

OWNER / CONTRACTOR NOTES:

- THE SEALING OF THIS PLAN AUTHORIZES THE CONSTRUCTION FROM THESE PLANS FOR ONE HOUSE ON ONE LOT. UNSEALED PLANS MUST NOT BE USED FOR CONSTRUCTION. CONSTRUCTION FROM THESE PLANS MUST BE FROM THE LATEST APPROVED DATE PLANS, INCLUDING REVISIONS AND ADDENDA.
- CONSTRUCTION DEVIATING FROM THESE PLANS WILL INVALIDATE THEIR PLANS 2. COMO FIND CHEMING FROM THESE PROME WILL INVALIDATE THEIR PROMISE RECIEW PERMITED USE. THE DESIGNER MUST BE NOTIFIED IMMEDIATELY OF CONSTRUCTION DEVIATION FROM DEVICTED OR IMPLIED INFORMATION HEREIN. LETT FROM THE ARCHITECTEMENISER MAY BE DO STAINED FOR A FEET O VERIFY THE FEASIBILITY AND COMPLIABILITY OF ANY CHANGES. UNDEVERT, THE CONVERENCEMENT ASSESSMENT SALL RISKE FROM DEVARIANT FROM THESE PLANS.
- 4. THE OWNER AND/OR CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE FOLLOV INFORMATION (NON-EXHAUSTIVE): BUILDING PERMITS, SITE ENGINEERING INCLUDING SURVEYING, FOOPGGRAPHIC STUDIES, GEOTECHNICAL REPORTS, AND SEPTIO PERMIT INTERIOR CASEWORK DESIGN; PLUMBING, MECHANICAL, AND ELECTRICAL DESIGN.

THIS PLAN HAS BEEN DESIGNED UNDER THE 2018 NORTH CAROLINA RESIDENTIAL CODE.

APPLICABLE CODES: N.C. FIRE CODE, 2018
N.C. MECHANICAL CODE, 2018
N.C. PLUMBING CODE, 2018 N.C. ENERGY CODE, 2018 NATIONAL ELECT. CODE, 2017

CONSTRUCTION NOTES:

THE FOLLOWING IS A NON-EXHAUSTIVE LIST OF SOME COMMONLY MISSED CODE REQUIREMENTS AND ARE ENFORCEABLE IN THE CONSTRUCTION FROM THESE PLANS. SEE THE NC. RESIDENTIAL CODE BOOK FOR MORE INFO.

1. (R308.4) ALL GLAZING WITHIN 24" OF EITHER SIDE OF A DOOR IN A CLOSED POSITION, AND ON THE SAME WALL PLANE SHALL BE TEMPERED. ALL WINDOWS THAT MEET ALL OF THE FOLLOWING CONDITIONS SHALL BE TEMPERED: A) INDIVIDUAL PANES OF MIN, 9 S.F., B) BOTTOM EDGE IS WITHIN 18" OF FLOOR. () TOP EDGE IS AT LEAST 36" ABOVE FLOOR, AND O) GLAZIONE IS WITHIN 18" OF PLOOR. () TOP EDGE IS AT LEAST 36" ABOVE FLOOR, AND O) GLAZIONE IS WITHIN 50" OF HOT UBS OR STATE LEADING AND FINISH EDGES. TEMPERED WINDOWS ALSO REQUIRED PER REMAINDER OF THIS CODE SECTION.

2. (R310.1) ALL SLEEPING ROOMS AND BASEMENTS WITH HABITABLE SPACE SHALL HAVE AT LEAST ONE EGRESS WINDOW CONFORMING TO THE FOLLOWING: A) MIN. 40 S.F. CLEAR OPENING: B) MIN. TOTAL GLASS AREA OF 5.9 SQ (GROUND FLOOR WINDOW) AND 5.7 S.F. (JUPPER STORY WINDOW). IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHOSE THE PROPER CONPORMING WINDOW. AND HAVE EGRESS WINDOWS PROPERLY DISTRIBUTED AND INSTALLED AS REQUIRED.

3. (R311.4) ALL INTERIOR EGRESS DOORS AND A MINIMUM OF ONE EXTERIOR EGRESS DOOR SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT USE OF A KEY OR SPECIAL KNOWLEDGE.

4. (R311.5) MAXIMUM STAIR RISER HEIGHT SHALL BE 8-1/4", AND MINIMUM TREAD SHALL BE 9".

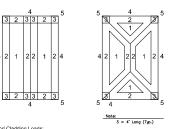
5. (R313) SMOKE ALARMS SHALL BE INSTALLED AND INTERCONNECTED, WITH BATTERY BACK UP IN THE FOLLOWING AREAS: EACH SLEEPING ROOM: IN THE AREA (HALLWAY) RIGHT OUTSIDE THE SLEEPING ROOMS; AND EACH STORY. THE ONE OUTSIDE THE SLEEPING ROOMS THAT STORY.

- 6. (R402.1.2) ALL TREATED LUMBER SHALL BEAR THE DESIGNATION AWPA U1
- 7. (R406.1) BITUMINOUS DAMPPROOFING SHALL BE APPLIED TO EXTERIOR FOUNDATIONS OF ALL HABITABLE AND USABLE (STORAGE, ETC) SPACES.
- 8. (R408.2) INSTALL ONE FOUNDATION VENT WITHIN 3° OF EACH CORNER (NOT ONE EACH SIDE OF EACH CORNER).
- 9. (R703.8) FLASH ALL VALLEYS AND WALL/ROOF INTERSECTIONS, AND CHIMNEY AND OTHER ROOF PENETRATIONS. USE ICE AND WATER SHIELD ON ALL ROOFS LESS THAN 4.12 SLOPE. FLASHING TO BE NON-CORROSIVE.
- 10. (R807.1) BUILDER TO LOCATE 22°X30" ATTIC ACCESS IN ALL ATTICS WITHOUT STAIR ACCESS. LOCATE ACCESS TO PROVIDE A 30" CLEAR SPACE ABOVE ACCESS DOOR-TYP.
- 11. (R1003) MASONRY FIREPLACE WALLS TO BE MIN. 8" THICK, AND MIN. 2" TO FRAMING. POURED HEARTHS TO HAVE MIN #4@12" O.C. EACH WAY. HEARTHS TO BE MIN. 20" FROM FIREBOX AND HAVE MIN. 12" WIDER THAN FIREBOX ON EACH SIDE.
- 12. (TABLE N1102.1) MINIMUM INSULATION VALUES, SEE CODE BOOK FOR MORE COMPLETE INFORMATION.

FLOOR BASEME. R-VALUE WALL R-VALUE 1 5/13 f 10/15 fc 0.30 38 or 30ci 15, 13+2.5 0.30 38 OR 30 Cl 15, 13+2.5 15, 13+2.5 NR 38 OR 30 CI 19, 13+5, OR 15+3 0.35

CLIMATIC AND GEOGRAPHIC NOTES:

		CLIMATIC AND	GEOGRA	PHIC DES	IGN CRI	TERIA				LEAD DESIGN F
ROOF SNOW LOAD	WIND SPEED (MPH) (FIGURE 301.2.4)	SDISMIC DESIGN CATEGORY	SUBJECT TO DAMAGE FROM		MINTER DESIGN TEMP.	FLOOD HAZARDS		DESIGNER		
20 PSF	3 SEC. GUST: 115	8	MEATHERING	FROST LINE	TERMITE	DECAY				Architectural
PSF	FASTEST MILE: 120	(REF: FIG. 310.2(2))	MODERATE	12*	MOD TO HEAVY	NOD.	20	N/A	IJ	Structural
Wind	Loads	Basic Wind	Canad		10	O MOL	/7 SECON	ID CUST)		Landscape
		.,	115 MPH				H (3-SECOND GUST) H (FASTEST MILE)		Interiors	
		Evangura (hurban)			



Component and Cladeling Educati		
Worst Case - 10 s.f. (typ.)		
Exposure Zone	Design Pressure	Uplift Force
Zone 1:	16.5 psf	-18.0 psf
Zone 2:	16.5 psf	-21.0 psf
Zone 3:	16.5 psf	-21.0 psf
Wall, Zone 4:	15.9 psf	-17.8 psf
Wall, Zone 5:	17.8 psf	-26.7 psf
Window/Door, Zone 4, Floor 1:	10.5 psf	-4.9 psf
Window/Door, Zone 4, Floor 2:	14.2 psf	-9.8 psf
Window/Door, Zone 5, Floor 1:	15.9 psf	-8.7 psf
Window/Door, Zone 5, Floor 2:	17.8 psf	-12.2 psf
Porch Roof - Less than 5:12 Pitch	10.4 psf	-34.8 psf

***All windows shall be labeled to conform with AAMA/NWWDA 101.I.S.2 and be rated for min. DP25 classification for all windows within 4' of outside corners and DP20 elsewher

PROJECT DATA:

LEAD DESIGN	PROFESSIONAL:			
DESIGNER	FIRM	NAME	License #	Telephone #
Architectural				
Structural		Marc W. Mills, R.A.	7579	(919) 795-3845
Landscape		_		()
Interiors	_	-		()
Other		-		()
Other				()

DESIGN DATA:

PROJECT SQUARE FOO	TAGES
SQUARE FOOTAGE	
UNHEATED GARAGE =	948
UNHEATED STORAGE =	288

UNFINISHED ATTIC = 440

BUILDING DATA:

Construction Type: <u>V-B</u> R-3 21'-8" Use Group: Building Height: Mean Roof Height: 15'-4"

Structure: Basic Structural System Lateral Design Control:

Soil Bearing Capacity:

Wind ⊠ 2,000 psf (Presumptive)

INDEX OF DRAWINGS:

Sheet#	SHEET NAME	
CS	Cover Sheet	
A-1	First Floor Plan	
A-2	Elevations	
A-3	Sections	
S-1	Mono Slab Foundation	
S-2	First Floor Ceiling Plan	
S-3	Roof Plan	

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STRUCTURAL DESIGN BY:MARC MILLS, RA PLAN SET SEALED FOR A SINGLE LOT ON

27

Garage/Storage Plans Sad Street, Lilington, NC

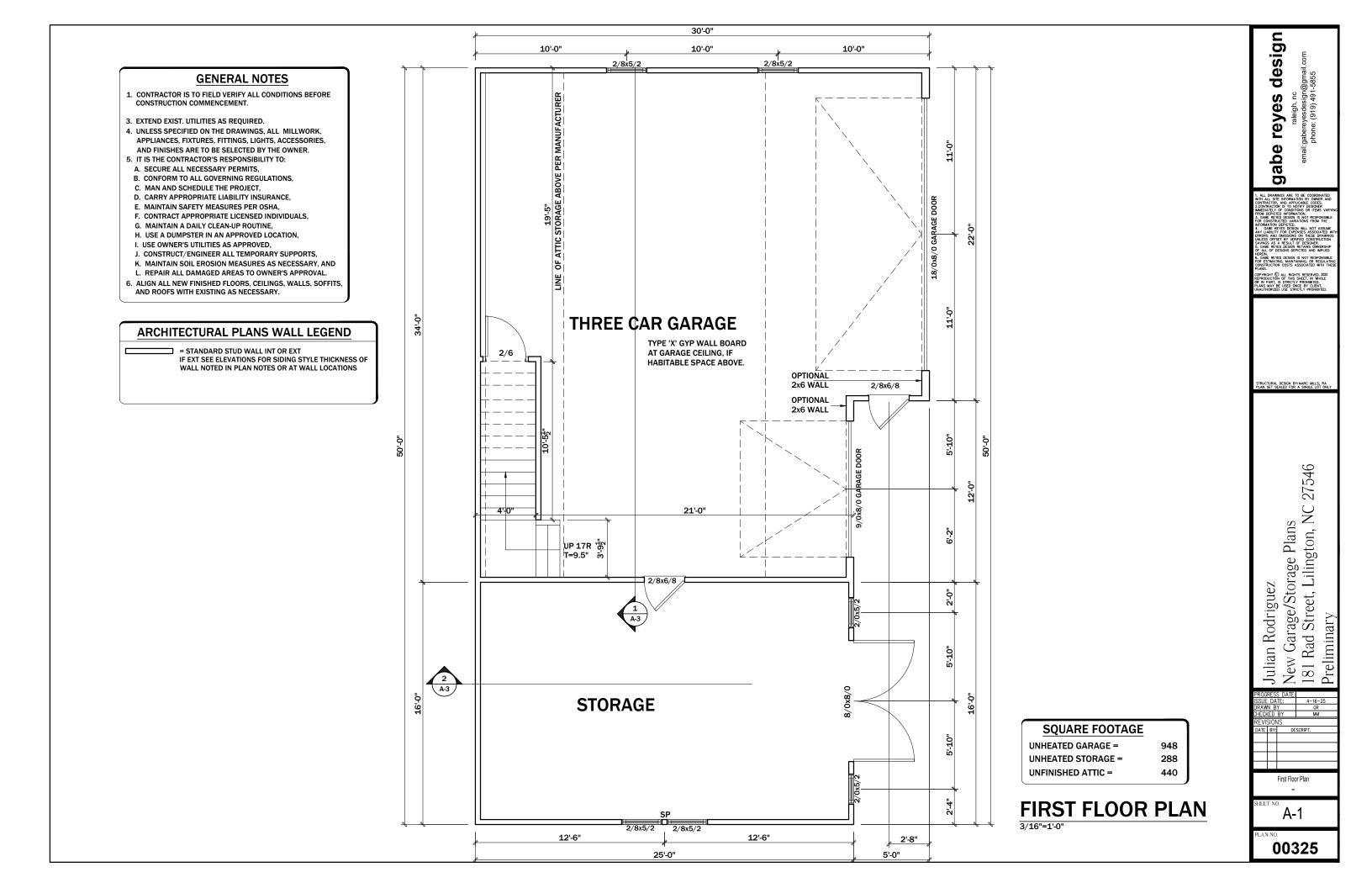
Rad 9

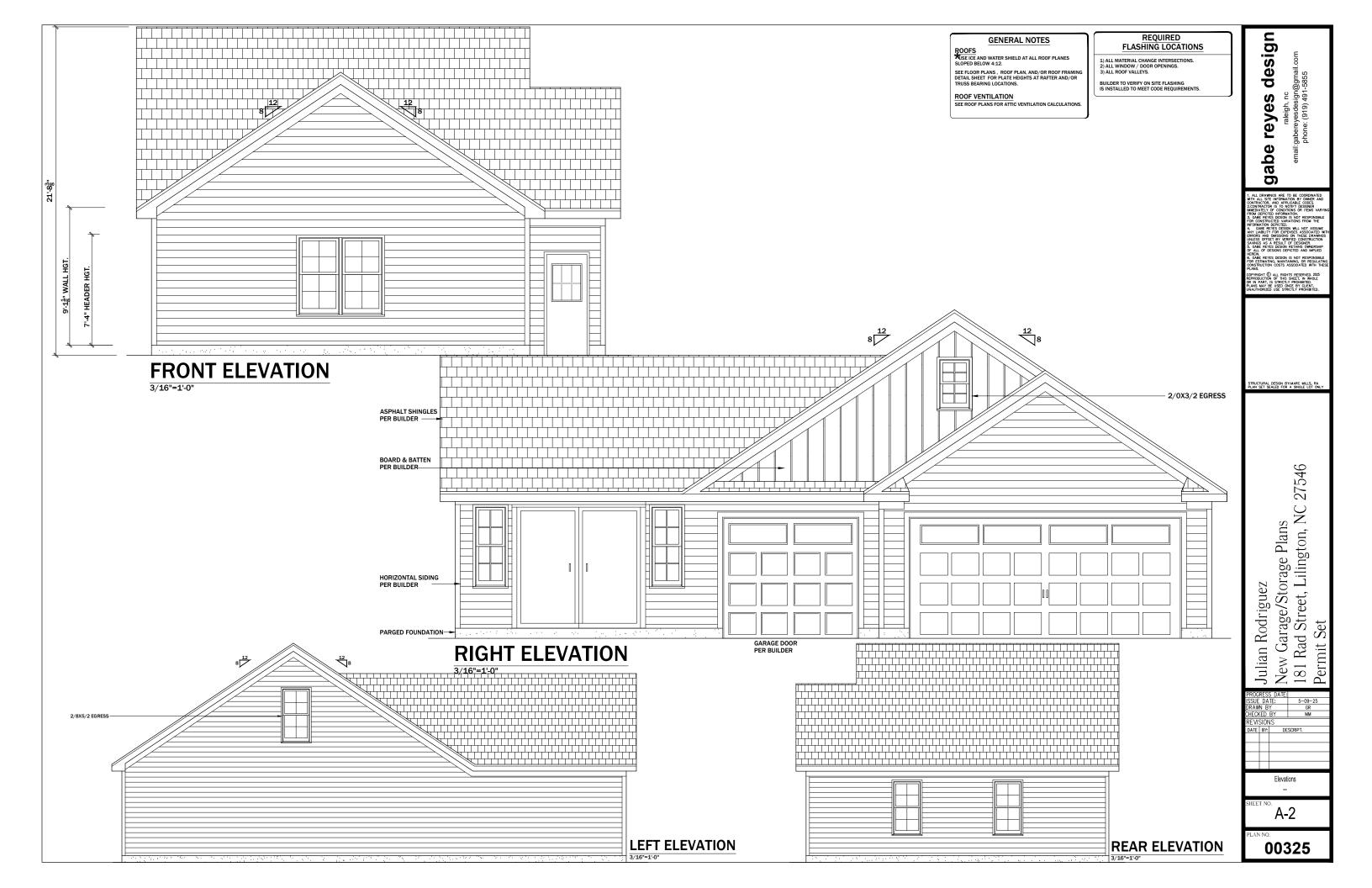
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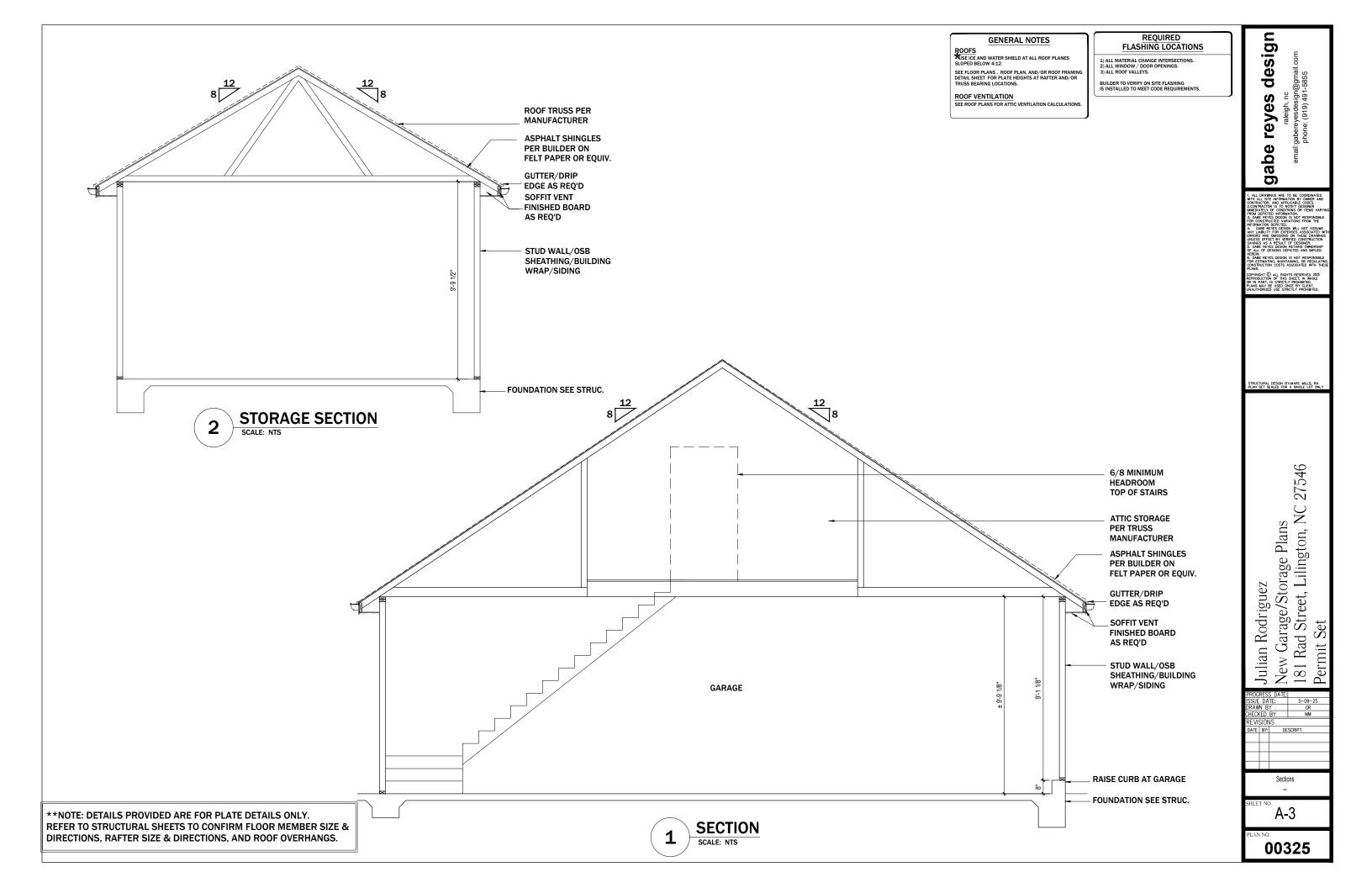
Coversheet

CS

00325







DESIGN CRITERIA

USE:	L.L.	D.L.	USE:	L.L.	D.L.
ATTICS W/O STORAGE	10	10	EXTERIOR DECKS BALCONIES	40	10
ATTICS W/ STORAGE	20	10	PASS. VEHICLE GARAGES	50	50
ATTICS W/ FIXED STAIRS	30	10	GUARDRAIL/HANDRAILS	200 LB	
SLEEPING ROOMS	30	10	ROOF (CLG. NOT ATTACHED)	20	10
ALL OTHER ROOMS	40	10	ROOF (CLG. ATTACHED)	20	15
STAIRS	40	5	INTERIOR/EXTERIOR WALLS		8/11

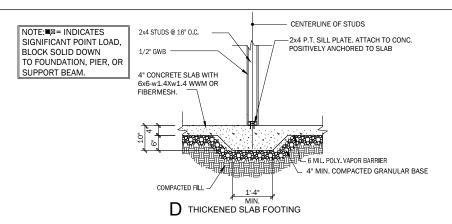
ULTIMATE DESIGN WIND SPEED: 115 MPH (EXP. CAT. B)

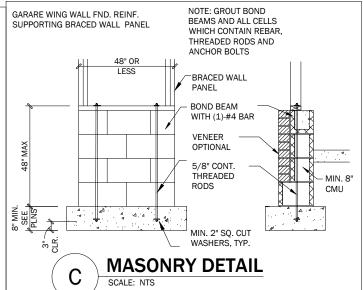
DEFLECTION LIMITS:

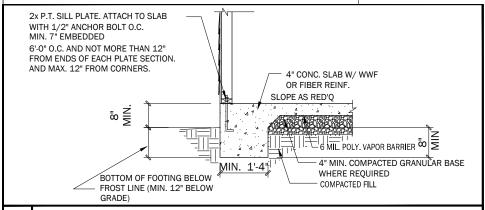
COMPONENT	DEFLECTION LIMIT
RAFTERS (3:12 SLOPE OR MORE) W/O CLG. ATTACHED	L/180
FLOORS & PLASTERED CEILINGS	L/360
FRAMING SUPPORTING MASONRY	L/600
SPANS GREATER THAN 20 FT.	L/480
ALL OTHER STRUCTURAL MEMBERS	L/240

FOUNDATION NOTES

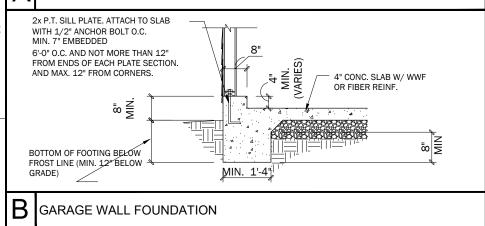
- 1. PROVIDE POSITIVE DRAINAGE AWAY FROM FOUNDATION ROOF DRAINAGE SHALL DISCHARGE AT LEAST 5 FEET AWAY FROM FOUNDATION WALLS.
- ASSUMED SOIL BEARING CAPACITY IS 2000 PSF.
 CONTRACTOR IS RESPONSIBLE TO VERIFY SOIL PROPERTIES.
 CONCRETE MIN. 28-DAY COMPRESSIVE STRENGTH: 3000 PSI
- 4. STEEL REINFORCEMENT SHALL BE DEFORMED REINFORCEMENT COMPLYING WITH THE REQUIREMENTS OF ASTM A615. MIN. YIELD STRENGTH: 40 KSI (GRADE 40) IN FOOTINGS & 60 KSI (GRADE 60) IN WALLS.
- 5. MIN. CONCRETE COVER FOR STEEL REINFORCEMENT: 3" WHEN CAST AGAINST EARTH; 112" (NO. 5 BARS OR SMALLER) OR 2" (NO. 6 BARS OR LARGER) WHEN CAST IN REMOVABLE FORMS THAT WILL BE EXPOSED TO EARTH OR WEATHER; 34" WHEN CAST IN REMOVABLE FORMS THAT WILL NOT BE EXPOSED TO EARTH OR WEATHER.
- 6. FOOTINGS SHALL BEAR A MINIMUM OF 12" BELOW GRADE, SHALL EXTEND BELOW THE FROST LINE AND SHALL BE SUPPORTED ON UNDISTURBED NATURAL SOILS OR ENGINEERED FILL.
- 7. MIN. FOOTING THICKNESS: 6" FOR 1-STORY, 8" FOR 1 12 212 STORY, 10" FOR 3 STORY. MIN. FOOTING PROJECTION IS 2" AND SHALL NOT EXCEED THE THICKNESS OF THE FOOTING IN PLAIN CONCRETE FOOTINGS.
- 8. FOOTINGS FOR MASONRY FIREPLACES/CHIMNEYS SHALL BE AT LEAST 12" THICK WITH MIN. 12" PROJECTION.
- 9. MIN. 2 X 4 PRESSURE TREATED SILL PLATE AT EXTERIOR WALLS ANCHORED TO FOUNDATION WITH MIN. 12" DIA. ANCHOR BOLTS @ MAX. 6'-0" O.C. AND MAX. 12" FROM CORNERS AND SILL SPLICES. MIN. 7" EMBEDMENT INTO SOLID FILLED MASONRY OR CONCRETE.
- 10. SLABS ON GRADE SHALL BE MIN. 4" THICK W/ 6 X 6 WWMOR FIBER REINFORCEMENT OVER 6-MIL POLY OVER 4" GRAVEL BASE OVER COMPACTED FILL. REINFORCEMENT SHALL BE PLACED IN THE CENTER OF THE SLAB WHEN USED. CONTROL JOINT LOCATIONS PER CONTRACTOR.
- 11. FOUNDATION WALLS WITH GREATER THAN 4 FEET OF UNBALANCED FILL SHALL HAVE PERMANENT LATERAL SUPPORT AT THE TOP AND BOTTOM PRIOR TO BACKFILLING. LATERAL SUPPORT PROVIDED BY A SLAB ON GRADE SHALL BE DESIGNED BY THE ENGINEER OF RECORD.
- 12. LOCATE FOUNDATION VENTS WITHIN 3-FT OF EACH CORNER OF THE BUILDING IN VENTED CRAWL SPACES. TOTAL NUMBER OF VENTS REQUIRED PER SECTION R408.1.1 NCRC. DO NOT LOCATE VENTS UNDER POINT LOADS.
- 13. COVER ALL EXPOSED EARTH IN CRAWL SPACES WITH A MIN. 6-MIL POLYETHYLENE VAPOR RETARDER OR EQUIVALENT. 14. PROVIDE A MIN. 22" X 30" ACCESS TO CRAWL SPACE, OR LARGE ENOUGH TO ALLOW REMOVAL OF THE LARGEST APPLIANCE LOCATED IN THE CRAWL SPACE. DO NOT LOCATE ACCESS UNDER POINT LOADS.
- 15. FOUNDATION WALLS SHALL HAVE A SOLID 8" CAP.
 16. MASONRY SHALL BE LAID IN RUNNING BOND AND SHALL USE TYPE M OR S MORTAR W/ 38" HEAD AND BED JOINTS. BED JOINTS FOR STARTING COURSES PLACED OVER FOUNDATION SHALL BE MIN.14" AND MAX. 112".
- 17. WALL HEIGHT, THICKNESS, BACKFILL, AND REINFORCEMENT PER TABLES R404.1.1 (1-4) NCRC.
- 18. CORBELED MASONRY SHALL MEET THE REQUIREMENTS OF SECTION R606.5.

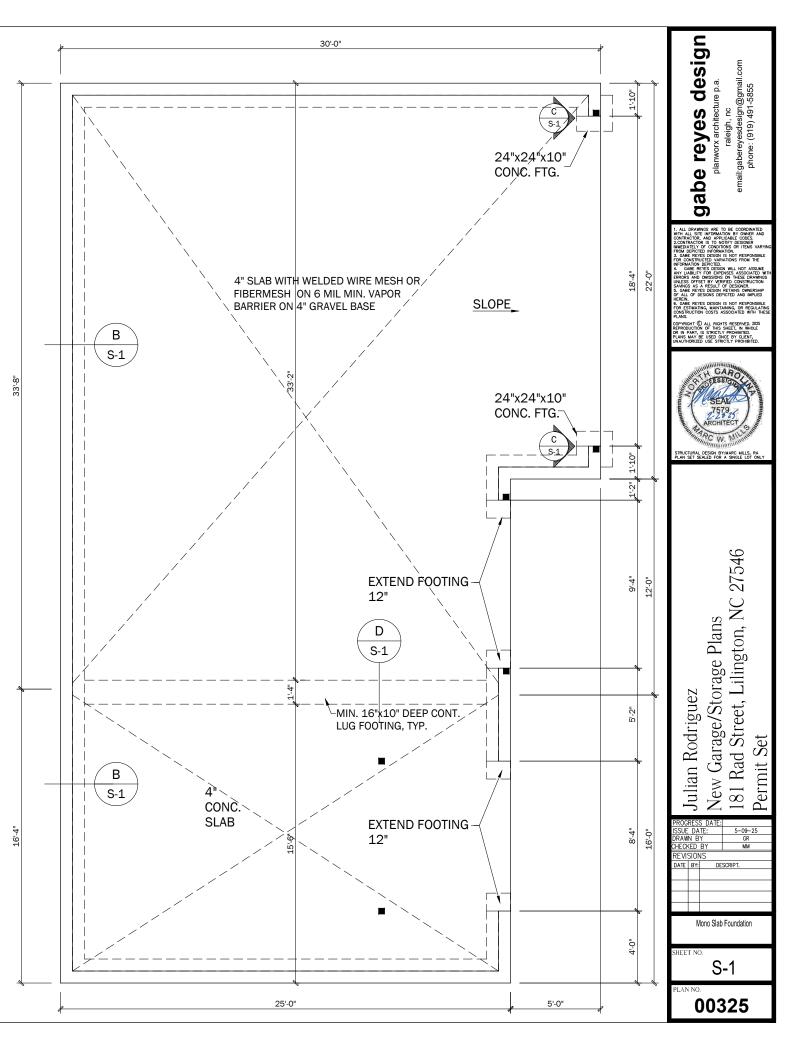






A EXTERIOR STORAGE WALL





FRAMING NOTES ALL FRAMING LUMBER SHALL BE SPF #2 (Fb = 875 PSI, Fv -**BRACED** 135 PSI, E = 1,400,000 PSI), EXCEPT THAT NON-LOAD **EXTEND HEADER STRAP** WALL LINE BEARING STUDS MAY BE STUD GRADE. TREATED LUMBER SHALL BE SYP #2 (MIN. Fb = 750 PSI, AS REQUIRED Fv = 175 PSI, E = 1,400,000 PSI). TREATED LUMBER SHALL BE USED IN ALL AREAS SUBJECT (2) KING TOWEATHER EXPOSURE, MOISTURE CONTENT EXCEEDING 19 OR OR DECAY AS DEFINED BY SECTION R317.1 NCRC. LUMBER **STUDS** N CONTACT WITH GROUND OR EMBEDDED IN CONCRETE SHALL BE RATED FOR GROUND CONTACT USE WITH AN APPROPRIATE USE CATEGORY DESIGNATION FOR THE ANTICIPATED END USE AND SERVICE CONDITIONS. FASTENERS FOR TREATED LUMBER SHALL BE OF HOT DIPPED ZINC COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. LAMINATED VENEER LUMBER (LVL) SHALL MEET THE MINIMUM SPECIFICATIONS: Fb = 2,600 PSI, Fv = 285 PSI, E = 2,000,000 PSI. MULTIPLE LVL PLIES SHALL BE 2x10 FJ PER CONNECTED TOGETHER PER MANUFACTURER ROOF TRUSS SPECIFICATIONS UNLESS NOTED OTHERWISE TRUSS FASTEN STRUCTURAL MEMBERS PER TABLE 602.3(1) MANUF. (L)NCRC.7. JOISTS AND RAFTERS SHALL HAVE A MINIMUM BEARING LENGTH OF 112" ON WOOD AND 3" ON CONCRETE OR MASONRY. BEAMS AND GIRDERS SHALL HAVE FULL BEARING ATTIC STORAGE ROOF TRUSSES PER MANUFACTURER FOR THE FULL WIDTH OF THE SUPPORT U.N.O. ALL MEMBER SPLICES SHALL OCCUR OVER A SUPPORT. PER STRUCTURAL MEMBER CUT, BORE, & NOTCH LIMITATIONS: JOISTS: SECTION R502.8 NCRC STUDS & TOP PLATES: SECTION R602.6 NCRC BEAMS: CONTACT STRUCTURAL E.O.R. FOR APPROVAL TRUSS). DOUBLE JOISTS UNDER PARALLEL WALLS. NOTE:■⊠= INDICATES 10. PROVIDE LATERAL SUPPORT AT ENDS OF FLOOR JOISTS AND BEAMS BY FULL DEPTH SOLID 2X BLOCKING OR SIGNIFICANT POINT LOAD BLOCK SOLID DOWN ATTACHMENT TO A HEADER, BAND, OR ADJOINING STUD. **GENERAL NOTES** TO FOUNDATION, PIER, OR 11. LAP JOISTS OVER SUPPORTS MIN. 3" & ATTACH W/ (3) 10d (\mathbf{c}) SUPPORT BEAM. LAPPED JOISTS PROVIDING RAFTER THRUST ALL CONSTRUCTION SHALL CONFORM TO LATEST RESISTANCE SHALL BE NAILED PER TABLE R802.5.1(9) NCRC. 12. SHEATHING SHALL BE WOOD STRUCTURAL PANEL MEETING REQUIREMENTS OF THE 2018 NORTH CAROLINA STATE WALL FRAMING: MIN. 2x4 GIRDE OPTIONAL END SPF #2 @ 16" O.C., UNO BUILDING CODE: RESIDENTIAL CODE (NCRC) AND ANY THE FOLLOWING REQUIREMENTS: (2) KING ADDITIONAL LOCAL REGULATIONS. 2x6 WALL ROOF & SUBFLOOR: TABLE R503.2.1.1(1) NCRC WALL SHEATHING: MIN. 1/2" TYP. THE ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS STUDS EXTERIOR WALLS: TABLE R602.3(3) NCRC **OPTIONAL** IS THE STRUCTURAL ENGINEER OF RECORD (EOR) FOR THIS PROJECT. THE ENGINEERS SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS. CONTRACTOR IS RESPONSIBLE 13. GYPSUM SHALL MEET THE REQUIREMENTS OF TABLE (B) 酉 2x6 WALL R702.3.5 NCRC. g 14. ALL STUD WALLS SHALL BE FRAMED WITH 2 X 4 STUDS AT TO COORDINATE PLUMBING. MECHANICAL. AND ELECTRICAL (2) KYNG 16" O.C. U.N.O. BEARING FULLY ON 2X BOTTOM PLATE & COMPONENTS PRIOR TO FRAMING. NO OTHER PARTY SHALL CAPPED WITH DOUBLE 2X TOP PLATE. END JOINTS SHALL BE OFFSET AT LEAST 24" & NEED NOT OCCUR OVER STUD UNO. STUDS MODIFY OR REUSE THESE DRAWINGS WITHOUT WRITTEN **HEADER SCHEDULE** APPROVAL FROM THE EOR. 15. ATTACH DECK BANDS TO THE STRUCTURE PER SEC. AM104 ONLY SEALED DRAWINGS WITH THE LATEST REVISION DATE NCRC WHEN DECK IS SUPPORTED AT THE STRUCTURE. HEADER HEADER TAG ARE APPLICABLE FOR CONSTRUCTION. PROVIDE BRACING PER SEC. AM109 NCRC. MAXIMUM POST (2) 1-3/4"X 9-1/4" LVL DO NOT SCALE DRAWINGS OR DETAILS. CONTACT ENGINEER 2) 2X6 DO NOT SCALE DRAWINGS OR DETAILS. CONTACT ENGIN OR DESIGNER FOR ANY DIMENSIONS NOT SHOWN ON PLANS. HEIGHT SHALL NOT EXCEED LIMITS OF SEC. AM108 NCRC. (D)(2) 2X8 (2) 1-3/4"X 11-7/8" LVL 16. PROVIDE DRAFTSTOPPING PER SECTION R302.12 AND WRITTEN DIMENSIONS OVERRULE SCALED/DEPICTED DIMS. C (2) 2X10 w/ 1/2" lag bolts @18 o.c. stag. (3) 16d @ FIREBLOCKING PER SECTION R302.11 NCRC. 5. THE ENGINEER ASSUMES NO LIABILITY FOR CONSTRUCTION (2) 2X12 D 16" o.c. 17. PROVIDE TERMITE PROTECTION PER SEC. R318.1 NCRC. N (2) 1-3/4"X 16" LVL METHODS OR QUALITY, DEVIATIONS OR OMISSIONS FROM (3) 2X4 (2) 1-3/4"X 18" LVL WALL BRACING NOTES PLANS, OR FAILURE TO MEET THE REQUIREMENTS OF THE F (3) 2X6 R (3) 1-3/4"X 9-1/4" LVL NCRC OR THE PROVIDED STRUCTURAL PLANS. THE ENGINEER EXTERIOR WALLS SHALL BE CONTINUOUSLY SHEATHED WITH G (3) 2X8 S (3) 1-3/4"X 11-7/8" LVL SHALL BE NOTIFIED IMMEDIATELY OF ANY STRUCTURAL MINIMUM 3/8" TH WOOD STRUCTURAL PANELS SHEATHING DISCREPANCIES THAT ARE IDENTIFIED. (3) 2X10 (3) 1-3/4"X 14" LVL ATTACHED TO FRAMING WITH 8d NAILS @ 6" OC EDGES & 12" OC J (3) 2X12 V (3) 1-3/4"X 16" LVL TRUSS NOTES FIELD WITH ALL SHEATHING EDGES SOLID BLOCKED UNLESS (2) KING - HEADERS SHALL BE SUPPORTED ON SINGLE JACK STUDS NOTED OTHERWISE. TRUSS LAYOUTS PROVIDED BY OTHERS SHALL COINCIDE STUDS UNLESS NOTED OTHERWISE. WOOD STRUCTURAL PANELS SHALL CONFORM TO DOC PS1, WITH THE INFORMATION SHOWN ON THIS PLAN REGARDING REQUIRED NUMBER O FULL HEIGHT KING STUDS AT EACH DOC PS2, OR ANSI/APA PRP 210. TRUSS ORIENTATION, SUPPORT LOCATIONS, AND LENGTH INTERIOR SURFACES OF EXTERIOR BRACED WALLS SHALL BE END OF HEADER SHALL BE ONE HALF OF STUDS INTERRUPTED BY A OF SPANS. ENGINEER SHALL REVIEW FINAL TRUSS WALL OPENING, OR AS REQUIRED BY NCRC TABLE R602.7.5 SHEATHED WITH MIN 1/2" TH GYPSUM WALL BOARD DRAWINGS PRIOR TO CONSTRUCTION. CONTACT ENGINEER IMMEDIATELY SHOULD ANY DISCREPANCIES BETWEEN B FASTENED PER NCRC TABLE R602.10.3(5). A-3 WALL CORNERS SHALL BE FRAMED PER NCRC FIGURE STRUCTURAL PLANS AND TRUSS DRAWINGS BECOME R602.10.3(5) A MIN. 24" LONG SHEATHING RETURN PANEL SHALL BE TRUSS DESIGN DRAWINGS SHALL BE SEALED BY THE TRUSS **ROOF TRUSSES** PROVIDED ON THE INTERSECTING WALL AT ENDS OF MANUFACTURER. BRACED WALL LINES, WHERE THIS RETURN IS NOT PER MANUFACTURER METAL-PLATE-CONNECTED WOOD TRUSSES SHALL BE PROVIDED. THE BRACED WALL LINE SHALL HAVE A MIN. 48 DESIGNED & MANUFACTURED TO COMPLY WITH ANSI/TPI1. REQ'D PROVIDED METHOD LONG PANEL AT THE CORNER. OR A HOLD-DOWN DEVICE 4. TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE BUILDING COMPONENT SAFETY INFORMATION (BCSI 1-03) RATED FOR MIN. 800 LB. SHALL ATTACH THE EDGE OF THE 6.0' 21.5 CS-WSP A-3 BRACED WALL PANEL CLOSEST TO THE CORNER TO THE GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, & 23.5' CS-WSP 6.0' FOUNDATION OR FLOOR FRAMING BELOW. BRACING OF METAL PLATE CONNECTED WOOD TRUSSES. 9.5' 50.0' CS-WSP BRACED WALL PANELS SHALL BE CONNECTED TO FLOOR AND REFER TO "BCSI-B3 SUMMARY SHEET - PERMANENT D` CEILING FRAMING PER NCRC FIGURES R602.10.4.4(1) & (2).7. 2 9.5' 14.5' CS-WSP RESTRAINT/BRACING OF CHORDS & WEB MEMBERS" FOR BRACED WALL PANELS SHALL BE CONNECTED TO ROOF SUMMARY OF REQUIRED PERMANENT BRACING OF TRUSSES. HOUSE: 1 STORY (5:12 PITCH) FRAMING PER NCRC SECTION R602.10.4.5. BRACED WALL LINE B 2SP WALL LINE (B)B (2)(1)

design reyes ape

CAR SEAL 7579 ARCHITECT

RUCTURAL DESIGN BY:MARC MILLS, RA AN SET SEALED FOR A SINGLE LOT ON

27546 New Garage/Storage Plans 181 Rad Street, Lilington, NC Julian Rodriguez

ATE BY: DESCRIPT. Attic Floor Framing

S-2

00325

TRUSS NOTES

- 1. TRUSS LAYOUTS PROVIDED BY OTHERS SHALL COINCIDE WITH THE INFORMATION SHOWN ON THIS PLAN REGARDING TRUSS ORIENTATION, SUPPORT LOCATIONS, AND LENGTH OF SPANS. ENGINEER SHALL REVIEW FINAL TRUSS DRAWINGS PRIOR TO CONSTRUCTION. CONTACT ENGINEER IMMEDIATELY SHOULD ANY DISCREPANCIES BETWEEN STRUCTURAL PLANS AND TRUSS DRAWINGS BECOME APPARENT.
- 2. TRUSS DESIGN DRAWINGS SHALL BE SEALED BY THE TRUSS MANUFACTURER.
- 3. METAL-PLATE-CONNECTED WOOD TRUSSES SHALL BE DESIGNED & MANUFACTURED TO COMPLY WITH ANSI/TPI1.
 4. TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE BUILDING COMPONENT SAFETY INFORMATION (BCSI 1-03) GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES.
- 5. REFER TO "BCSI-B3 SUMMARY SHEET PERMANENT RESTRAINT/BRACING OF CHORDS & WEB MEMBERS" FOR SUMMARY OF REQUIRED PERMANENT BRACING OF TRUSSES.

ROOF NOTES

- 1. RAFTERS SHALL BE FRAMED TO A RIDGE BOARD MIN. 1"
 NOMINAL THICKNESS AND NOT LESS IN DEPTH THAN THE
 CUT END OF THE RAFTER. OPPOSING RAFTERS AT THE
 RIDGE MUST ALIGN WITHIN THE RIDGE MEMBER THICKNESS.2. HIP
 RAFTERS SHALL BE MIN. 2" NOMINAL THICKNESS AND
 NOT LESS IN DEPTH THAN THE CUT END OF THE RAFTER.
 REGULARLY SPACED HIP AND VALLEY RAFTERS NEED NOT
 ALIGN. DO NOT SPLICE VALLEY BEAMS.
- ROOF SPECS APPLY TO ROOFS WITH MIN. 3:12 PITCH.
 COLLAR TIES SHALL BE MIN. 1" X 4" (NOMINAL), SPACED
- MAX. 4-FT O.C., LOCATED IN THE UPPER 13 OF ATTIC SPACE.
 5. STRUCTURAL ROOF MEMBERS SHALL NOT BE CUT, BORED, OR NOTCHED IN EXCESS OF THE LIMITATIONS SPECIFIED IN
- OR NOTCHED IN EXCESS OF THE LIMITATIONS SPECIFIED IN SECTION R802.7 NCRC.
 6. PROVIDE VENTILATION FOR ENCLOSED ATTICS/ RAFTER SPACES FOR EACH ENCLOSED SPACE. MIN. REQUIRED

VENTILATION AREA SHALL BE DETERMINED PER SEC. R806.2

- NCRC.PROVIDE MIN. 1" AIR SPACE BETWEEN INSULATION & ROOF SHEATHING AT ROOF VENT LOCATIONS.
 7. ATTICS EXCEEDING 400 SQ. FT. SHALL HAVE A MIN. 20" X 30" ACCESS OR LARGE ENOUGH TO ALLOW REMOVAL OF THE
- LARGEST APPLIANCE LOCATED IN THE ATTIC.

 8. A CRICKET OR SADDLE SHALL BE INSTALLED ON THE RIDGE SIDE OF ANY PENETRATION MORE THAN 30" WIDE AS MEASURED PERPENDICULAR TO THE SLOPE. CRICKETS SHALL BE CONSTRUCTED IN COMPLIANCE WITH FIGURE R1003.20 AND TABLE R1003.20 NCRC.
- 9. PROVIDE RAFTER TIES PER SEC. R802.3.1 WHERE CEILINGJOISTS ARE NOT CONNECTED TO RAFTERS AT TOP PLATE

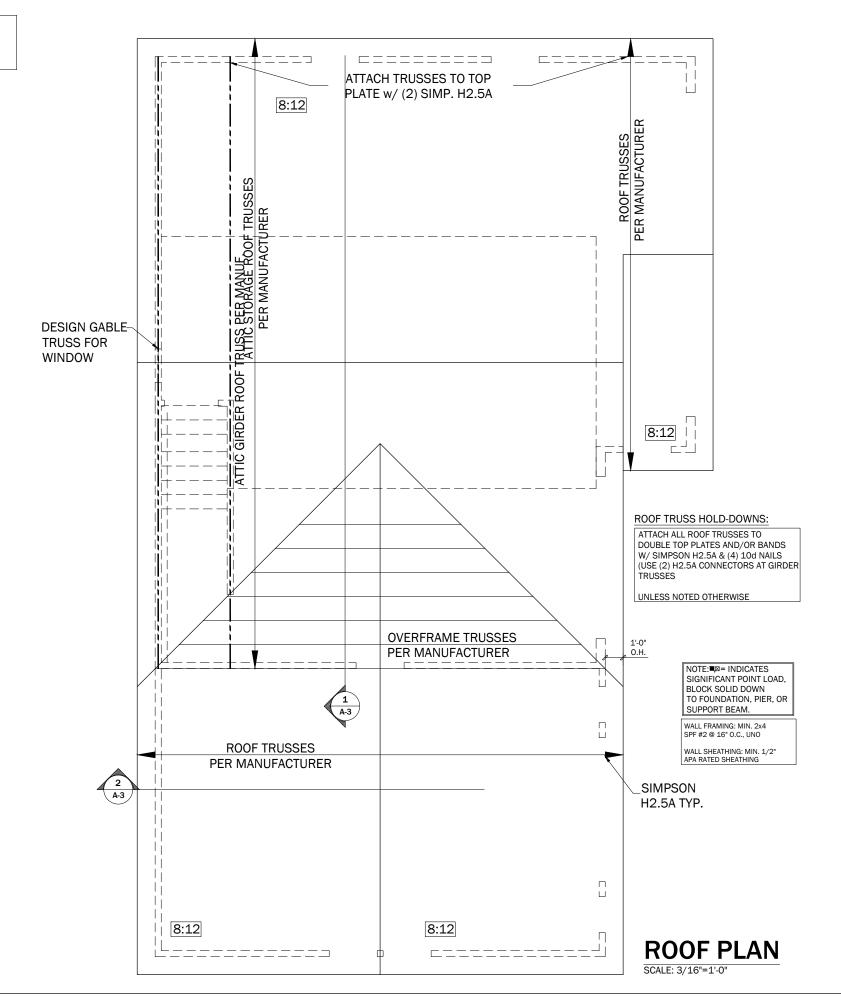
GENERAL NOTES

- ALL CONSTRUCTION SHALL CONFORM TO LATEST REQUIREMENTS OF THE 2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE (NCRC) AND ANY ADDITIONAL LOCAL REGULATIONS.
- 2. THE ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS IS THE STRUCTURAL ENGINEER OF RECORD (EOR) FOR THIS PROJECT. THE ENGINEERS SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS. CONTRACTOR IS RESPONSIBLE TO COORDINATE PLUMBING, MECHANICAL, AND ELECTRICAL COMPONENTS PRIOR TO FRAMING. NO OTHER PARTY SHALL MODIFY OR REUSE THESE DRAWINGS WITHOUT WRITTEN APPROVAL FROM THE EOR.
- 3. ONLY SEALED DRAWINGS WITH THE LATEST REVISION DATE ARE APPLICABLE FOR CONSTRUCTION.
- 4. DO NOT SCALE DRAWINGS OR DETAILS. CONTACT ENGINEER OR DESIGNER FOR ANY DIMENSIONS NOT SHOWN ON PLANS. WRITTEN DIMENSIONS OVERRULE SCALED/DEPICTED DIMS. 5. THE ENGINEER ASSUMES NO LIABILITY FOR CONSTRUCTION METHODS OR QUALITY, DEVIATIONS OR OMISSIONS FROM PLANS, OR FAILURE TO MEET THE REQUIREMENTS OF THE NCRC OR THE PROVIDED STRUCTURAL PLANS. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY STRUCTURAL DISCREPANCIES THAT ARE IDENTIFIED.

Α	Ceiling area (square footage)	1355
В	Sqft. of ventilation required	9.0
Formul	as: B = A / 150	
Notes:		
minimu	to calculate quantities and types of vents to ma im requirement. Attic ventilation shall be approximand 50% high (gable end or ridge vents).	

ROOF SHEATHING: MIN. ½" APA RATED SHEATHING

BRACED WALL PANELS SHALL BE CONNECTED TO ROOF FRAMING PER R602.10.5.5



reyes design

ape

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Julian Rodriguez

New Garage/Storage Plans

181 Rad Street, Lilington, NC 27546

PROGRESS DATE:
SSUE DA

LANINO

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