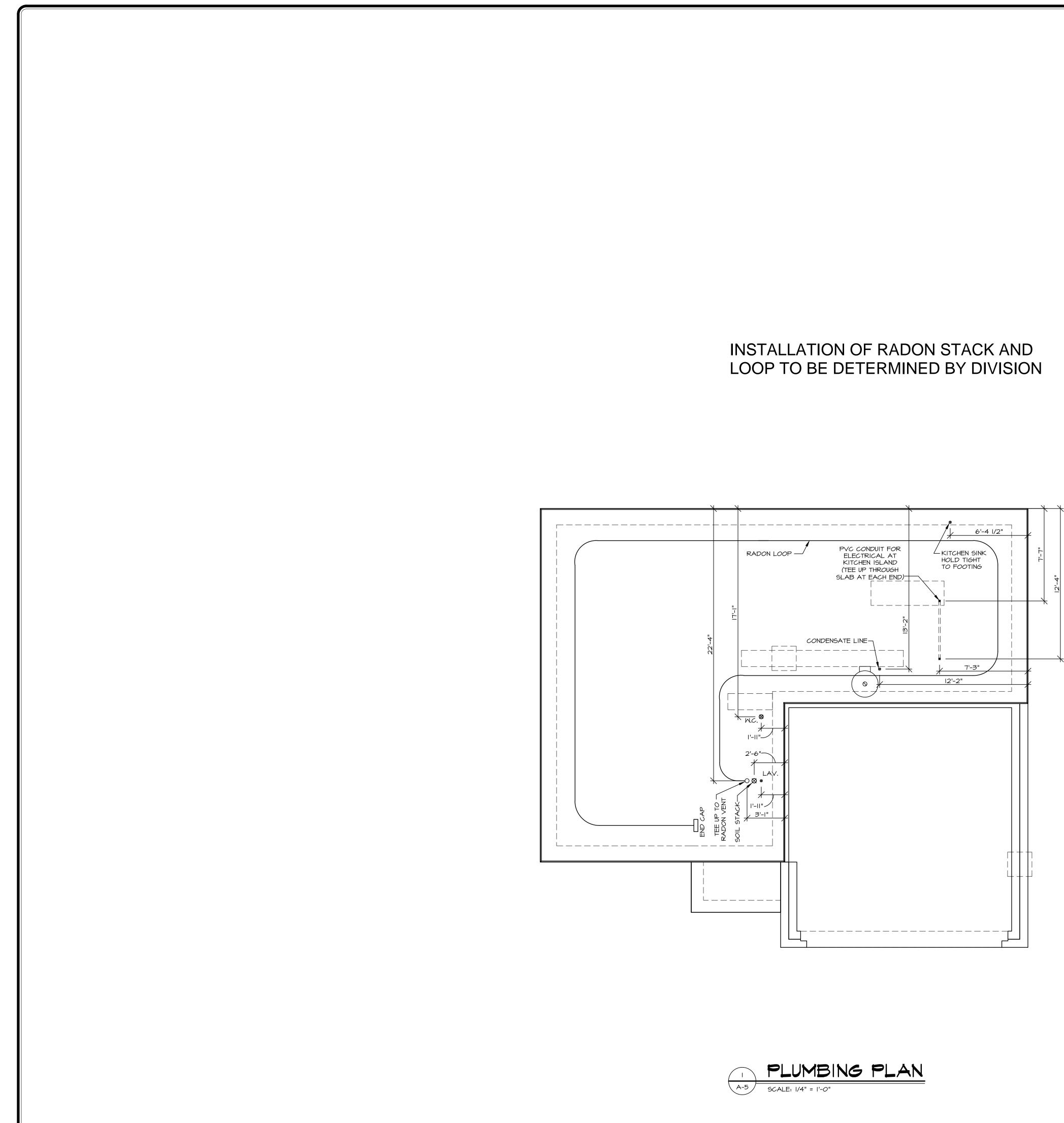




2020	
11th	
September	

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			Frederick, MD 21703	CONSENT OF NAK, INC.		•		TO LO
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								L. CAROL
			(·75 nm		-			2001Sq7.

	HOLD DOWN NOTES ETAIL (9/FD-1) FOR HOLD DOWN OFFSET DIMENSIONS. DETAIL (12/FD-1) FOR HOLD DOWNS ON CMU BLOCK.
<u>≤  2"</u>     •	I. ALL PANELS GREATER THAN 24" SHALL HAVE AN ANCHOR WITHIN 12" OF THE PANEL BREAKS / ENDS. (SEE DETAIL SHEET FF-I FOR MORE INFORMATION ON ANCHOR DETAILS)
STRAP	<ol> <li>STRAP:         <ul> <li>ON FOUNDATION USE (STHDI4)</li> <li>ON FLOOR SYSTEM USE (STHDI4RJ)</li> </ul> </li> <li>ALL OTHER HOLD DOWN SEE DETAIL (WB-2)         <ul> <li>FOR MORE INFORMATION.</li> </ul> </li> <li>STRAP LOCATION ON PLANS <u>SHOWN BY</u> <ul> <li>DASHED DIMENSION TO CENTER OF STUDS</li> </ul> </li> </ol>
	OR
BOLT Mo	<ol> <li>5/8"\$\u03c6 THREADED ROD</li> <li>ALL OTHER HOLD DOWN SEE DETAIL (WB-2) FOR MORE INFORMATION.</li> <li>BOLT LOCATION ON PLANS <u>SHOWN BY SOLID</u> <u>DIMENSION</u> TO CENTER OF BOLT</li> </ol>



- NOTE RADON REMEDIATION <u>RADON LOOP:</u> (4") PERFORATED HDPE "LOOP" MUST BE PLACED IN STONE BED SLIGHTLY HIGHER THAN ANY INTERIOR DRAINTILE LOOP TO BE SEPARATE FROM ANY DRAINTILE ELEMENTS TO BE CORRUGATED HDPE PIPE SCREWS TO BE INSTALLED THROUGH LOOP AT TEE UP INTO STACK STACK REQUIREMENTS:

- SCREME TO BE INSTALLED THROUGH LOOP AT THE UP INTO STACK
  <u>STACK REQUIREMENTS:</u>
  3" PVC STACK (4" IF BASEMENT IS GREATER THAN 2200 SQFT.)
  NO PART OF STACK IS TO BE HORIZONTAL (45° ELBOWS PERMITTED AS REQUIRED)
  PIPE TO BE PHYSICALLY LABELED IN THE FIELD AS "RADON VENT" OR OTHER
  "IPICOLISTICATIONALLY PERMITTED AS ANGUNACE (201 DE PERMITTED AS TRADINGS)
- JURISDICTIONALLY REQUIRED LANGUAGE (ON EVERY LEVEL OF HOUSE)
- Society of the socie

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#### FIRST FLOOR JACK SCHEDULE

IDENTIFIER	DESCRIPTION	ENG. NUM.
IOIL	JACK - (3) 2X4 SPF STUD GRADE	1019
JIO2	JACK - (3) 2X4 SPF STUD GRADE	1019
50IL	JACK - (3) 2X4 SP#I	2004
JIO4	JACK - (3) 2X4 SP#1	2004
JI05	JACK - (2) 2X4 SPF STUD GRADE	1004
JIO6	JACK - (2) 2X4 SPF STUD GRADE	1004
FOIL	JACK - (4) 2X4 SPF STUD GRADE	1002
BOIL	JACK - (2) 2X4 SPF STUD GRADE	1028
POIL	JACK - (4) 2X4 SPF STUD GRADE	1008
OIL	JACK - (2) 2X4 SPF STUD GRADE	1006
IIL	JACK - (3) 2X4 SPF STUD GRADE	1023
JII2	JACK - (3) 2X4 SPF STUD GRADE	1023
EIIL	JACK - (2) 2X4 SPF STUD GRADE	1017
JII4	JACK - (2) 2X4 SPF STUD GRADE	1010
JII5	JACK - (2) 2X4 SPF STUD GRADE	1010

	STEEL COL	UMN SCHE	DULE	
IDENTIFIER	STYLE	HEIGHT	ENG. NUM.	REMARKS
C103	STANCHION PORCH - 3 IN DIA IIGA ADJ	7'-9 1/4"	1017	FSA

### 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.
- 3. 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.
- 4. HATCHED AREAS INDICATE DROPPED CEILINGS. ALL DROPPED CEILINGS ARE 12" UNLESS OTHERWISE NOTED.
- 5. SEE "BRACED WALL PANEL DETAIL SHEET" FOR SPECIAL WALL FRAMING LOCATIONS AND HEADER SIZES, IF
- APPLICABLE. 6. SEE STANDARD DETAIL CATEGORY "IT" SHEET(S) FOR
- INTERIOR TRIM DETAILS. 7. SEE ARCHITECTURAL DETAIL SHEET "AD" FOR HOUSE
- SPECIFIC INTERIOR TRIM OPTION TABLE. 8. ALL HEADERS IN NON-BEARING WALLS SHALL BE A
- SINGLE FLAT 2X4 OR 2X6 ATTACHED TO CRIPPLES ABOVE, UNLESS OTHERWISE NOTED.
- 9. TANKED WATER HEATER SHOWN AS BASE CONDITION, OPTIONAL TANKLESS WATER HEATER IS AVAILABLE IN LIEU OF TANKED WATER HEATER.

## GYPSUM NOTES

AT GARAGE:

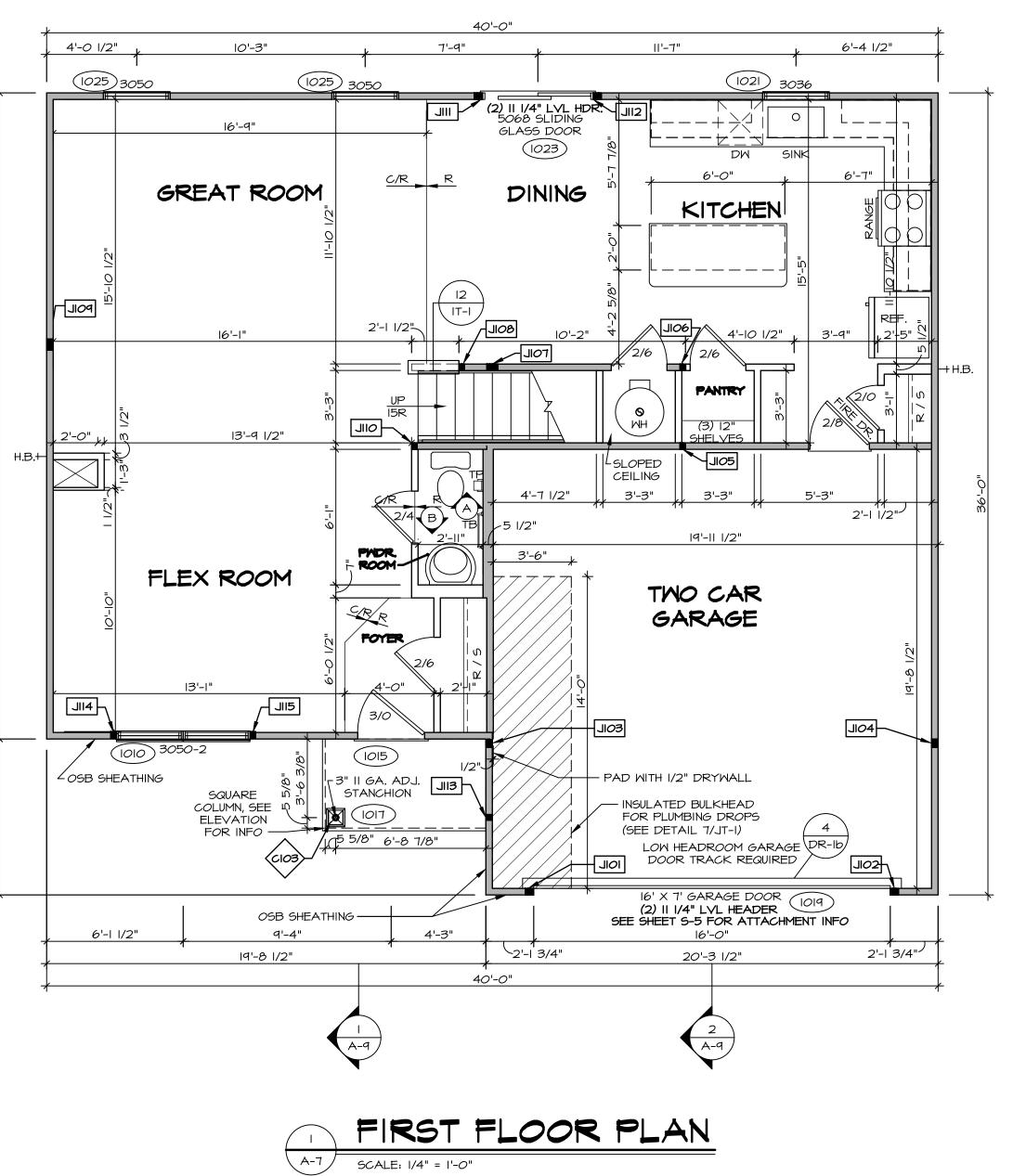
GYPSUM BOARD AT COMMON WALLS, CEILINGS, BEAM WRAPS AND SUPPORTS PER STANDARD DETAIL **FA-I(b)** FIRE ASSEMBLIES OR AS REQUIRED BY LOCAL CODE.

AT STAIRS:

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

LEGE	END
	BEARING WALL
	NON BEARING WALL
$\otimes$	INDICATES BEARING FROM POINT-LOAD ABOVE
	JACKS
B_	BEAM/HEADER
F_	PAD FOOTING
	STEEL COLUMN
×	TRUSS TIE DOWN
×	PORTAL FRAME
X	JOIST/TRUSS
L	LVL
$\mathbf{x}$	ENGINEERING PAGE NUMBER
	DETAILS FOR CONNECTORS
WIDTH, EX	R WALLS DRAWN TO FRAMING TERIOR SHEATHING IS NOT IN WALL THICKNESS.

ALL WINDOWS HAVE 7'-0 1/2" HEADER HEIGHT UNLESS OTHERWISE NOTED



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FIRST FLOOR PLAN	URAWN BY		to represent the standard, or conject in any form or manner (	COMM-LOT			["	MON HITEC
	DATE:		whatsoever, nor are they to be				6321	1 6249 T
OPTION DESCRIPTION	OPTION	NVR, Inc. 5285 Westview Drive, Suite 100	assigned to any mira party, wincut	STREET ADDRESS	AP	APT. NO.	1113	N. N
		Frederick, MD 21703						OCH CARU
				CITY STATE	TE ZIP			With the second s
								September 11th 2020

SEC	OND FLOOR JACK SCHEI	OULE
IDENTIFIER	DESCRIPTION	ENG. NUM.
J201	JACK - (3) 2X4 SP#I	2004
J202	JACK - (3) 2X4 SP#I	2004
J203	JACK - (2) 2X4 SPF STUD GRADE	2002
J204	JACK - (2) 2X4 SPF STUD GRADE	2002

# 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" 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. OPTIONAL TANKLESS WATER HEATER IS AVAILABLE IN
- LIEU OF TANKED WATER HEATER.

# LEGEND

	BEARING WALL
	NON BEARING WALL
$\otimes$	INDICATES BEARING FROM POINT-LOAD ABOVE
L	JACKS
<b>B_</b>	BEAM/HEADER
F_	PAD FOOTING

PAD	FOOTING	

- $\langle c \rangle$ STEEL COLUMN
- [X] TRUSS TIE DOWN
- X PORTAL FRAME
- X JOIST/TRUSS
- L\_\_\_ LVL

 $\sim$ 

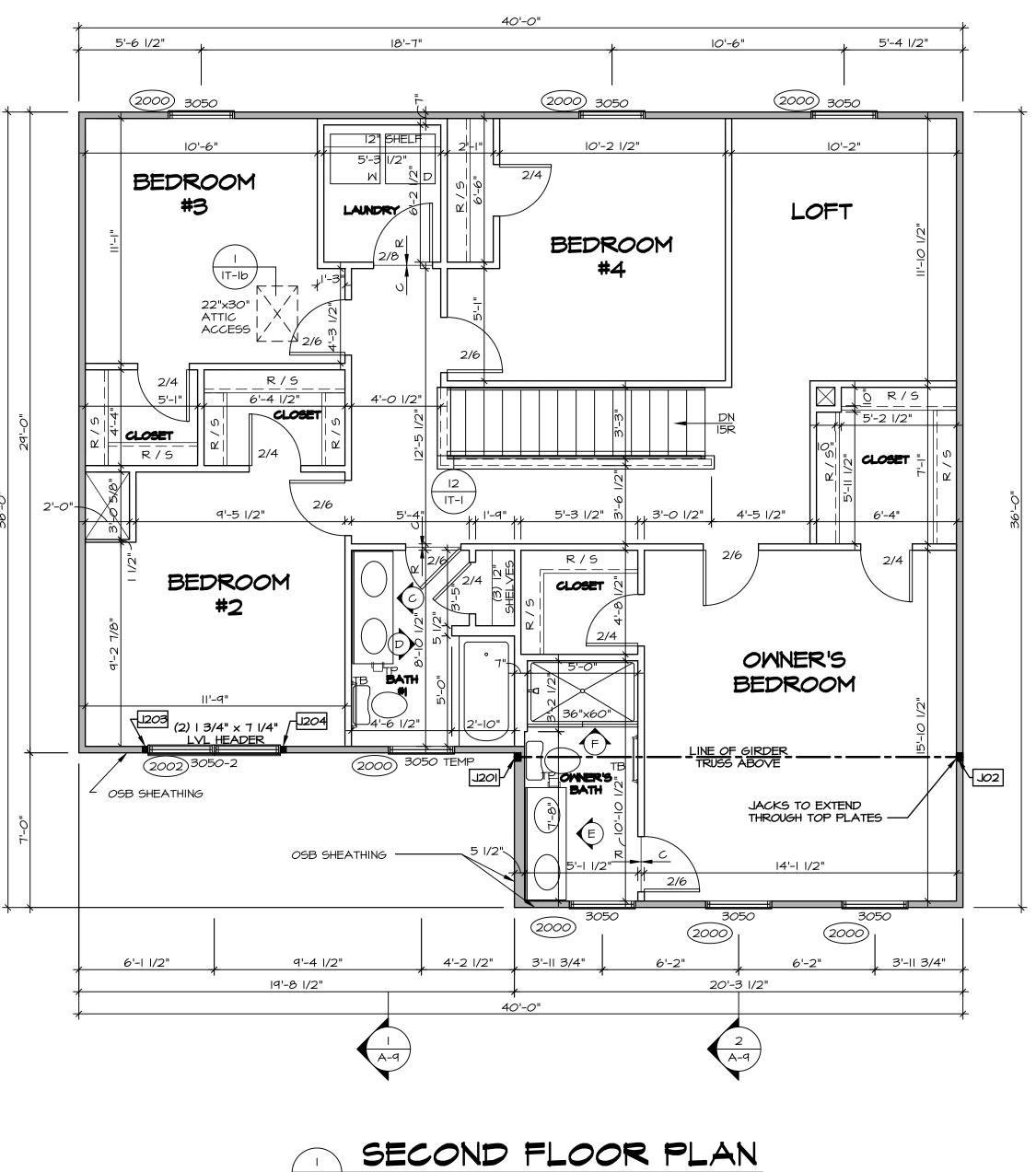
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SEE FC DETAILS FOR FRAMING CONNECTORS

# NOTE:

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

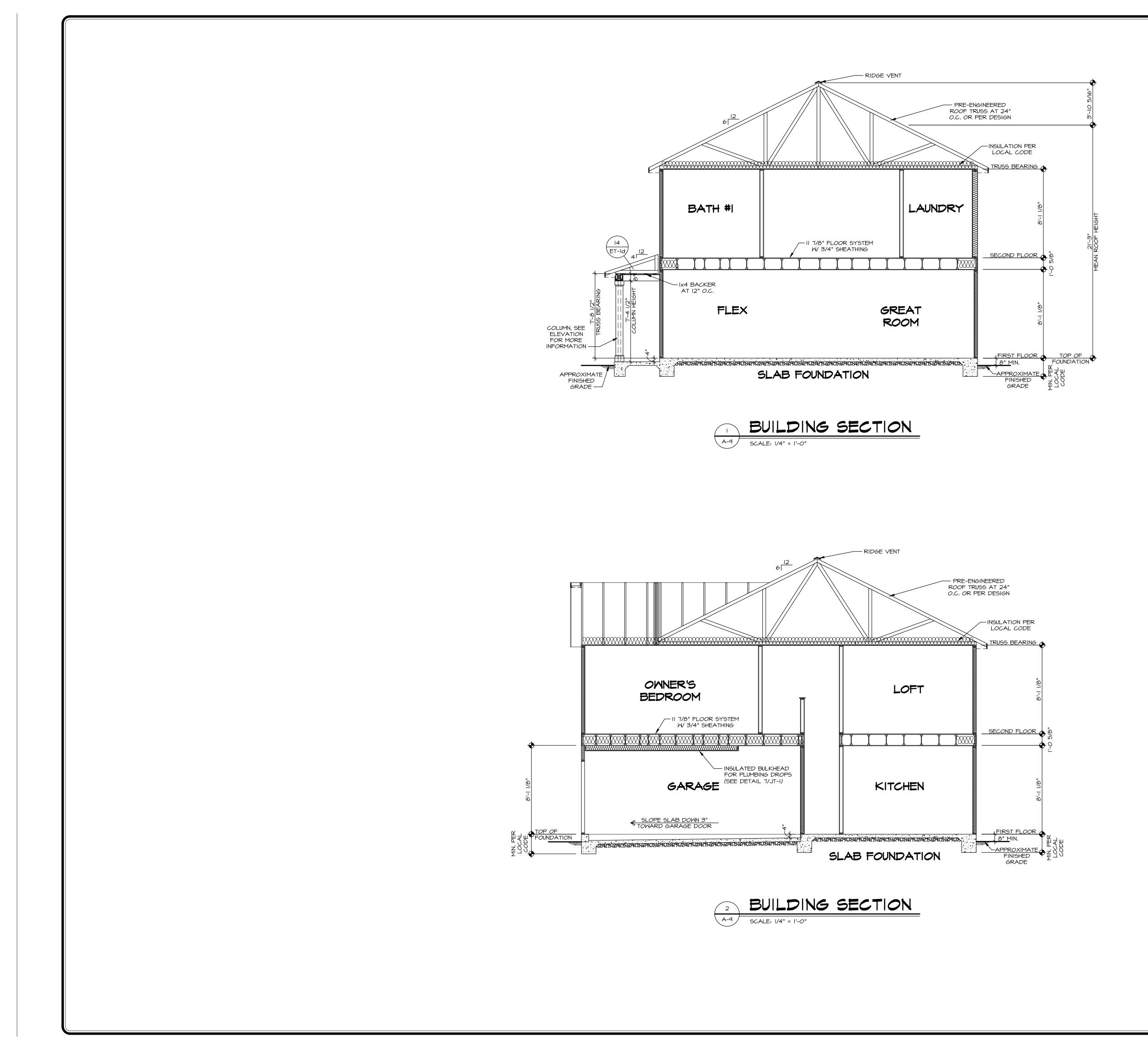
# ALL WINDOWS HAVE 7'-4 5/8" HEADER HEIGHT UNLESS OTHERWISE NOTED



A-8

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

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Frederick, MD 21703



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SECOND FLOOR FRAMING LENGTH SCHEDULE								
IDENTIFIER	DESCRIPTION	LENGTH	ENG. NUM.	REMARKS				
2AA	PRI 60 - 11-14	39'-9 3/4"	1036	J-0040				
2AB	PRI 60 - 11-14	16'-3 3/8"	1039	J-0041				
2AC	PRI 60 - 11-14	19'-9 1/8"	1040	J-0042				
2AD	PRI 60 - 11-14	'-   /2"	1000					
2AE	PRI 60 - 11-14	20'-1 1/4"	1000					
2AF	PRI 60 - 11-14	39'-9 3/4"	1038	J-0044				
2AG	PRI 60 - 11-14	19'-9 1/8"	1000					
2AK	PRI 60 - 11-14	39'-9 3/4"	1037	J-0045				
2AM	PRI 60 - 11-14 DBL	19'-9 1/8"	1008, 1042	J-0043				
2AP	PRI 60 - 11-14	19'-9 1/8"	1041	J-0046				
2AQ	PRI 60 - 11-14	11'-9 7/8"	1000					

	SECOND FLOOR LVL LENGTH SCHEDULE								
IDENTIFIER	DESCRIPTION	LENGTH	ENG. NUM.	REMARKS					
L201-2	LVL - 11-14	12'-5"	1002	I.A					
L202	LVL - 11-14	3'-2 1/4"	1028						
L203-2	LVL - 11-14	4'-6"	1006	I.A					
L204-2	LVL - 11-14	3'-10"	1004	I.A					

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

LVL FASTEN PLIES W/ (5) ROWS 12D 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 OR ALT I 1/2" WIDE LVL FASTEN PLIES W/ (3) ROWS 12D 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 OR ALT I 1/2" WIDE LVL FASTEN PLIES W/ (4) ROWS 12D 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

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.

### I-JOIST FLOOR SYSTEM

SUBFLOOR IS 3/4" TONGUE AND GROOVE OSB STANDARD. 2. JOIST LENGTHS SHIPPED IS THE NEXT HIGHEST LENGTH TO

CUT FROM.

. ALL RIMBOARD TO BE I-1/8" THICK U.N.O. 4. REFER TO STANDARD DETAIL 7/JT-3 FOR HOLE CUTTING GUIDELINES.

6. PROVIDE RIMBOARD SOLID BLOCKING AT EXTERIOR WALLS AND BELOW ALL JACKS AS REQUIRED.

. REFER TO DETAIL 8/JT-3 FOR HANGER DETAIL.

ALL JOISTS TO BE PRI40, PRI60 OR PRI80, REFERENCE SCHEDULE FOR SPECIFIC SERIES PER MEMBER. A. PRI40 SERIES ARE SHOWN AS SHADED ON FRAMING

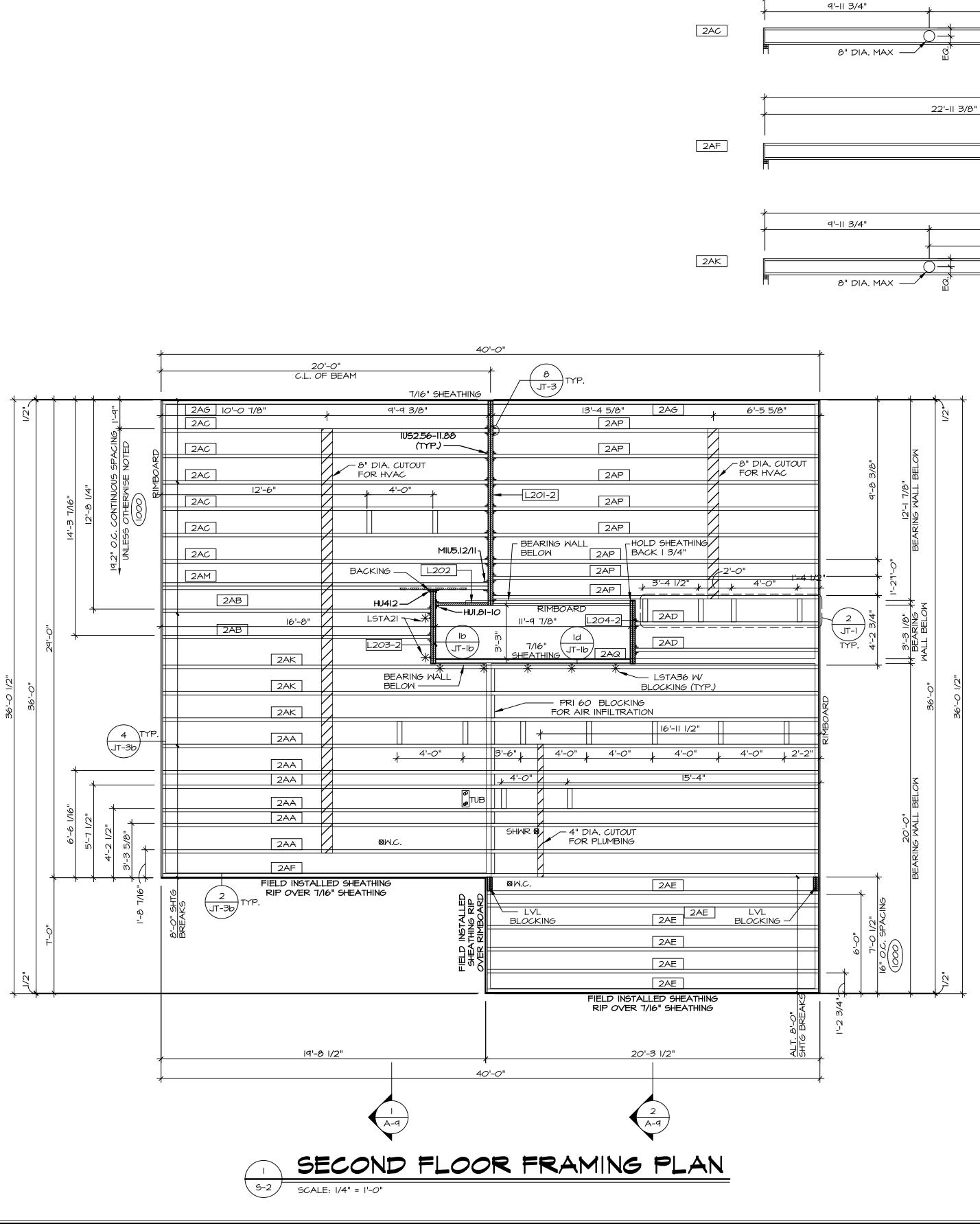
PLAN. B. SEE CONNECTOR / NAIL CHART IN STANDARD DETAILS

(FC-4) FOR TYPICAL HANGERS.

IO. ALL LVL BLOCKING CUT FROM 14'-O" MATERIAL. ADHESIVE TO BE APPLIED AT THE RATE OF (I) TUBE PER TWO AND ONE-HALF SHEETS; SHEETS ARE TO BE GLUED AND PLACED ONE AT A TIME. APPLY GLUE TO TONGUE AND GROOVE.

12. I-JOIST BLOCKING CUT FROM 2'-O" MATERIAL. 13. ADHESIVE TO BE ADDED TO ALL JOIST HANGERS PRIOR TO SETTING JOISTS.

LEGEND						
	BEARING WALL					
8	INDICATES BEARING FROM POINT-LOAD ABOVE					
J_	JACKS					
B_	BEAM/HEADER					
F_	PAD FOOTING					
	STEEL COLUMN					
×	TRUSS TIE DOWN					
×	PORTAL FRAME					
×	JOIST/TRUSS					
L	LVL					
X	ENGINEERING PAGE NUMBER					
SEE FC DETAILS FOR FRAMING CONNECTORS						



9'-11 3/4"

9'-11 3/4"

8" DIA. MAX -----

8" DIA. MAX -

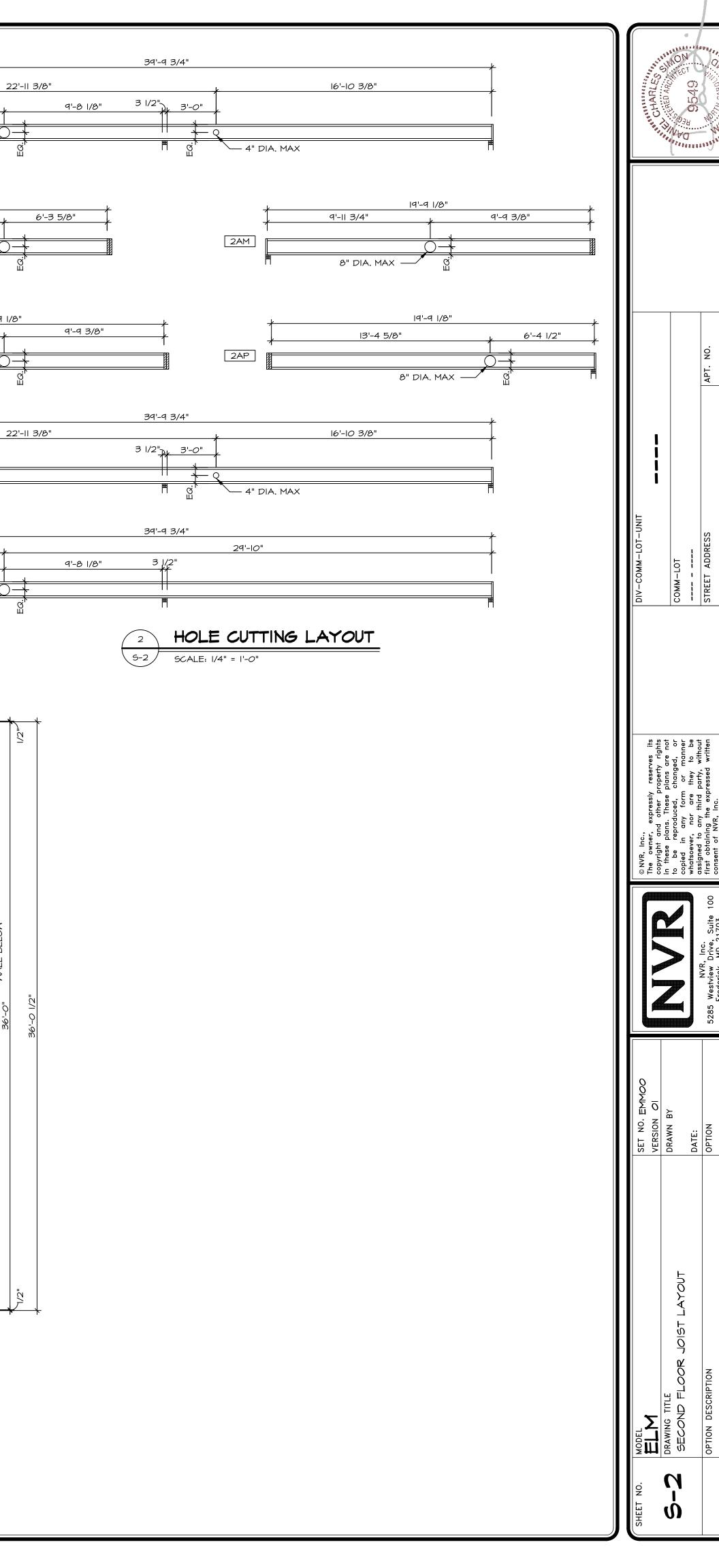
16'-3 3/8"

 $\rightarrow$ 

19'-9 1/8"

2AA

2AB



 $\overline{\rho}$ 

#### TRUSS SCHEDULE

IDENTIFIER	SPECS	TRUSS NUMBER	LENGTH	ROOF PITCH (X/I2)	TYPE
AA	SE	16943	29'-0"	6/12	GABLE END
AB	SE	13183	29'-0"	6/12	COMMON
AC	SE	13184	29'-0"	6/12	COMMON
AD	SE	16944	29'-0"	6/12	GABLE END
AF	SE	16945	20'-3 1/2"	6/12	GIRDER (3 PLY)
AG	SE	13186	20'-3 1/2"	6/12	COMMON
AH	SE	13187	20'-3 1/2"	6/12	COMMON
LA	SE	16989	29'-0"	6/12	COMMON
AK	SE	16946	29'-0"	6/12	SPECIAL
BA	SE	13155	3'-10 1/2"	4/12	MONO
VOI	VT	93344	4'-0"	6-6/12	VALLEY
<i>∨0</i> 2	VT	93345	8'-0"	6-6/12	VALLEY
V <i>0</i> 3	VT	93346	12'-0"	6-6/12	VALLEY
√04	VT	93907	16'-0"	6-6/12	VALLEY
<i>∨0</i> 5	VT	91920	20'-0"	6-6/12	VALLEY

### FIELD INSTALLED ROOF FRAMING BEAM/HEADER

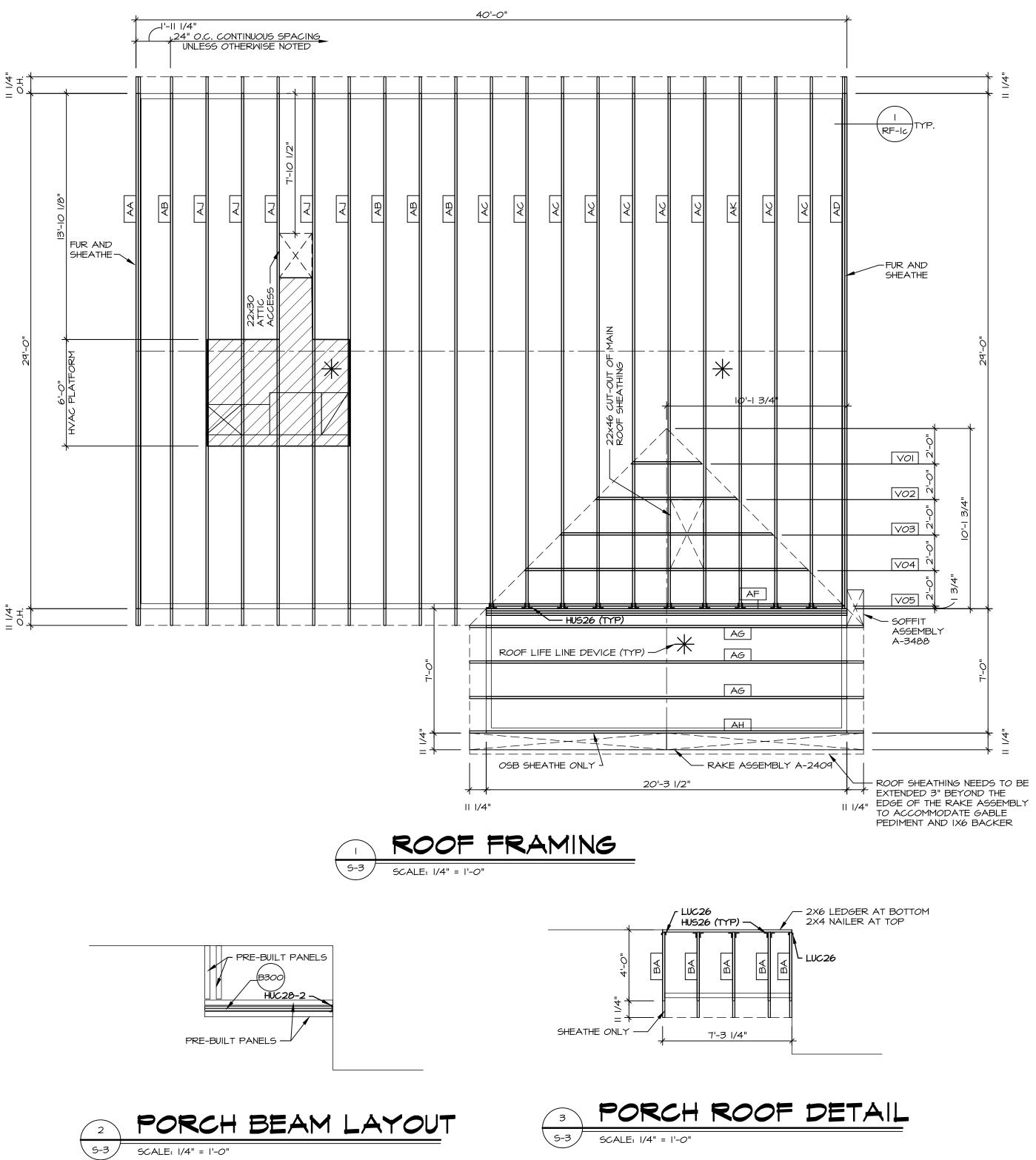
IDENTIFIER	DESCRIPTION	LENGTH	ENG. NUM.	REMARKS
B300	BEAM BUILT 2X8 - 2 PLY RFF	7'-2  /2"	1017	

## ROOF FRAMING NOTES

- REFER TO THE STANDARD DETAILS FOR THE FOLLOWING: I.I. TRUSS TIE-DOWNS (I/RF-I)
- I.2. PIGGYBACK TRUSS ATTACHMENT (2/RF-I) I.3. VALLEY GABLE TRUSS BRACING (3/RF-I)
- I.4. GABLE BRACING (I/RF-Ic)
- 1.5. TRUSS BRACING (2/RF-1c) 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.

LEGE	END
	BEARING WALL
$\otimes$	INDICATES BEARING FROM POINT-LOAD ABOVE
J_	JACKS
B_	BEAM/HEADER
F_	PAD FOOTING
	STEEL COLUMN
×	TRUSS TIE DOWN
X	PORTAL FRAME
X	JOIST/TRUSS
L	LVL
X	ENGINEERING PAGE NUMBER
	ETAILS FOR CONNECTORS

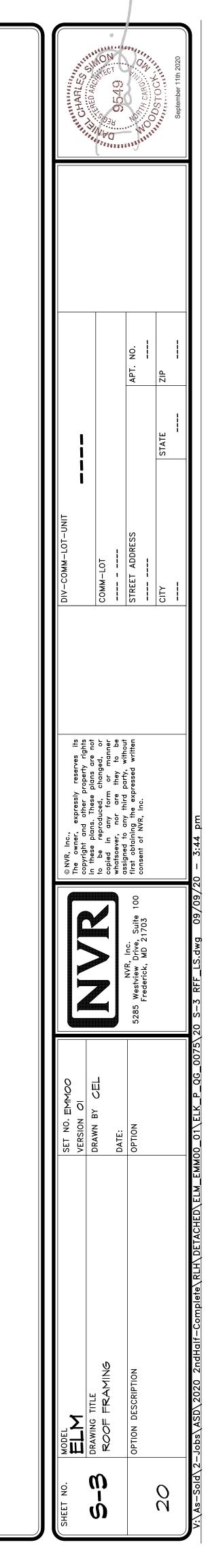
	ROOF	VENTIL	ATION	SUMN	<u>/IARY</u>								
HOUSE	EL	M			VENTILATIO	ON VALUES		]					
SET #	EMI	V100		SOFFIT:	9.9	sq in of ver	nt per lf						
VERSION	1	L		RIDGE:	18	sq in of ver	nt per lf						
Insert Row	(s)			BOX:	45	sq in of ver	nt <mark>per</mark> unit	]					
Location / Options	Area (A)	Required: A/150	Required: A/300	Soffit	Soffit Vent	Ridge	Ridge Vent	Upper box vent	Lower box vent	TOTAL	OK A/150	OK A/300	
	(sq in)	(sq in)	(sq in)	( <i>\f</i> )	(sq in)	(lf)	(sq in)	(qty)	(qty)	(sq in)			ri
BASE HOUSE W/ ELK	187494	1249.96	624.98	73	722.70	14	252.00			974.70	NO	YES	4
STD. PORCH W/ ELK	4232	28.21	14.11	7	69.30		0.00			69.30	YES	YES	í



 % vent at ridge
 40%-50% OK?

 40.32%
 OK

 0.00%
 LOW



## TRUSS BRACING NOTES

- . IF TRUSS DOES NOT APPEAR ON THIS TRUSS BRACING SHEET, NO ADDITIONAL LATERAL BRACING IS REQUIRED.
- SILLET, RED.
   IX6 SPF#2 LATERAL BRACES SHALL BE NAILED TO MINIMUM (3) TRUSS MEMBERS WITH MINIMUM (2) IOD NAILS. PROVISIONS MUST BE MADE AT ENDS OR SPECIFIED INTERVALS TO RESTRAIN OR ANCHOR LATERAL BRACING.
   WEB "T" BRACE, DETAIL 3/RF-IC, IS REQUIRED WHERE LATERAL BRACING IS NOT CONTINUOUS ACROSS THREE (3) OR MORE TRUSSES AND MAY BE USED IN LIEU OF IX6 LATERAL BRACING.
   DIAGONAL BRACING REQUIRED WHEN LATERAL BRACING IS REQUIRED (1/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-IC 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.

- AND DIAGONAL TRUSS BRACING.

AJ SE-16989

AK SE-16946



NO.       MOEL         A       EIN       ENN. MOEL         A       EIN       ENN. MOEL         A       EIN       ENN. MOLL         A       EIN       ENN. MOLL         A       EIN       ENN. MOLL         DRAW BY CEL       DRAW BY CEL       EIN         DATE:       MOLL       EIN         DATE:       DATE:       EIN         DATE:       EIN       EI										
A     DRAWING TITLE       DRAWING TITLE       TRUGS BRACING DETAILS       DATE:	SHEET NO.	MODEL ELZ	SET NO. EMMOO VERSION OI		© NVR, Inc., The owner, expressly reserves its	-			AND CHARLES	LEGERE
TRUSS BRACING DETAILS       DATE:       NNR, Inc.       Commenced, changed, or manner without sessioned in any form on manner without first obtaining the expressed written       COMM-LOT         0PTION DESCRIPTION       5285 Westview Drive, Suite 100       5285 Westview Drive, Suite 100       5285 Westview Drive, Suite 100       Erederick, MD 21703         Frederick, MD 21703       0PTION DESCRIPTION       CITY       CITY       CITY       CITY	7	DRAWING TITLE	DRAWN BY CEI		copyright and other property rights				A STERED A	190
DATE:     DATE:     Image: Constraint of the second of any third party, without designed to any third party, without first obtaining the expressed written     Image: Constraint of NR, Inc.       0PTION     5285 Westview Drive, Suite 100     5285 Westview Drive, Suite 100     5285 Westview Drive, Suite 100       Frederick, MD 21703     consent of NR, Inc.     Image: Consent of NR, Inc.	<b>†</b>	TRUSS BRACING DETAILS	1		to be reproduced, changed, or copied in any form or manner	COMM-LOT			S/D31	ON
OPTION DESCRIPTION     5285 Westview Drive, Suite 100     first obtaining the expressed written     STREET ADDRESS     APT.         APT. I     5285 Westview Drive, Suite 100     first obtaining the expressed written     CITY     Image: Street address and street address a			DATE:	-	whatsoever, nor are they to be assigned to any third barry, without					 
Frederick, MD 21703		OPTION DESCRIPTION	OPTION	5285 Westview Drive, Suite 100	first obtaining the expressed written	STREET ADDRESS	AP	. NO.	N. A	
CITY STATE ZIP				Frederick, MD 21703					N CO N CN	A A A A A A A A A A A A A A A A A A A
				_					AND ASTO	Not OCT
				_					Septembe	September 11th 2020

5'-6 1/2" 7'-3" 11'-9 1/4" WSP BWL 102.00 -+--CS-WSP CS-WSP BWL 100.02 (PI)(P2)**Q**===== 4'-8 7/8"

, 3'-1 1/2"

40'-0"

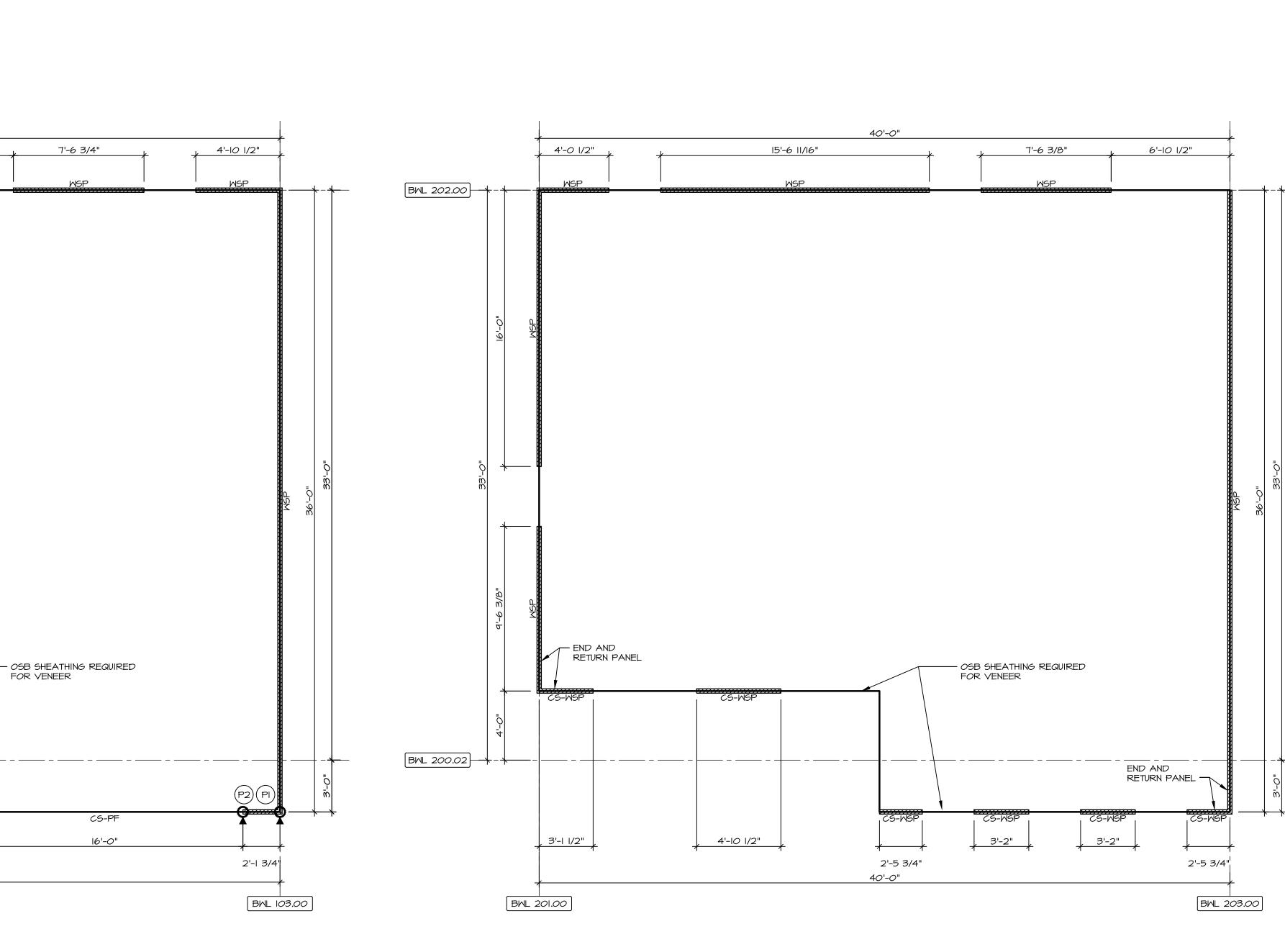
40'-0"

2'-l 3/4"



				LEGEND	
FAS	TENING SCHED	JULE		BWL XXX.XX	BRACED WALL LINE I.D
		SPA	CING		BRACED WALL LINE
SHEATHING	FASTENER	EDGES	FIELD		HOUSE WALL
7/16" WOOD STRUCTURAL	8d COMMON NAILS	6" O.C.	12" <i>O</i> .C.	7///////	BRACED WALL PANEL
PANELS OR EQUIVALENT	ALTERNATIVE FASTENER			WSP	WOOD STRUCTURAL PAI
(W/ METHOD WSP, CS-WSP, CS-G)	CORROSION RESISTANT	3" 0.C.	12" <i>O</i> .C.	GB	GYPSUM BOARD (1) SIDI
1/2" GYPSUM WALLBOARD	I-1/4" LONG, I/4" HEAD, .098" DIA. ANNULAR-RINGED NAILS	ס.c. "ד	ס.כ. "ד	GB-BW	GYPSUM BOARD BLOCK CONSTRUCTION (I) SIDEI (SEE STANDARD DETAI
(W/ METHOD GB-I, GB-2)	CORROSION RESISTANT TYPE W I-I/4" DRYWALL SCREWS	ס.c. "ד	-7" O.C.	LIB	LET-IN BRACING (SEE STANDARD DETAI
LAMINATED FIBROUS	IOd X I I/4" GALVANIZED ROOFING NAILS	З" O.C.	З" О.С.	CS-WSP	CONTINUOUS SHEATHING WOOD STRUCTURAL PA
STRUCTURAL SHEATHING	I-I/4" I6-GAUGE CORROSION RESISTANT STAPLES	3" O.C.	З" О.С.	CS-PF	CONTINUOUS SHEATHING PORTAL FRAME, SEE FL PORTAL FRAME HEADE
I/2" GYPSUM WALLBOARD BLOCKED AT THE EDGES (W/ METHOD GB-BW-I, GB-BW-2)	CORROSION RESISTANT	4" <i>O</i> .C.	12" O.C.	CS-6	(SEE STANDARD DETAIL CONTINUOUS SHEATHING STRUCTURAL PANEL AD GARAGE OPENINGS
STRUCTURAL	, CROWN WIDTH FOR STAPL PANEL. 'PSUM FASTENING REQUIRE			►O	HOLD-DOWN I. SEE SHEET WB-2 "P_ INDICATOR SCHEDUL 2. ARROW INDICATES L
METHOD GB IS SPECS FOR T 3. USE OF STAPI	5 IDENTIFIED. SEE PHASE YPICAL GYPSUM FASTENER LES IN WOOD STRUCTURAL ETHOD ON WALLS PER ENG	R SPACINO PANEL A	5.	METHOD IN COMF	I ANALYZED UTILIZING A F PLIANCE WITH INTERNATIO ESS OTHERWISE NOTED.

	LEGEND		
]	BWL XXX.XX	BRACED WALL LINE I.D.	
		BRACED WALL LINE	
		HOUSE WALL	SHEATHI
	777777777	BRACED WALL PANEL	ON ALL WALLS U
	WSP	WOOD STRUCTURAL PANEL	ON THE FLOOR F ACCORDANCE W EVALUATION REF
	GB	GYPSUM BOARD (1) SIDED OR (2) SIDED	PERFORMANCE L
	<i>G</i> В-ВМ	GYPSUM BOARD BLOCKED WALL CONSTRUCTION (I) SIDED OR (2) SIDED (SEE STANDARD DETAIL G/WB-2)	SHALL BE PERFO WITH THE PROVIS STRUCTURAL PAI DEFINED IN THE
	LIB	LET-IN BRACING (SEE STANDARD DETAIL F / WB-2)	<u>STRUCTURAL SHE</u> - OX THERMO
	CS-WSP	CONTINUOUS SHEATHING - WOOD STRUCTURAL PANEL	TER NO. 100 - BARRICADE TER NO. 150
	CS-PF	CONTINUOUS SHEATHING - PORTAL FRAME, SEE FLOOR PLANS FOR PORTAL FRAME HEADER INFORMATION (SEE STANDARD DETAIL A, C/ WB-2)	- NSP DRYLN TER NO. 140
	CS-6	CONTINUOUS SHEATHING - WOOD STRUCTURAL PANEL ADJACENT TO GARAGE OPENINGS	
	<b>₽</b>	HOLD-DOWN	WIND SPEED (UL
		I. SEE SHEET WB-2 "P_"	130 MPH 130 MPH
		INDICATOR SCHEDULE AND DETAILS 2. ARROW INDICATES LOCATION	I30 MPH
	NOTEC		I30 MPH
	NOTES:		I30 MPH
		ANALYZED UTILIZING A PRESCRIPTIVE	I30 MPH
		LIANCE WITH INTERNATIONAL RESIDENTIAL ESS OTHERWISE NOTED.	I30 MPH





HEATHING NOTE MINATED FIBROUS STRUCTURAL (LFS) EATHING MATERIAL SHALL BE INSTALLED N ALL WALLS UNLESS OTHERWISE NOTED CCORDANCE WITH SBCRI TECHNICAL VALUATION REPORT. STRUCTURAL ERFORMANCE UNDER LATERAL LOAD NDITIONS IS DESIGNED. INSTALLATION HALL BE PERFORMED IN ACCORDANCE TRUCTURAL PANELS (WSP/CS-WSP) AS EFINED IN THE APPROPRIATE TER SECTION. TRUCTURAL SHEATHING MATERIAL OX THERMO-PLY TER NO. 1004-01 BARRICADE THERMO-BRACE TER NO. 1507-08 NSP DRYLNE TSX TER NO. 1407-06

BRACED WALL LINE SCHEDULE									
IND SPEED (ULT)	IDENTIFIER	ACTUAL (FT)	REQUIRED (FT)	METHOD					
130 MPH	BWL 100.02	14.31'	10.99'	CONTINUOUS (2 SIDES)					
130 MPH	BWL 102.00	19.68'	12.51'	WSP (2 SIDES)					
130 MPH	BWL 103.00	36.00'	15.33'	WSP (2 SIDES)					
130 MPH	BWL 200.02	19.31'	3.95'	CONTINUOUS (2 SIDES)					
130 MPH	BWL 201.00	25.53'	7.18'	WSP (2 SIDES)					
130 MPH	BWL 202.00	27.13'	6.07'	WSP (2 SIDES)					
130 MPH	BWL 203.00	36.00'	7.18'	WSP (2 SIDES)					
		-							

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ທ ມ	DRAWING TITLE WALL BRACING DETAILS	DRAWN BY Date:		in these plans. These plans are not to be reproduced, changed, or copied in any form or manner whatsoever, nor are they to be	COMM-LOT			C REPUTION NO.
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22					CITY S	STATE Z	ZIP	September 11th 2020
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